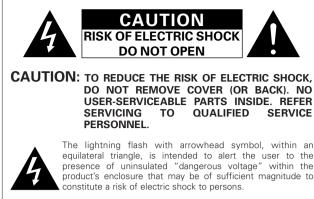


AV SURROUND RECEIVER

AVR-4806CI

OPERATING INSTRUCTIONS

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The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

FCC INFORMATION (For US customers)

1. COMPLIANCE INFORMATION Product Name: AV Surround Receiver Model Number: AVR-4806Cl

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

Denon Electronics (USA), LLC 19C Chapin Road, Suite 205 Pine Brook, NJ 07058-9385 Tel. 973-396-0810 (Main)

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product.

3. NOTE

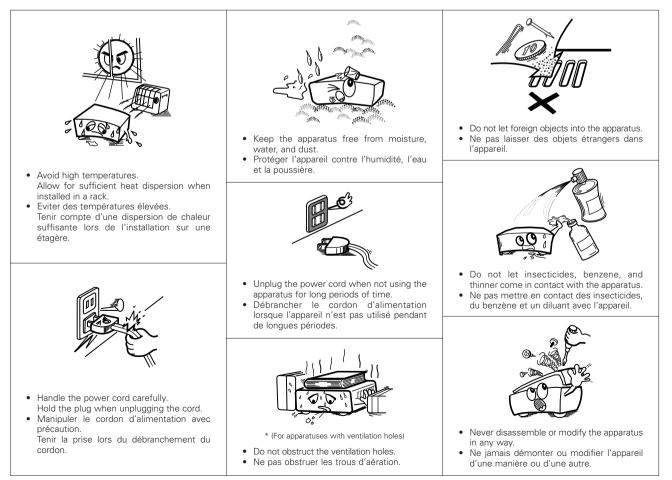
This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
 Connect the product into an outlet on a circuit different from that to which
- the receiver is connected.
- Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

This Class B apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

□ NOTE ON USE / OBSERVATIONS RELATIVES A L'UTILISATION



2

SAFETY INSTRUCTIONS

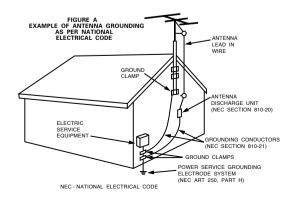
- 1. Read Instructions All the safety and operating instructions should be read before the product is operated.
- Retain Instructions The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings All warnings on the product and in the operating instructions should be adhered to.
- Follow Instructions All operating and use instructions should be followed.
- Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
- Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- Water and Moisture Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- Accessories Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a

mounting accessory recommended by the manufacturer.

 A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



- 10. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 11. Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12. Grounding or Polarization This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.



- 13. Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- 15. Outdoor Antenna Grounding If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
- 16. Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 17. Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 19. Object and Liquid Entry Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 21. Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the power-supply cord or plug is damaged,
 - b) If liquid has been spilled, or objects have fallen into the product,
 - c) If the product has been exposed to rain or water,
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
 - e) If the product has been dropped or damaged in any way, and
 f) When the product exhibits a distinct change in performance

 this indicates a need for service.
- 22. Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- Wall or Ceiling Mounting The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 25. Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Getting Started

Thank you for choosing the DENON AVR-4806CI AV Surround Receiver. This remarkable component has been engineered to provide superb surround sound listening with home theater sources such as DVD, as well as providing outstanding high fidelity reproduction of your favorite music sources.

As this product is provided with an immense array of features, we recommend that before you begin hookup and operation that you review the contents of this manual before proceeding.

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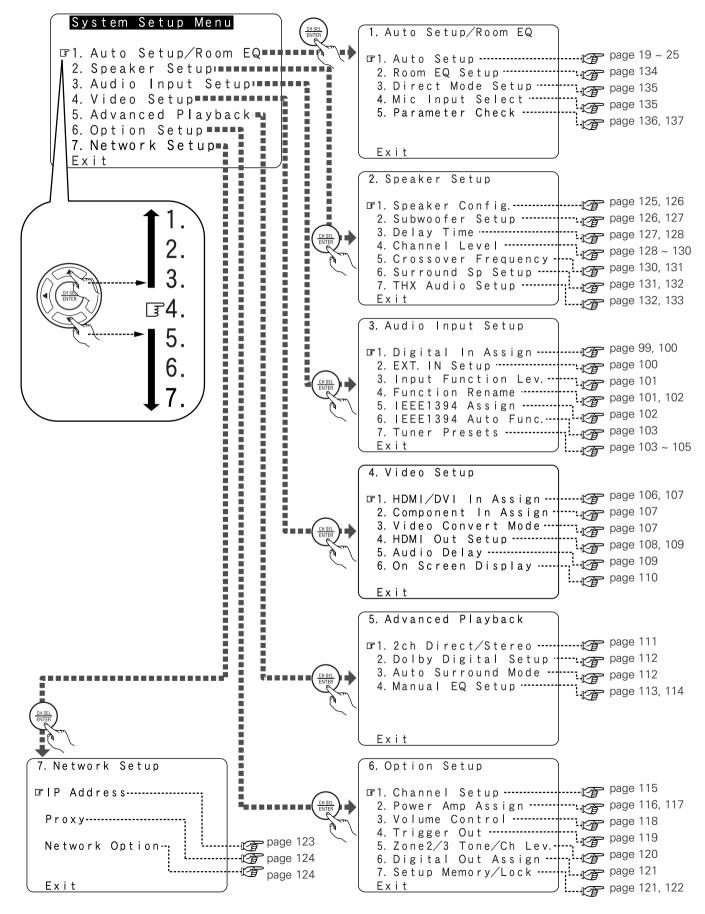
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System Setup Menu



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Accessories

• Check that the following parts are included in addition to the main unit:



- Warranty (for North America model only).....1
 Service station list.....1
- 5 Remote control unit (RC-1036).....1
- (9) Setup microphone (DM-S305)1

Before using

Pay attention to the following before using this unit:

· Moving the set

To prevent short circuits or damaged wires in the connection cables, always unplug the power supply cord and disconnect the connection cables between all other audio components when moving the set.

· Before turning the Power switch on

Check once again that all connections are proper and that there are not problems with the connection cables. Always set the power switch to the standby position before connecting and disconnecting connection cables.

- Store these instructions in a safe place. After reading, store these instructions along with the warranty in a safe place.
- Note that the illustrations in these instructions may differ from the actual set for explanation purposes.

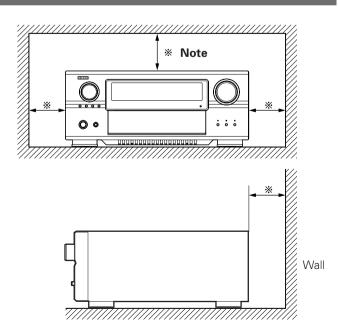
Cautions on installation

Noise or disturbance of the picture may be generated if this unit or any other electronic equipment using microprocessors is used near a tuner or TV.

- If this happens, take the following steps:
- Install this unit as far as possible from the tuner or TV.
- Set the antenna wires from the tuner or TV away from this unit's power supply cord and input/output connection cables.
- Noise or disturbance tends to occur particularly when using indoor antennas or 300 Ω /ohms feeder wires. We recommend using outdoor antennas and 75 Ω /ohms coaxial cables.

Note:

For heat dispersal, do not install this equipment in a confined space such as a book case or similar unit.



7

Getting Started

Cautions on handling

• Switching the input function when input terminals are not connected.

A clicking noise may be produced if the input function is switched when nothing is connected to the input terminals. If this happens, either turn down the MASTER VOLUME control knob or connect components to the input terminals.

• Muting of PRE OUT terminals and SPEAKER terminals.

The PRE OUT terminals and SPEAKER terminals include a muting circuit. Because of this, the output signals are greatly reduced for several seconds after the power switch is turned on or input function, surround mode or any otherset-up is changed. If the volume is turned up during this time, the output will be very high after the muting circuit stops functioning. Always wait until the muting circuit turns off before adjusting the volume. • Whenever the power switch is in the STANDBY state, the apparatus is still connected on AC line voltage. Please be sure to turn off the power switch or unplug the cord when you leave home for, say, a vacation.

Preparing the remote control unit

• The included remote control unit (RC-1036) can be used to operate not only the AVR-4806Cl but other remote control compatible DENON components as well. In addition, the memory contains the control signals for other remote control units, so it can be used to operate non-DENON remote control compatible products.

Inserting the batteries

1 Remove the remote control unit's rear cover.



(2) Set two LR6/AA batteries in the battery compartment in the indicated direction.



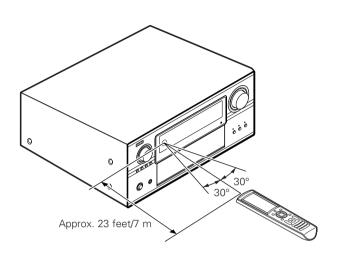
③ Put the rear cover back on.



Notes on batteries:

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated nearby the set. (The included battery is only for verifying operation.)
- When inserting the batteries, be sure to do so in the proper direction, following the "⊕" and "⊖" marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
 - Do not use a new battery together with an old one.
 - Do not use two different types of batteries.
 - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Remove the batteries from the remote control unit when you do not plan to use it for an extended period of time.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- When replacing the batteries, have the new batteries ready and insert them as quickly as possible.

Operating range of the remote control unit



- Point the remote control unit at the remote sensor on the main unit as shown on the diagram.
- The remote control unit can be used from a straight distance of approximately 23 feet/7 meters from the main unit, but this distance will be shorter if there are obstacles in the way or if the remote control unit is not pointed directly at the remote sensor.
- The remote control unit can be operated at a horizontal angle of up to 30 degrees with respect to the remote sensor.

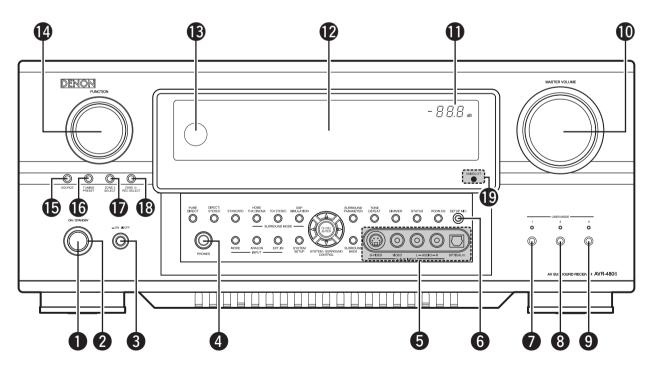
NOTE:

- It may be difficult to operate the remote control unit if the remote sensor is exposed to direct sunlight or strong artificial light.
- Do not press buttons on the main unit and remote control unit simultaneously. Doing so may result in malfunction.
- Neon signs or other devices emitting pulse-type noise nearby may result in malfunction, so keep the set as far away from such devices as possible.

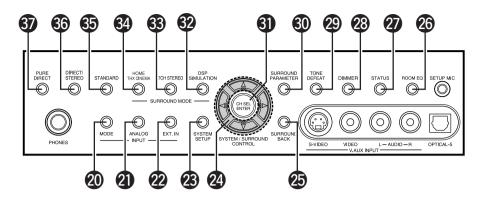
Part names and functions

Front panel

• For details on the functions of these parts, refer to the pages given in parentheses ().



Getting Started



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3 Power switch	(21, 96)
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O V.AUX INPUT terminals	(30)
6 SETUP MIC jack	(20)
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3 USER MODE 2 button	(60)
9 USER MODE 3 button	(60)
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Display	(11)
B Remote control sensor	(9)
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D ZONE2 SELECT button	(92)
B ZONE3/REC SELECT button	(92, 95)
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3 7CH STEREO button	(62)
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I	Þ (B		P	Φ	09		Ψ	
DC DIGITAL	AUTO	AUTO	PCM) DTS	AL24	DENON LIN	<u> </u>	[-]		dB
DSD PCM DIG. HDCD		·							DTS NEO DIPROLOO SW ISP-	6
FL C FR SL S SR SBL SB SBR									FL C SL SBL SB	FR SR SBR

1 Input signal indicator

The respective indicator will light corresponding to the input signal.

2 Input signal channel indicator

The channels included in the input source will light. This lights when the digital signal is inputted.

③ Information display

This displays the surround mode, function name or setting value, etc.

4 Output signal channel indicator

The audio channels that can be output light.

Speaker indicator

This lights corresponding to the settings of the surround speakers of the various surround modes.

6 Decoder indicator

This lights when each decoder is operating.

Master volume indicator

This displays the volume level. The Setup item number is displayed in System Setup.

1 EEE1394 indicator

This lights during playback in a IEEE1394 connection.

MULTI (zone) indicator

ZONE3 mode is selected in ZONE3/REC SELECT.

Recording output source indicator

REC OUT mode is selected in ZONE3/REC SELECT.

DENON LINK indicator

This lights during playback in a DENON LINK connection.

AL24 indicator

The AL24 indicator lights when the PURE DIRECT, DIRECT, STEREO, MULTI CH PURE DIRECT, MULTI CH DIRECT, MULTI CH IN mode is selected in the PCM input signal.

Input mode indicator

This lights corresponding to the setting of the INPUT mode.

BRDS indicator

This lights when RDS broadcast has been received.

Output Description 1 - Contract Cont

This lights when the broadcast station is selected in the AUTO tuning mode.

1 TUNED indicator

This lights when an FM/AM broadcast has been received.

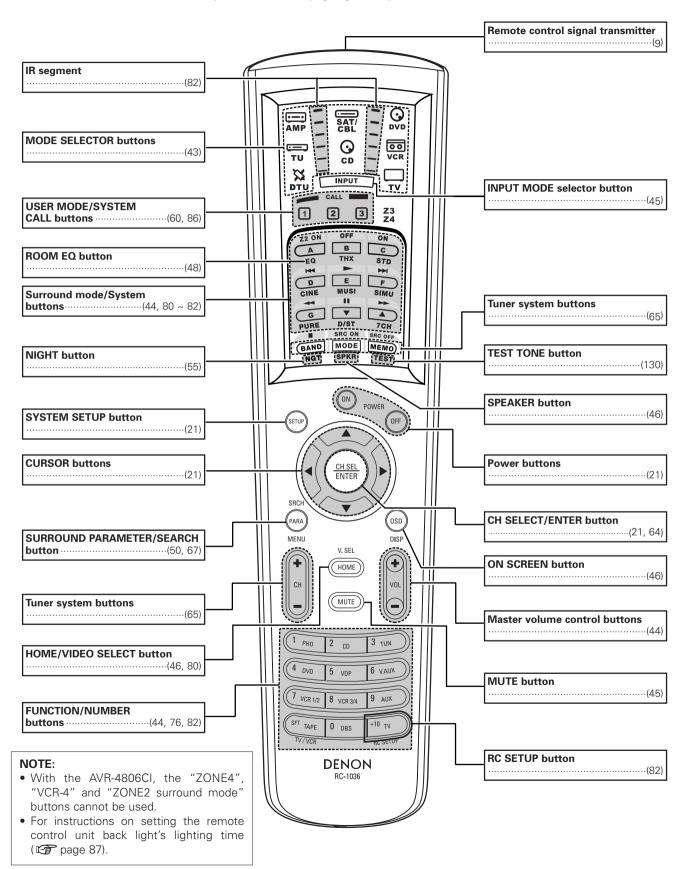
D STEREO indicator

This lights when an FM stereo broadcast has been received.

Getting Started

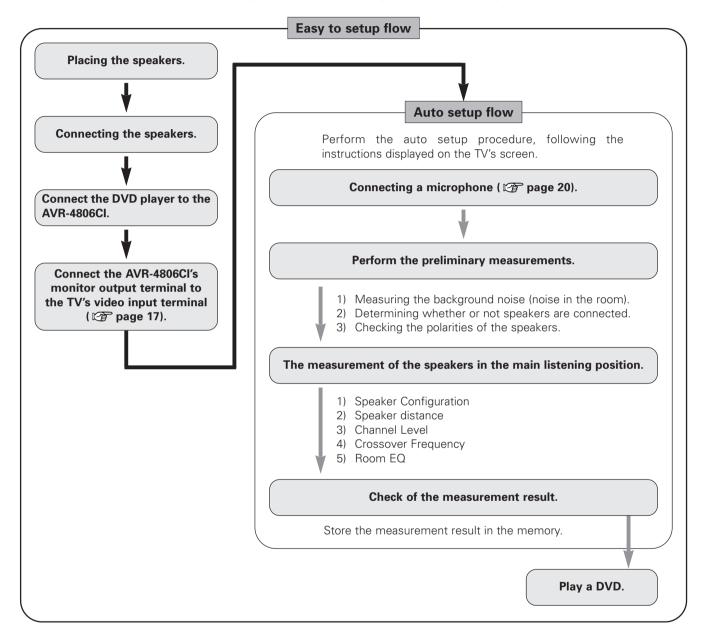
Remote control unit

• For details on the functions of these parts, refer to the pages given in parentheses ().



Easy Setup and Operation

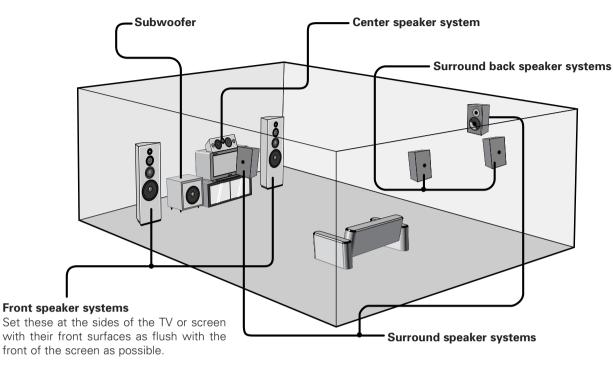
- This section contains the basic steps necessary to configure the AVR-4806Cl according to your listening room environment and the source equipment and loudspeakers you are using.
- For optimum performance, we recommend using the Auto Setup function.
- If you wish, you can set the various settings manually without using Auto Setup (127 133).



Speaker system layout

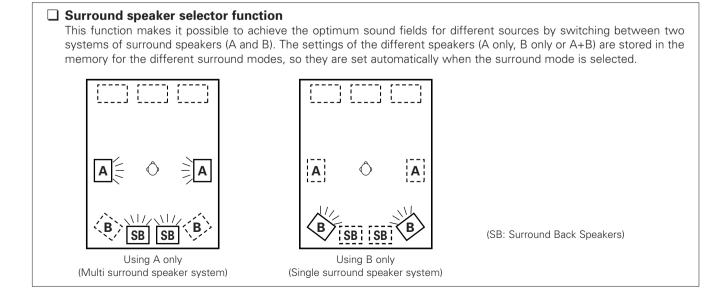
Basic system layout (For a THX Ultra2 system)

• The following is an example of the basic layout for a system consisting of eight speaker systems and a television monitor:



Two surround back speakers are required to use the THX Ultra2 Cinema,THX Music mode and THX Games mode. Set the surround back speakers so that the distance to the listening position is the same for both the left and right speakers. It is also recommended that the deviations of the distance from the listening position to L and R channel speakers (front left (FL) and front right (FR), surround left (SL) and surround right (SR), surround back left (SBL) and surround back right (SBR)) is less than 2 ft (60 cm).

With the AVR-4806Cl it is also possible to use the surround speaker selector function to choose the best layout for a variety of sources and surround modes.



Speaker connections

 Connect the speaker terminals with the speakers making sure that like polarities are matched (⊕ with ⊕, ⊖ with ⊖). Mismatching of polarities will result in weak central sound, unclear orientation of the various instruments, and the sense of direction of the stereo being impaired.

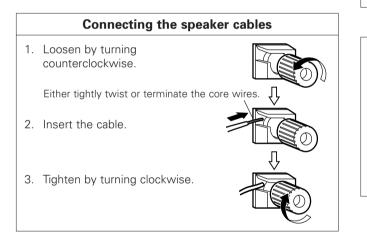
NOTE:

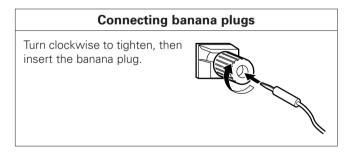
NEVER touch the speaker terminals when the power is on. Doing so could result in electric shocks.

• When making connections, take care that none of the individual conductors of the speaker cable come in contact with adjacent terminals, with other speaker cable conductors, or with the rear panel and screws.

Speaker Impedance

- Speakers with an impedance of from 6 to 16 Ω /ohms can be connected for use as front, center, surround and surround back speakers.
- Be careful when using two pairs of surround speakers (A + B) at the same time, since use of speakers with an impedance of less than 8 Ω/ohms will lead to damage.





Protector circuit

This unit is equipped with a high-speed protection circuit. The purpose of this circuit is to protect the speakers under circumstances such as when the output of the power amplifier is inadvertently short-circuited and a large current flows, when the temperature surrounding the unit becomes unusually high, or when the unit is used at high output over a long period which results in an extreme temperature rise.

When the protection circuit is activated, the speaker output is cut off and the power supply indicator flashes. Should this occur, please follow these steps: be sure to switch off the power of this unit, check whether there are any faults with the wiring of the speaker cables or input cables, and wait for the unit to cool down if it is very hot. Improve the ventilation condition around the unit and switch the power back on.

If the protection circuit is activated again even though there are no problems with the wiring or the ventilation around the unit, switch off the power and contact a DENON service center.

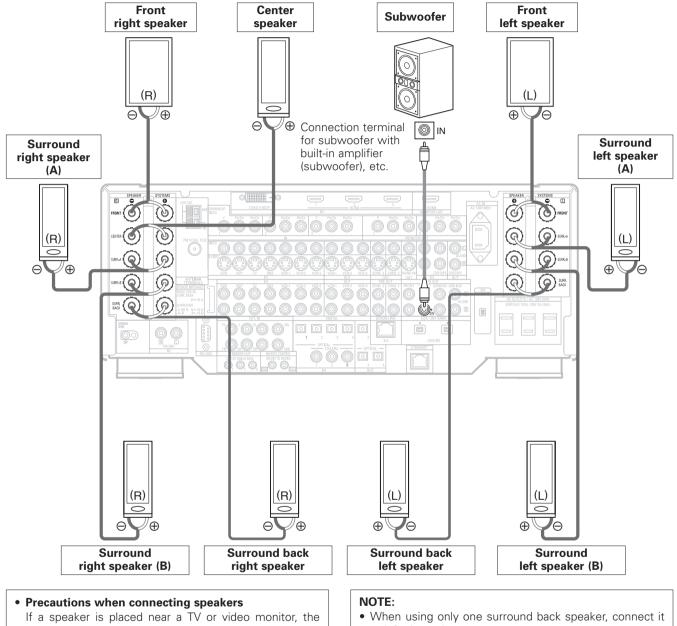
Note on speaker impedance

The protector circuit may be activated if the set is played for long periods of time at high volumes when speakers with an impedance lower than the specified impedance (for example speakers with an impedance of lower than 4 Ω /ohms) are connected. If the protector circuit is activated, the speaker output is cut off. Turn off the set's power, wait for the set to cool down, improve the ventilation around the set, then turn the power back on.

Easy Setup and Operation

□ Connections

- The AVR-4806CI can be configured for 10 speaker playback using two pairs of surround speakers (A+B) and one pair of surround back speakers as shown below.
- The output of each power amplifier can be assigned to any desired channel to best suit the application.
- For details, refer to "Setting the Channel Setup" and "Setting the Power Amplifier Assignment" (12) page 116, 117).
- When making connections, also refer to the operating instructions of the other components.

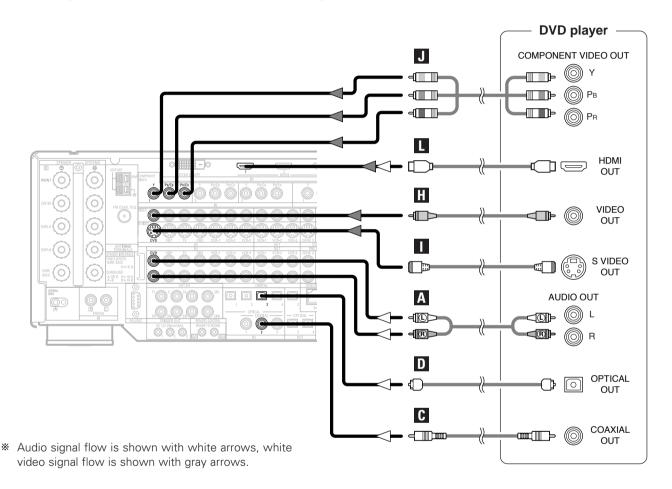


colors on the screen may be disturbed by the speaker's magnetism. If this should happen, move the speaker away to a position where it does not have this effect.

to left channel.

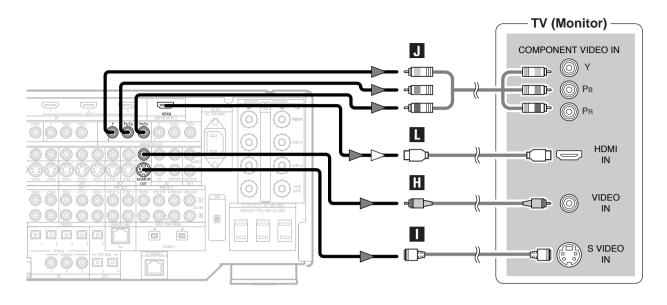
Connecting a DVD player and TV (Monitor)

- To connect the video output from the DVD player to the AVR-4806CI, you only need to choose one connection type. Component video connection offers the best quality (and is required for progressive DVD playback), followed by S-Video, while composite video offers the lowest picture quality of the three connection types. For more information about the video up conversion function (1277) page 27).
- The AVR-4806Cl is equipped with HDMI connectors, so it can be connected to a DVD player or TV (monitor) using an HDMI cable. To connect it to a DVD player using a DVI-D cable (12) page 36).
- To connect the digital audio output from the DVD player, you can choose from either the coaxial or optical connections. If you choose to use the optical connection, it needs to be assigned. For more information about Digital Input Assignment (12) page 99).
- The AVR-4806Cl is equipped with another set of input terminals for a non-DVD Video Disc Player (such as laser disc, VCD/SVCD, or future high definition disc player). The above connection guidelines for DVD also apply to the VDP input.



Easy Setup and Operation

• For best picture quality (especially with progressive DVD and other high definition sources) choose the component video or HDMI connection to your monitor or TV. S-Video and composite video outputs are also provided if your TV does not have component video inputs.



NOTE:

- The component video input and/or output terminals may be labeled differently on some TVs, monitors or video components (Y, PB, PR; Y, CB, CR; Y, B-Y, R-Y). Check the operating instructions for other components for further information.
- The COMPONENT MONITOR OUT-1 and the COMPONENT MONITOR OUT-2 can be used simultaneously.
- Audio signals are only output from the HDMI monitor out connector when audio signals are input to the HDMI input connector.
- When connecting the AVR-4806Cl and DVD player using an HDMI cable, also connect the AVR-4806Cl and monitor or TV using an HDMI cable (12) page 35).

Auto Setup / Room EQ

The Auto Setup and Room EQ function of this unit performs an analysis of the speaker system and measures the acoustic characteristics of your room to permit an appropriate automatic setting.

The AVR-4806CI's Audyssey MultEQ XT function has the feature that it provides the optimum listening environment at all listening positions in the home theater, where there are often multiple listeners viewing programs together. To achieve this, it is first necessary to use a microphone to measure test tones generated from the different speakers at the various listening positions. All this measured data is analyzed with a unique method to comprehensively improve acoustic characteristics in the listening area. For optimum effectiveness, measurements should be performed at six or more points. Move the microphone successively within the listening area surrounded by the speakers as shown on the diagram below to measure the test tones. When listening to music or viewing movies with the whole family, move the microphone successively to the different positions in which the members of the family sit ("-" on the diagram indicates the points of installation) and measure repeatedly (Example (1). Even if the number of people using the home theater is small, taking multiple measurements at or near the listening positions makes it possible to correct the sound more effectively (Example 2).

The AVR-4806Cl's Room EQ function offers three correction curves: "Audyssey", "Front" and "Flat". These can be selected after performing the auto setup procedure. Details of the different correction curves are described below.

• Audyssey:

This adjusts the frequency response of all speakers to correct the effects of room acoustics.

• Front:

This adjusts the characteristics of each speaker to the characteristics of the front speakers.

• Flat:

This the frequency response of all speakers flat.

This is suitable for multi-channel music reproduction, from discrete music sources such as Dolby Digital 5.1, DTS, DVD-Audio and Super Audio CD.

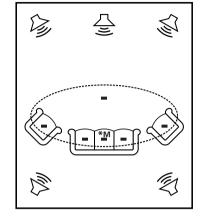


• To make the Speaker system settings without using the Auto Setup function (2 page 125 ~ 133).

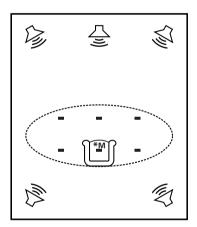
□ About the main listening position (*M)

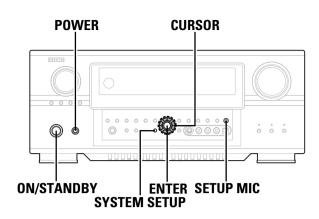
• The main listening position is the point where a listener sits most often or the listening position when only one person is listening. Measurements on the AVR-4806Cl start from this point. Correction for the speaker distance ("Delay Time") is set based on this point.

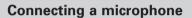




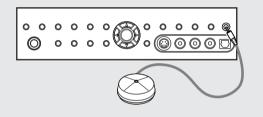




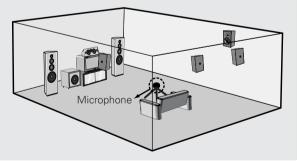


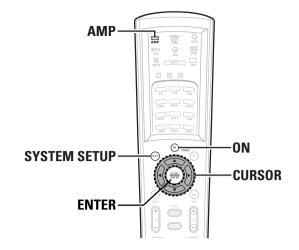


1 Connect the microphone for Auto Setup to the **SETUP MIC** jack on the front panel of the unit.



Mount the auto setup microphone onto a camera tripod, etc., and place it at ear height at the main listening position in the listening room with the sound receptor facing the ceiling.





- * When placing the microphone, adjust the height so that the microphone's sound receptor is at the height of the ears of the listener.
- * Be sure that at the beginning, the measurement is started with the microphone set up at the main listening position.
- * It is not possible to measure properly if there are any obstacles between the speakers and microphone. Check that there are no obstacles.
- * Please do not stand between or near the speakers and the microphone during the measurements.

NOTE:

- Do not disconnect the microphone until the settings are completed.
- Do not change the connection of speakers or the subwoofer's volume after performing these measurements.

Turning on the power

Turn on your subwoofer.

- * Set the volume to halfway and set the crossover frequency to the maximum or Low pass filter off if your subwoofer can adjust the output volume and the crossover frequency.
- * Some subwoofers have a standby mode. Be sure to turn this function off before performing the Auto Setup procedure.

Turn on your TV (monitor).

Press the **POWER** switch.

ON:

The power turns on and the power indicator lights. Set the POWER switch to this position to turn the power on and off from the included remote control unit.

OFF:

The power turns off and indicator is off.

In this position, the power cannot be turned on and off from the remote control unit.

Press the **ON/STANDBY** switch on the main unit or **ON** button on the remote control unit.

- When pressed, the power turns on and the display lights.
- When pressed again, the power turns off, the standby mode is set and the display turns off.
- * The sound is muted for several seconds, after which the unit operates normally.
- * Whenever the **ON/STANDBY** button is in the standby state, the apparatus is still connected to the AC line voltage. Please be sure to turn off the POWER switch or unplug the cord when you leave home for, say, a vacation.

Press the AMP button to select "AMP" (only when operating with the remote control unit).

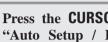
Starting Auto Setup

- Press the SYSTEM SETUP button.
 - Display the "System Setup Menu".

Exit

System Setup Menu ☞1. Auto Setup/Room EQ 2. Speaker Setup 3. Audio Input Setup 4. Video Setup 5. Advanced Playback

6. Option Setup 7. Network Setup



- Press the CURSOR \triangle or ∇ button to select "Auto Setup / Room EQ", then press the **ENTER** button.
- Display the "Auto Setup / Room EQ" menu screen.

1. Auto Setup/Room EG	2
GT1. Auto Setup 2. Room EQ Setup	
3. Direct Mode Setup 4. Mic Input Select)
4. MIC INput Select	
Exit	

Press the CURSOR \triangle or ∇ button to select "Auto Setup", then press the ENTER button.

• Display the "Auto Setup" screen.

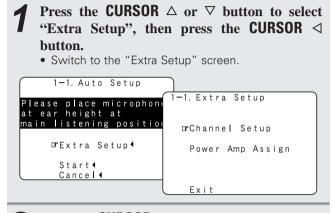
	1-1.	Aut	0	Set	up	
at ea	r he	eigh	nt a	a t	ophon	
		tra				
	⊡rSta Cai	art (nce				_

* The message "Connect Microphone" is displayed if no microphone is connected. If so, connect the auto setup microphone.

Easy Setup and Operation

Extra Setup

• The AVR-4806CI has seven available amplifier channels, some of which can be assigned for powering speakers in ZONE2 and ZONE3, depending on the speaker system complement in the main room. If this functionality is not needed, skip this "Extra Setup" procedure and proceed to "Preliminary Measurements".



Press the **CURSOR** \triangle or ∇ button to choose the setting you want to change, then press the **ENTER** button.

• Switch to the setting screen.

- * For instructions on making the "Channel Setup" settings (🕼 page 115).
- * For instructions on making the "Power Amp Assign" settings (17 page 116, 117).
- * The speakers measured with this Auto Setup procedure are based on the setting of these "Channel Setup" and "Power Amp Assign" functions.

Once the settings are completed, press the **ENTER** button at the each setting screen.

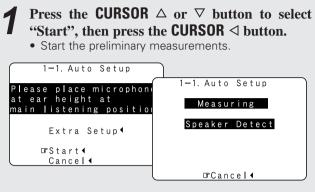
• The "Extra Setup" menu reappears.

Press the CURSOR \triangle or \bigtriangledown button to select "Exit", then press the ENTER button.

• Return to the "Auto Setup" screen.

Preliminary measurements

- This procedure is used to automatically determine the background noise, whether or not speakers are connected, and the polarities of the connected speakers.
- To avoid affecting the measurements, turn off the airconditioner or any other device that makes noise and take the measurements with the room as quiet as possible.

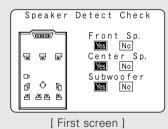


* The screen shown at the below appears once the preliminary measurements are completed.



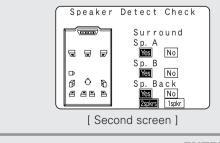
Press the ENTER button.

• Switch to the "Speaker Detect Check" screen.



Check the results of the speaker detection, then press the ENTER button.

Switch to the second screen.



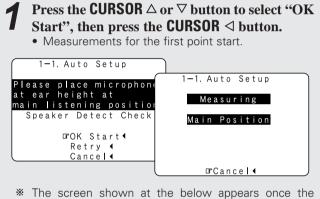
If the check ends, press the ENTER button again.

NOTE:

- If the results are not as expected or if an error message is displayed, select "Retry" and perform the measurements again. (For details on the error messages (ICP page 25).)
 If the results of remeasurement are still not as expected or if an error message is displayed, turn off the power switch and check the speaker connections. Then start the measurements again from the beginning.
- Measurement is cancelled when **MASTER VOLUME** is operated while the Auto Setup is performed.

Speaker system measurement

• With these measurements, the "Speaker Configuration", "Delay Time", "Channel Level", "Crossover Frequency" and "Room EQ" are analyzed automatically. The main listening position is measured first, so leave the microphone where it is.



The screen shown at the below appears once the measurements for the main listening position are completed.



- **2** Next the measurements for the second point will be taken.
- Place the microphone at the second listening position.
 For instructions on the position in which the microphone should be placed (CP page 19).

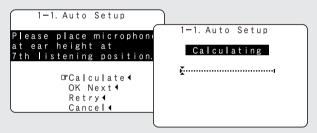
3 Press the CURSOR < button. • Measurements for the second point start. 1-1. Auto Setup Measuring 2nd Position

Perform step 2, 3 repeatedly.

* The more measurement points, the better the resulting room correction effect. We recommend a minimum of 6 measurement points – 8 measurement points provides the best room correction effect.

⊡Cancel∢

- 5 After measuring at the number of points according to your listening environment, press the CURSOR \triangle or ∇ button to select "Calculate", then press the CURSOR \triangleleft button.
 - The speaker system is analyzed.



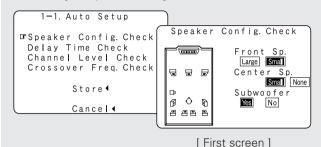
- The amount of time required for the analysis depends on the number of speakers and the number of measuring points. The greater the number of speakers and measuring points, the longer the time required. For example, for ten speaker systems and 6 measuring points, the calculations require approximately 6 minutes.
- Measurements can be ended when there are 5 or less measurement locations; however, to obtain better results, measurements at 6 or more locations is recommended.
- * Once the calculations are completed, a screen for confirming the results of the measurements appears.

Check of the measurement result

• The results of the measured items can be checked.

Press the CURSOR △ or ▽ button to select items, then press the ENTER button. Switch to the verification screen.

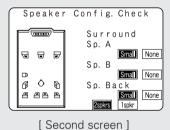
Example: Speaker Config. Check



Press the ENTER button.

• Switch to the second screen.

Example: Speaker Config. Check



- If the check ends, press the ENTER button again.
- Press the CURSOR \triangle or ∇ button to select whether or not to save the data you have checked.

Store:

Set with the checked measurement value. All parameters are stored up.

Cancel:

Cancel the auto setup settings.

```
1-1. Auto Setup
Speaker Config. Check
Delay Time Check
Channel Level Check
Crossover Freq. Check
⊡rStore↓
Cancel↓
```

Press the **CURSOR** \triangleleft button.

- After the data is stored, the "Auto Setup / Room EQ" menu screen appears automatically.
- Sometimes due to the electrical complexities of subwoofers and the interaction with the room, THX recommends setting the level and the distance of the subwoofer manually.
- Sometimes due to interaction with the room, you may notice irregular results when setting the level and/or distance of the main speakers. If this happens, THX recommends setting them manually.
- Please note that any THX main speakers should be set to Small (80 Hz). If you set up your speakers using Auto Setup, please make sure manually that any THX speakers are set to Small with 80 Hz crossover.

• When measurements have been made using the measurement microphone, speakers with a built-in filter such as subwoofers might be set with a value that differs from the physical distance because of the internal electrical delay.

NOTE:

 Do not turn off the power while the data is being stored. If the power is turned off while the data is being stored, the Room EQ parameters stored in the memory will be cleared, and it will not be possible to select "Audyssey", "Front" or "Flat" equalizer settings.

About the error message

• These error messages will be displayed when performing the measurements of Auto Setup and the automatic measurements can not be completed because of the speaker arrangement, measurement environment, or other factors. Please check the following matters, reset the pertinent items, and measure again. Be sure to turn off the AVR-4806CI's power before checking the speaker connections.

Screen example	Cause	Measures
1-1. Auto Setup Caution! Caution! Caution! Carcel ↓ Cancel ↓	 The speakers required for producing suitable reproduction have not been detected. The front L and front R speakers were not properly detected. Only one channel of the surround (A) and surround (B) speakers was detected. Sound was output from the R channel when only one surround back speaker was connected. The surround back or the surround (B) speaker was detected, but the surround (A) speaker was not detected. If multiple errors occur, press the CURSOR ⊲ or ▷ button to check the contents. 	Check that the pertinent speakers are properly connected.
1-1. Auto Setup Caution! Caut	 ② The speaker polarity is connected in reverse. ※ If multiple errors occur, press the CURSOR < or ▷ button to check the contents. 	 Check the polarity of the pertinent speakers. For some speakers, the screen below may be displayed even though the speakers are properly connected. If so, select "Skip◄".
1-1. Auto Setup Caution! ⊡"Ambient Noise is Too High or Level is Too Low Retry↓ Cancel↓	 ③ There is too much ambient noise in the room and the measurements cannot be made accurately. ④ The sound level that is output from the speakers and/or subwoofer is too low. 	 Either turn off the power of the device that generated the noise during the measurements or move the device away. Try again at a time when it is quieter. Check the placement and orientation of the loudspeakers. Adjust the subwoofer's output level.
1-1. Auto Setup Caution! ©Microphone:None or Speaker:None Retry↓ Cancel↓	5 The measurement microphone is not connected, or all of speakers have not been detected.	 Connect the measurement microphone to the microphone connector. Check the speaker connection.

Playing a DVD with Surround Sound

1	Disconnect the microphone from the unit.
2	Select the input source to be played.
2	Select the play mode.

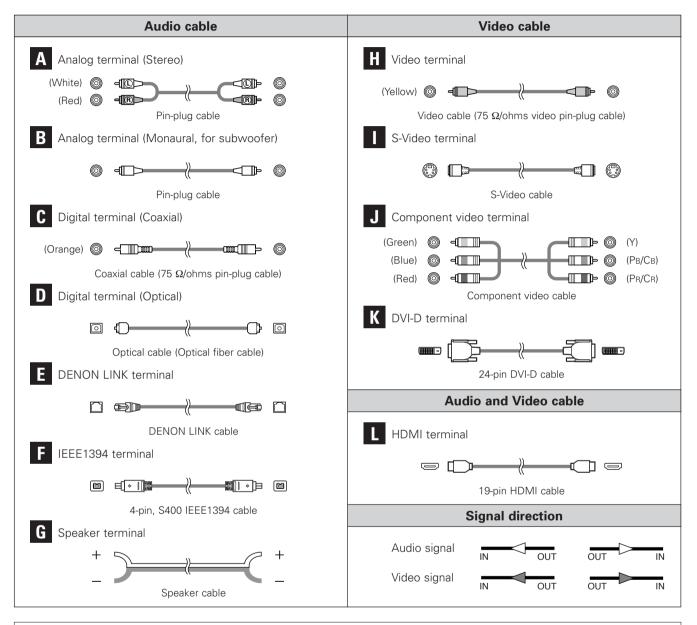
Start DVD playback.

Adjust the volume.

Connecting Other Sources

Cable indications

• The hookup diagrams on the subsequent pages assume the use of the following optional connection cables (not supplied).



NOTE:

- Do not plug in the power supply cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Note that binding pin-plug cables together with power supply cords or placing them near a power transformer will result in generating hum or other noise.

NOTE:

• Connecting a LD (laser disc) player with a Dolby Digital RF Output

The AVR-4806CI does not have a DD RF demodulator function. Therefore, you need to use a commercially available outboard DD RF demodulator and connect its digital output to one of the AVR-4806CI available digital inputs. Refer to the demodulator's operating instruction for further information.

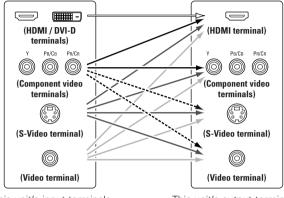
The video conversion function

• The AVR-4806Cl is equipped with a function for up and down converting video signals.

Because of this, the AVR-4806CI's MONITOR OUT terminal can be connected to the TV (monitor) with a set of cables offering a higher quality connection, regardless of how the player and the AVR-4806CI's video input terminals are connected.

Generally speaking, analog video connections using the component video terminals offer the highest quality playback, followed by connections using the S-Video terminals, then connections using the regular video terminals (yellow).

The flow of the video signals.



This unit's input terminals

This unit's output terminals

_____: only MAIN ZONE 480i/576i

NOTE:

- It is not possible to down-convert from HDMI/DVI input signals to the component, S-Video or composite video monitor output terminals.
- Video down conversion to the MAIN ZONE's monitor output is only possible when the component video input resolution is 480i (interlaced standard definition video – NTSC format, for North America) or 576i (interlaced standard definition video – PAL format, for Europe and other countries).
- To set the video conversion function for the MAIN ZONE to "OFF" (2) page 107).

The analog video to HDMI conversion function:

- The AVR-4806Cl's video up-conversion function lets you output analog video input signals (component – 480i/576i, 480p/576p, 1080i or 720p; S-Video and composite video -480i/576i) to the HDMI monitor output terminal.
- With the AVR-4806CI, the resolution of the signal output to the HDMI MONITOR OUT terminal can be selected (IP page 108, 109). The resolutions with which the monitor is compatible can be checked using the **STATUS** button on the main unit or the **ON SCREEN** button on the remote control unit.

• If you do not want to use the function for converting analog video signals to HDMI signals, select "OFF" for "Analog to HDMI Convert" at "Setting the HDMI Out Setup" () page 108, 109).

In this case, the function for video up conversion to the component video terminal operates.

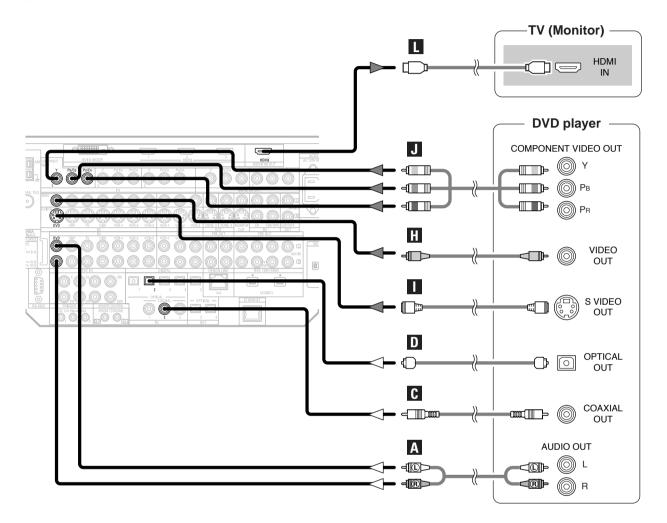
On screen display for component video outputs and HDMI output

- When viewing component video signals or HDMI signals via the AVR-4806CI, the on screen display is displayed on the monitor when the "System Setup" operations are performed and when the remote control unit's ON SCREEN button is operated.
- To view the on screen display using an HDMI monitor, set "Analog to HDMI Convert" at "HDMI Out Setup" to "ON" (default).
- When only component video signals are input to the AVR-4806Cl, the characters of the on screen display are not displayed over the picture.

Connecting Other Sources

Connecting equipment with HDMI terminals [To convert analog video signals to HDMI signals]

- The AVR-4806Cl is equipped with a function for converting analog video signals into HDMI signals. You can do this by either a component or a video or a S-Video connection.
- Audio signals are not output from the HDMI monitor output terminal, so also make analog or digital audio connections. To play sound using digital audio connections, assign the digital terminal (coaxial or optical) at "Setting the Digital In Assignment" (

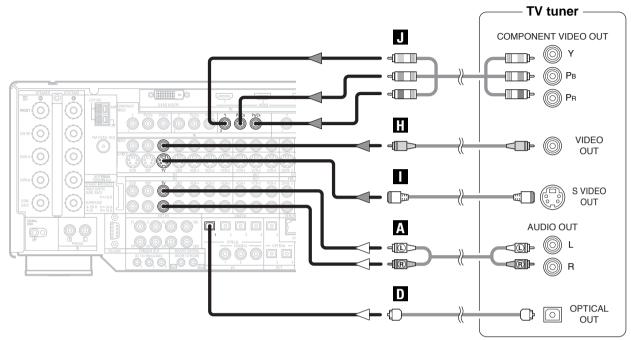


NOTE:

- When "Through" is set at "Resolution" under "Setting the HDMI Out Setup", use a monitor compatible with input resolutions of 480i/576i.
- If your monitor is not equipped with an HDMI terminal, connect the AVR-4806CI to the monitor using the component video, S-Video, or composite video terminals.

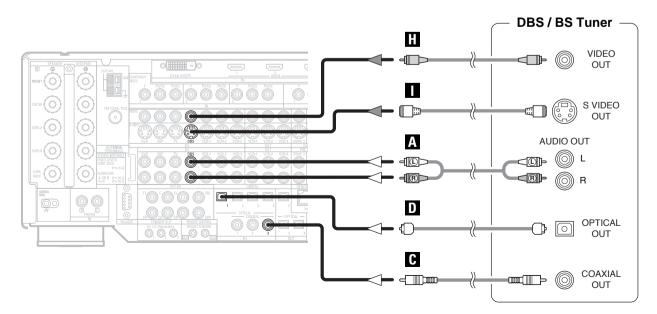
Connecting a TV tuner

- For best picture quality choose the component video connection to your TV tuner. S-Video and composite video outputs are also provided if your TV tuner does not have component video inputs.



Connecting a DBS tuner

- For best picture quality choose the component video connection to your DBS tuner. S-Video and composite video outputs are also provided. If you choose to use the component video connection, it needs to be assigned. For more information about Component Input Assignment (P page 107).
- To connect the digital audio output from the DBS tuner, you can choose from either the coaxial or optical connections. If you choose to use the coaxial or the optical connection, if needs to be assigned. For more information about Digital Input Assignment (127) page 99).

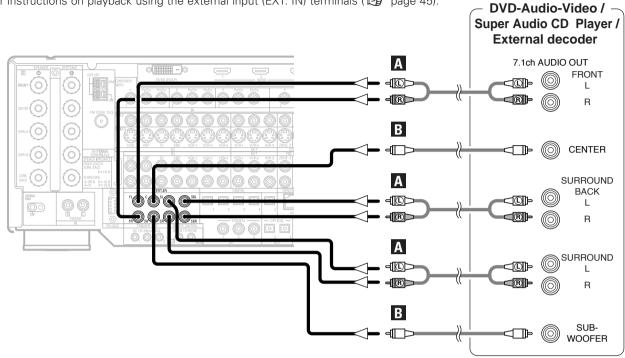


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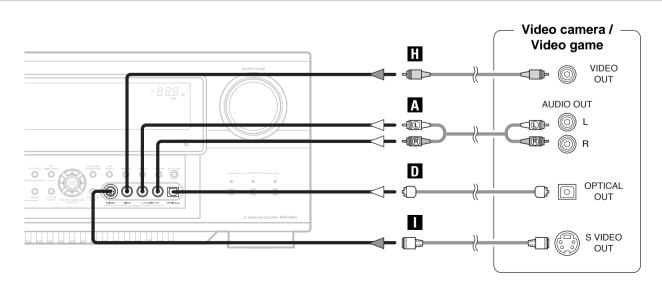
Connecting Other Sources

Connecting the external inputs (EXT. IN) terminals

- These terminals are for inputting multi-channel audio signals from an outboard decoder, or a component with a different type of multi-channel decoder, such as a DVD-Audio player, or a multi-channel Super Audio CD player, or other future multi-channel sound format decoder.
- The method of video signal connection is the same as that for DVD player (1) page 17).
- For instructions on playback using the external input (EXT. IN) terminals (🕼 page 45).



- Playback using the DENON LINK connector Digital transfer and multi-channel playback of DVD-Audio discs and other multichannel sources is possible by connecting the AVR-4806CI to a DENON DVD player equipped with a DENON LINK connector using the connection cable included with the DVD player.
- With discs on which special copyright protection measures have been taken, however, the digital signals may not be output from the DVD player. In this case, connect the DVD player's analog multi-channel output to the AVR-4806CI's EXT. IN terminals for playback. Also refer to your DVD player's operating instructions.

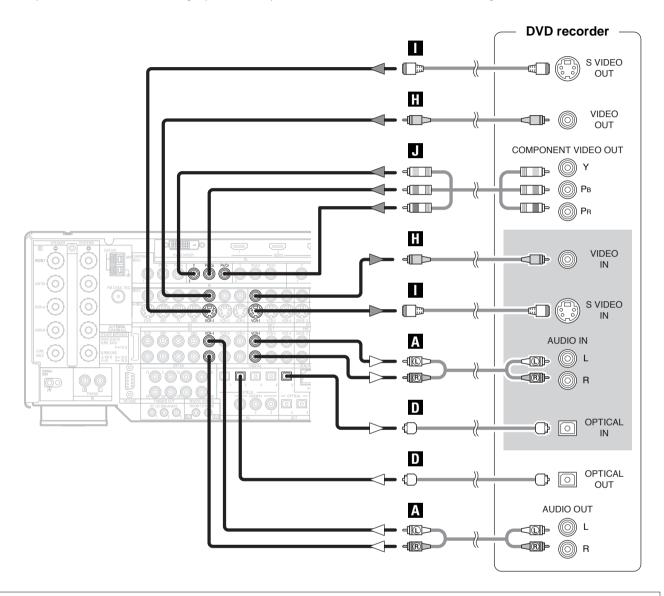


Connecting a video camera or video game

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Connecting a DVD recorder

- For best picture quality choose the component video connection to your DVD recorder. S-Video and composite video outputs are also provided. If you choose to use the component video connection, it needs to be assign. For more information about Component Input Assignment () page 107).
- If you wish to perform analog dubbing from a digital sources, such as a DVD recorder to an analog recorder such as a cassette deck, you will needs connect analog inputs and outputs as shown below, in addition to the digital audio connections.



NOTE:

• When recording to DVD recorder, it is necessary that the type of cable used with the playback source equipment be the same type that is connected to the AVR-4806CI VCR-1 (to 3) OUTPUT terminal.

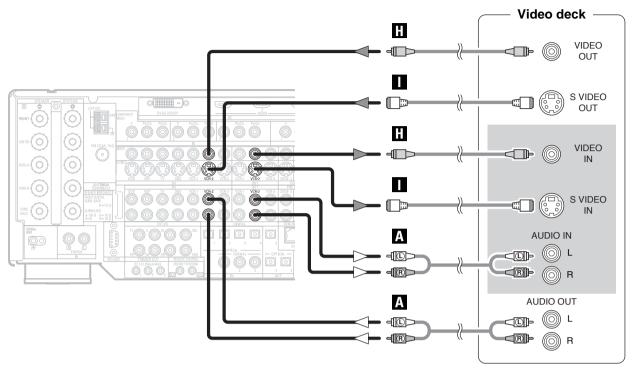
Example: TV IN \rightarrow S-Video cable : VCR-1 to 3 OUT \rightarrow S-Video cable

- TV IN \rightarrow Video cable : VCR-1 to 3 OUT \rightarrow Video cable
- Do not connect the output of the component connected to the OPTICAL 2 OUT terminal on the AVR-4806CI's rear panel to any terminal other than the OPTICAL 2 IN terminal.

Connecting Other Sources

Connecting a VCR

• There are three sets of video deck (VCR) terminals, so three video decks can be connected for simultaneous recording or video copying.



NOTE:

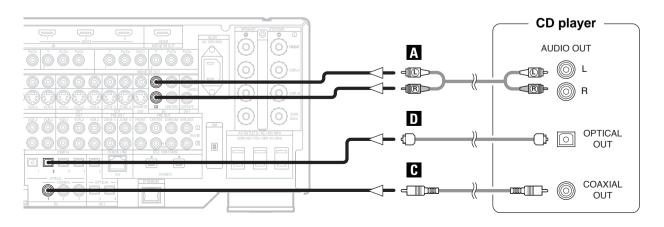
• When recording to VCR, it is necessary that the type of cable used with the playback source equipment be the same type that is connected to the AVR-4806CI VCR-1 (to 3) OUTPUT terminal.

Example: VCR-1 IN → S-Video cable : VCR-2 OUT→ S-Video cable VCR-2 IN → Video cable : VCR-1 OUT→ Video cable

• Do not connect the output of the component connected to the OPTICAL 3 OUT terminal on the AVR-4806CI's rear panel to any terminal other than the OPTICAL 3 IN terminal.

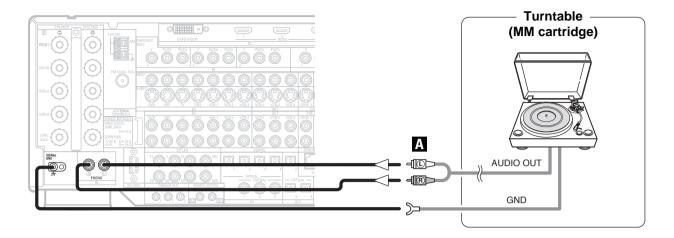
Connecting a CD player

• To connect the digital audio output from the CD player, you can choose from either the coaxial or optical connections. If you choose to use the optical connection, it needs to be assigned. For more information about Digital Input Assignment (12) page 99).



Connecting a turntable

• You can connect the turntable (MM cartridge) to the PHONO terminals.

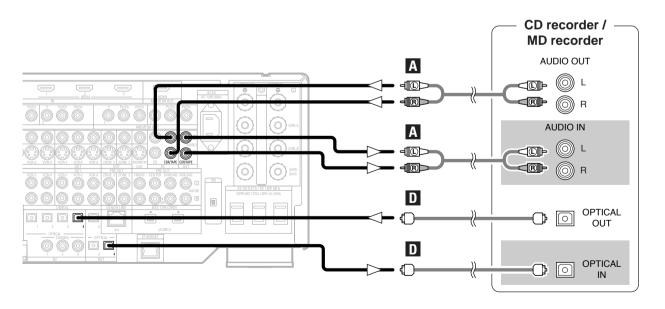


NOTE:

- The phono input can accept signals from moving magnet (MM) and high output moving coil (MC) phono cartridges. If your turntable is equipped with a low output MC cartridge, you will need to use a separate MC head amplifier or step-up MC transformer.
- If humming or other noise is generated when the ground wire is connected to the SIGNAL GND terminal, disconnect the ground wire.

Connecting a CD recorder or MD recorder

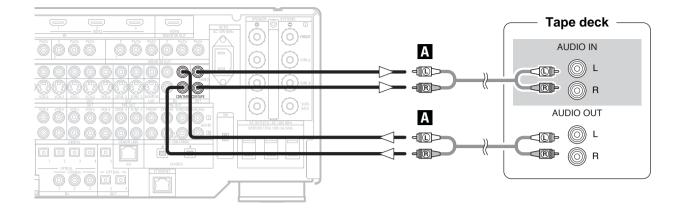
• If you wish to perform analog dubbing from a digital source, such as a CD or MD recorder to an analog recorder such as a cassette deck, you will need to connect analog inputs and outputs as shown below, in addition to the digital audio connections.



NOTE:

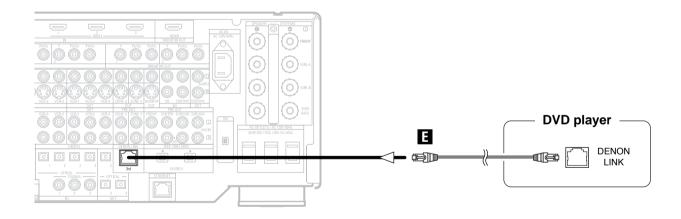
• Do not connect the output of the component connected to the OPTICAL 4 OUT terminal on the AVR-4806CI's rear panel to any terminal other than the OPTICAL 4 IN terminal.

Connecting a tape deck



DENON LINK connection

- High quality digital sound with reduced digital signal transfer loss can be enjoyed by connecting a separately sold DENON LINK compatible DVD player.
- Digital transfer and multi-channel playback of DVD-Audio discs and other multi-channel sources is possible by connecting the AVR-4806CI to a DENON DVD player equipped with a DENON LINK connector using the connection cable included with the DVD player.
- When a DENON DVD player and the DENON LINK have been connected, be sure to make a setting to "DENON LINK" with the System Setup Digital In Assignment (12) page 100).

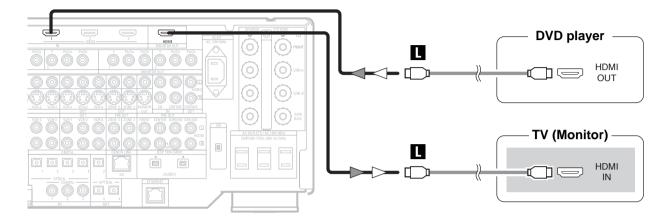


• With discs on which special copyright protection measures have been taken, however, the digital signals may not be output from the DVD player. In this case, connect the DVD player's analog multi-channel output to the AVR-4806CI's EXT. IN terminals for playback.

Also refer to your DVD player's operating instructions.

Connecting equipment with HDMI terminals

- A simple 1-cable connection (using a commercially available cable) with a device having an HDMI (High-Definition Multimedia Interface) connector allows digital transfer of the digital images of DVD-Video and other sources, and the multi-channel sound of DVD-Audio and DVD-Video.
- To provide audio output from AVR-4806CI's audio output connector, select "Amp" at the System Setup.
 To provide audio output from the TV, select "TV" at the System Setup. For details, see "Setting the HDMI/DVI In Assign" (IFF page 106, 107).



	LINEAR PCM	0
DVD-Video	Dolby Digital	0
	DTS	0
DVD-Audio	LINEAR PCM PACKED PCM (with CPPM / without CPPM)	0
CD	LINEAR PCM	0
0 A 1	Multi area	×
Super Audio CD	Stereo area	×
	CD area	0

Copyright Protection System

To play back the digital video and audio of DVD-Video and DVD-Audio through an HDMI/DVI-D connection, both the connected player and monitor are required to support a copyright protection system called HDCP (High-bandwidth Digital Content Protection System). HDCP is copy protection technology that comprises data encryption and authentication of the partner equipment.

The AVR-4806Cl supports HDCP. Please see the operating instruction of your video display for more information about this.

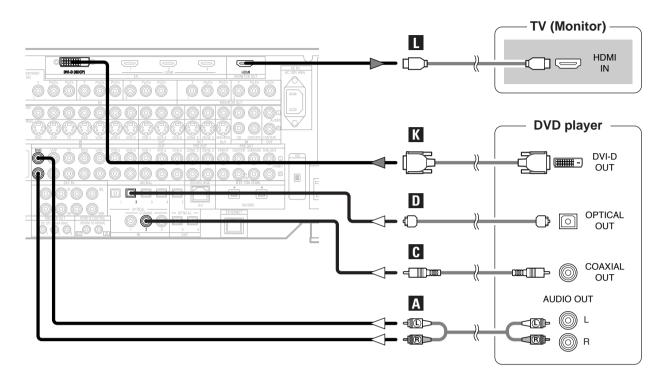
* The AVR-4806CI is HDMI Ver. 1.1 compatible.

NOTE:

- The audio signals on the multi/stereo area of Super Audio CDs are not output. If the Super Audio CD is a hybrid CD, only the audio signals in the CD area are output.
- Use a compatible player to play DVD-Audio discs that are copyright protected by CPPM.
- Among the devices that support HDMI, some devices can control other devices via the HDMI connector; however, the AVR-4806CI cannot be controlled by another device via the HDMI connector.
- The audio signals from the HDMI connector (including the sampling frequency and bit length) may be limited by the equipment that is connected.
- The video signals are not output properly if a device not compatible with HDCP is used.
- When "Through" is set at "Resolution" under "Setting the HDMI Out Setup", use a monitor compatible with input resolutions of 480i/576i.
- The video signals input from the HDMI or DVI-D input terminals are output to the HDMI monitor with their original resolution, so the image will not be displayed if the resolutions of the input signal and the monitor being used are not matched. In this case, change the setting of the resolution on the source device (player) to one which the monitor can handle.
- Use a cable including the HDMI logo (HDMI certified product) for connection of the HDMI terminal. Normal playback may not be possible if a cable that does not include the HDMI logo (non-HDMI-certified product) is used.

Connecting equipment with DVI terminals

• Connection with equipment that has a DVI (Digital Visual Interface)-D connector permits the transfer of digital images. Make an analog or digital audio connection also.



- When connecting via a DVI-D cable, no digital audio will be output from the HDMI Monitor Out connector.
- If your digital TV monitor or DVD player only supports DVI-D, please obtain and use an HDMI-DVI conversion cable or adaptor, available from your dealer.

NOTE:

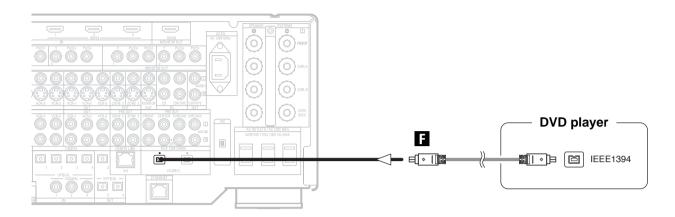
- Commercially-available DVI cables are available in 24-pin and 29-pin types. The AVR-4806CI supports the 24-pin DVI-D cable.
- The AVR-4806Cl supports HDCP. Use an HDCP-compatible HDMI monitor.

Connections with an HDMI/DVI-D conversion cable (adapter)

- The HDMI video stream signals (video signals) are theoretically compatible with DVI-D. When connecting to a monitor, etc., equipped with DVI-D terminals, it is possible to connect using an HDMI/DVI-D conversion cable, but depending on the combination of devices used the image might not be output.
- When using an HDMI/DVI-D conversion adapter, the image may not be output properly due to poor contact with the connected cable, etc..

Connecting IEEE1394 devices

- For the digital transfer of signals from Super Audio CDs and DVD-Audio discs, connect using an IEEE1394 cable. For instructions on playing Super Audio CDs (127) page 94).
- Assign the IEEE1394 input the input source. For details, see "Setting the IEEE1394 Assign" (1) page 102).



IEEE1394 network

- ① Up to 17 devices can be connected using daisy chain type connections.
- (2) Up to 63 devices can be connected using tree type connections.
- Do not loop the connections. ③ "LINK CHECK" is displayed when an input source to which an IEEE1394 is assigned is selected and connection to the
- IEEE1394 device is being checked.
- (4) If the connection is looped, "LOOP CONNECT" is displayed. Check the connections and undo the loop.

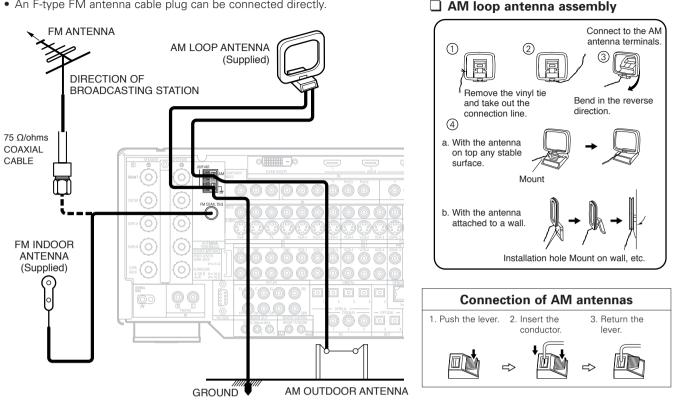
NOTE:

- Do not use an IEEE1394 cable to connect the AVR-4806CI with a computer.
- The AVR-4806CI will not operate when connected to equipment other than that conforming to "IEEE1394 AUDIO (A&M protocol)" standards or when connected to computer peripherals.
 Also please note that operation is not guaranteed even when connected to IEEE1394-compatible equipment. Whether or not data and control signals can be sent and received between interconnected IEEE1394-compatible equipment depends on the functions of the different equipment. Please read the operating instructions of the equipment to be connected.
- Use an S400-compatible 4-pin IEEE1394 cable to connect.
- Video signals are not transferred with the AVR-4806CI's IEEE1394 interface, so when connecting a video device connect the video signals as well.

Connecting Other Sources

Connecting the antenna terminals

• An F-type FM antenna cable plug can be connected directly.



Note to CATV system installer

• This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

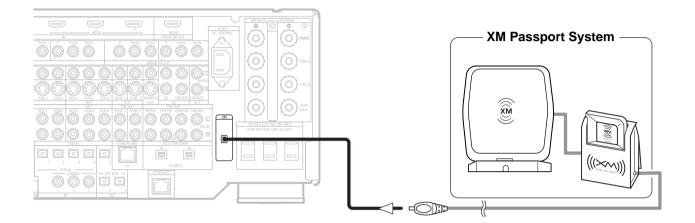
NOTE:

- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure AM loop antenna lead terminals do not touch metal parts of the panel.

Connecting the XM terminal

- AVR-4806CI is the XM Ready® receiver. You can receive XM® Satellite Radio by connecting to the XM Passport System (sold separately) and subscribing to the XM service.
- Plug the XM Passport System into XM terminal on the rear panel.

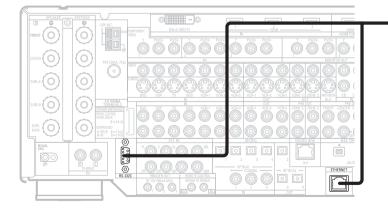
 Position the XM Passport System near a south-facing window to receive the best signal. For details, see "XM Satellite Radio" (IPP page 71, 72).
 When making connections, also refer to the operating instructions of the XM Passport System.



NOTE:

- Keep the power supply cord unplugged until the XM Passport System connection has been completed.
- The XM name and related logo are registered trademarks of XM Satellite Radio Inc. All rights reserved.
- XM Ready is a registered trademark of XM Satellite Radio Inc. All rights reserved.

Connecting the CONTROL terminals



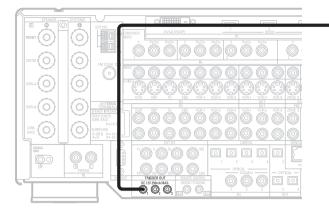
These terminals are used for an external controller.

Perform the following operation before using an external controller connected to the RS-232C terminal:

- 1. Press the **ON/STANDBY** button on the main unit and set the unit to the operating mode.
- 2. Perform the operation to turn off the power from the external control.
- 3. Check that the product has been set to the standby mode.

After checking the above, check the connections of the external controller. Operation is possible.

Connecting the TRIGGER OUT terminals



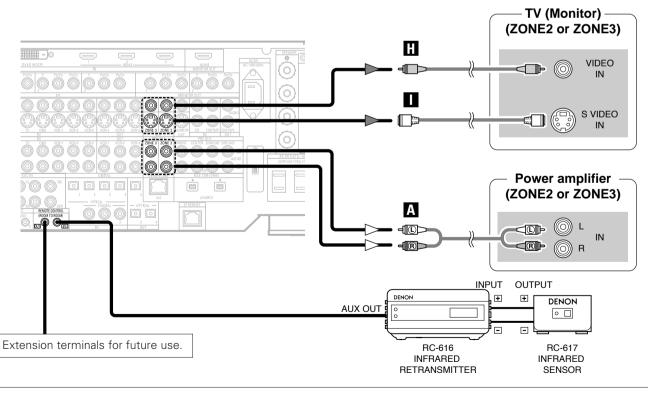
Turn the DC 12V voltage on and off for the individual functions and surround modes. For details, see "Setting the Trigger Out" (International page 119).

Connecting the MULTI ZONE terminals

* For instructions on operations using the MULTI ZONE functions (page 90 ~ 93).

ZONE2 (or ZONE3) pre-out connections

- If another power amplifier or pre-main (integrated) amplifier is connected, the ZONE2 (or ZONE3) pre-out (variable/fixed level) terminals can be used to play a different program source in ZONE2 (or ZONE3) the same time () page 92, 93).
- The ZONE2 (or ZONE3) video out is only for the ZONE2 (or ZONE3).
- When a sold separately room-to-room remote control unit (DENON RC-616, 617 or 618) is wired and connected between the MAIN ZONE and ZONE2 (ZONE3), the remote-controllable devices in the MAIN ZONE can be controlled from ZONE2 (ZONE3) using the remote control unit.

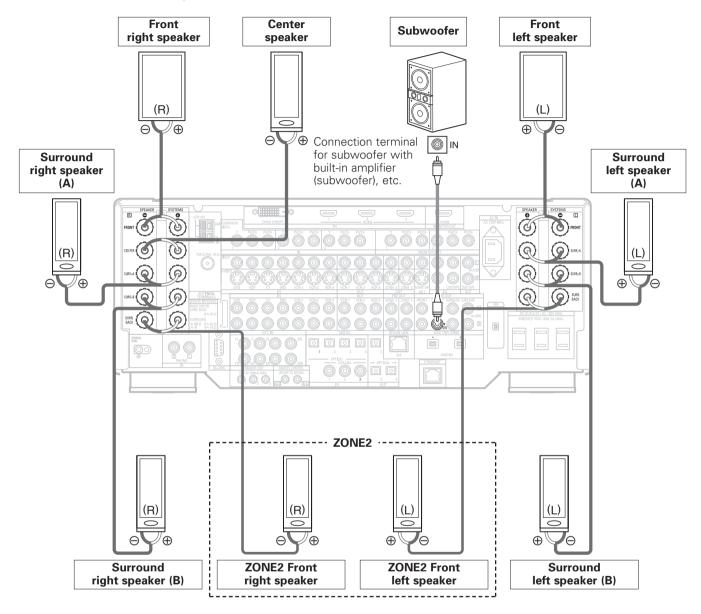


NOTE:

- For the AUDIO output, use high quality pin-plug cables and wire in such a way that there is no humming or noise.
- For instructions on installation and operation of separately sold devices, refer to the devices' operating instructions.

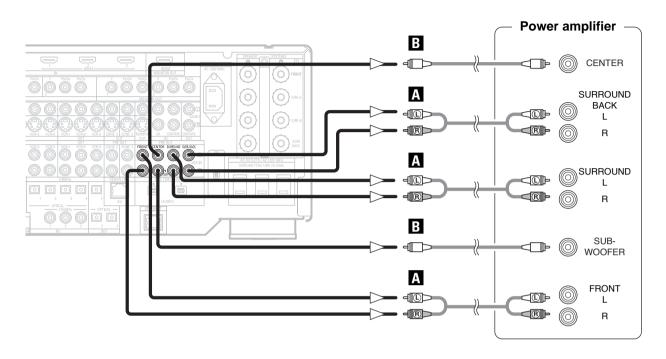
ZONE2/ZONE3 speaker out connections

- When the power amplifier is assigned to the ZONE2 or ZONE3 output channel at "Power Amp Assign" in the "System Setup Menu", the MAIN ZONE speaker terminals can be used as the ZONE2 or ZONE3 speaker out terminals (10) page 116, 117).
- The connections diagram below is an example for when the surround back speaker is assigned to the ZONE2 stereo 2 channel. In this case, Surround Back Speaker OUT can not be used for MAIN ZONE.

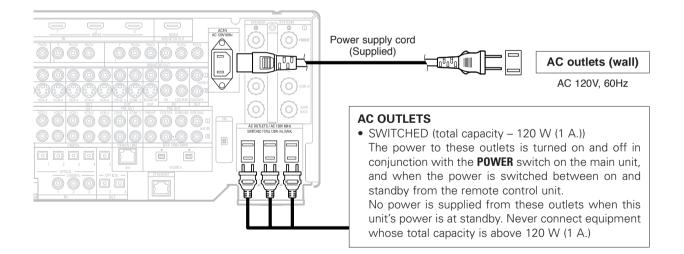


Connecting the pre-out terminals

- Use these terminals if you wish to connect external power amplifier(s) to increase the power of the front, center, surround and surround back sound channels, or for connection to powered loudspeakers.
- When using only one surround back speaker, connect it to left channel.



Connecting the power supply cord



NOTE:

- Only use the AC OUTLETS for audio equipment. Never use them for hair driers, TVs or other electrical appliances.
- Insert the plugs securely. Incomplete connections will result in the generation of noise.

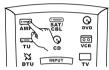
Playback

Operating the remote control unit

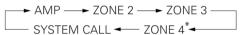
 The RC-1036 remote control has a backlit EL display whose contents change according to the mode or function selected, with the appropriate remote commands for that mode or function.

Operate the this unit

The **AMP** button is the main mode for controlling the AVR-4806CI in the main room (MAIN ZONE).



** The function switches as shown below each time one of the AMP button is pressed.

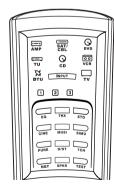


*: This mode can not be used with the AVR-4806CI.

* The EL display switches as shown below with respect to the selected mode.

AMP mode

To operate the MAIN ZONE function.



ZONE2 mode

To operate the ZONE2 function.



* **SURROUND MODE** buttons can not be used with the AVR-4806CI.

ZONE3 mode

To operate the ZONE3 function.



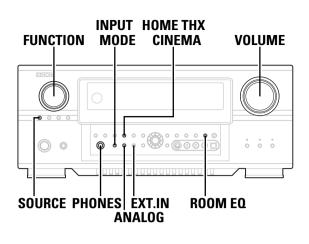
SYSTEM CALL mode

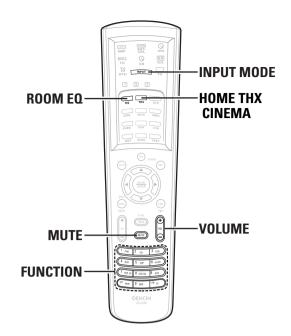
To operate the "System call" function.

F				
	AMP	SAT/ CBL	O DVD	
		O CD	00 VCR	
	1	CALL		
1111				1111



 This function provides the ability to program a series of individual remote control codes into a macro stored under one of the number pad's numeric choices (1277 page 80 ~ 85).





Playing the input source Select the input source to be played. Example: CD CD (Main unit) (Remote control unit) * To select the input source when ZONE2 SELECT, ZONE3/REC SELECT or TUNING PRESET is selected, press the **SOURCE** button on the main unit then operate the input function selector. Start playback on the selected component. For operating instructions, refer to the component's manual. Adjust the volume. ÷ MASTER VOLUME (Main unit) (Remote control unit) -*80.0* dB M.VOL. -80.03B -*80.0* dB The volume level is displayed on the master volume level display.

- The volume can be adjusted within the range of -80 to +18 dB, in steps of 0.5 dB. However, when the channel level is set (CP page 64, 65 or 128 ~ 130), if the volume for any channel is set at +0.5 dB or greater, the volume cannot be adjusted up to 18 dB. (In this case the maximum volume adjustment range is "18 dB — (Maximum value of channel level)".)
- * Also, you may not be able to adjust the volume to the maximum of 18 dB when internal volume compensation control is activated due to the combination of the surround mode and parameters, downmixing from multi-channel audio signals into two channels, etc.

To choose the surround sound mode

Example: HOME THX CINEMA

Press the HOME THX CINEMA button.

* For more information about the surround modes (page 50 ~ 53).

To select the Room EQ function

Press the **ROOM EQ** button.

* For more information about the Room EQ function (1277 page 48).

Playback using the external input (EXT. IN) terminals

Press the EXT. IN button on the main unit or INPUT MODE button on the remote control unit to switch the external input.

When operating the remote control unit:



(Remote control unit)

* The mode switches as shown below each time the **INPUT MODE** button is pressed:



- Cancelling the external input mode: Press the INPUT MODE or ANALOG button to switch to the desired input mode (2) page 47).
- The external input mode can be set for any input source. To watch video while listening to sound, select the input source to which the video signal is connected, then set this mode.
- If the subwoofer output level seems too high, set the "SW ATT" surround parameter to "ON".

NOTE:

- When the input mode is set to the external input (EXT. IN), the surround mode (DIRECT, STEREO, HOME THX CINEMA, STANDARD, 7CH STEREO, WIDE SCREEN or DSP SIMULATION) cannot be set.
- In play modes other than the external input mode, the signals connected to these terminals cannot be played. In addition, signals cannot be output from channels not connected to the input terminals.

Turning the sound off temporarily (MUTING)

• Use this to mute the audio output temporarily.

Press the MUTE button.

* You can adjust the muting level (🖅 page 118).



• Cancelling MUTING mode:

Press the **MUTE** button again, or press the **VOLUME** button on the remote control, or adjust the volume up or down via the front panel **VOLUME** knob.

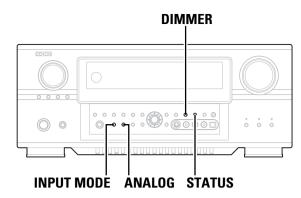
Listening over headphone

Connect the headphone to the **PHONES** jack.

• The pre-out output (including the speaker output) is automatically turned off when headphones are connected.

NOTE:

• To prevent hearing loss, be careful not to raise the volume level excessively when using headphones.



Combining the currently playing sound with the desired image (VIDEO SELECT)

Press the VIDEO SELECT button until the desired image appears.



* The video source selected with the video select function is stored in the memory for the different input sources.

6

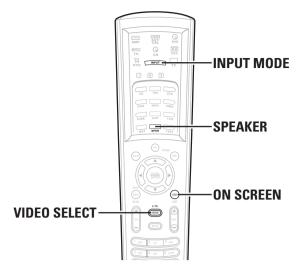
- Cancelling simulcast playback: Select the "SOURCE" pressing the **VIDEO SELECT** button.
- It is not possible to select HDMI and DVI-D input signals.
- When playing HDMI/DVI-D video input signals, the analog video signal of another function cannot be selected for the HDMI video output.

Switching the surround speakers

Press the **SPEAKER** button.

* The surround speakers switch as shown below each time the **SPEAKER** button is pressed.

* This operation is possible when the setting for using both surround speakers A and B is made at "Speaker Configuration" (CP page 125, 126).



Checking the currently playing program source, etc.

On screen display

Press the ON SCREEN button.

- Each time an operation is performed, a description of that operation appears on the display connected to AVR-4806Cl's VIDEO MONITOR OUT terminal. Also, the unit's operating status can be checked during playback.
- * Such information as the position of the input selector and the surround settings is output in sequence.

Front panel display

Press the STATUS button.

Descriptions of the unit's operations are also displayed on the front panel display. In addition, the display can be switched to check the unit's operating status while playing a source.

Using the dimmer function

• Use this to change the brightness of the display.

Press the **DIMMER** button.

* The display brightness changes in four steps (bright, medium, dim and off).

Input mode

• The AVR-4806CI has an AUTO signal detection mode that automatically identifies the type of incoming audio signals, but is also equipped with a manual mode that can be switched according to the type of input audio signals.

□ Selecting the AUTO, PCM and DTS modes

Press the INPUT MODE button.

* The mode switches as shown below each time the **INPUT MODE** button on the main unit is pressed:



When operating the remote control unit:



(Remote control unit)

* The mode switches as shown below each time the INPUT MODE button on the remote control unit is pressed:

AUTO (All auto mode):

In this mode, the types of signals being input to the digital and analog input terminals for the selected input source are detected and the program in the AVR-4806Cl's surround decoder is selected automatically upon playback. This mode can be selected for all input sources other than PHONO and TUNER.

The presence or absence of digital signals is detected, the signals input to the digital input terminals are identified and decoding and playback are performed automatically in DTS, Dolby Digital or PCM (2 channel stereo) format. If no digital signal is being input, the analog input terminals are selected.

Use this mode to play Dolby Digital signals.

PCM (exclusive PCM signal playback mode):

Decoding and playback are only performed when PCM signals are being input. Note that noise may be generated when using this

mode to play signals other than PCM signals.

DTS (exclusive DTS signal playback mode): Decoding and playback are only performed when DTS

signals are being input.

Selecting the analog mode

Press the ANALOG button on the main unit or **INPUT MODE** button on the remote control unit to switch to the analog input.

ANALOG (exclusive analog audio signal playback mode): The signals input to the analog input terminals are decoded and played.

NOTE:

• Input mode when playing DTS sources: Noise will be output if DTS-compatible CDs or LDs are played in the "ANALOG" or "PCM" mode.

When playing DTS-compatible sources, be sure to connect the source component to the digital input terminals (OPTICAL/COAXIAL) and set the input mode to "DTS".

Input mode display

- In the AUTO mode AUTO PCM DTS
- ANALOG EXT.IN • In the DIGITAL PCM mode AUTO PCM DTS
- ANALOG EXT.IN • In the DIGITAL DTS mode AUTO PCM DTS ANALOG EXT.IN
- In the ANALOG mode AUTO PCM DTS ANALOG EXT.IN

•	In the EXI.	IN mode	
	AUTO	PCM	DTS
	ANALOG	EXT.IN	

Input signal display

 DOLBY DIGITAL

• D

• P

DIGITAL	
dts	
DSD PCM	
DIG. HDCD	
TS	
DD DIGITAL	
dts	
DSD PCM	—Depending on the input signal.
DIG. HDCD	 The "DSD" indicator lights when the DENON
PCM /	LINK or IEEE1394 have been connected and
	the DSD signals have been inputted (🍞
DIGITAL	page 34, 37).
dts	Depending on the input signal
	Depending on the input signal.

Depending on the input signal.

AL24	DENON LINK
AL24	DENON LINK

AL24	DENON LINK
	IEEE 1394

• The "HDCD" indicator lights when digital

supports HDCD playback.

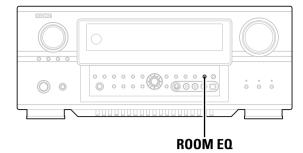
signals are being input with a player that

A

47

DSD PCM

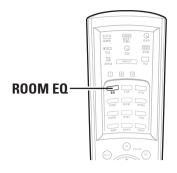
DIG. HDCD



- * The "DIG." indicator lights when digital signals are being input properly. If the "DIG." indicator does not light, check whether the "Digital In Assign" (P page 99, 100) and connections are correct and whether the component's power is turned on.
- ** AL24 processing is activated when PCM signals are played while the surround mode is set to PURE DIRECT, DIRECT, STEREO, MULTI CH PURE DIRECT, MULTI CH DIRECT or MULTI CH IN.

NOTE:

• The "DIG." indicator will light when playing CD-ROMs containing data other than audio signals, but no sound will be heard.



Room EQ function

 The AVR-4806Cl's Auto Setup / Room EQ function offers three correction curves: "Audyssey", "Front", "Flat". The timbre of the speakers can also be adjusted manually using a graphic equalizer.

Details of the different correction curves are described below.

Press the **ROOM EQ** button.

• The Room EQ switches as follows each time the **ROOM EQ** button is pressed.

OFF Audyssey Front Flat Manual –

- * The "Audyssey" is selected, the MultEQ XT indicator lights green.
- * The "Front" or "Flat" is selected, the MultEQ XT indicator lights red.
- The MultEQ XT indicator also lights red if the "Speaker Configuration", "Delay Time", "Channel Level" or "Crossover Frequency" is set manually after conducting the Auto Setup procedure.

Audyssey:

This adjusts the frequency response of all speakers to correct the effects of room acoustics.

Front:

This adjusts the characteristics of each speaker to the characteristics of the front speakers.

Flat:

This the frequency response of all speakers flat.

This is suitable for multi-channel music reproduction, from discrete music sources such as Dolby Digital 5.1, DTS, DVD-Audio and Super Audio CD.

Manual:

Selects the setting value that was set in the Manual EQ Setup.

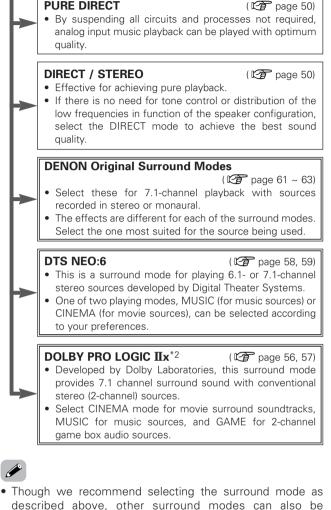
For details of the "Manual EQ Setup" (19 page 113, 114).



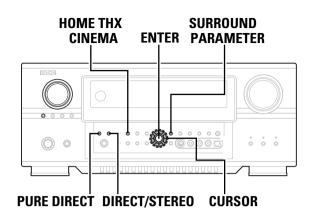
• The "Audyssey", "Front" and "Flat" Room EQ curves can be selected after performing the Auto Setup procedure.

Surround

Sources recorded in stereo Playing modes for different sources Sources recorded in monaural • The AVR-4806CI is equipped with many surround modes. PURE DIRECT We recommend using the surround modes as described below in order to achieve the maximum effect for the specific signal source. quality. * is a 6.1-channel/7.1-channel surround mode. **DIRECT / STEREO** Sources recorded in Dolby Digital Surround EX THX SURROUND EX (**12** page 52) quality. · Maximum performance for playing movies on the AVR-4806CI. **DOLBY DIGITAL EX / +PLIIx**^{*2} (🕼 page 54) • This mode is optimized for playing sources recorded in Dolby Digital Surround EX. Sources recorded in DTS-ES DTS NEO:6 DTS-ES DSCRT 6.1 / MTRX 6.1 / +PLIIx*2 (**12** page 54) • This is the optimum mode for playing sources recorded in DTS-ES. to your preferences. ES DSCRT 6.1+THX / ES MTRX 6.1+THX (**C** page 52) • When playing movies, setting this mode sometimes results in a more natural sound. Select the mode as desired. Dolby Digital or DTS Surround (5.1 ch sources) 2 ch sources recorded in Dolby Surround THX Ultra2 CINEMA^{*1} / THX MUSIC MODE^{*1} / THX Games Mode^{*1} / PLIIx C+THX (🕼 page 52) • These modes are suited for playing 5.1-channel sources selected. in 7.1 channels. Select the desired surround mode for the movie and music sources. NOTE: WIDE SCREEN (🕼 page 61 ~ 63) • Effective for 2-channel sources recorded in Dolby Surround or for 7.1-channel playback with 5.1-channel sources. HOME THX CINEMA (THX 5.1) (🕼 page 51) • This mode is optimized for playing 5.1-channel movies. · For sources recorded in Dolby Surround as well, this mode provides the same power as with 5.1-channel sources. DOLBY DIGITAL / DOLBY DIGITAL+PLIIx*2 / DTS SURROUND / DTS 96/24 / DTS+PLIIx*2 / DTS+NEO:6 (🕼 page 54, 55) • This mode is optimized for playing 5.1-channel or 7.1channel music. • For Dolby Surround recording sources, Dolby Pro Logic ${\rm I\!I}$ playback is conducted.



- Surround modes indicated with an asterisk (*1) require the use of two surround back speakers.
- Surround modes marked with an asterisk (*2) cannot be used when the surround back speaker is set to "NONE".
- The "+PLIIx Cinema" mode cannot be selected when only one surround back speaker is being used.



Playing audio sources (CDs and DVDs) 2-channel playback modes

- The AVR-4806Cl is equipped with three 2-channel playback modes exclusively for music.
- Select the mode to suit your tastes.

PURE DIRECT mode

This mode reproduces the sound with extremely high quality. When this mode is set, all circuits and processes not required for the selected input source (FL tube, video circuit and tone control, as well as digital circuitry and other unnecessary circuits for analog audio inputs) are automatically turned off so the music signals can be reproduced with high sound quality.

Press the **PURE DIRECT** button to select the **PURE DIRECT** mode.

DIRECT mode

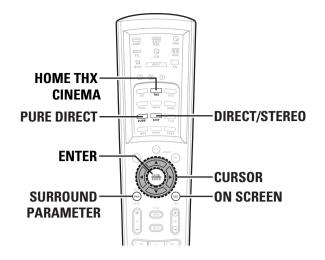
Use this mode to achieve good quality 2-channel sound. In this mode, the audio signals bypass such circuits as the tone circuit and are transmitted directly, resulting in good quality sound.

Press the **DIRECT/STEREO** button to select the **DIRECT** mode.

* The mode switches as shown below each time the **DIRECT/STEREO** button on the main unit is pressed.

DIRECT - STEREO

When press SURROUND PARAMETER: The subwoofer output can be controlled directly.



STEREO mode

Use this mode to adjust the tone and achieve the desired sound.

Press the **DIRECT/STEREO** button to select the STEREO mode.

- The system setup function cannot be used when the PURE DIRECT mode is set. To use the system setup function, cancel the PURE DIRECT mode.
- If the HDMI input terminal is selected, video outputs are outputted in the PURE DIRECT mode.
- The channel level and surround parameters in the PURE DIRECT mode are the same as in the DIRECT mode.

THX Surround EX / Home THX Cinema mode

- When the **HOME THX CINEMA** button is pressed, the surround mode is set as follows according to the signal that is played:
 - 1 THX Surround EX (THX Ultra2 Cinema)
 - (2) Home THX CINEMA (PLIIx C + THX)
 - 3 THX 5.1
 - (4) ES DSCRT 6.1 +THX, ES MTRX 6.1 + THX
- When the HOME THX CINEMA mode is set when a DVD is played, check the DVD player's digital output setting and change the setting to one for which Dolby Digital and DTS bit stream signals can be output ("bit stream", for example).

Playing sources recorded in Dolby Surround in the Home THX Cinema Surround mode

1

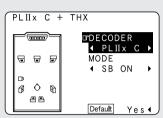
Press the **HOME THX CINEMA** button to select "Home THX Cinema" mode.

Play a program source with the DC DOLBY SURROUND mark.

* For operating instructions, refer to the manuals of the respective components.

Press the SURROUND PARAMETER button.

• Display the "Surround Parameter" menu.



Press the **CURSOR** \triangle or ∇ button to select the parameter.

Press the **CURSOR** \triangleleft or \triangleright button to select the setting.

Press the ENTER or SURROUND PARAMETER button to complete the setting.

□ Surround parameters ①

DECODER:

Select the decoder to be used when playing 2-channel sources in the Home THX Cinema mode.

• PLIIx C:

The signals are decoded in the Dolby Pro Logic IIx Cinema mode before undergoing THX processing.

• PLII C:

The signals are decoded in the Dolby Pro Logic **II** Cinema mode before undergoing THX processing.

• PL:

The signals are decoded in the Dolby Pro Logic mode before undergoing THX processing.

• NEO:6 C:

The signals are decoded in the NEO:6 Cinema mode before undergoing THX processing.

MODE/SB CH OUT:

Select the surround back channel playback method or mode.

• ON:

This is the recommended play mode for using the surround back channel when DTS NEO:6 is selected.

• OFF:

This is the recommended play mode when Dolby Pro Logic II is selected. The surround back channel is not played.

Checking the input signal

• The input signal can be checked by pressing the remote control unit's **ON SCREEN** button (C) page 12).

SIGNAL:

Displays the type of signal (DTS, DOLBY DIGITAL, PCM, etc.).

fs:

Displays the input signal's sampling frequency.

FORMAT:

Displays the input signal's number of channels.

"Number of front channels/Number of surround channels/LFE on/off"

"SURROUND" is displayed for 2-channel signal sources recorded in Dolby Surround.

OFFSET:

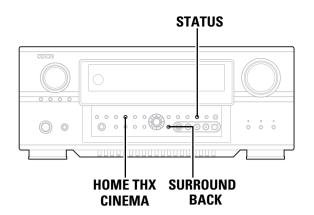
Displays the dialog normalization offset value (12) page 55).

FLAG:

Displays the special identification signal recorded in the input signal (1277 page 53).

"MATRIX" is displayed if the input signal has undergone matrix processing, "DISCRETE" is displayed if the input signal has undergone discrete processing.

Not displayed when no identification signal is recorded.



• In addition, screen information is displayed in the following

Audia insut signal

order when the **ON SCREEN** button is pressed repeatedly:

- HOME THX CINEMA
- To play in the THX Surround EX/Home THX Cinema Surround mode for sources recorded in Dolby Digital or DTS

Press the **HOME THX CINEMA** button to select

Play a program source with the $D_{D,G,T,A,L}$, dts

050-1	Audio input signal
OSD-2	Monitor information
OSD-3	Input/output
OSD-4	Auto surround mode
OSD-5	USER MODE 1
OSD-6	USER MODE 2
OSD-7	USER MODE 3
OSD-8~14	Tuner preset stations

 Mode: Dolby Digital EX

 RoomEQ: OFF

 SIGNAL: DOLBY DIGITAL

 fs
 :48kHz

 FORMAT: 3/2/. 1

 OFFSET: -4dB

 OSD-1

NOTE:

• OSD-2:

The monitor's resolution is displayed when an HDMI monitor is connected to the AVR-4806CI.

• OSD-4:

This is displayed when the auto surround mode is set to "ON" (Pp page 112) and the input mode is set to "AUTO".

It is not displayed when the input mode is set to "ANALOG" or "EXT. IN".

mark.
The Dolby Digital indicator lights when playing Dolby Digital sources.

"Home THX Cinema" mode.

- The DTS indicator lights when playing DTS sources.
- dts / | \ lights

lights

- * For operating instructions, refer to the manuals of the respective components.
- ** The channel status information during playback of Dolby Digital and DTS sources can be checked pressing the STATUS button on the main unit.
- Press the SURROUND BACK button. Lights when the Surround Back CH is on.

□ Surround parameters ②

MODE/SB CH OUT:

Select the surround back channel playback method or mode.

(1) (Multi channel source)

THX Surround EX:

Dolby Digital signals are played in the "THX Surround EX" mode.

Ultra2 Cinema:

The signals are played in the THX Ultra2 Cinema mode. **Music Mode:**

The signals are played in the THX Music mode.

Games Mode:

The signals are played in the THX Games mode.

NON MTRX:

The same signals as those of the surround channels are output from the surround back channels.

MTRX ON:

The surround channel signals undergo digital matrix processing and are output from the surround back channels.

SB OFF (OFF):

No signal is played from the surround back channels. **ES MTRX**:

When playing DTS signals, the surround back signals undergo digital matrix processing for playback.

ES DSCRT:

When a signal identifying the source as a discrete 6.1channel source is included in the DTS signals, the surround back signals included in the source are played.

PLIIx Cinema:

Processing is performed with the Cinema mode of the PLIIx decoder and the surround back channel is reproduced.

PLIIx Music:

Processing is performed with the Music mode of the PLIIx decoder and the surround back channel is reproduced.

(2) (2ch source)

OFF:

Playback is conducted without using the surround back speaker.

ON:

Playback is conducted using the surround back speaker.

** This operation can be performed directly pressing the SURROUND BACK button.

AFDM (Auto Flag Detect Mode):

• ON:

This function only works with software on which a special identification signal is recorded. This software is scheduled to go on sale in the future.

This is a function for automatically playing in the 6.1channel mode using the surround back speaker(s) if the software is recorded in Dolby Digital EX or DTS-ES or in the normal 5.1-channel mode without using the surround back speaker(s) when the software is not recorded in Dolby Digital EX or DTS-ES.

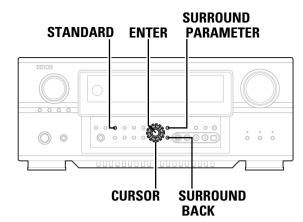
When AFDM is set to "ON" and the EX/ES flag is detected automatically, the surround mode is fixed according to the playing program source.

In this case, the "MODE/SB CH OUT" parameter can not be selected on the surround parameter screen.

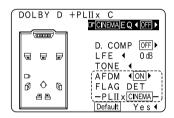
• OFF:

When the identification signal is detected automatically and you would like to select the surround mode freely, set AFDM to "OFF".

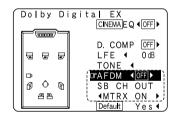
In this case, the "MODE/SB CH OUT" parameter can be selected on the surround parameter screen regardless of the playing program source.



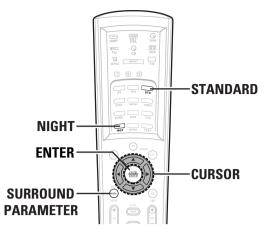
- **Example:** When playing software that has a Dolby Digital EX flag
- When AFDM is set to "ON", the surround mode is automatically set to the "DOLBY DIGITAL + PLIIx CINEMA" mode. The surround parameter screen shown at the below is displayed.



(2) When you would like to play back with the "Dolby Digital EX" mode, set AFDM to "OFF" and select "MTRX ON" with "SB CH OUT".



Some discs recorded in Dolby Digital EX do not include EX flag. If the playing mode does not switch automatically when the AFDM turns "ON" during playback, manually set "SB CH OUT" to "PLIIx Cinema" or "MTRX ON".



Dolby Digital mode and DTS Surround (only with digital input)

Press the STANDARD button to select "STANDARD (Dolby/DTS Surround)" mode.
Play a program source with the mark.
The Dolby Digital indicator lights when playing Dolby Digital sources.
The DTS indicator lights when

dts

lights

- The DTS indicator lights when playing DTS sources.
- Press the SURROUND BACK button.
 Lights when the Surround Back CH is on.

Press the SURROUND PARAMETER button.

• Display the "Surround Parameter" menu.

Dolby Digital EX	
CINEMALEQ ▲ OFF D. COMP OFF LFE ↓ 0 dB TONE ↓ AFDM ↓ OFF SB CH OUT ↓ MTRX ON Default Yes	DTS + NEO:6 CINEMAEQ (OFF) LFE (0dB TONE (AFDM (OFF) B C B C B CH OUT (E B MTRX) Default Yes ()

Press the CURSOR \triangle or \bigtriangledown button to select the parameter.

5 Press the CURSOR \triangleleft or \triangleright button to select the setting.

5 Press the ENTER or SURROUND PARAMETER button to complete the setting.

When "Default Yes" is selected and the CURSOR d button is pressed, "CINEMA EQ." and "D.COMP." are automatically turned off, "LFE" is reset, and "TONE" is set to the default value.

□ Surround parameters ③

CINEMA EQ. (Cinema Equalizer):

The Cinema EQ function gently decreases the level of the extreme high frequencies, compensating for overly-bright sounding motion picture soundtracks. Select this function if the sound from the front speakers is too bright.

This function only works in the Dolby Pro Logic IIx, Dolby Pro Logic, Dolby Digital, DTS Surround, DTS NEO:6 and WIDE SCREEN modes.

D.COMP. (Dynamic Range Compression):

Motion picture soundtracks have tremendous dynamic range (the contrast between very soft and very loud sounds). For listening late at night, or whenever the maximum sound level is lower than usual, the Dynamic Range Compression allows you to hear all of the sounds in the soundtrack (but with reduced dynamic range). (This only works when playing program sources recorded in Dolby Digital or DTS.) Select one of the four parameters ("OFF", "LOW", "MID" (middle) or "HI" (high)). Set to OFF for normal listening.

This parameter is displayed only when playing compatible sources in DTS mode.

LFE (Low Frequency Effect):

This sets the level of the LFE (Low Frequency Effect) sounds included in the source when playing program sources recorded in Dolby Digital, DTS, DVD-Audio or Super Audio CD.

Program source and adjustment range:

- 1. Dolby Digital: -10 dB to 0 dB
- 2. DTS Surround: -10 dB to 0 dB
- When DTS encoded <u>movie</u> software is played, it is recommended that the LFE LEVEL be set to 0 dB for correct DTS playback.
- When DTS encoded <u>music</u> software is played, it is recommended that the LFE LEVEL be set to -10 dB for correct DTS playback.

TONE:

This adjusts the tone control (Depage 63, 64). This can be set individually for the separate surround mode other than PURE DIRECT, DIRECT and Home THX Cinema mode.

Dialogue Normalization

Basic Operation

Dialogue Normalization (Dial Norm) is a feature of Dolby Digital, which is used to keep the programs at the same average listening level so the user does not have to change the volume control between Dolby Digital programs. When plaving back software which has been encoded in Dolby Digital, sometimes you may see a brief message in the front panel display which will read "Dial Norm X dB" (X being a numeric value). The display is showing how the program level relates with THX calibration level. If you want to play the program at calibrated theatrical levels, you may wish to adjust the volume. For example, if you see the following message: "Dial Norm + 4 dB" in the front panel display, to keep the overall output level at THX calibrated loudness, just turn down the volume control by 4 dB. However, unlike a movie theater where the playback loudness is preset, you can choose your preferred volume setting for best enjoyment.

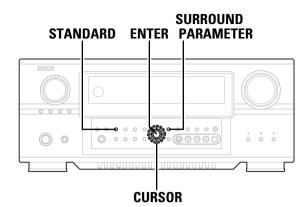
Display	
	Dial.Norm Offset -4dB

Night mode

When listening at night or at lower volumes, the night mode improves listenability.

Press the **NIGHT** button on the remote control unit to enter the night mode.

- Canceling night mode: Press the NIGHT button again.
- The night mode only works when playing program sources recorded in Dolby Digital.
- When the night mode is set to "ON", the "D.COMP" surround parameter can not be selected.



Dolby Pro Logic IIx (Pro Logic II) mode

- To play in the PLIIx mode, set "Sp.Back" at the Speaker Configuration setting to "1spkr" or "2spkrs".
- To play in the PLIIx mode, set "Surround Back" at the Power Amp Assign setting.
- This mode is optimal for playing program sources recorded in Dolby Surround.

Press the **STANDARD** button to select "Dolby Pro Logic IIx" mode.

 The Dolby Pro Logic indicator lights.



* The mode switches as shown below each time the STANDARD button is pressed.

DOLBY PLIIX - DTS NEO:6

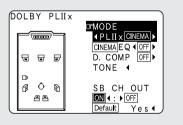
Play a program source.

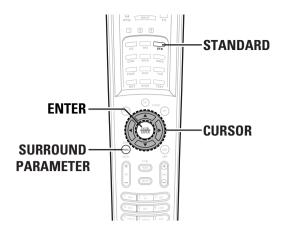


* For operating instructions, refer to the manuals of the respective components.

Press the SURROUND PARAMETER button.

• Display the "Surround Parameter" menu.

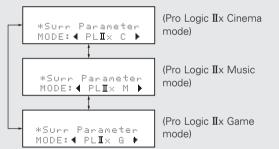




Press the **CURSOR** \triangleleft or \triangleright button to select the play mode.

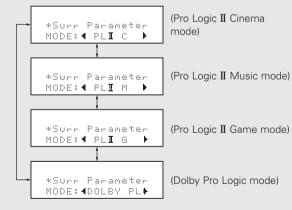
When the "SB CH OUT" parameter is set to "ON". (Set "SP.Back" at the System Setup to "1spkr" or "2spkrs").

Display



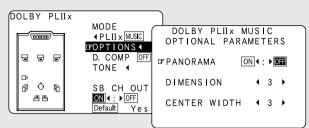
When the "SB CH OUT" parameter is set to "OFF". (Set "SP.Back" at the System Setup to "None").

Display



Press the CURSOR \triangle or ∇ button to select the various surround parameters.

Example: DOLBY PLIIx Music mode screen

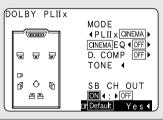


Press the **ENTER** button to return to the previous screen.

Press the **CURSOR** \triangleleft or \triangleright button to adjust the parameters setting.

* DEFAULT setting:

Press the **CURSOR** *⊲* button to select "Default Yes *◀*", then parameters set to default setting.



Press the ENTER or SURROUND PARAMETER button to complete the setting.

□ Surround parameters ④

Pro Logic IIx and Pro Logic II Mode:

Select one of the modes ("Cinema", "Music", "Pro Logic" or "Game").

The Cinema mode is for use with stereo television shows and all programs encoded in Dolby Surround.

The Music mode is recommended for stereo music and surround-encoded stereo music sources.

The Pro Logic mode emulates Dolby Laboratories' original Dolby Pro Logic surround decoding, and may provide better results with older, legacy surround-encoded program material.

The Game mode is optimized for computer and/or dedicated game box consoles, that feature stereo analog or digital outputs. It can only be used with 2-channel stereo sources.

PANORAMA:

This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.

Select "OFF" or "ON".

DIMENSION:

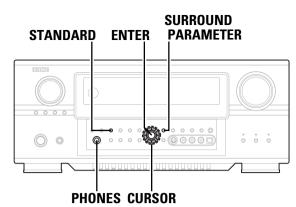
This control gradually adjust the soundfield either towards the front or towards the rear.

The control can be set in 7 steps from 0 to 6.

CENTER WIDTH:

This control adjust the center image so it may be heard only from the center speaker; only from the left/right speakers as a phantom image; or from all three front speakers to varying degrees.

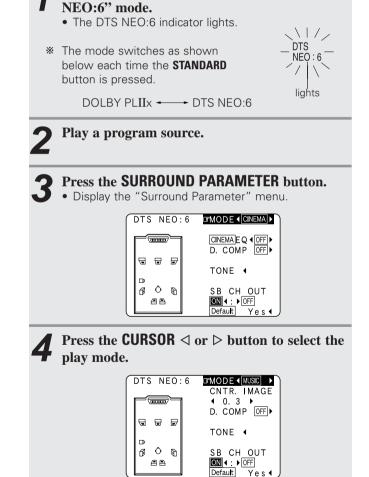
The control can be set in 8 steps from 0 to 7.

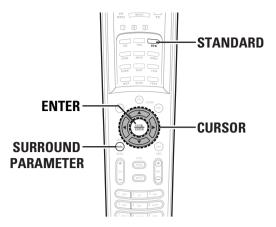


DTS NEO:6 mode

• Surround playback can be performed for the analog input and digital input 2-channel signals.

Press the STANDARD button to select "DTS





5 Press the CURSOR \triangle or \bigtriangledown button to select the various surround parameters.

6 Press the CURSOR \triangleleft or \triangleright button to adjust the parameters setting.

Press the ENTER or SURROUND PARAMETER button to complete the setting.

- When "Default Yes" is selected and the **CURSOR** < button is pressed, "MODE" and "TONE" are automatically reset to the default values and "CINEMA EQ." is set to "OFF".
- When playing PCM digital signals or analog signals in the DOLBY PRO LOGIC II, DOLBY PRO LOGIC IIx, DTS NEO:6 modes and the input signal switches to a digital signal encoded in Dolby Digital, the Dolby Surround mode switches automatically. When the input signal switches to a DTS signal, the mode automatically switches to DTS surround.

6

□ Surround parameters (5)

DTS NEO:6 Mode:

• Cinema:

This mode is optimum for playing movies. Decoding is performed with emphasis on separation performance to achieve the same atmosphere with 2-channel sources as with 6.1-channel sources.

This mode is effective for playing sources recorded in conventional surround formats as well, because the in-phase component is assigned mainly to the center channel (C) and the reversed phase component to the surround (SL, SR and SB channels).

• Music:

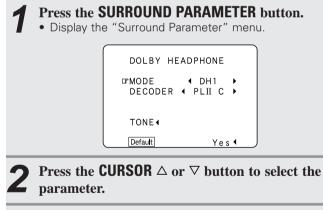
This mode is suited mainly for playing music. The front channel (FL and FR) signals bypass the decoder and are played directly so there is no loss of sound quality, and the effect of the surround signals output from the center (C) and surround (SL, SR and SB) channels add a natural sense of expansion to the sound field.

CENTER IMAGE (0.0 to 1.0: default 0.3):

The center image parameter for adjusting the expansion of the center channel in the DTS NEO:6 MUSIC mode has been added.

The Dolby Headphone

• The Dolby Headphone mode is set when headphones are connected to the **PHONES** jack while in the DOLBY/DTS SURROUND mode.



- Press the **CURSOR** \triangleleft or \triangleright button to select the setting.
 - Press the ENTER or SURROUND PARAMETER button to complete the setting.

Parameters

MODE:

• DH1:

Reference room (small room with weak reverberations).

• DH2:

Live room (room with a bit stronger reverberations than DH1).

• DH3:

Large room (larger room than DH1, offers a sense of distance and sound diffusion effects).

• BYPASS:

Stereo sound.

DECODER:

Select this when playing analog, PCM or other 2-channel sources.

The signals are converted into multichannel signals using the decoders shown below and played in the Dolby Headphone mode.

• PLII C:

Dolby Pro Logic II Cinema mode.

- PLII M
 - Dolby Pro Logic II Music mode.
- NEO:6 C:

DTS NEO:6 Cinema mode.

• NEO:6 M:

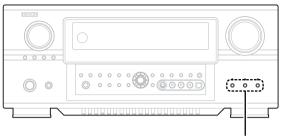
DTS NEO:6 Music mode.

• OFF:

The signals are played in the Dolby Headphone mode as such (2 channels).

- Recording -

When RECOUT mode is set to "SOURCE", with this amplifier signals encoded in the Dolby Headphone mode can be output from the recording output terminals and recorded on another recorder (127) page 95).



USER MODE

Memory and call-out functions (USER MODE function)

- The AVR-4806CI is equipped with a function for storing the selected input source, the auto surround mode and input mode in the memory and selecting these settings when you want to use them.
- Three patterns of settings can be stored in the memory pressing the USER MODE buttons.

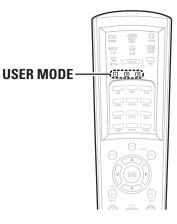
□ Storing the settings in the memory

- The following are stored in the memory: 1
 - (1) Currently set input source
 - (2) Currently set auto surround mode
 - **③** Currently set input mode
- Press and hold the USER MODE button for at least 3 seconds which you want to store the settings.
- * In this case, press the button and hold it in until the indicator of the selected USER MODE button lights.

Calling the settings out

Press the **USER MODE** button at which the settings you want to call out are stored.

- The indicator for the selected USER MODE button lights.
- * The indicator turns off if you perform any operations that change the settings stored at the **USER MODE** buttons.



DENON original surround modes

• The AVR-4806Cl is equipped with a high performance DSP (Digital Signal Processor) which uses digital signal processing to synthetically recreate the sound field. One of nine preset surround modes can be selected according to the program source and the parameters can be adjusted according to the conditions in the listening room to achieve a more realistic, powerful sound.

Surround modes and their features

1	WIDE SCREEN	Select this to achieve an atmosphere like that of a movie theater with a large screen. In this mode, all signal sources are played in the 7.1-channel mode, including Dolby Surround and Dolby Digital 5.1-channel sources. Effects simulating the multi surround speakers of movie theaters are added to the surround channels.
2	SUPER STADIUM	Select this when watching baseball or soccer programs to achieve a sound as if you were actually at the stadium. This mode provides the longest reverberation signals.
3	ROCK ARENA	Use this mode to achieve the feeling of a live concert in an arena with reflected sounds coming from all directions.
4	JAZZ CLUB	This mode creates the sound field of a live house with a low ceiling and hard walls. This mode gives jazz a very vivid realism.
5	CLASSIC CONCERT	Select this for the sound of a concert hall rich in reverberations.
6	MONO MOVIE (NOTE)	Select this when watching monaural movies for a greater sense of expansion.
7	VIDEO GAME	Use this to enjoy video game sources.
8	MATRIX	Select this to emphasize the sense of expansion for music sources recorded in stereo. Signals consisting of the difference component of the input signals (the component that provides the sense of expansion) processed for delay are output from the surround channel.
9	7CH STEREO	The front left channel signals are output to the surround and surround back signal left channels, the front right channel signals are output to the surround and surround back signal right channels, and the in-phase component of the left and right channels is output to the center channel. Use this mode to enjoy stereo sound.

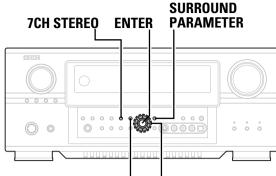
Depending on the program source being played, the effect may not be very noticeable. In this case, try other surround modes, without worrying about their names, to create a sound field suited to your tastes.

NOTE: When playing sources recorded in monaural, the sound will be one-sided if signals are only input to one channel (left or right), so input signals to both channels. If you have a source component with only one audio output (monophonic camcorder, etc.) obtain a "Y" adaptor cable to split the mono output to two outputs, and connect to the L and R inputs.

Personal Memory Plus

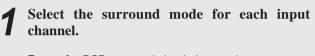
This set is equipped with a personal memorize function that automatically memorizes the surround modes and input modes selected for the input different sources. When the input source is switched, the modes set for that source last time it was used are automatically recalled.

* The surround parameters, tone control settings and playback level balance for the different output channels are memorized for each surround mode.



DSP SIMULATION CURSOR

DSP surround simulation



Example: DSP surround simulation mode



SIMU

(Remote control unit)

(Main unit)

Example: 7CH STEREO mode

7CH STEREO

7СНД

(Main unit)



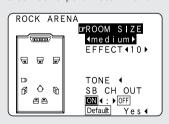
(Remote control unit)

* The surround mode switches in the following order each time the **DSP SIMULATION** button is pressed:

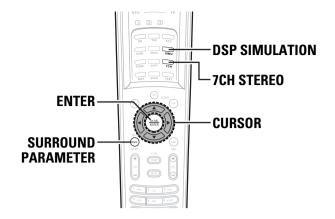
VIDEO GAME - MONO MOVIE - CLASSIC CONCERT

Press the SURROUND PARAMETER button.

• Display the surround parameter menu.



* The screen for the selected surround mode appears.



Press the CURSOR \triangle or ∇ button to select the various surround parameters.

Press the **CURSOR** *⊲* or *▷* button to adjust the parameters setting.

Press the ENTER or SURROUND PARAMETER button to complete the setting.

\$

• The "7CH STEREO" display changes as shown below according to the surround back speaker setting.

SURROUND BACK SPEAKER	DISPLAY
ON	7CH STEREO
OFF	5CH STEREO

- When "Default Yes" is selected and the CURSOR < button is pressed, "CINEMA EQ." and "D.COMP." are automatically turned off, "ROOM SIZE" is set to "medium", "EFFECT LEVEL" to "10", "DELAY TIME" to "30 ms" and "LFE" to "0 dB".
- The "ROOM SIZE" expresses the expansion effect for the different surround modes in terms of the size of the sound field, not the actual size of the listening room.

□ Surround parameters ⑥

EFFECT:

This parameter turns the effect signals with multi surround mode speaker effects on and off in the WIDE SCREEN mode. When this parameter is turned off, the SBL and SBR channel signals are equivalent to the SL and SR channels, respectively.

LEVEL:

This parameter sets the strength of the effect signals in the WIDE SCREEN mode. It can be set in 15 steps, from "1" to "15". Set this to a low level if the positioning or phase of the surround signals sounds unnatural.

SB CH OUT:

• ON:

Playback is conducted using the surround back speaker.

• OFF:

Playback is conducted without using the surround back speaker.

NOTE:

This operation can be performed directly pressing the SURROUND BACK button on the main unit's panel.

ROOM SIZE:

This sets the size of the sound field.

There are five settings: "small", "med.s" (medium-small), "medium", "med.l" (medium-large) and "large". "small" recreates a small sound field, "large" a large sound field.

EFFECT LEVEL:

This sets the strength of the surround effect.

The level can be set in 15 steps from 1 to 15. Lower the level if the sound seems distorted.

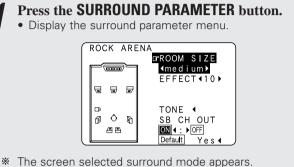
DELAY TIME:

In the matrix mode only, the delay time can be set within the range of 0 to 300 ms.

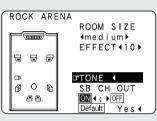
Tone control setting

- Use the tone control setting to adjust the bass and treble as desired.
- The tone control function will not work in the PURE DIRECT, DIRECT or Home THX Cinema mode.

Adjusting the tone



Press the CURSOR \triangle or ∇ button to select "TONE".



Press the **CURSOR** \triangleleft button.

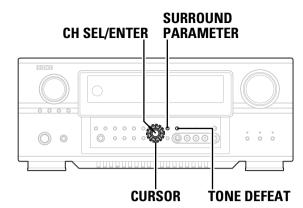
• Switch to the "Tone Control" screen.

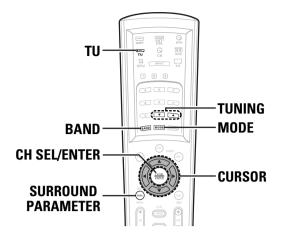
Total Control ⊡rTone Defeat **ON**∢: ▶ OFF



Press the **CURSOR** \triangleright button to select "Tone Defeat OFF".

Total Contro				
Total Contro		∎⊡ Front	Bass	
⊡rTone Defeat	ON ∢ : ▶ 0		Treble	+ 4 dB
Bione Dereat		Center	Bass	+ 6 dB
Bass			Treble	+ 4 dB
Dass	TO UD	Surround	Bass	+ 6 dB
Treble	4 + 4 dB		Treble	+ 4 dB
Treple		SurroundBack	Bass	+ 6 dB
	0		Treble	+ 4 dB
Individual Ch	Contro	Subwoofer	Bass	+ 6 dB
	l			





Channel Level

- You can adjust the channel level either according to the playback sources or to suit your tastes, as described below.
- Press the CURSOR < or ▷ button to set the level.
 * To increase the bass or treble:
- The bass or treble sound can be increased to up to +6 dB in steps of 1 dB.

Press the CURSOR \triangle or ∇ button to select

* To decrease the bass or treble: The bass or treble sound can be decreased up to -6 dB in steps of 1 dB.

Press the ENTER button.

"Bass" or "Treble".

- The surround parameter menu screen re-appears.
- Press the ENTER or SURROUND PARAMETER button to complete the setting.

Tone defeat mode

• If you do not want the bass and treble to be adjusted, turn on the tone defeat mode.

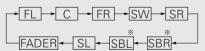
Press the **TONE DEFEAT** button to turn on the "Tone Defeat" mode.

* The signals do not pass through the bass and treble adjustment circuits, providing higher quality sound.

- * Channels which is not used are not displayed.

Press the CURSOR \triangle , \bigtriangledown or CH SEL/ENTER button to select the speaker.

* The channel switches as shown below each time the **CH SEL/ENTER** button is pressed.



3 Press the CURSOR \triangleleft or \triangleright button to adjust the level.

- * The adjustment range for the different channels is +12 dB to -12 dB in step of 0.5 dB.
- * The sound from the subwoofer can be completely cut by lowering the SW (subwoofer) setting one additional from -12 dB (setting it to "OFF").
- When the surround back speaker setting is set to "1spkr" for "Speaker Configuration" (127) page 125, 126), this is set to "SB".

Fader function

 This function makes it possible to lower the volume of the front channels (FL, C and FR) or the rear channels (SL, SR, SBL and SBR) together. Use it for example to adjust the balance of the sound from each position when multi-channel music sources are played.

1	Press the IDisplay the				n.	
2	Press the (select "Fac		R △,`	⊽ or EN	ITER b	outton then
		\square	Channe	el Vol.		
		FL C FR SW	0. 0 dB 0. 0 dB 0. 0 dB 0. 0 dB	S B R S B L	0. 0 dB 0. 0 dB 0. 0 dB 0 0 dB	
				<mark>Fader</mark> FRONT∢	· DEEAR	
*	The channel time the EN	FL -	con is p C → [ne order	shown	3-1
3	volume of	the fr redu	ont ch ce th	annels, e volui	, the C me of	reduce the CURSOR ▷ the rear
	Example. V				Jieu	
				el Vol.		
		FL C FR SW	-0. 5dB -0. 5dB -0. 5dB 0. 0dB	S B R S B L	0. 0 dB 0. 0 dB 0. 0 dB 0 0 dB	
				Fader		

** The fader function does not affect the subwoofer channel.

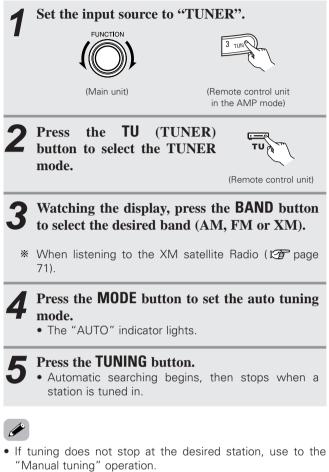
FRONT ◀: ▶REAR

- The channel whose channel level is adjusted lowest can be faded to -12 dB using the fader function.
- If the channel levels are adjusted separately after adjusting the fader, the fader adjustment values are cleared, so adjust the fader again.

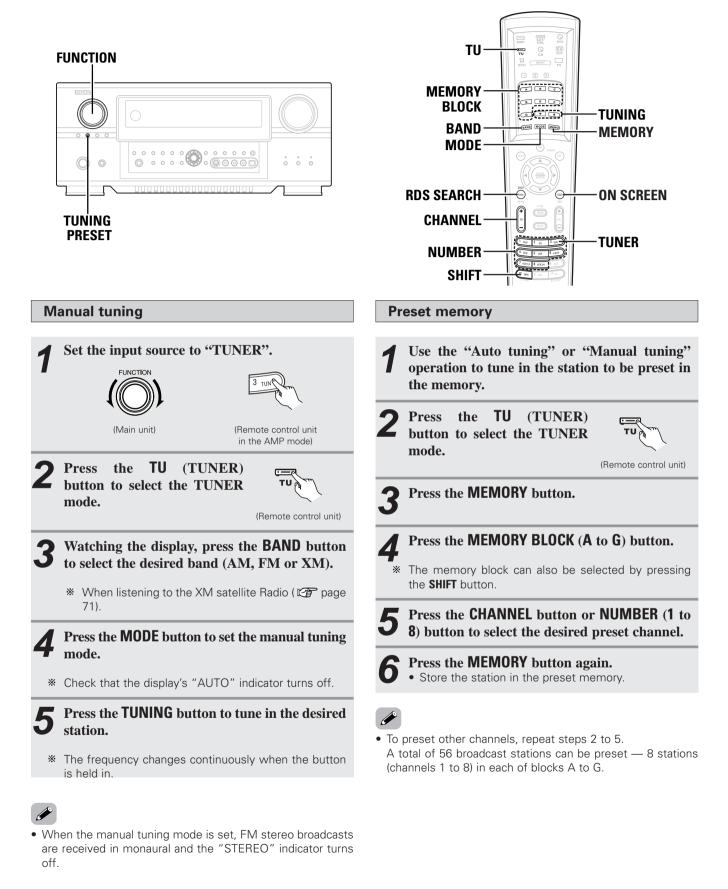
Listening to the Radio

• Check that the remote control unit is set to AMP or TUNER.

Auto tuning



 When in the auto tuning mode on the FM band, the "STEREO" indicator lights on the display when a stereo broadcast is tuned in. At open frequencies, the noise is muted and the "TUNED" and "STEREO" indicators turn off.



Checking the preset stations

• The preset (broadcast) stations can be checked on the on screen display.

Press the **ON SCREEN** button (in the AMP mode) repeatedly until the "Tuner Preset Stations" screen appears on the OSD.

			_
er F	reset	Stations	
87.	5 0 MHz		
89.	1 0 MHz		
98.	1 0 MHz		
07.	9 0 MHz		
90.	1 0 MHz		
90.	1 0 MHz		
90.	1 0 MHz		
90.	1 0 MHz		
		OSD-8	
	87. 89. 98. 07. 90. 90. 90.	er Preset 87.50MHz 89.10MHz 98.10MHz 90.10MHz 90.10MHz 90.10MHz 90.10MHz 90.10MHz	89. 10MHz 98. 10MHz 07. 90MHz 90. 10MHz 90. 10MHz 90. 10MHz

Recalling preset stations

- Recalling preset stations from the remote control unit
- Preset stations can be chosen directly preset channel and channel range button (1277 page 82).

Select the MEMORY BLOCK (A to G).

Watching the display, press the **CHANNEL** button to select the desired preset channel.

Recalling preset stations from the main unit's panel

Press the TUNING PRESET button.

Turn the FUNCTION knob and select the desired preset channel.

RDS (Radio Data System)

- RDS (works only on the FM band) is a broadcasting service which allows station to send additional information along with the regular radio program signal.
- The following three types of RDS information can be received on this unit:

Program Type (PTY)

- PTY identifies the type of RDS program.
- The program types and their displays are as follows:

NEWS	News	NOSTALGA	Nostalgia
INFORM	Information	JAZZ	Jazz
SPORTS	Sports	CLASSICL	Classical
TALK	Talk	R & B	R&B
ROCK	Rock	SOFT R&B	Soft R&B
CLS ROCK	Classic rock	LANGUAGE	Language
ADLT HIT	Adult hits	REL MUSC	Religious music
SOFT RCK	Soft rock	REL TALK	Religious talk
TOP 40	Top 40	PERSNLTY	Personality
COUNTRY	Country	PUBLIC	Public
OLDIES	Oldies	COLLEGE	College
SOFT	Soft	WEATHER	Weather

Traffic Program (TP)

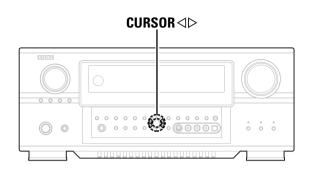
- TP identifies programs that carry traffic announcements.
- This allows you to easily find out the latest traffic conditions in your area before you leaving home.

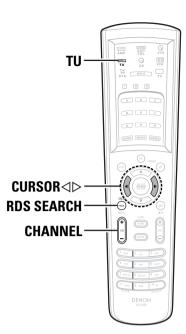
Radio Text (RT)

• RT allows the RDS station to send text messages that appear on the display.

NOTE:

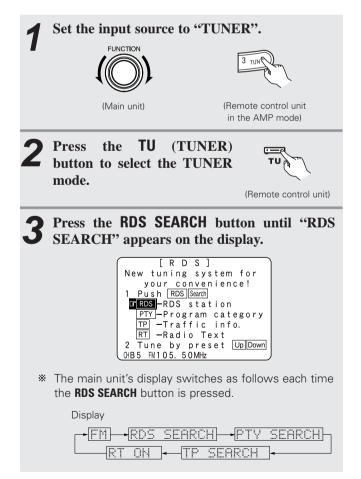
• The operations described below pressing the **RDS SEARCH** button will not function in areas in which there are no RDS broadcasts.





RDS search

• Use this function to automatically tune to FM stations that provide RDS service.



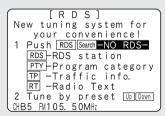
- Press the CHANNEL button.
- Automatically begin the RDS search operation.

-	[R D	S]	Search
New t	uning	system	for
		<u>ive</u> nienc	:e!
	h RDS		
		station	
		am cate	
TP	—Traff	ic info).
	—Radic		
2 Tun	e by p	oreset 🛛	Jp Down

- * If no RDS stations is found with above operation, all the reception band are searched.
- * When a broadcast station is found, that station's name appears on the display.

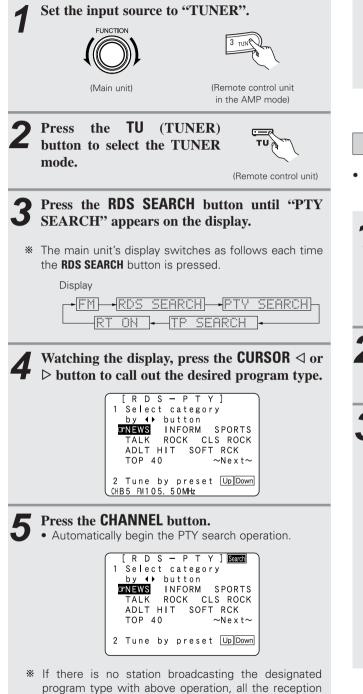
To continue searching, repeat step 3.

* If no other RDS station is found when all the frequencies are searched, "NO RDS" is displayed.



PTY search

- Use this function to find RDS stations broadcasting a designated program type (PTY).
- For a description of each program type, refer to "Program Type (PTY)".



bands are searched.* The station name is displayed on the display after searching stops.

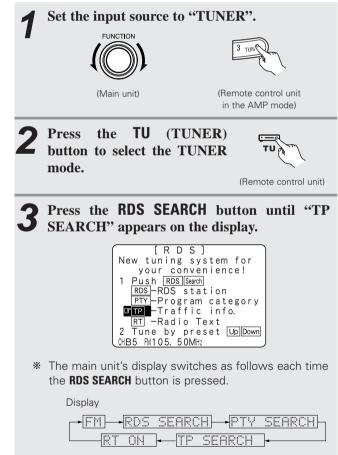
• To continue searching, repeat step 3.

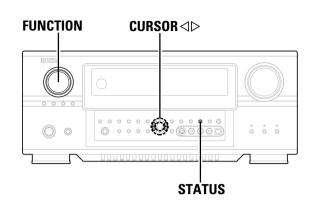
* If no other station broadcasting the designated program type is found when all the frequencies are searched, "NO PROGRAMME" is displayed.

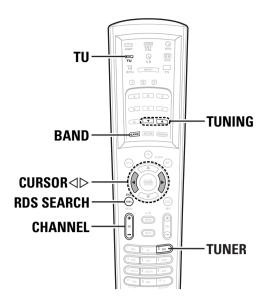
	[RDS - PTY]	
1	Select category	
	by ∢▶ button <mark>-NO PTY-</mark>	
	NEWS INFORM SPORTS	
	TALK ROCK CLS ROCK	
	ADLT HIT SOFT RCK	
	TOP 40 ~Next~	
	Tune by preset Up Down	
CH	B5 FM105.50MHz	

TP search

 Use this function to find RDS SEARCH stations broadcasting traffic program (TP stations).

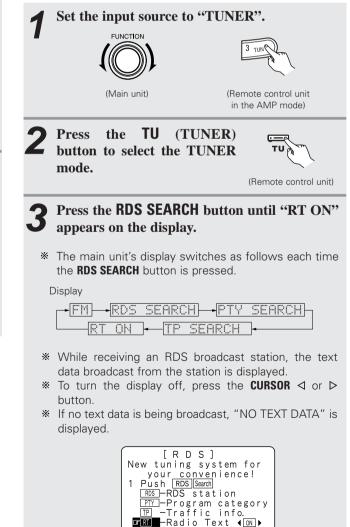






RT (Radio Text)

• "RT" appears on the display when radio text data is received.



CHB5 FM105. 50MHz

your convenience! Push RDS Search RDS-RDS station PTY-Program category TTP - Traffic info. <u>RT</u> — Radio Text 2 Tune by preset Up Down

Search

- * If no TP station is found with above operation, all the reception bands are searched.
- * The station name is displayed on the display after searching stops.

To continue searching, repeat step 3.

Press the CHANNEL button.

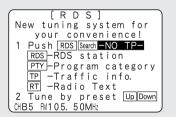
1

• Automatically begin the TP search operation.

[RDS]

New tuning system for

* If no other TP station is found when all the frequencies are searched, "NO PROGRAMME" is displayed.



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XM Satellite Radio

 AVR-4806CI is the XM Ready receiver. You can receive XM® Satellite Radio by connecting to the XM Passport System (sold separately) and subscribing to the XM service.

□ Introducing XM Satellite Radio

There's a world of audio listening pleasure beyond AM and FM. XM Satellite Radio. Select from over 170 channels of music, news, sports, comedy, talk, and entertainment. Coast-to-coast coverage. Digital quality sound. With all music channels 100% commercial free. Questions?: Visit www.xmradio.com.

□ How to Subscribe

Listeners can subscribe by visiting XM on the Web at <u>www.xmradio.com</u> or by calling XM's Listener Care at (800) 967-2346.

Customers should have their Radio ID and credit card ready. The Radio ID can be found by selecting channel 0 on the radio.

A Warning Against Reverse Engineering

It is prohibited to copy, decompile, disassemble, reverse engineer, or manipulate any technology incorporated in receivers compatible with the XM Satellite Radio system. Furthermore, the AMBE® voice compression software included in this product is protected by intellectual property rights including patent rights, copyrights, and trade secrets of Digital Voice Systems, Inc. The user of this or any other software contained in an XM Radio is explicitly prohibited from attempting to copy, decompile, reverse engineer, or disassemble the object code, or in any other way convert the object code into human-readable form. The software is licensed solely for use within this product.

Hardware and required \$12.95 monthly service subscription sold separately. Other fees and taxes, including a one-time activation fee may apply. Subscription fee is consumer only. All fees and programming subject to change. Channels with frequent explicit language are indicated with an XL. Channel blocking is available for XM radio receivers by calling 1-800-XMRADIO. Subscriptions subject to Customer Agreement available at xmradio.com. XM service only available in the 48 contiguous United States. ©2006 XM Satellite Radio Inc. All rights reserved.

Checking the XM signal strength and Radio ID



2 Press the **TU** (TUNER) button to select the TUNER mode.

3 Watching the display, press the **BAND** button to select the XM mode.

- Press the **STATUS** button on the main unit until "SIGNAL" is displayed.
 - The display changes as shown below according to the receiving condition.

Display	Condition
GOOD	Signal strength is good
MARGINAL	Signal strength is marginal
WEAK	Signal strength is poor
NO	Loss of the signal

Adjust the antenna location until "SIGNAL:GOOD" is displayed.

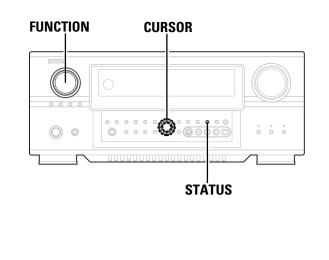
Press the **STATUS** button until the XM channel (ex.XM001) is displayed.

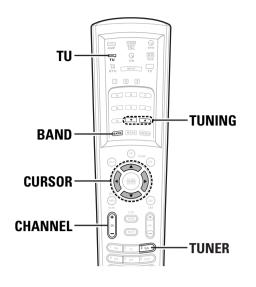


• The Radio ID is displayed.

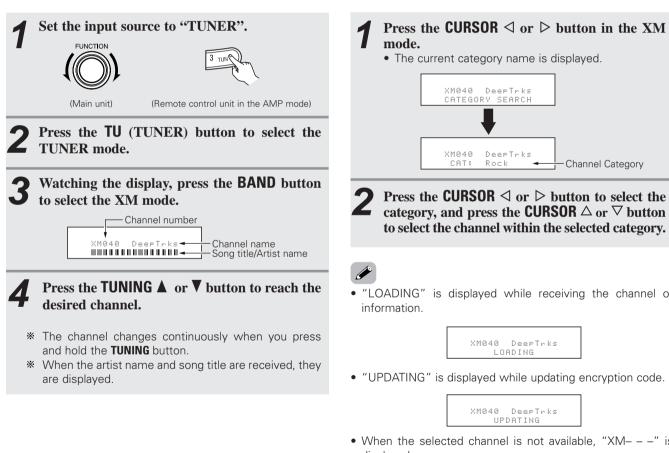
XM000 RADIO ID

Channel selection





Category search



• "LOADING" is displayed while receiving the channel or

- Channel Category

XM040 DeepTrks LOADING

• "UPDATING" is displayed while updating encryption code.



• When the selected channel is not available, "XM- --" is displayed.

XM

- Information on the artist name, song title, category and signal level can be checked using the STATUS button on the main unit.
- The XM Satellite Radio channels can be preset in the same way as AM/FM band.

Please refer to "Preset memory" and "Recalling preset stations" (1 page 66, 67).

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Using the Network Audio Function

• The AVR-4806CI can be connected to a network by cable to listen to Internet radio or music files stored on computers.

Internet radio function

Internet radio refers to radio programs broadcast over the Internet.

There are many stations throughout the world broadcasting Internet radio programs. These stations are of all sizes and types, some run by individuals, others by ground wave broadcast stations.

While ground wave radio stations can only be listened to within the range in which the waves reach, Internet radio can be listened to anywhere in the world.

The AVR-4806CI is equipped with the following Internet radio functions:

- Stations can be selected by genre and region.
- Up to 56 Internet radio stations can be preset.
- MP3 format Internet radio programs can be listened to.
- Your favorite radio stations can be registered by accessing the exclusive DENON Internet radio URL using a computer's browser. (The AV amplifier automatically downloads the registration settings (approximately once every other day).) (This is managed separately for each unit, so a MAC address or e-mail address must be registered.) (

* Exclusive URL : <u>http://www.radiodenon.com</u> (accessible after connection to an Internet radio station.)

vTuner

The AVR-4806Cl's Internet radio station list uses "vTuner", a radio station database service. This database service is edited and prepared for the AVR-4806Cl.

Music server function

The AVR-4806CI is equipped with a network audio playback function allowing music files stored on a computer to be played via a LAN (Local Area Network).

The AVR-4806Cl's network audio playback function connects to servers using the following technologies:

- Windows Media Connect
- The Designed to DLNA Guideline
- Windows Media DRM 10 (for network devices)

System requirements

 The preparations described below must be made in order to use the Internet radio and music server functions.

Broadband Internet connection

A broadband connection to the Internet is necessary in order to use the AVR-4806CI's Internet radio function.

NOTE:

• You must have a contract with an Internet Service Provider (ISP) in order to connect to the Internet. For instructions on connecting to the Internet, contact your ISP or a computer store.

If you already have a broadband Internet connection there is no need to take out another contract.

Modem

A modem is a device for exchanging signals over the Internet using a broadband connection. Some are integrated into routers. For instructions on connecting to the Internet, contact your ISP or a computer store.

Router

A router is a device for connecting multiple pieces of equipment (computers, the AVR-4806CI, etc.) to the Internet simultaneously.

When using the AVR-4806Cl, we recommend a router equipped with the following functions:

 Built-in DHCP (Dynamic Host Configuration Protocol) server.

Function for automatically assigning the device's IP address on the LAN.

 Built-in 100BASE-TX switch When connecting multiple devices, it is recommended to have a built-in switching hub with a speed of 100 Mbps or greater.

NOTE:

• The type of router that can be used differs for different ISPs. For details, contact your ISP or a computer store.

Ethernet cable (CAT-5)

The AVR-4806CI does not come with an Ethernet cable. Purchase one of the required length.

Some flat type Ethernet cables are easily affected by noise. We recommend using a normal type cable.

If the sound is broken in an environment with the electric products subject to much power noise or a noisy network environment, use a shielded type Ethernet cable. This could improve the sound.

Basic Operation

Personal Computer

Install "Windows Media Connect" on your computer. The required system for forming a music server is as described below.

1) OS (Operating System):

Windows® XP Service pack2

- 2) Processor:
- Intel Pentium**II** or AMD processor, etc.. We recommend 1 GHz or greater.
- 3) RAM:
 - Min. 128 MB, we recommend 256 MB or greater.
- 4) Software:

.NET Framework 1.1

- 5) Internet browser:
 - Microsoft Internet Explorer 5.01 or later
- LAN port required
- 300 MB or greater free hard disc space required
- Extra free space is necessary to store music files. The following table gives an approximate estimate of the required free space.

Format	Bit rate	Per one minute	Per one hour
MP3 / WMA	128 kbps	1 MB	60 MB
	192 kbps	1.5 MB	90 MB
	256 kbps	2 MB	120 MB
	392 kbps	3 MB	180 MB
WAV (LPCM)	1400 kbps	10 MB	600 MB

□ Others

- When the contract with your provider is of the type by which the network settings are made manually, you must make the "Network Setup" (127 page 123, 124).
- The AVR-4806CI is not compatible with PPPoE. If your contract is of the PPPoE setting type, you need a PPPoEcompatible router.
- For some ISPs (Internet Service Providers), you may have to make proxy server settings in order to use the Internet radio function. If proxy server settings for connecting to the Internet have been made on the computer, make the same settings on the AVR-4806CI.
- The AVR-4806Cl is designed to make the network settings automatically using the DHCP and Auto IP functions.

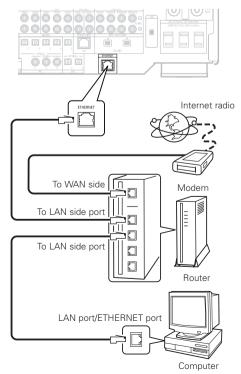
□ TU (Tuner) / DTU (Digital tuner) system buttons

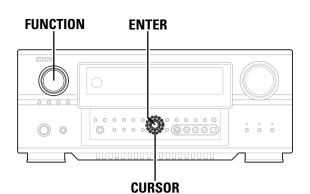
The tuner or digital tuner system buttons shown on the diagram below are used for Network Audio operations.

	: Preset memory blocks
▲, ▼ MODE	: Character search : Configuration mode selection
MEMO	registration
ENTER	right : Enter settings
CH +, – 1 ~ 8	: Preset channel selection : Preset numbers
	▲, ▼ MODE MEMO ▲, ▼, ◄, ► ENTER CH +, -

Connections

Connect one side of the Ethernet cable (CAT-5) to the ETHERNET terminal on the AVR-4806CI's rear panel, the other side to the router.





Network settings

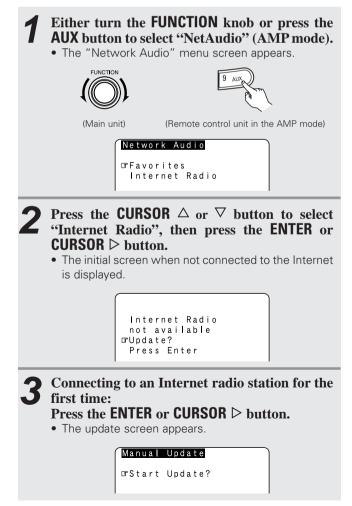
When using a broadband router (DHCP function), the network settings are made automatically, so there is no need to make the settings from the setup menu.

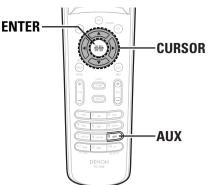
If the broadband router's DHCP function is turned off, make the "Network Setup" (2 page 123, 124).

Listening to Internet radio

• The required system connections and settings must be made in order to listen to Internet radio.

"Update?" appears on the display when connecting to an Internet radio station for the first time.







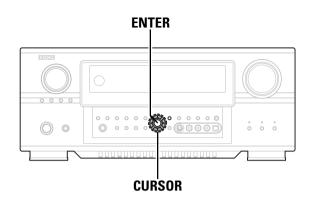
Press the ENTER or CURSOR \triangleright button once again.

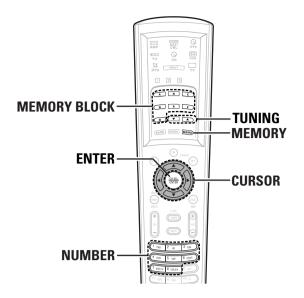
• The latest list of radio stations is downloaded from the vTuner site. (Several minutes are required for this download.)

Press the CURSOR \triangle or ∇ button to select the desired setting item, then press the ENTER or CURSOR \triangleright button.

Internet	Radio	
☞Genres Countrie New Stat Popular Help		
r	1/5]	

- Finally, the list of Internet radio stations is displayed and those that can be played are indicated by the "*" mark in front of them.
- Press the CURSOR \triangle or ∇ button to select the desired radio station, then press the ENTER or CURSOR \triangleright button.
 - Connection starts, and the station starts playing once the buffer reaches "100%".
- During playback, press the ENTER button once to pause playback, then press ENTER button again to resume playback.
- If the ENTER button is pressed and held in for more than two seconds when in the play or pause mode, playback stops and the previous menu window reappears.

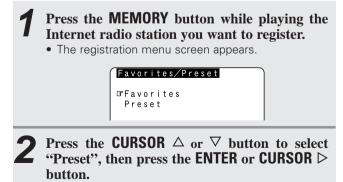




- There are many Internet radio stations on the Internet. The programs they broadcast and their bit rates vary widely. Generally, the higher the bit rate, the higher the sound quality, but streamed music or sound may be broken if the communication lines or servers are busy. Inversely, programs with low bit rates have lower sound quality but tend to be more stable.
- "Server Full" or "Connection Down" is displayed if the station is congested or if it is not broadcasting.
- If you do not want the OSD to be displayed while playing Network Audio (internet radio, music server), set "Function/Mode Status" at "Setting the On Screen Display" to "OFF" (Imp page 110).

Presetting (registering) Internet radio stations

- There are two ways to register stations: by presetting them or by storing them in your favorites.
- Stations that are preset can be tuned in directly from the remote control unit.



• The preset registration screen appears.

Press a MEMORY BLOCK (A ~ G) button, then press a NUMBER (1 ~ 8) button to register the station at the desired preset channel.

- This completes registration.
- * If no button is operated for approximately ten seconds, the regular display reappears.
- Registered presettings can be checked on the on screen display.
 The presettings can only be displayed with the on screen display when the "NetAudio" function is selected.

NOTE:

• Registered presettings are deleted when they are overwritten.

Listening to preset Internet radio stations

When the "NetAudio" function is selected, press a MEMORY BLOCK $(A \sim G)$ button, then press a NUMBER $(1 \sim 8)$ button.

• The connection is made automatically and playback starts.

Registering Internet radio stations in your favorites

• Your favorites are listed at the top of the menu screen, so registered stations can be tuned in easily.

Press the MEMORY button while playing the Internet radio station you want to register.
The registration menu screen appears.
Favorites/Preset
Favorites
Press the CURSOR △ or ▽ button to select "Favorites", then press the ENTER or CURSOR
▷ button.
The favorites registration screen appears.



Press the CURSOR \triangleleft button to register the station.

※ To cancel without registering, press the CURSOR ▷ button.

Listening to Internet radio stations registered in your favorites

- **1** When the "NetAudio" function is selected, press the CURSOR \triangle or ∇ button to select "Favorites", then press the ENTER or CURSOR \triangleright button.
 - The Internet radio stations registered in your favorites are displayed.
- **2** Press the CURSOR \triangle or \bigtriangledown button to select the desired radio station, then press the ENTER or CURSOR \triangleright button.
 - Playback starts.

Deleting radio stations from your favorites

- 1 At the screen on which the Internet radio stations registered in your favorites are displayed, press the CURSOR \triangle or ∇ button to choose the radio station you want to delete, then press the MEMORY button.
 - The delete screen appears.

Favo	rit	e s	
l s	i t	delet	ed?
<r< th=""><th>emo</th><th>v e</th><th>Cancel></th></r<>	emo	v e	Cancel>

Press the CURSOR \triangleleft button to delete the station.

* To cancel without deleting, press the **CURSOR** ▷ button.

Character search function (searching by first letter)

• The character search function (searching by first letter) can be used to select the desired item from the menu screen displaying the list of Internet radio stations or music files stored on the computer.

While the menu screen is displayed, press the **TUNING** \blacktriangle or \checkmark button.

• The character search screen appears.

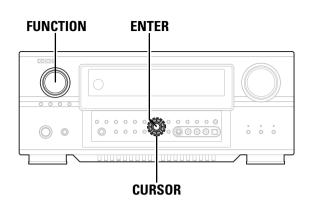
ΓA

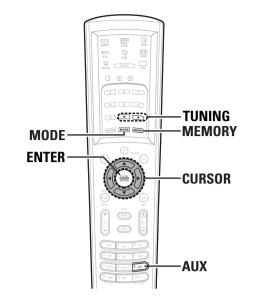
Character Search

P

Press the **TUNING** \blacktriangle or \blacktriangledown button to select the first letter of the item you want to search for.

- After several seconds, the menu screen is displayed with the cursor set to the item starting with the letter selected in step 2.
- * If there is more than one item starting with the letter selected in step 2, the items are displayed in alphabetical order.





Press the MODE button to select the configuration mode, then press the ENTER or CURSOR ▷ button. • The settings screen appears. Configuration Internet Radio Press the MODE button.

Updating the list of radio stations

- **2** Press the CURSOR \triangle or \bigtriangledown button to select "Automatic Update" or "Manual Update", then press the ENTER or CURSOR \triangleright button.
 - The update screen appears.
 - * Select "Radio List Version" to display the current version.

When "Automatic Update" is selected: Press the ENTER or CURSOR ▷ button to select 1 "Yes".

• The list of radio stations is updated approximately once every other day.

When "Manual Update" is selected: Press the ENTER or CURSOR ▷ button.

• The list of radio stations is updated this one time.

6

 When "Yes" is set for "Automatic Update", set "Power Saving" in the "Network Setup" to "OFF" (B) page 124).
 When used with "Power Saving" set to "ON", we recommend performing the "Manual Update" procedure periodically (about once a week).

Playing music files stored on the computer (music server)

- The necessary system connections and settings must be made in order to play music files.
- This procedure is used to play music files (in WMA, MP3 and WAV format) stored on computers (music servers) connected to the AVR-4806Cl via the network.
- The computer's server program must be launched before using this function. For details, refer to the server program's operating instructions.

Either turn the FUNCTION knob or press the AUX button to select "NetAudio" (AMP mode).
The "Network Audio" menu screen appears.



server(s)) on the network are displayed.

2 Press the CURSOR \triangle or \bigtriangledown button to select the host name of the computer (music server) on which the music file you want to play is located, then press the ENTER or CURSOR \triangleright button.

3 Press the CURSOR \triangle or \bigtriangledown button to select the search item or the desired folder, then press the ENTER or CURSOR \triangleright button.

Playable music files are indicated by the "*" mark in front of them.

Press the **CURSOR** \triangle or ∇ button to select the music file, then press the **ENTER** or **CURSOR** \triangleright button.

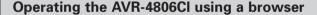
- Connection starts, and playback starts once the buffer reaches "100%".
- * Press the **CURSOR** ∇ button to select the next file, the **CURSOR** Δ button to select the previous file.
- ** During playback, press the ENTER button once to pause playback, then press the ENTER button again to resume playback.
- * If the **ENTER** button is pressed and held in for more than 2 seconds when in the play or pause mode, playback stops and the previous menu screen reappears.

Playing music files that have been preset or registered in your favorites

• The same operations as for Internet radio stations can be used to preset music files or register them in your favorites and play them.

NOTE:

- Registered presettings are deleted when they are overwritten.
- When the operations describe below are performed, the music server database is updated and it may no longer be possible to play the music files that have been preset or registered in your favorites:
 - When the music server is stopped and restarted.
 - •When music files are deleted from or added to the music server.
- When using an ESCIENT server, place "ESCIENT" before the server name.

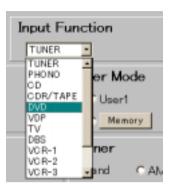


- Internet Explorer can be used on the computer connected to the AVR-4806Cl over the network to operate the AVR-4806Cl.
- Check the AVR-4806Cl's IP address (CP page 123) beforehand and input this IP address in Internet Explorer to display the AVR-4806Cl's control panel.
- Operate in the same way as with normal Internet browsing to control the AVR-4806CI.

Examples of web control operation screens

The settings of the setup items are the same as with normal operations. Refer to "System Setup". Below are some examples of operation screens.

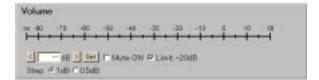
Function selection screen



Surround mode selection screen



Volume control screen

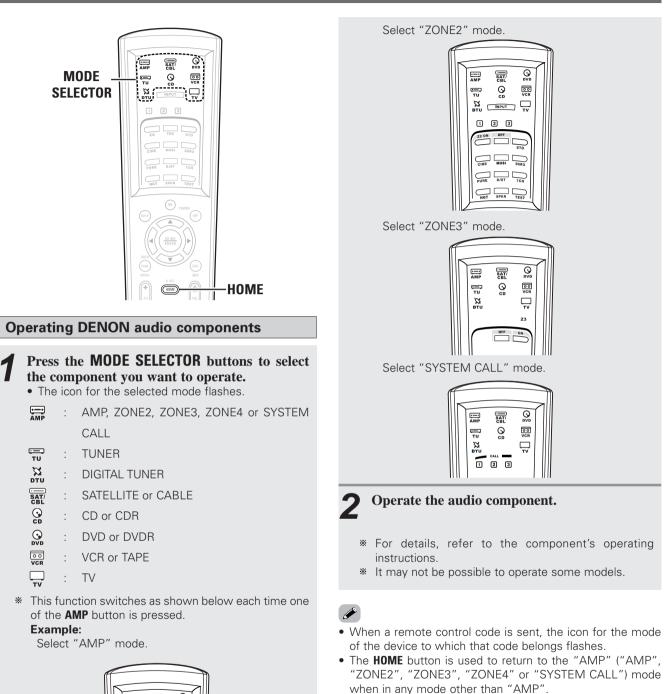


NOTE:

• To use this function, set "Power Saving" at "Network Option" under "Network Setup" to "OFF" (127) page 124).

Advanced Operation

Remote control unit



SAT/ O CD

TU TU

П 23

1. CD player (CD), CD recorder (CDR) system buttons



Manual search (forward and reverse)
 Stop
 Play
 Auto search (to beginning of track)
 Pause
 9, +10
 Number

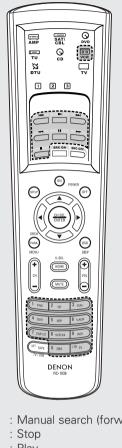
* Default setting = CD

The preset codes of a CDR can be recorded in the CD mode so that the CD recorder can be operated (\square page 82).

It is only possible to set the preset memory for either the CD or CDR.

* To operate a DENON CDR player, preset "30626" or "31868". To return to operation of a DENON CD player, preset "31867".

2. Tape deck (TAPE) system buttons





Manual search (forward and reverse)
Stop
Play
Auto search (to beginning of track)
Pause

+10 : Number

* Default setting = VCR (CP page 84)

The preset codes of a TAPE can be recorded in the VCR mode so that the tape deck can be operated ($\square P$ page 82).

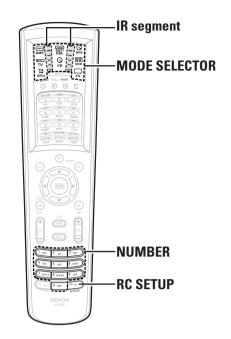
It is only possible to set the preset memory for either the VCR or TAPE.

* To operate a DENON TAPE, preset "21471".

3. Tuner system buttons



▲, ▼	: Tuning up/down
BAND	: Switch between AM, FM and XM bands
MODE	: Switch between AUTO and MANUAL
MEM	: Preset memory
SRCH	: RDS search
SFT	: Switch preset channel range
CH +, -	: Preset channel up/down
A ~ G	: Preset channel range
1 ~ 8	: Preset channel



Preset memory

- The included remote control unit (RC-1036) can be used to operate devices of different brands by registering the preset number corresponding to the brand of your device.
- For some models the remote control unit or the device may not operate properly. In this case, use the learning function (12) page 85, 86) to store your device's remote control signals in the included remote control unit.

Press the **MODE SELECTOR** button for the component you want to preset.

* Presetting is not possible for the AMP, ZONE2, ZONE3, ZONE4, TUNER and SYSTEM CALL modes.

2 Press and hold the **RC SETUP** button for at least three seconds.

- The top IR segment blinks twice.
- **3** Referring to the included List of Preset Codes (IF) End of this manual), press the NUMBER button to input the preset code (a 5-digit number) for the manufacturer of the component whose signals you want to store in the memory.
 - The top IR segment blinks once after each button press.
 - If the remote recognizes the manufacturer's code, the IR segment blinks twice.
- * You have 10 seconds to press each digit. If it takes longer than that, the remote "times out" and you must begin again.

- Depending on the model and year of manufacture, this function cannot be used for some models, even if the your device is listed on the included list of preset codes.
- Some manufacturers use more than one type of remote control code. Refer to the included list of preset codes to change the number and check it out.

□ The preset codes are as follows upon shipment from the factory and after resetting:

- TV, VCRHITACHI
- CD, DVDDENON
- SATRCA

		DVD preset codes	
	41470	(default)	40490
DENON Model No.	DVD-555 DVD-755 DVD-900 DVD-910 DVD-955 DVD-1000 DVD-1200 DVD-1500 DVD-1710 DVD-1910 DVD-2200 DVD-2200 DVD-2800 II DVD-2800 II	DVD-2910 DVD-3800 DVD-3910 DVD-5900 DVD-5910 DVD-9000 DVM-715 DVM-1800 DVM-1805 DVM-1815 DVM-1815 DVM-2815 DVM-4800	DVD-800 DVD-1600 DVD-2000 DVD-2500 DVD-3000 DVD-3300

Operating a component stored in the preset memory

1 Press the MODE SELECTOR button for the component you want to operate.

Operate the component.

- For details, refer to the component's operating instructions.
- * Some models cannot be operated with this remote control unit.

• For the DVD player remote control buttons, function names may differ according to manufacturer. Compare with the remote control operation of the various components.

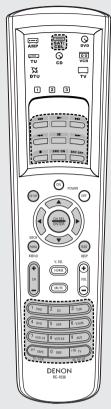
1. DVD player (DVD), DVD recorder (DVDR) system buttons



SRC ON	: Power on
SRC OFF	: Power off
44, >>	: Manual search (forward and reverse)
	: Stop
	: Play
 ◀◀, ▶▶	: Auto search (to beginning of track)
	: Pause
SETUP	: Setup
MENU	: Menu
🔺, 🔻, ┥, 🕨	: Cursor up, down, left and right
ENTER	: Enter
DISP	: Display
CH +, -	: Switch channels +, -
0 ~ 9, +10	: Number

Default setting = DVD
 The preset codes of a DVDR can be recorded in the DVD
 mode so that the DVD recorder can be operated.
 It is only possible to set the preset memory for either
 the DVD or DVDR.

2. Satellite (SAT) tuner, cable (CABLE) system buttons



SRC ON	: Power on
SRC OFF	: Power off
SETUP	: Setup
DISP	: Guide
MENU	: Menu
🔺, 🔻, ┥, 🕨	: Cursor up, down, left and right
ENTER	: Enter
CH +, -	: Switch channels +, -
0 ~ 9, +10	: Number

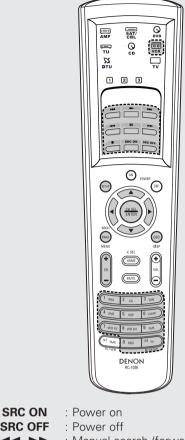
When there are codes usable for the preset device, those codes are sent when the buttons below are pressed. If not, by default the DVD codes are punched through. If the punch through setting is made after the preset memory is set, the codes are sent with priority.

44, >>	: Manual search (forward and reverse)
	: Stop
	: Play
 ◀◀, ▶▶	: Auto search (cue)
	: Pause

* Default setting = SAT

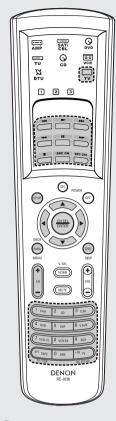
The preset codes of a CABLE can be recorded in the SAT/CBL mode so that the cable device can be operated. It is only possible to set the preset memory for either the SAT or CBL.

3. Video deck (VCR) system buttons



SRC OFF	: Power off
44 , >>	: Manual search (forward and reverse)
	: Stop
	: Play
 ⊲⊲ , ▶▶	: Auto search (to beginning of track)
	: Pause
SETUP	: Setup
MENU	: Menu
▲, ▼, ◀, ►	: Cursor up, down, left and right
ENTER	: Enter
DISP	: Guide
CH +, –	: Switch channels +, –
0 ~ 9, +10	: Number

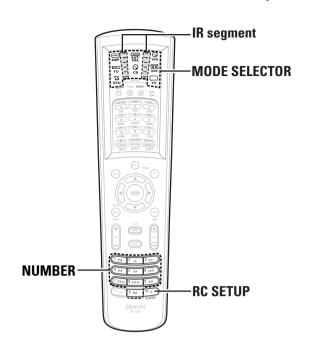
4. Monitor or TV system buttons



SRC ON	: Power on
SRC OFF	: Power off
SETUP	: Setup
MENU	: Menu
▲, ▼, ◀, ►	: Cursor up, down, left and right
ENTER	: Enter
DISP	: Guide
CH +, –	: Switch channels +, -
0 ~ 9, +10	: Number
TV/VCR	: Switch between TV and video play

* When there are codes usable for the preset device, those codes are sent when the buttons below are pressed. If not, by default the DVD codes are punched through. If the punch through setting is made after the preset memory is set, the codes are sent with priority.

44, >>	: Manual search (forward and reverse)
	: Stop
	: Play
 ⊲⊲ , ►►	: Auto search (cue)
ш	: Pause



Learning function

- If an AV component is not a DENON product, or if it cannot be operated via codes provided in the AVR-4806CI remote control's internal preset memory, or if its codes cannot be successfully learned by the AVR-4806CI remote control, then you should use the remote control that was supplied with that AV component to operate the component.
 - **1** Press and hold the **RC SETUP** button for at least three seconds.
 - The IR segment blinks twice.

2 Press the 9, 7, 5 button $(9 \rightarrow 7 \rightarrow 5)$ to select Learning setup.

• The IR segment blinks twice, indicating the remote is in Learning set up mode.

B Press the MODE SELECTOR button for the component you want to learned.

** Learning is not possible for the AMP, ZONE2, ZONE3, ZONE4 and SYSTEM CALL modes.

yer

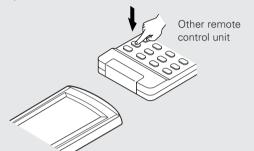
Advanced Operation



- The display will go off and the unit will enter the learning standby mode.
- If a button that cannot be "learned" is pressed, the IR segment lights and the learning setup mode is cancelled.
- * The HOME button cannot be "learned".

Point the remote control units directly at each other and press and hold in the button on the other remote control unit which you want to "learn".

 The display turns on again and the IR segment blinks twice to indicate that the code is successfully captured.



- * Other buttons can be "learned" by repeating steps 4 and 5.
- * The mode can be switched by pressing a **MODE SELECTOR** button.
- * If the IR segment displays one long flash, a leaning error has occurred. Try repeating this step again until a successful capture occurs.

[•] Press and hold the **RC SETUP** button for at least three seconds to exit programming.

ø

- To cancel the learning setup mode, press the **RC SETUP** button for at least three seconds.
- Do not try to learn anything to the **RC SETUP** button.

AMP SYSTEM CALL (%) (%) NUMBER RC SETUP

System call

- The accessories remote control unit is equipped with "system call" function allowing a series of remote control signals to be transmitted by pressing a single button.
- This function can be used for example to turn on the amplifier's power, select the input source, turn on the monitor or TV's power, turn on the source component's power and set the source to the play mode, all at the touch of a single button.

□ System call buttons

- Up to 32 signals each can be stored at the **SYSTEM CALL 1** ~ **3** buttons.
- The System Call function can be used in the SYSTEM CALL mode.

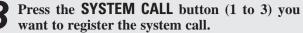
□ Storing system call signals

Press and holed the **RC SETUP** button for at least three seconds.

• The IR segment blinks twice.

Press the 9, 7, 8 button $(9 \rightarrow 7 \rightarrow 8)$ to select system call setting.

• The IR segment blinks twice.





- Press the button you want to register. • The IR segment blinks once after each button press.
- * The mode can be switched by pressing a MODE SELECTOR button.

Repeat steps 4 to register the desired buttons.

* Up to 32 signals each can be stored at the SYSTEM CALL 1 ~ 3.



Press and hold the RC SETUP button for at least three seconds to register the system call. The IR segment blinks twice.

NOTE:

• The remote control signals of the buttons pressed while registering the system call signals are emitted, so be careful not to operate the components accidentally (cover the remote sensors, for example).

□ Using the system call function

Press the **AMP** button to select the SYSTEM CALL mode.

Press the **SYSTEM CALL** button (1 to 3) at which the system call signals have been stored. • The stored signals are transmitted successively.

Punch Through

- Buttons used in the CD, DVD, and VCR modes can be assigned to the buttons which are not normally used in the TV and SAT/CBL modes.
- For example, when the DVD mode is set to the punch through mode in the TV mode, the DVD mode's PLAY (►), STOP (■), MANUAL SEARCH (◀◀, ►►), AUTO SEARCH (I◀◀, ►►I) and PAUSE (Ⅲ) button's signals are sent in the TV mode. — (*)

Press and hold the **RC SETUP** button for at least three seconds.

• The IR segment blinks twice.

Press the 9, 8, 4 button $(9 \rightarrow 8 \rightarrow 4)$ to select punch through setting.

The IR segment blinks twice.

Select the MODE SELECTOR button (CD, DVD or VCR) you want to punch through.

Press the button you want to punch through $(\triangleright, \blacksquare, \triangleleft \triangleleft, \triangleright \triangleright, \mid \triangleleft \triangleleft, \triangleright \triangleright \mid or \mid \blacksquare).$

Repeat step 4.

- Press the MODE SELECTOR button (TV or SAT/CBL) for which you want to set the punch through.

Press and hold the RC SETUP button for at least three seconds.

The IR segment blinks twice.

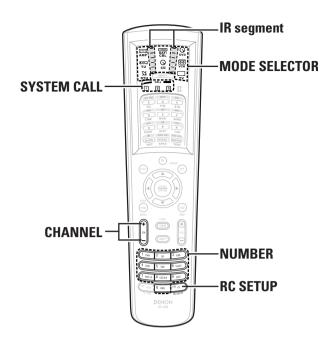
Setting the back light's lighting time Press and hold the RC SETUP button for at least three seconds. • The IR segment blinks twice. Press the 9, 7, 3 button $(9 \rightarrow 7 \rightarrow 3)$ to select Light setup.

• The IR segment blinks twice.

Press the NUMBER button (1 to 5) you want to adjust the lighting time (5 sec ~ 25 sec).

Lighting time

- 1 : 5 sec
- 2 : 10 sec (factory default)
- 3 : 15 sec
- 4 : 20 sec
- 5 : 25 sec
- The IR segment blinks twice as confirmation.



Setting the brightness

-1

- The brightness of the display can be adjusted in 5 levels.
- The default brightness setting is level 3 (level 5 = brightest).

Press and hold the RC SETUP button for at least three seconds.
The IR segment blinks twice.
For 1 brightness step increase:

Press the CHANNEL + button.

For 1 brightness step increase:
Press the CHANNEL – button.

Press and hold the RC SETUP button to exit programming.
The IR segment twice as confirmation.

Resetting

□ Resetting the single learned button

- Press and hold the RC SETUP button for at least three seconds.
 The IR segment blinks twice.
- Press the 9, 7, 6 button $(9 \rightarrow 7 \rightarrow 6)$. • The IR segment blinks twice.
- **Press the MODE SELECTOR** button.
- **4** Press the learned button you want to reset twice.
 - The IR segment blinks twice.
 - * Other key can be deleted by repeating steps 1 to 4.

□ Resetting the learned buttons

- Press and hold the **RC SETUP** button for at least three seconds.
- The IR segment blinks twice.
- Press the 9, 7, 6 button (9 → 7 → 6).
 The IR segment blinks twice.

3 Press the MODE SELECTOR button you want to reset twice.

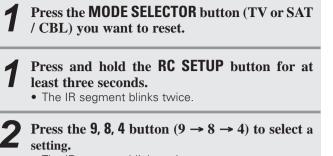
- The IR segment blinks twice.
- □ Resetting the system call buttons
 - Press and hold the RC SETUP button for at least three seconds.
 The IR segment blinks twice.
- 2

Press the 9, 7, 8 button (9 → 7 → 8).
The IR segment blinks twice.

Press the **SYSTEM CALL** button (1 to 3) you want to reset.

Press and hold the RC SETUP button for at least three seconds to clear the system call.
The IR segment blinks twice.

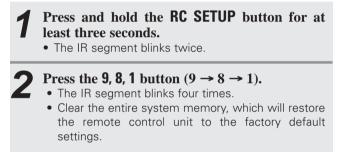
Resetting the punch through setting



• The IR segment blinks twice.

Press and hold the RC SETUP button for at least three seconds to reset the punch through setting.
The IR segment blinks twice.

□ All reset function



Only use this if you wish to clear all customized settings and memories and restore the unit to its outof-the-box factory default settings.

Advanced Operation

Multi zone music entertainment system

- When the outputs of the "ZONE2 (ZONE3)" OUT terminals are wired and connected to power amplifiers installed in other rooms, different sources can be played in rooms other than the MAIN ZONE in which this unit and the playback devices are installed. (Refer to ZONE2 (ZONE3) on the diagram below.)
- Settings can be made at "Power Amp Assign" in the "System Setup Menu" so that the same source as the ZONE2 (ZONE3) pre-out terminals can be played from the speakers connected to the ZONE2 (ZONE3) speaker terminals (Page 116, 117).
- When a sold separately room-to-room remote control unit (DENON RC-616, 617 or 618) is wired and connected between the MAIN ZONE and ZONE2 (ZONE3), the remote-controllable devices in the MAIN ZONE can be controlled from ZONE2 (ZONE3) using the remote control unit.
- * To control playback devices other than the ones above, either use that device's remote control unit or preset a separately sold programmable remote control unit.



• For instructions on installation and operation of separately sold devices, refer to the devices' operating instructions.

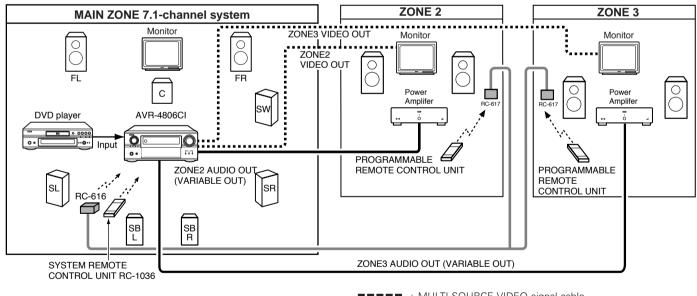
Multi-zone playback using the ZONE2 and ZONE3 PREOUT terminals

□ When using the power amplifier as the MAIN ZONE output

- The AVR-4806Cl is equipped with pre-out terminals for which the volume is adjustable and video output terminals (composite and S-Video) as the ZONE2/ZONE3 output terminals.
- When using just one speaker in ZONE2 (ZONE3), select "Mono" at "Channel Setup" in the "System Setup Menu" (P page 115). The sound in ZONE2 (ZONE3) is monaural. In this case, the ZONE2 (ZONE3) monaural output is output from both the left and right channels of the ZONE2 (ZONE3) PREOUT terminals, so connect to either one.

[System configuration and connections example]

Using external amplifier.



- . MULTI SOURCE VIDEO signal cable
- : MULTI SOURCE AUDIO signal cable
 - : ROOM-TO-ROOM REMOTE CONTROL SYSTEM (separately sold) control line

* Refer to "Connections" (12 page 40).

Multi-zone playback using the SPEAKER terminals

□ When using the power amplifier as the ZONE2/ZONE3 output

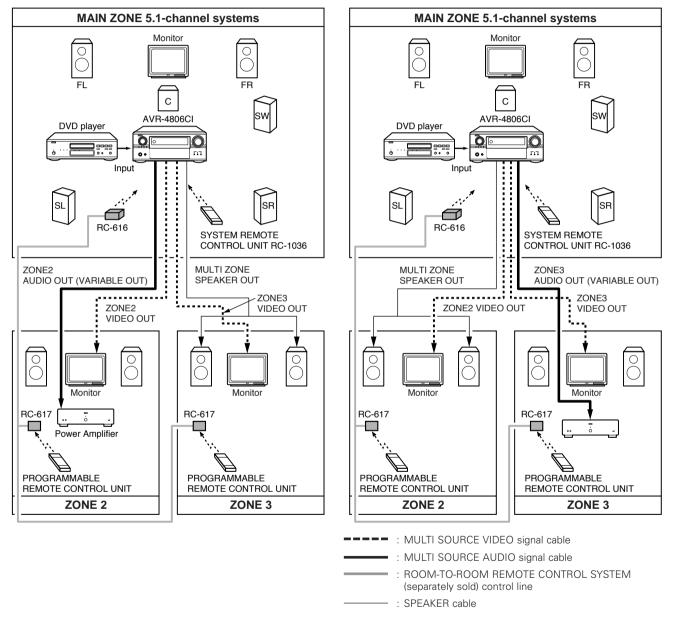
• When the power amplifier is assigned to the ZONE2 or ZONE3 output channel at "Power Amp Assign" in the "System Setup Menu", the MAIN ZONE speaker terminals can be used as the ZONE2 or ZONE3 speaker out terminals (12) page 116, 117).

[System configuration and connections example]

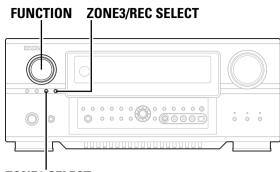
Isystem configuration and connections example Indusing this AVR-

Using external amplifier as the ZONE2 and using this AVR-4806CI internal amplifier as the ZONE3.

Using this AVR-4806Cl internal amplifier as the ZONE3 and using external amplifier as the ZONE2.



* Refer to "Connections" (B page 41).



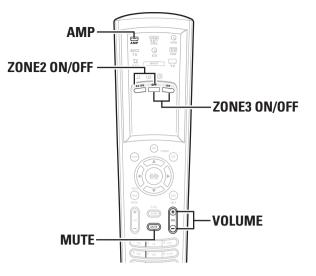
ZONE2 SELECT

Outputting a program source to an amplifier, etc., in a ZONE2 room (ZONE2 SELECT mode)

Press the **ZONE2 SELECT** button to display the "ZONE2 SOURCE" on the display.

Turn the **FUNCTION** knob to select the source you want to output appears on the display.

- Start playing the source to be output.
- * For operating instructions, refer to the manuals of the respective components.



Outputting a program source to an amplifier, etc., in a ZONE3 room (ZONE3 SELECT mode)

- Press the ZONE3/REC SELECT button to display the "ZONE3 SOURCE" on the display. • The MULTI indicator light.
- * The display switches as follows each time the button is pressed.

ZONE3 ← → RECOUT

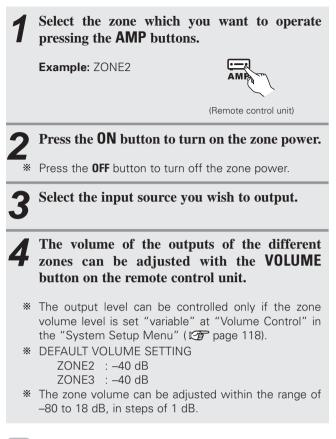
Turn the **FUNCTION** knob to select the source you want to output appears on the display.

- Start playing the source to be output.
- * For operating instructions, refer to the manuals of the respective components.

6

- The signals of the source selected in the ZONE3 mode are also output from the VCR-1, VCR-2, VCR-3 and CDR/TAPE recording output terminals.
- Digital signals are not output from the ZONE2 and ZONE3 audio output terminals.
- About the MULTI ZONE connections (🕼 page 90, 91).
- Digital outputs of the OPTICAL2, 3 and 4 OUT normally switch in association with the ZONE3/REC SELECT mode, but if "ZONE2 SELECT" is selected at "Digital Out Assign", the source switches in association with the "ZONE2 SELECT" mode for the OPTICAL2 OUT digital output terminal (IC) page 121).

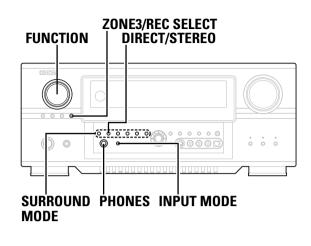
Remote control unit operations during multi-source playback



<u>s</u>

- Press the **MUTE** button to mute the audio temporarily. The muting level is same as set with "Volume Control".
- Cancelling muting mode: Press the MUTE button again, or press the VOLUME button on the remote control unit.

Other function





Select the input source to which IEEE1394 was assigned at the "IEEE1394 Assign" (P page 102) in the system setup.

Example: CD



(Main unit)



(Remote control unit)

(Remote control unit)

The IEEE1394 indicator lights.



Select the surround mode.

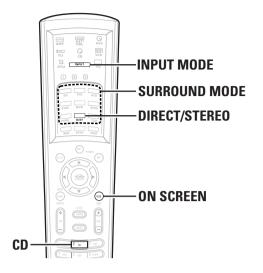
Example: DIRECT



Start playback on the selected component. • The DSD indicator lights.

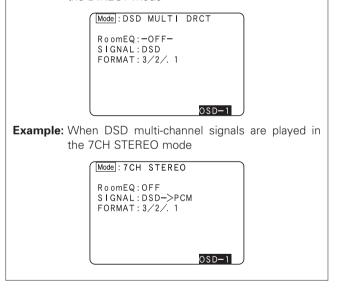


- * For operating instructions, refer to the component's manual.
- * "DSD DIRECT" is shown on the display when playing DSD 2-channel signals in the DIRECT mode. "DSD MULTI DIRECT" is displayed when playing DSD multichannel signals in the DIRECT mode (SB CH OUT "OFF").



When playing DSD signals in the DIRECT or PURE DIRECT mode, the DSD signals are converted into analog signals. When playing in other surround modes, the DSD signals are first converted into PCM signals. The input signal and playing status can be checked by pressing the **ON SCREEN** button on the remote control unit.

Example: When DSD multi-channel signals are played in the DIRECT mode



Multi-source recording / playback

□ Playing one source while recording another (REC OUT mode)

Press the **ZONE3/REC SELECT** button until "RECOUT SOURCE" appears on the display.

• The "REC" indicator lights.



Turn the **FUNCTION** knob to select the source you wish to record.

Set the recording mode.

* For operating instructions, refer to the manual of the component on which you want to record.

- To cancel, turn the FUNCTION knob and select "SOURCE".
- Recording sources other than digital inputs selected in the REC OUT mode are also output to the ZONE3 audio/video output terminals.
- When the REC OUT mode is selected, the **ZONE3** button on the remote control unit cannot be operated.
- When "ZONE2 SELECT" is selected at "Digital Out Assign", the source switches in association with the "ZONE2 SELECT" mode for the OPTICAL2 OUT terminal (121).

Recording Dolby Digital and DTS multi channel sources

- With this set it is possible to record Dolby Digital and DTS multichannel signals converted into 2-channel analog signals.
- The recording signals are output to the TAPE and VCR output terminals.
- Down-mixed analog signals converted into digital signals are output from the OPTICAL 2, 3 and 4 digital output terminals at this time.

Press the **ZONE3/REC SELECT** button until "RECOUT SOURCE" appears on the display.

Press the **INPUT MODE** button to set the input mode according to the source to be played.

- Press the **DIRECT/STEREO** button to set the surround mode.
 - The multichannel digital signals are down-mixed and output to the TAPE and VCR output terminals.

Set the recording mode.

Dolby Headphone recording

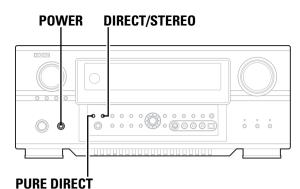
- When REC OUT mode is set to "SOURCE", with the AVR-4806Cl it is possible to output signals encoded in the Dolby Headphone mode from the recording output terminal and record them on a separate recorder.
- The Dolby Headphone play mode is set when headphones are connected to the PHONES jack during playback in the DOLBY/DTS surround mode.
 - When this is done, signals encoded in the Dolby Headphone mode are automatically output from the recording output terminals (analog and digital) and can be recorded.

Select the parameters and set the desired mode.

- Start recording.
- * Refer to the "Dolby Headphone" (2 page 59).

NOTE:

Do not disconnect the headphones during recording.



Last Function Memory

• This unit is equipped with a last function memory which stores the input and output setting conditions as they were immediately before the power is switched off.

This function eliminates the need to perform complicated resetting when the power is switched on.

• The unit is also equipped with a back-up memory. This function provides approximately one week of memory storage from when the main unit's power switch is off and with the power supply cord disconnected.

Initialization of the Microprocessor

In very rare instances, the AVR-4806CI internal microprocessor might lock up, or otherwise cause misoperation. This might be caused due to an AC line surge or line spike noise, or by static electric discharge on or nearby the unit, or to connected components. If the condition cannot be corrected by powering off the unit, including disconnection of the power supply cord for a period of ten minutes and subsequent re-connection, then the unit may have to be re-initialized. Doing so will restore the microprocessor to its original out-of-the-box state, with all custom memories and settings restored. Only use this procedure if you are sure that the microprocessor requires re-initialization.

Switch off the unit using the main unit's **POWER** switch.

2 Hold the following **PURE DIRECT** button and **DIRECT/STEREO** button, and turn the main unit's **POWER** switch on.

Check that the entire display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons.

• The microprocessor will be initialized.



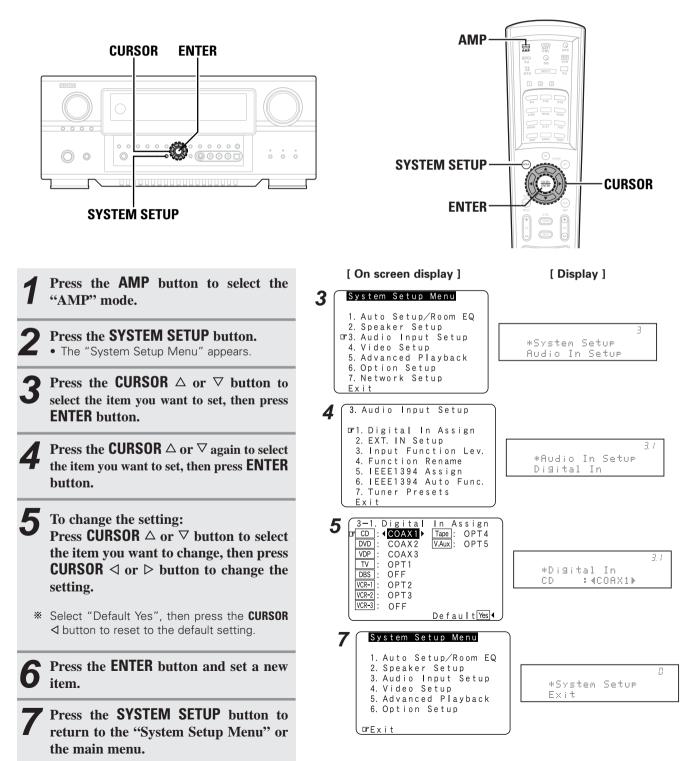
- If step 3 does not work, start over from step 1.
- If the microprocessor has been reset, all the settings are reset to the default values (the values set upon shipment from the factory).

Advanced Setup – Part 1

• You can customize a variety of system setup so that it may be fitting for your listening environment. For the contents of a system menu and the initial setting of this unit (1277) page 138 ~ 140).

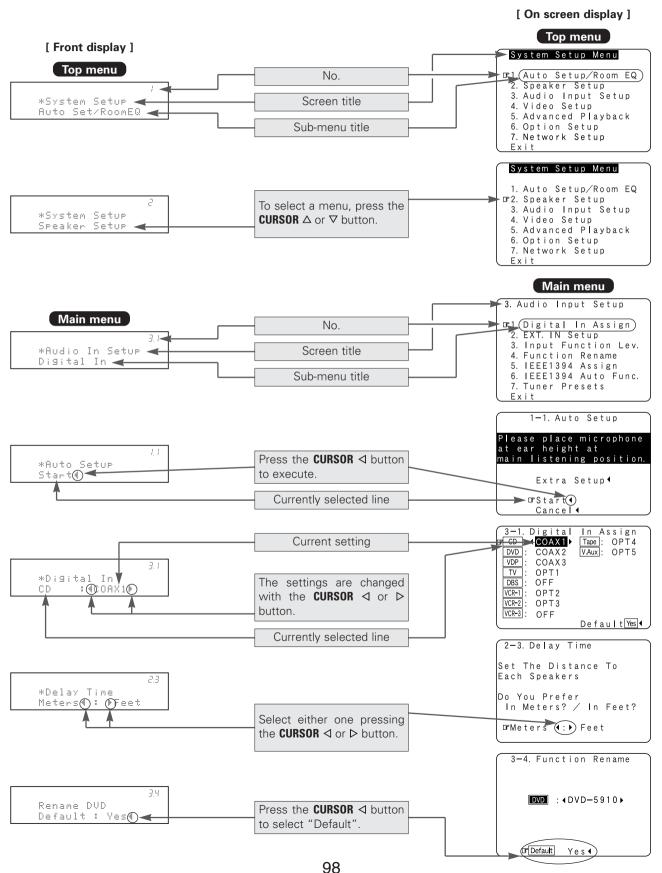
Navigating through the System Setup Menu

• You can change setting using the buttons on the front panel or remote control unit.



On screen display and front display

• The AVR-4806CI is equipped with an intuitive and easy-to-understand on screen display, and is equipped with an alpha-numeric front panel display tube that can also be used to check and adjust settings. We recommend that you use the on screen display when you make system adjustments. Some representative front panel and on screen display examples are shown below.



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Audio Input Setup

• Make the audio-related settings.

Setting the Digital In Assignment

 This setting assigns the digital input terminals of the AVR-4806Cl for the different input sources.

Press the CURSOR △ or ▽ button to select "Audio Input Setup" at the "System Setup Menu", then press the ENTER button.
Display the "Audio Input Setup" menu screen.

System Setup Menu	
1. Auto Setup/Room EQ 2. Speaker Setup 073. Audio Input Setup 4. Video Setup 5. Advanced Playback 6. Option Setup 7. Network Setup Exit	3. Audio Input Setup GP1. Digital In Assign 2. EXT. IN Setup 3. Input Function Lev. 4. Function Rename 5. IEEE1394 Assign 6. IEEE1394 Auto Func. 7. Tuner Presets Exit

Press the CURSOR △ or ▽ button to select
"Digital In Assign", then press the ENTER button.

Display the "Digital In Assign" screen.

□ CD : (COAX1) □ DVD : COAX2 VDP : COAX2 VDP : COAX3 TV : OPT1 □ DBS : OFF VCR-1 : OPT2 VCR-2 : OPT3	In Assign Tape: OPT4 VAux: OPT5
VCR-3 : OFF	DefaultYes◀

- **3** Press the CURSOR △ or ▽ button to select the input source, then press the CURSOR ⊲ or ▷ button to select the digital input terminal.
- * Select from among COAX 1 to 3, OPT 1 to 5.
- If the same digital input terminal is selected, the setting for the input source that was previously assigned switches to "OFF".
- ** The HDMI input terminal is displayed when it is assigned to the input source at "HDMI/DVI In Assign" (CP page 106, 107).
- If an input source is assigned to a device connected with an IEEE1394 cable at "IEEE1394 Assign", the digital input terminal's assignment setting switches to "OFF".
- When "Default Yes" is selected, then press the CURSOR <</p>

Press the ENTER button to enter the setting.
The "Audio Input Setup" menu reappears.

 The OPTICAL 2, 3 and 4 terminals on the AVR-4806CI's rear panel are equipped with an optical digital output terminal for recording digital audio signals to a CD recorder, MD recorder, or other digital audio recording deck. Use this for digital recording between a digital audio source (stereo – 2 channel) and a digital audio recorder.

• "PHONO" and "TUNER" cannot be selected on the "Digital In Assign" screen.

Advanced Setup – Part 1

□ Setting the DENON LINK

- When a DENON DVD player and the DENON LINK have been connected, be sure to make a setting to "DENON LINK" with the System Setup Digital In Assignment.
- When the input mode is AUTO and the signals are not be able to transferred by DENON LINK, the unit automatically changes over the input to the selected signals (ANALOG, EXT. IN or IEEE1394).
- Refer to "DENON LINK connections" (

Press the CURSOR \triangle or \bigtriangledown button to select the input source, then press the CURSOR \triangleleft or \triangleright button to select "DLINK".



Press the CURSOR △ or ▽ button to select "DLINK" setting, then press the CURSOR ⊲ or ▷ button to select the input signal (ANALOG, EXT. IN or IEEE1394).

3-1. CD:	Digita COAX1	In Assign Tape: OPT4
DVD :	DLINK	V.Aux : OPT5
VDP :	COAX3	
:	OPT1	
DBS :	OFF	GDLINK
VCR-1 :	OPT2	No Signal
VCR-2 :	OPT3	ANALOG ►
VCR-3 :	OFF	
		DefaultYes◀

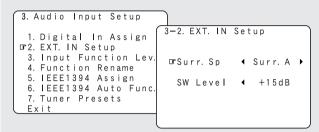
* If the signal cannot be played with DENON LINK connection, the signal automatically switches to the input from the set terminal.

Setting the EXT. IN Setup

- Set the method of playback of the analog input signal connected to the EXT. IN (8CH) terminal.

1 Press the CURSOR \triangle or ∇ button to select "EXT. IN Setup" at the "Audio Input Setup" menu, then press the ENTER button.

• Display the "EXT. IN Setup" screen.



2

Press the **CURSOR** \triangle or \bigtriangledown button to select the item to be set, then press the **CURSOR** \triangleleft or \triangleright button to select the parameter.

Surr. Sp:

Presets the surround speakers that are used in the $\ensuremath{\mathsf{EXT}}$. IN mode.

Select according to the specifications of the player being used. Also refer to the player's operating instructions.

• Surr. A:

Select when using surround speakers A.

- Surr. B:
 - Select when using surround speakers B.
- Surr. A+B:

Select when using both surround speakers A and B.

SW Level:

Sets the playback level of the analog signal that was input to the EXT. IN subwoofer terminal.

Select according to the specifications of the player being used. Also refer to the player's operating instructions.

 $\pm 15 dB$ (default) recommended. (0, $\pm 5, \pm 10$ and ± 15 can be selected.)

- Press the ENTER button to enter the setting.
- The "Audio Input Setup" menu reappears.

Setting the Input Function Level

- Correct the playback level of the different input sources.
- Adjust the playback levels of the devices connected to the different input sources to the same level to eliminate the need for adjusting the main volume each time the input source is switched.

1 Press the CURSOR \triangle or \bigtriangledown button to select "Input Function Lev." at the "Audio Input Setup" menu, then press the ENTER button.

• Display the "Input Function Lev." screen.

3. Audio Input Setup	
1. Digital In Assign	3-3. Input Function Lev.
2. EXT. IN Setup G 3. Input Function Lev. 4. Function Rename 5. IEEE1394 Assign 6. IEEE1394 Auto Func. 7. Tuner Presets Exit	CF Tuner Image: A formation of the state o
	De fault Yes↓

2 Press the CURSOR △ or ▽ button to select the input source, then press the CURSOR ⊲ or ▷ button to adjust the level.

- * The level can be adjusted between -12 dB and +12 dB in units of 1 dB.
- When "Default Yes" is selected, then press the CURSOR < button to reset to the default values.</p>



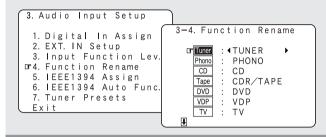
Press the ENTER button to enter the setting.

• The "Audio Input Setup" menu reappears.

• After completing this setting, check that the playback levels for the different sources are the same.

Setting the Function Rename

- The names of the input sources displayed on the front display and on the on-screen display can be changed. The names or brands of the devices connected to the input sources can be input.
 - **1** Press the CURSOR \triangle or ∇ button to select "Function Rename" at the "Audio Input Setup" menu, then press the ENTER button.
 - Display the "Function Rename" screen.





• The screen switches to the character input screen.

Example: When "DVD" is selected and the CURSOR ⊲ or ▷ button is pressed



Press the CURSOR < or ▷ button to move the cursor (■) to the character, number, symbol or punctuation mark you wish to input, and press the CURSOR △ or ▽ button to select that character.</p>

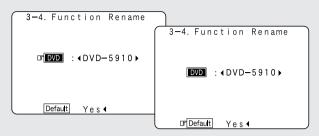
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z a b c d e f g h i j k l m n o p q r s t u v w x y z 0 1 2 3 4 5 6 7 8 9 ! " # % & '() * + , - . / : ; < = > ? @ [\] (space)

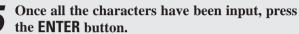
* Up to 8 characters can be input.

Repeat step 3 to input the input source name.

Advanced Setup – Part 1

* To reset the input source name to the default value, press the **CURSOR** \triangleleft or \triangleright button to highlight the input source display, then press the **CURSOR** ∇ button. When "Default Yes" is selected, then press the **CURSOR** < button to reset to the default input source name



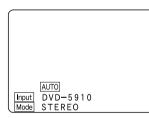


- The "Function Rename" screen reappears.
- * Use the same procedure to change other input source names as well



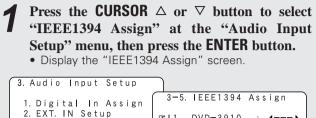
Press the ENTER button to enter the setting. • The "Audio Input Setup" menu reappears.

- When the input source is selected, the display is as shown below.
 - Example: When the name has been changed to "DVD-5910"



Setting the IEEE1394 Assignment

• Assign the device connected by IEEE1394 cable to an input source. The power of the device to be assigned must be turned on ahead of time.



1.Digital In Assign				
2.EXT.IN Setup 3.Input Function Lev.		DVD-3910		<>
	12	DVD-5910	:	
4. Function Rename				
⊡°5. IEEE1394 Assign				
6. IEEE1394 Auto Func.				
7. Tuner Presets				
Exit				



Press the **CURSOR** \triangle or ∇ button to select the device to be assigned to the input source, then press the **CURSOR** \triangleleft or \triangleright button to select the input source.

3-5. IEEE1394 Assign DVD-3910 **r** | 1 (DVD) I2 DVD-5910



Press the **ENTER** button to enter the setting.

• The "Audio Input Setup" menu reappears.

- If you do not wish to assign the device connected by IEEE1394 cable to an input source, the IEEE1394 input can be selected by turning the FUNCTION knob. In this case, the connection information is cleared when the power of the connected device or the AVR-4806Cl is turned off, so the selection procedure must be performed again.
- By default, if no device has been connected using an IEEE1394 cable in the past, "No Connection" is displayed.
- "Connection Change" is displayed if there is a change in the IEEE1394 connection status while this screen is displayed.
- If the model name cannot be acquired from the connected IEEE1394 device, "UNKNOWN" is displayed.
- If an IEEE1394 device other than one for IEEE1394 audio playback is connected, "Not Play" is displayed and the input source cannot be assigned.

Setting the IEEE1394 Auto Function

- Set whether or not to automatically play the IEEE1394 device when it is selected with the **FUNCTION** knob.
- Press the CURSOR △ or ▽ button to select "IEEE1394 Auto Func." at the "Audio Input Setup" menu, then press the ENTER button.

 Display the "IEEE1394 Auto Func." screen.

3. Audio Input Setup	
1. Digital In Assign 2. EXT. IN Setup 3. Input Function Lev 4. Function Rename 5. IEEE1394 Assign GP6. IEEE1394 Auto Func 7. Tuner Presets Exit	Auto Function ∢OFF▶

Press the **CURSOR** \triangleleft or \triangleright button to select "ON" or "OFF".

ON:

Select this to automatically play the device.

OFF:

Select this if you do not want to automatically play the device.

* In some cases settings may be required on your player. Also refer to the player's operating instructions.

Press the ENTER button to enter the setting.

• The "Audio Input Setup" menu reappears.

Tuner Presets

□ Auto Preset Memory

• Use this to automatically search for FM broadcasts and store up to 56 stations at preset channels A1 to 8, B1 to 8, C1 to 8, D1 to 8, E1 to 8, F1 to 8 and G1 to 8.

Press the **CURSOR** \triangle or ∇ button to select "Tuner Presets" at the "Audio Input Setup" menu, then press the ENTER button.

• Display the "Tuner Presets" screen.

3. Audio Input Setup	
1. Digital In Assign	3—7. Tuner Presets
2. EXT. IN Setup 3. Input Function Lev.	⊡rAuto Preset Memory
4. Function Rename 5. IEEE1394 Assign	Preset Skip
6. IEEE1394 Auto Func. 137. Tuner Presets	Preset Name
Exit	
	Exit .

Press the **CURSOR** \triangle or ∇ button to select "Auto Preset Memory", then press the **ENTER** button.

• Switch to the "Auto Preset Memory" screen.

3-7. Auto Preset Memory Auto Tuning & Preset Station Memory Storing Preset Memory ⊡rStart Yes ◀

2

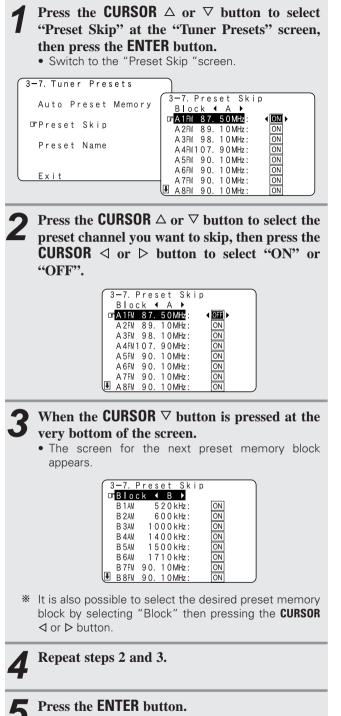
- Press the **CURSOR** \triangleleft button to select "Yes".
- "Search" flashes on the screen and searching begins.
- "Completed" appears once searching is completed.
- The display automatically switches to the "Tuner Presets" screen.

 If an FM station cannot be preset automatically due to poor reception, use the "Manual tuning" operation (127 page 66) to tune in the station, then preset it using the manual "Preset memory" operation (127 page 66).

Advanced Setup - Part 1

Preset Skip

 When selecting preset channels pressing the CHANNEL + or – button, it is possible to skip specific preset channels.



• Return to the "Tuner Presets" screen.

Preset Name

 It is possible to input station names, etc., for preset channels. (Except the XM channel.) These names are displayed on the front display and on the on screen display.

Press the CURSOR \triangle or ∇ button to select "Preset Name" at the "Tuner Presets" screen, then press the ENTER button.

• Switch to the "Preset Name" screen.

3-7. Tuner Presets	
Auto Preset Memory	(3-7. Preset Name Block ∢ A ▶
Preset Skip	□T <mark>A1FM 87.50MHz</mark> : < ►
⊡rPreset Name	A 3FM 98.10 MHz: A 4FM 107.90 MHz:
	A 5FM 9 0. 1 0 MHz : A 6FM 9 0. 1 0 MHz :
Exit	A 7FM 90. 10MHz:

Press the CURSOR △ or ▽ button to select the preset channel whose name you want to change, then press the CURSOR ⊲ or ▷ button.
 The screen switches to the character input screen.

Example: When "A1" is selected and the CURSOR ⊲ or ▷ button is pressed



? P

Press the **CURSOR** \triangleleft or \triangleright button to move the cursor (\blacksquare) to the character, number, symbol or punctuation mark you wish to input, and press the **CURSOR** \triangle or ∇ button to select that character.

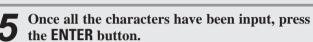
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z a b c d e f g h i j k l m n o p q r s t u v w x y z 0 1 2 3 4 5 6 7 8 9 ! " # % & '() * + , - . / : ; < = > ? @ [\] (space)

* Up to 8 characters can be input.

Repeat step 3 to input the preset channel name.

★ To reset the input source name to the default value, press the CURSOR d or > button to highlight the input source display, then press the CURSOR v button.When "Default Yes" is selected, then press the CURSOR dbutton to reset to the default name.

3-7. Preset Name	
	3-7. Preset Name
GT <mark>A1FM 87.50MHz</mark> : 4 WMJX−FM	A1FM 87.50MHz:∢WMJX−FM →
Default Yes ◀	
	⊡r <u>Default</u> Yes ∢



- The "Preset Name" screen reappears.
- * Use the same procedure to change other input station names as well.

When the **CURSOR** \bigtriangledown button is pressed at the very bottom of the screen.

• The screen for the next preset memory block appears.

ſ	3-	7.	Ρr	е	s	е	t	Ν	lame	,
L	ΓB	0	c k		◀		В			
L	В	1 AM			5	2	0	kН	z :	
L	В	2AM			6	0	0	kН	z :	
L	В	3AM		1	0	0	0	kН	z :	
L	В	4AM		1	4	0	0	kН	z :	
L	В	5AM		1	5	0	0	kН	z :	
L	В	6AM		1	7	1	0	kН	z :	
L	B	7FM	9	0		1	0	MH:	z :	
U	∎ B	8FM	9	0		1	0	MH:	<i>,</i> .	

- It is also possible to select the desired preset memory block by selecting "Block" then pressing the CURSOR
 ⊲ or ▷ button.
- 7

Press the ENTER button.

• Return to the "Tuner Presets" screen.

• Press the ENTER button to enter the setting.

• The "Audio Input Setup" menu reappears.

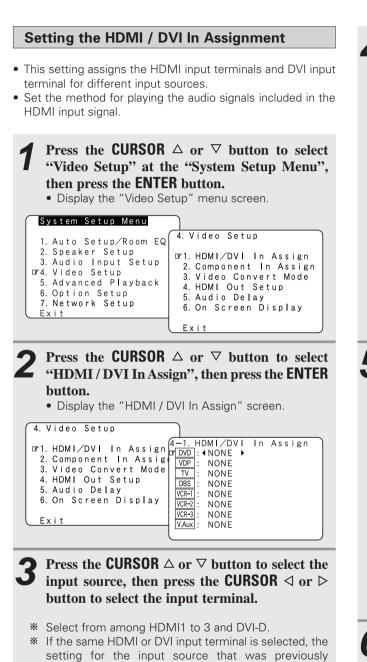
9 Press the CURSOR \triangle or ∇ button to select "Exit", then press the ENTER button.

• The "System Setup Menu" reappears.

3. Audio Input Setup
1. Digital In Assign
2. EXT. IN Setup
3. Input Function Lev.
4. Function Rename
5. IEEE1394 Assign
6. IEEE1394 Auto Func.
7. Tuner Presets
or Exit

Video Setup

• Make the video-related settings.



assigned switches to "NONE".

Press the CURSOR △ or ▽ button to select the method for playing the audio signals included in the HDMI input signal, then press the CURSOR ⊲ or ▷ button to select "AMP" or "TV".

AMP:

Play the audio signals on speakers connected to the AVR-4806CI.

TV:

Play the audio signals on a TV connected to the AVR-4806CI.

4−1. HDMI/DVI	In Assign
DVD : HDMI1	
VDP: HDMI2	
TV : HDMI3	HDMI
DBS : DVI-D	□ Audio : ∢AMP →
VCR-1 : NONE	No Signal
VCR-2: NONE	1: EXT. IN
VCR-3 : NONE	2: ANALOG
V.Aux : NONE	3: ANALOG
	J

Press the CURSOR \triangle or ∇ button to select the input for the playback of signals when the audio signal of HDMI can not be reproduced, then press the **CURSOR** \triangleleft or \triangleright button to select the input signal (EXT. IN or ANALOG).

I−1. HDMI/DVI	In Assign
DVD: HDMI1	
VDP: HDMI2	
TV: HDMI3	HDMI
DBS : DVI-D	Audio: ∢AMP →
VCR-1: NONE	No Signal
VCR-2: NONE	☞1:4EXT. IN>
VCR-3: NONE	2: ANALOG
V.Aux : NONE	3: ANALOG

- If there is no HDMI audio signal, the signal automatically switches to the input from the set terminal.
- * 1~3 correspond to each HDMI 1~3 input terminal.
- Press the **ENTER** button to enter the setting.
 - The "Video Setup" menu reappears.



- Input signals input from the analog and digital terminals are not output to the TV.
- With HDMI, the video and audio signals are transferred simultaneously. When HDMI is assigned to an input source, the digital audio input assignment switches to HDMI along with the video input.

When this setting is made for input sources to which a digital audio input (DENON LINK, IEEE1394 etc.) is previously assigned, the digital audio assignment is set to HDMI.

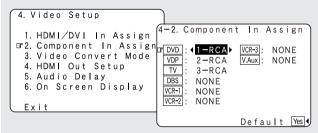
In this case, reassign the digital input using the procedure described at "Digital In Assign" (P page 99) and "IEEE1394 Assign" (P page 102).

Setting the Component In Assignment

 This setting assigns the component video input terminal of the AVR-4806Cl for the different input sources.

1 Press the **CURSOR** \triangle or ∇ button to select "Component In Assign" at the "Video Setup" menu, then press the **ENTER** button.

• Display the "Component In Assign" screen.



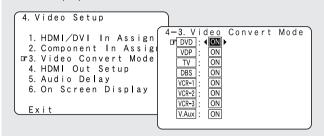
- **2** Press the CURSOR \triangle or \bigtriangledown button to select the input source, then press the CURSOR \triangleleft or \triangleright button to select the component video input terminal.
- * Select from among 1-RCA to 3-RCA.
- ** If the same component video input terminal is selected, the setting for the input source that was previously assigned switches to "NONE".
- When "Default Yes" is selected, then press the CURSOR <</p>
- Press the ENTER button to enter the setting.The "Video Setup" menu reappears.

Setting the Video Convert Mode

• Set whether or not to use the video conversion function.

Press the CURSOR \triangle or \bigtriangledown button to select "Video Convert Mode" at the "Video Setup" menu, then press the ENTER button.

• Display the "Video Convert Mode" screen.



Press the **CURSOR** \triangle or \bigtriangledown button to select the input source, then press the **CURSOR** \triangleleft or \triangleright button to select "ON" or "OFF".

ON:

When there are multiple input signals, the input signals are detected and the input signal to be output from the video monitor output terminal is selected automatically in the following order: component video, S-Video, composite video.

OFF:

The convert function does not operate.

The video signal input from the video input terminal is only output to the video monitor out terminal.

The S-Video signal input from the S-Video input terminal is only output to the S-Video monitor out terminal.

The component input signal input from the component input terminals is only output to the component monitor output terminals.

2

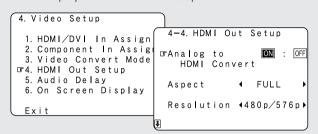
- Press the ENTER button to enter the setting.
- The "Video Setup" menu reappears.
- Down-converting from the component video signal to the S-Video and composite video signal is possible only when the resolution of a component video signal is 480i / 576i.
- When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. If this happens, please set the conversion mode to "OFF".
- When the video conversion function has been used, information such as that of text broadcasts which has been added to the video signal might not be output. If this happens, please set the conversion mode to "OFF".

Setting the HDMI Out Setup

- Set whether to use the analog video signals to HDMI conversion function.
- When using this conversion function, set the color format and video range of the signals output from the HDMI terminal.

Press the **CURSOR** \triangle or ∇ button to select "HDMI Out Setup" at the "Video Setup" menu, then press the **ENTER** button.

• Display the "HDMI Out Setup" screen.



Press the **CURSOR** \triangle or ∇ button to select the setting, then press the **CURSOR** \triangleleft or \triangleright button to select the parameter.

Analog to HDMI Convert:

• ON:

Setting for converting analog video signals into HDMI signals.

• OFF:

Setting for not converting analog video signals into HDMI signals.

Aspect:

• FULL:

The video is output while maintaining the aspect ratio of the input video.

This mode is suited for playing back 16:9 video.

• NORMAL:

A black band is added to the left and right of the input video and the video is output.

This mode is suited for playing back 4:3 video.

Resolution:

• 480p/576p:

When the video signal being input is a video, S-Video or 480i/576i component video signal, the resolution is converted to 480p/576p and the signal is output from the HDMI MONITOR OUT terminal.

• 1080i:

When the video signal being input is a video, S-Video or 480i/576i/480p/576p component video signal, the resolution is converted to 1080i and the signal is output from the HDMI MONITOR OUT terminal.

• 720p:

When the video signal being input is a video, S-Video or 480i/576i/480p/576p component video signal, the resolution is converted to 720p and the signal is output from the HDMI MONITOR OUT terminal.

• 1080p:

The input video signal is converted to a resolution of 1080p for output.

• Through:

The video signal being input is output as such from the HDMI MONITOR OUT terminal without being converted.

Color Space:

• Y Cb Cr:

The Y Cb Cr format video signals is output via the HDMI output connector.

• RGB:

The RGB format video signals is output via the HDMI output connector.

RGB Mode Setup:

• Normal:

Signals are output via the HDMI output connector with a digital RGB video range (data range) of 16 (black) to 235 (white).

• Enhanced:

Signals are output via the HDMI output connector with a digital RGB video range (data range) of 0 (black) to 255 (white).

- * When the HDMI connector is connected, the black may seem to stand out, depending on the TV or the monitor. In this case, set this to "Enhanced".
- When "Y Cb Cr" is selected under "Color Space", "RGB Mode Setup" will have no effect.
- * The aspect ratio setting is valid when the resolution is set to 1080i, 720p or 1080p. To output with other resolutions, set the aspect ratio on the TV.
- When "Through" is set, the signal is output with the same resolution as input from the video, S-Video and component video terminals.

The OSD, however, is output with a resolution of 480i, so use a monitor compatible with this resolution.

Press the ENTER button to enter the setting.The "Video Setup" menu reappears.



- "Aspect", "Resolution" "Color Space" and "RGB Mode Setup" are only displayed when "Analog to HDMI Convert" is set to "ON".
- When connecting to an HDCP compatible monitor equipped with DVI-D terminal using an HDMI/DVI-D converter cable, the signals are output in RGB format, regardless of the "Color Space" setting.
- To view the on-screen display using an HDMI monitor, set "Analog to HDMI Convert" at "HDMI Out Setup" to "ON" (default).

Setting the Audio Delay

- When watching a DVD or other video source, the picture on the monitor may seem delayed with respect to the sound. In this case, adjust the audio delay to delay the sound and synchronize it with the picture.
- The audio delay setting is stored separately for each input source.

Press the CURSOR \triangle or ∇ button to select "Audio Delay" at the "Video Setup" menu, then press the ENTER button.

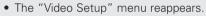
• Display the "Audio Delay" screen.

4. Video Setup	
1. HDMI/DVI In Assign	4-5. Audio Delay
2. Component In Assig 3. Video Convert Mode 4. HDMI Out Setup GF5. Audio Delay 6. On Screen Display Exit	Input Source]: DVD Om s ►
(_EXIT	

- Press the **CURSOR** \triangleleft or \triangleright button to set the delay time (0 ms ~ 200 ms).
- With a movie source, for example, adjust so that the movement of the actors' lips is synchronized with the sound.



Press the ENTER button to enter the setting.





- The audio delay setting does not apply when playing in the EXT. IN mode or in the analog input direct mode or stereo mode (only when the crossover frequency is set to "FIXED-THX-" (TONE DEFEAT "ON", Room EQ "OFF").
- By default, this menu is not displayed when no digital signals are being input.

Setting the On Screen Display (OSD)

- Use this to turn the on screen display (messages other than the menu screens) on or off.
- Sets the on screen display's display mode.

Press the CURSOR △ or ⊽ button to select "On Screen Display" at the "Video Setup" menu, then press the ENTER button.

• Display the "On Screen Display" screen.

```
4. Video Setup

1. HDMI/DVI In Assign

2. Component In Assign

3. Video Convert Mode

4. HDMI Out Setup

5. Audio Delay

DF6. On Screen Display

Exit

Exit

4-6. On Screen Display

GFF

Master Volume Status

Display Mode

Model ≤ : Mode2
```

Press the CURSOR △ or ▽ button to select the item to be set, then press the CURSOR ⊲ or ▷ button to select the parameter.

Function/Mode Status:

Set whether or not to turn on the on screen display of the input source name and input mode when an input source is selected.

Master Volume Status:

Set whether or not to turn on the on screen display of the main volume level when the main volume is operated.

Display Mode:

• Mode 1:

Flickering is not prevented.

• Mode 2:

Prevents flickering of the on screen display when there is no video signal.

Use this mode if the on screen display does not appear in the Mode 1, as may happen according to the TV being used.

Press the **ENTER** button to enter the setting.

• The "Video Setup" menu reappears.

Press the **CURSOR** \triangle or ∇ button to select "Exit", then press the **ENTER** button.

• The "System Setup Menu" reappears.

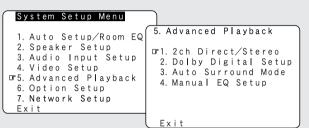
4. Video Setup 1. HDMI/DVI In Assign 2. Component In Assign 3. Video Convert Mode 4. HDMI Out Setup 5. Audio Delay 6. On Screen Display GFExit

Advanced Playback

• Makes more detailed audio playback settings.

Setting the 2ch Direct/Stereo

- Set this when you want to change the speaker settings when the surround mode is set to the 2-channel Direct or Stereo mode.
 - **1** Press the CURSOR △ or ⊽ button to select "Advanced Playback" at the "System Setup Menu", then press the ENTER button.
 - Display the "Advanced Playback" menu screen.



Press the CURSOR \triangle or \forall button to select "2ch Direct / Stereo", then press ENTER button.

5. Advanced Playback © 1. 2ch Direct/Stereo 2. Dolby Digital Setup 3. Auto Surround Mode 4. Manual EQ Setup

Basic:

The "Speaker Setup" settings are displayed.

Exit

Custom:

The speaker settings for the 2-channel direct and stereo modes can be changed.

5—1. 2ch Dire	ct/Stereo	
⊡Setting	:∢ Basic	5-1.2ch Direct/Stereo
		□°Crossover : THX
Front Subwoofer	: Small : Yes	Delay FL : 12.0ft FR : 12.0ft
Subwoofer Mode ₽	: LFE-THX-	

3 Press the CURSOR \triangleleft or \triangleright button to select "Custom".

5-1. 2ch Dire	ct/Stereo
⊡Setting	:∢Custom ▶
Front Subwoofer	: ∢ <u>Sma </u>) : ∢Yes →
Subwoofer Mode	: «LFE-THX-»

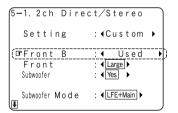


Press the **CURSOR** \triangle or ∇ button to select the item, then press **CURSOR** \triangleleft or \triangleright button to set.

* For a description of the settings for the different items, see pages 125 and 131.

Press the ENTER button to enter the setting.
The "Advanced Playback" menu reappears.

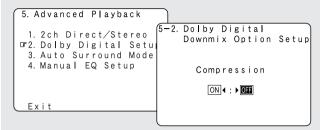
- □ Setting the front B speakers when the surround mode is set to the 2-channel Direct or Stereo
- When "Front B" is selected at "Power Amp Assign" and "Custom" is selected at this setting, the "Front B" setting is displayed.
- * To play signals from the Front B speaker when in the 2channel Direct or Stereo mode, set "Used".



Setting the Dolby Digital Setup

- Sets the down-mixing method when not using a center speaker or surround speakers.
- Press the CURSOR △ or ▽ button to select "Dolby Digital Setup" at the "Advanced Playback" menu, then press the ENTER button.

 Display the "Dolby Digital Setup" screen.



Press the **CURSOR** \triangleleft or \triangleright button to select "ON" if you want to use the Compression, "OFF" if you do not want to use it.

ON:

The dynamic range is compressed automatically according to the combination of speakers being used.

OFF:

The dynamic range is not compressed.

- Set "Compression" to "ON" if it seems that sound is distorted because the input level exceeds the allowable input for the front speakers.
- When a center speaker or surround speakers are not connected, the sounds in those channels are directed to the front speakers.

Press the ENTER button to enter the setting.

• The "Advanced Playback" menu reappears.

Setting the Auto Surround Mode

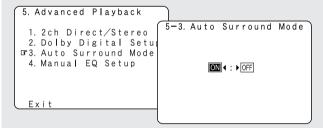
• The surround mode used at last for the four types of input signals shown below is stored in the memory, and the signal is automatically played with that surround mode the next time it is input.

Note that the surround mode setting is also stored separately for the different input sources.

- ① Analog and PCM 2-channel signals (STEREO)
- 2-channel signals of Dolby Digital, DTS or other multichannel format (DOLBY PLIIx cinema)
- ③ Multi-channel signals of Dolby Digital, DTS or other multi-channel format (DOLBY/DTS SURROUND)
- ④ PCM and DSD multi-channel signals other than Dolby Digital and DTS (MULTI CH IN)
- * Default settings are indicated in ().
- * During playback in the PURE DIRECT mode, the surround mode does not change even if the input signal is changed.

1 Press the CURSOR \triangle or ∇ button to select "Auto Surround Mode" at the "Advanced Playback" menu, then press the ENTER button.

• Display the "Auto Surround Mode" screen.



- **2** Press the **CURSOR** *⊲* or *▷* button to select "ON" if you want to use the auto surround mode, "OFF" if you do not want to use it.
- 3

Press the ENTER button to enter the setting.

• The "Advanced Playback" menu reappears.

6

 The various settings applied in the auto surround mode can be checked via the on screen display. Simply press the **ON** SCREEN button (1977) page 51, 52).

(Auto Surround Mode <u>CD</u>)
ANALOG
2ch : STEREO
Multich: MULTI CH IN
DIGITAL
2ch:DOLBY PLIIx cinema
5. 1ch:DOLBY/DTS SURROUND
(OSD-4)

Setting the Manual EQ Setup

- Allows you to adjust the tonal quality of the various speakers (except the subwoofer) while listening to a music source.
- Press the CURSOR △ or ▽ button to select "Manual EQ Setup" at the "Advanced Playback" menu, then press the ENTER button.
 • Display the "Manual EQ" screen.

5. Advanced Playback]
1. 2ch Direct/Stereo	5-4. Manual EQ
2. Dolby Digital Setu 3. Auto Surround Mode ©r4. Manual EQ Setup	Default Yes∢ Base Curve Copy∢
	⊡rAdjust CH ∢L∕R CH ▶
Exit	
	Exit ,

Press the CURSOR *⊲* or *▷* button to select the
adjustment mode, then press the ENTER button.

All CH:

All channels can be adjusted simultaneously.

L/R CH:

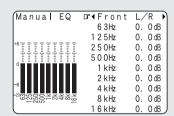
The left and right channels of the pair of speakers can be adjusted simultaneously.

Each CH:

The channels can be adjusted separately.

Press the **CURSOR** \triangleleft or \triangleright button to select the speaker to be set.

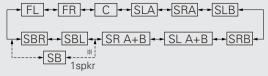
Example: When "L/R CH" is selected.



- * The display changes as follows.
 - ① Select the "L/R CH"

FL/FR	→ C -	→SLA/SRA
SBL/SBR	SL/SR A+B	→SLB/SRB

② Select the "Each CH"



- When the surround back speaker setting is set to "1spkr" at "Speaker Configuration", this is set to "SB".
- ③ Select the "All CH"
 - In this case, speaker selection is not performed.
- * If a value is already set for the FL channel, the data stored for the FL channel is displayed.

Press the **CURSOR** \triangle or \bigtriangledown button to select the frequency, then press the **CURSOR** \triangleleft or \triangleright button to adjust the gain level.

※ Each frequency can be adjusted the range from −20 dB to +6 dB in 0.5 dB step.

Manual EQ	Front	L/R
ſ	6 3Hz ◀	0. 0dB▶
	1 2 5Hz	0. 0 dB
+6	2 5 0Hz	0. 0 dB
	5 0 0Hz	0. 0 dB
	1 kHz	0. 0 dB
	2 kHz	0. 0 dB
-6	4 kHz	0. 0 dB
16300 16kl	8 kHz	0. 0 dB
	16 kHz	0.0dB

P

Press the ENTER button to enter the setting.

• The "Manual EQ" screen reappears.

GExit

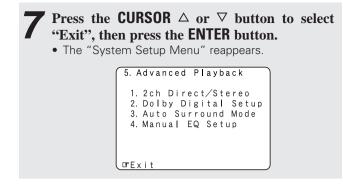
6

- Press the **CURSOR** \triangle or ∇ button to select "Exit", then press the **ENTER** button.
- The "Advanced Playback" menu reappears.

5-4. Manual EQ Default Yes∢ Base Curve Copy∢ Adjust CH ∢L∕R CH ♪

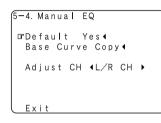
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Advanced Setup - Part 1



6

- "Base Curve Copy" is displayed after performing the Auto Setup.
- To restore the settings to their defaults, select "Default Yes ◀", then press the **CURSOR** < button.



- □ Procedure for copying the "Flat" correction curve
- **1** Press the CURSOR △ button to select "Base Curve Copy", then press the CURSOR ⊲ button.

5-4. Manual EQ	
Default Yes↓ ⊡"Base Curve Copy↓	5-4. Manual EQ
Adjust CH ∢L∕R CH ▶	Curve: -Flat-
	B°Base Curve Copy? Yes∢:▶[No
Exit	
	Ĺ



5-4. Manual EQ Curve: -Flat-Base Curve Copy? ଫ**ƳᲚS**∢:≯No



Press the **ENTER** button to enter the setting.

• The "Manual EQ" screen reappears.

```
(5-4. Manual EQ (<u>-Flat</u>)
Default Yes↓
Base Curve Copy↓
⊡Adjust CH ↓L/R CH ↓
Exit
```

* The type of the copied correction curve is displayed in the upper right of this screen.



• If the "Auto Setup" procedure has not been performed, this item is not displayed.

Option Setup

• Make other expert settings.

Setting the Channel Setup

• With this setting it is possible to change the number of channels played in the different zones according to the purpose.

This configures the AVR-4806CI according to whether or not you have surround "B" speakers connected, and whether or not you have surround back (SB) speaker(s) connected.

The number of channels output from the pre-out terminals exclusively for ZONE2 and 3 can be set to "Mono" or "Stereo" according to the method of playback in the various multi-zones.

* Adjustments made in this section will have an effect on the various "Power Amp Assign" setting options (page 116, 117).

Press the CURSOR \triangle or \bigtriangledown button to select "Option Setup" at the "System Setup Menu", then press the ENTER button.

• Display the "Option Setup" menu screen.

System Setup Menu 1. Auto Setup/Room EQ 2. Speaker Setup 3. Audio Input Setup 4. Video Setup 5. Advanced Playback GP6. Option Setup 7. Network Setup Exit	6. Option Setup 2. Power Amp Assign 3. Volume Control 4. Trigger Out 5. Zone2/3 Tone/Ch Lev. 6. Digital Out Assign 7. Setup Memory/Lock Fvit
---	---

2 Press the CURSOR \triangle or \bigtriangledown button to select "Channel Setup", then press the ENTER button.

• Display the "Channel Setup" screen.

6. Option Setup		
CP1. Channel Setup 2. Power Amp Assign 3. Volume Control 4. Trigger Out 5. Zone2/3 Tone/Ch Le 6. Digital Out Assign 7. Setup Memory/Lock Exit	 Setup Used 2sp Stereo Stereo	

3 Press the CURSOR \triangle or \bigtriangledown button to select the zone, then press the CURSOR \triangleleft or \triangleright button to select the channel setting.

Main Zone:

• Surr. B:

Not Used:

Select if you do not have speakers connected to Surround "B".

Used:

Select if you have speakers connected to Surround "B".

• S. Back:

2sp:

Select if you have a pair of surround back speakers connected (SBL & SBR).

1sp:

Select if you have one surround back speaker connected to SBL.

Not Used:

Select if you do not have surround back speaker(s).

Zone2:

• Stereo:

Select for stereo playback in ZONE2 (two channels). • Mono:

Select for monaural playback in ZONE2 (one channel).

Zone3:

Stereo:

Select for stereo playback in ZONE3 (two channels).

Mono: Select for monaural playback in ZONE3 (one channel).

If "Mono" is selected for ZONE2 or ZONE3, monaural (single channel) sound is output from both of the ZONE2 or ZONE3 left and right channels pre-amp output terminals.

6-1. Channel	Setup
Main Zone ⊡rSurr.B S.Back	∢Not Used⊧ ∢ 1sp ⊧
Z o n e 2 Z o n e 3	Mono ► Mono ►
	J



Press the ENTER button to enter the setting.

• The "Option Setup" menu reappears.

Setting the Power Amplifier Assignment

- AVR-4806CI's power amplifiers for seven channels (except the front channel), can be assigned to any channels in the MAIN ZONE, ZONE2 or ZONE3 and output to the speakers. In this way, power amplifiers not being used in the MAIN ZONE can be assigned for multi-zone use, the front speakers can be connected with a "Bi-Amp", etc., so you can create the desired speaker system.
- * The available power amplifier channels that can be reassigned may differ, according to settings previously made in the "Channel Setup" menu (127) page 115).

Press the **CURSOR** \triangle or \bigtriangledown button to select "Power Amp Assign" at the "Option Setup" menu, then press the **ENTER** button.

• Display the "Power Amp Assign" screen.

6. Option Setup	
1. Channel Setup © 2. Power Amp Assign	6-2. Power Amp Assign
3. Volume Control 4. Trigger Out 5. Zone2/3 Tone/Ch Lev 6. Digital Out Assign 7. Setup Memory/Lock Exit	Front : Front Center : Center Surr.A : Surr.A Surr.B : Surr.B GrS.Back :∢S Back ▶

Press the CURSOR △ or ▽ button to select the power amplifier to be assigned, then press the CURSOR < or ▷ button to select which channel to assigned the amplifier to.

Center:

If no center speaker is connected in the main room, the center speaker power amplifier channel can be assigned to either ZONE2 or ZONE3 if set to "Mono" at "Channel Setup".

• ZONE2:

The second zone's mono output is provided by the center speaker's power amplifier.

• ZONE3:

The third zone's mono output is provided by the center speaker's power amplifier.

• ---:

No signals are output from the center speaker's power amplifier channel.

Surr. A:

The Surround A power amplifier channels can be assigned if Surround B is not activated in the main room (MAIN ZONE).

• Front:

This provides a Bi-Amp mode for the two main front speakers, replicating the front left and front right amplifier channels' outputs.

• Front B:

The surround A power amplifier channels can be used to provide a second set of stereo outputs that match the front left and right speakers, providing a Front B option for stereo sound in another location (CP page 111).

• ZONE2:

This mode assigns the Surround A amplifier channels to provide ZONE2 speaker-level outputs from the Surround A speaker terminals, with the option of monaural or stereo operation depending on the "Channel Setup" setting.

• ZONE3:

This mode assigns the Surround A amplifier channels to provide ZONE3 speaker-level outputs from the Surround A speaker terminals, with the option of monaural or stereo operation depending on the "Channel Setup" setting.

• - - -:

No signals are output from the Surround A speaker terminals.

Surr. B:

The Surround B amplifier channels can be reassigned if they are not being used in the main room, and the Surround A amplifier channels are assigned to either the surround channels or to the front channels.

• Front B:

This mode sets the Surround B amplifier channels to drive a second set of stereo outputs that match the front left and right speakers, providing a Front B option for stereo sound in another location (

• - - -:

No signals are output from the Surround B speaker terminals.

S. Back:

If no surround back speakers are used in the main room, their amplifier channels can be assigned for other uses, or one of the two channels can drive one surround back speaker in the main room, while the other channel can drive a monaural speaker in another zone.

• Front:

This provides a bi-amp mode for the two main front speakers, replicating the front left and front right amplifier channels' outputs.

• Front B:

Both surround back power amplifier channels can be used to provide a second set of stereo outputs that match the front left and right speakers, providing a Front B option for stereo sound in another location (P page 111).

• ZONE2:

This mode assigns the Surround Back amplifier channels to provide ZONE2 speaker-level outputs from the Surround Back speaker terminals, with the option of monaural or stereo operation depending on the "Channel Setup" setting.

• ZONE3:

This mode assigns the Surround Back amplifier channels to provide ZONE3 speaker-level outputs from the Surround Back speaker terminals, with the option of monaural or stereo operation depending on the "Channel Setup" setting.

• SB/Z2:

When only one surround back speaker is used in the main room (connected to the SBL speaker terminals), the surround back right amplifier channel can be used to provide monaural output to a speaker located in ZONE2.

• SB/Z3:

When only one surround back speaker is used in the main room (connected to the SBL speaker terminals), the surround back right amplifier channel can be used to provide monaural output to a speaker located in ZONE3.

• Z2/Z3:

When no surround back speakers are used in the main room, this mode provides monaural sound to a speaker in ZONE2 connected to the SBL speaker terminals, with monaural sound to a speaker in ZONE3 connected to the SBR speaker terminals.

• SB/- - -:

Only the Surround Back Left speaker terminals are active.

• - - -:

Both Surround Back speaker terminals are inactive.

6-2.	Power	Amp	Assig	n	
Fror Cent Surr Surr S. Ba	er . A . B	: C : S : S	ront enter urr. A urr. B ONE2	Þ	

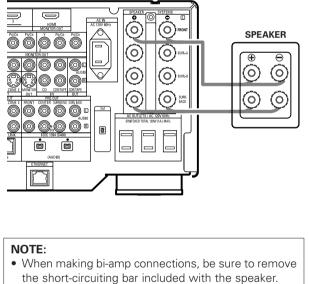
Press the ENTER button to enter the setting.
The "Option Setup" menu reappears.

- The "SB/Z2", "SB/Z3" and "SB/- --" modes can only be selected when the surround back speaker configuration is set to "1spkr".
- The "Z2/Z3" mode can only be selected if the playback channels are configured as monaural ("Mono") in the "Channel Setup" menu.

Front Bi-Amp connections

Certain loudspeakers are equipped with two sets of input terminals, for bi-amplification. The AVR-4806CI Amp Assign mode allows you to power bi-amp-capable speakers with two amplifier channels. Be sure to consult the operating instructions of your bi-amp-capable speakers for further information before proceeding.

AVR-4806CI



Setting the Volume Control

• Set the upper limit for the volume, the volume level when the power is turned on, and the volume level when the mute mode is set for the different zones.

1 Press the CURSOR \triangle or ∇ button to select "Volume Control" at the "Option Setup" menu, then press the ENTER button.

• Display the "Volume Control" screen.

6. Option Setup
1. Channel Setup
2. Power Amp Assign
⊡r3.Volume Control
4. Trigger Out
5. Zone2/3 Tone/Ch Lev.
6.Digital Out Assign
7. Setup Memory∕Lock
Exit

6-3. Volume Control ŒMain Vol. Limit∢ OFF (☐ 6-3. Volume Control

	Lev. Lev. •	.AS]	r z o n e z	Vol. Limit∢ P. On Lev. Mute Lev. ∢	OFF ♪ LAST♪	
			Zone3	Vol. Lev. ◀	VAR 🕨	
				Vol. Limit∢	OFF 🕨	
(L		_		P.On Lev.	LAST ▶	
				Muto Lov 4	EIII I	

Press the CURSOR △ or ▽ button to select the desired setting, then press the CURSOR ⊲ or ▷ button to select the parameter.

Volume Limit:

Set the upper limit for the volume for the different zones.

• -20 dB, -10 dB, 0 dB:

The volume cannot be increased above the selected levels.

• OFF:

If you do not want to set a volume limit, select "OFF".

In this case, the volume can be set to the AVR-4806Cl's maximum volume (output) level of +18 dB, which is extremely loud.

Power On Level:

Set the volume that is set when the power is turned on for the different zones.

You can adjust the volume level within the range of -80 to +18 dB in steps of 1.0 dB.

• --- (Mute)

The volume is always muted when the power is turned on.

• LAST

The volume set when the AVR-4806Cl was last used is stored in the memory and set when the power is turned on.

Mute Level:

Set the volume attenuation level when the mute mode is set for the different zones.

• FULL

The volume is fully muted.

• -40 dB

The volume is lowered 40 dB from the current level.

• -20 dB

The volume is lowered 20 dB from the current level.

Volume Level:

Set whether to fix the output level for the different zones or make it variable.

• Variable

The level can be adjusted freely using buttons on the remote control unit.

• -40 dB, 0 dB

The output level is fixed at the set level and the volume can no longer be adjusted.

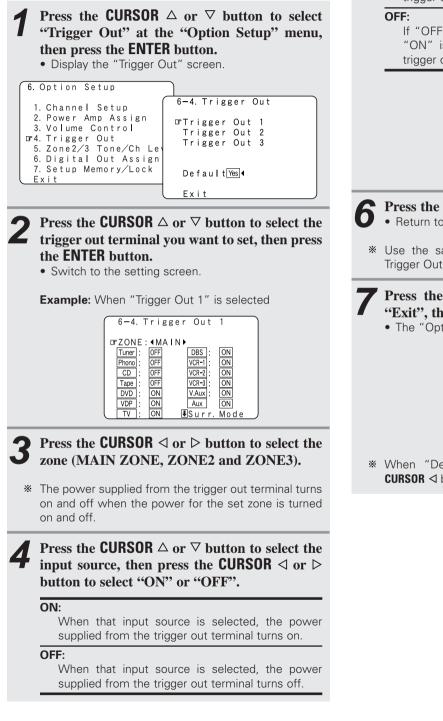
Press the ENTER button to enter the setting.

• The "Option Setup" menu reappears.

- For ZONE2 and ZONE3, the "Volume Limit" and "Power On Level" can be set when "Variable" is selected for "Volume Level".
- When the power amplifier is assigned to either of the ZONE2 and ZONE3 channels at "Power Amp Assign", "-VAR-" (only variable) is displayed and the fixed level cannot be set.

Setting the Trigger Out

- Three 12 V DC Trigger Outputs on the rear panel can be used to control other devices with compatible trigger inputs, such as motorized screens, motorized screen masking, motorized drapes, and other trigger-controlled devices.
- Set the DC output supplied from the trigger out terminals for the various input sources to "ON" or "OFF".



If "MAIN" was selected at step 3:

Press the **CURSOR** \triangle or ∇ button to select the surround mode, then press the **CURSOR** \triangleleft or \triangleright button to select "ON" or "OFF".

ON:

If "ON" is selected when an input source set to "ON" is selected, the power supplied from the trigger out terminal turns on.

If "OFF" is selected when an input source set to "ON" is selected, the power supplied from the trigger out terminal turns off.

THX/DOLBY/DTS CINEMA		
MUSIC	: ON : ON	
GAME WIDE SCREEN	: ON : ON	
7CH STEREO DSP SIMULATION MULTI CH MODE	: ON : ON	

Press the ENTER button.

- Return to the "Trigger Out" screen.
- * Use the same procedure to make the settings for Trigger Out 2, 3.

Press the **CURSOR** \triangle or ∇ button to select "Exit", then press the **ENTER** button.

• The "Option Setup" menu reappears.

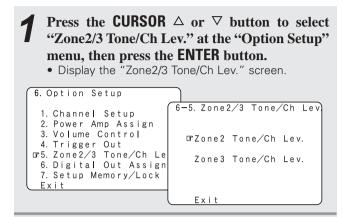
6-4. Trigger Out	
Trigger Out 1 Trigger Out 2 Trigger Out 3	
DefaultYes◀	
ισεxit	

When "Default Yes" is selected, then press the CURSOR < button to reset to the default values.</p>

Advanced Setup – Part 1

ZONE2 and ZONE3 tone control and channel level setting

• Adjust the sound output from ZONE2 and ZONE3.



Press the **CURSOR** △ or \bigtriangledown button to select the zone whose sound you want to adjust (ZONE2, ZONE3), then press the **ENTER** button.

• Switch to the setting screen.

Example: When "Zone2" is selected

6-5. Zone2	Tone/Ch Lev.
⊡rBass Treble	OdB▶OdB▶
HPF	♦ OFF ►
Lch Lev. Rch Lev.	 4 0 d B ▶ 4 0 d B ▶

Press the CURSOR \triangle or \bigtriangledown button to select the item to be set, then press the CURSOR \triangleleft or \triangleright button to adjust the parameter.

Bass:

Adjust the tone for the bass.

Treble:

Adjust the tone for the treble. (The bass or treble sound can be adjusted between -12 dB and +12 dB in steps of 2.0 dB.)

HPF:

Set this to "ON" if your speakers do not have a very strong capacity for producing low bass. Using the high pass filter makes it possible to reduce distortion of the bass sound.

Channel Level:

Set so that the playback level is the same for the left and right channels. (The volume can adjusted between -12 dB and +12 dB in steps of 1.0 dB.)

Press the ENTER button.

• Return to the "Zone2/3 Tone/Ch Lev." screen.

* Use the same procedure to make the settings for ZONE3.



Press the **CURSOR** \triangle or ∇ button to select "Exit", then press the **ENTER** button.

• The "Option Setup" menu reappears.

6-5. Zone2/3 Tone/Ch Lev. Zone2 Tone/Ch Lev. Zone3 Tone/Ch Lev.

☞Exit

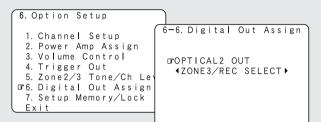
- ø
- The "Channel Level" setting is only possible when ZONE2 or ZONE3 is set to "Stereo" in the "Channel Setup" menu.

Setting the Digital Out Assignment

 The optical digital output terminals on the AVR-4806Cl's rear panel (OPTICAL2 to 4 OUT) normally function in association with the ZONE3/REC SELECT mode. With this setting, the OPTICAL 2 OUT terminal can be used in association with the ZONE2 SELECT mode.

1 Press the CURSOR \triangle or ∇ button to select "Digital Out Assign" at the "Option Setup" menu, then press the ENTER button.

• Display the "Digital Out Assign" screen.



Press the CURSOR *⊲* or *▷* button to select whether to associate the OPTICAL2 OUT terminal to the "ZONE3/REC SELECT" or "ZONE2 SELECT" mode.

```
6-6. Digital Out Assign

⊡FOPTICAL2 OUT

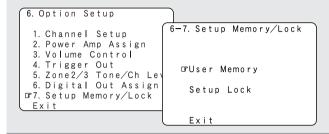
↓ZONE2 SELECT ↓
```

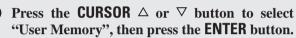
Press the ENTER button to enter the setting.
The "Option Setup" menu reappears.

User Memory

- The currently set settings (system setup, surround parameters, etc.) can be stored in the memory. The stored settings can be called out when needed.
- **1** Press the CURSOR \triangle or \bigtriangledown button to select "Setup Memory / Lock" at the "Option Setup" menu, then press the ENTER button.

• Display the "Setup Memory / Lock" screen.





• Switch to the "User Memory" screen.

6—7. User	Memo r y
⊡ Save	Yes
Exit	

Press the **CURSOR** \triangleleft button to select "Yes".

• About 30 seconds are required for the settings to be stored in the memory.

6—7. User	Memo r y
⊡°Load	Yes 4
Save	Yes 4
Exit	

* Once the settings are stored in the memory, "Load" is displayed and the settings can be loaded.



Press the **CURSOR** \triangle or ∇ button to select "Exit", then press the **ENTER** button.

• Return to the "Setup Memory / Lock" screen.

Advanced Setup – Part 1

Setup Lock

• The system setup settings can be locked so that they cannot be changed easily.

Press the CURSOR △ or ▽ button to select "Setup Lock" at the "Setup Memory / Lock" screen, then press the ENTER button.
• Switch to the "Setup Lock" screen.

- 6-7. Setup Memory/Lock User Memory ☞Setup Lock Exit
- 2 Press the CURSOR *⊲* button to select "ON", to lock the system setup settings, then press the ENTER button.



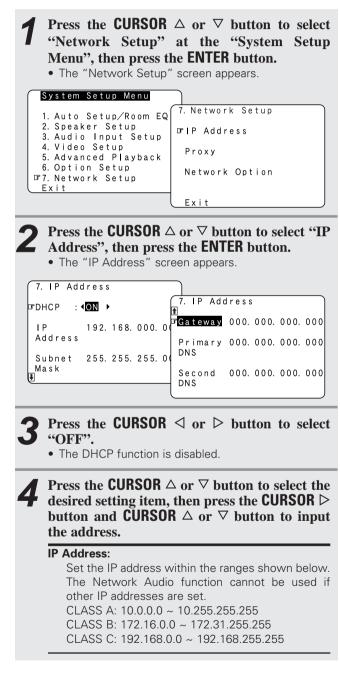
- When the setup lock function is activated, the settings listed below cannot be changed, and "SETUP LOCKED!" is displayed when related buttons are operated.
 - System setup settings
 - Surround parameter settings
 - Tone control settings
 - Channel level settings (including test tones)
 - Room EQ
- To unlock, press the **SYSTEM SETUP** button again and display the "Setup Lock" screen, then select "OFF" and press the **ENTER** button.

Network Setup

- If you are using a broadband router (DHCP function), there is no need to make the settings at "Setting the IP Address" and "Setting the Proxy", since the DHCP function is set to "ON" in the AVR-4806Cl's default settings.
- If the AVR-4806Cl is being used connected to a network without the DHCP function, the network settings must be made. In this case, some knowledge of networks is required.

Setting the IP Address

• Set this when "OFF" is set for "DHCP".



Subnet Mask:

When connecting an xDSL modem or terminal adapter directly to the AVR-4806Cl, input the subnet mask indicated in the documentation supplied by your provider. Normally input 255.255.255.0.

Gateway:

When connected to a gateway (router), input its IP address.

Primary DNS / Secondary DNS:

If there is only one DNS address indicated in the documentation supplied by your provider, input it at "Primary DNS". If there are two or more DNS addresses, input the first one at "Second DNS".

Press the ENTER button to enter the setting.

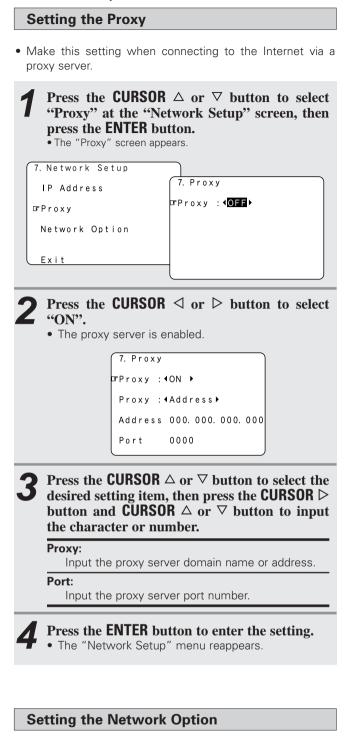
• The "IP Address" menu reappears.

• DHCP (Dynamic Host Configuration Protocol): These are systems by which the IP address and other network settings are automatically set for the AVR-4806CI, computer, broadband router and network devices.

• DNS (Domain Name System):

This is a system for converting the domain names used when browsing Internet sites (for example, "www.denon.jp") into the IP addresses actually used for communications (for example, "202.221.192.106").

Advanced Setup – Part 1



Setting the Power Saving

• When not using the AVR-4806CI connected in a network, set "ON" to reduce the power consumption when in the standby mode.

Set "OFF" when using the AVR-4806CI connected in a network.

- Press the **CURSOR** \triangle or ∇ button to select "Network Option" at the "Network Setup" screen, then press the ENTER button.
 - The "Network Option" screen appears.

7. Network Setup	
IP Address	7. Network Option
Proxy	☞Standby Mode ◆ON ▶ Power Saving
GRNetwork Option	PC Language:
Exit	*MAC Address: 0005cd-10d901



7. Network Option	٦
⊡Standby Mode •OFF↓ Power Saving	
PC Language: ◀ eng ▶	

Press the ENTER button to enter the setting. • The "Network Setup" menu reappears.

Setting the PC Language

Select according to the language of the computer being used. The languages are indicated with three letters conforming to ISO639-2.

```
Press the CURSOR \triangle or \nabla button to select "PC
Language", Press the CURSOR \triangleleft or \triangleright button
to select PC language.
```

```
7. Network Option
  Standby Mode ◀ON ▸
  Power Saving
☞PC Language:
            eng
```

Press the ENTER button to enter the setting. • The "Network Setup" menu reappears.

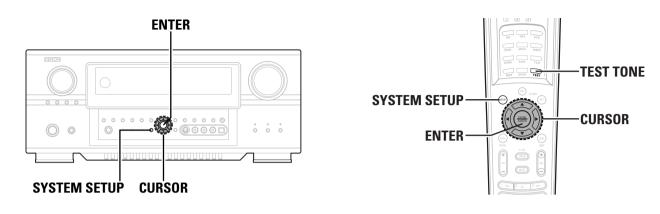
Checking the MAC Address

- The AVR-4806CI's MAC address is displayed.
- The MAC address differs for each set.

_									
$\left[\right]$	7.	Ne	two	r k	Оp	t i	o n		
		St	and	bу	Мo	d e	•	ON	•
		Ροι	we r	S a	a v i	ng			
		PC	La	ngı	Jag	e :			
					•		e n g		•
		°∗M/	٩C	Ado	dre	s s	:		
l		0	005	cd-	-10	d 9	01		
-									

Advanced Setup – Part 2

• This Speaker Setup section describes the procedures to make speaker settings manually (without using the Auto Setup function), as well as to make manual changes to settings that have already been made by the Auto Setup function.



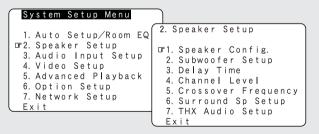
Speaker Setup

- If the "Auto Setup" procedure has already been performed, there is no need to make this setting.
- Perform this setting if you wish to make the settings for your speaker systems manually.

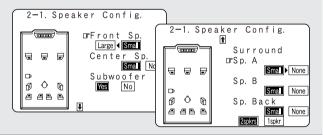
Setting the type of speakers

 The composition of the signals output to each channels and the frequency response are adjusted according to the combination of speakers actually being used.

1	Press the CURSOR \triangle or ∇ button to select
	"Speaker Setup" at the "System Setup Menu",
	then press the ENTER button.
	 Display the "Speaker Setup" menu screen.

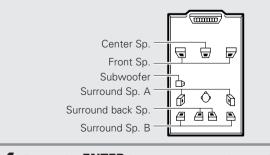


- **2** Press the CURSOR \triangle or \bigtriangledown button to select "Speaker Config.", then press the ENTER button.
 - Display the "Speaker Config." screen.





Press the **CURSOR** \triangle or \bigtriangledown button to select the speaker, then press the **CURSOR** \triangleleft or \triangleright button to select the parameter.



Press the ENTER button to enter the setting.
The "Speaker Setup" menu reappears.

Advanced Setup - Part 2

• Select "Large" or "Small" not according to the actual size of the speaker but according to the speaker's capacity for playing low frequency (bass sound below the frequency set for the Crossover Frequency) signals. If you do not know, try comparing the sound at both settings (setting the volume to a level low enough so as not to damage the speakers) to determine the proper setting.

Parameters

Large:

Select this when using speakers that can fully reproduce deep bass well below 80 Hz.

Small:

Select this when using speakers that are not capable of handling deep bass well below 80 Hz. Most home theater main and surround speakers perform best when configured as SMALL. Deep bass content in any channel with a SMALL speaker is routed to the subwoofer(s).

None:

Select this when no speakers are installed.

Yes / No:

Select "Yes" when a subwoofer is installed, "No" when a subwoofer is not installed.

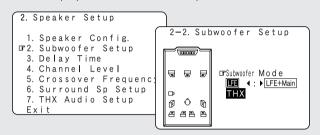
2spkrs / 1spkr:

Select the number of speakers to be used for the surround back channel.

- * A subwoofer with sufficient low frequency playback capability can better handle deep bass than most main and surround speakers, and the system's overall performance will be greatly enhanced when SMALL is set for the main (front) and surround speakers.
- To take full advantage of the performance of the Home THX certified speaker systems, set the front, center and surround speaker size parameters to "Small" and the subwoofer to "Yes".
- For the majority of speaker system configurations, using the SMALL setting for all main and surround speakers and connected subwoofer(s) set to ON will yield the best results.
- When "Front" is set to "Small", "Subwoofer" is automatically set to "Yes", and when "Subwoofer" is set to "No", "Front" is automatically set to "Large".

Setting the low frequency distribution

- Set the subwoofer mode according to the speaker system being used.
- Select the play mode that provides bass reproduction with body.
- **1** Press the CURSOR \triangle or \bigtriangledown button to select "Subwoofer Setup" at the "Speaker Setup" menu, then press the ENTER button.
 - Display the "Subwoofer Setup" screen.



2 Press the CURSOR \triangleleft or \triangleright button to select the setting.

LFE-THX-:

For any channel(s) that are set to LARGE, low frequencies in that channel's corresponding source are directed to that loudspeaker only. Low frequencies that are directed to the subwoofer(s) are from the program source LFE channel, and from other channels where the speakers are set to SMALL. THX recommends this mode so that bass interference is less likely to occur in the room.

LFE+Main:

Low frequencies from speaker channels that have been set to LARGE are reproduced from those speakers as well as from the subwoofer(s). Depending upon the characteristics of the LARGE main speakers, this mode may provide a more even low frequency response throughout the listening room.

2

Press the ENTER button to enter the setting.

• The "Speaker Setup" menu reappears.

Assignment of low frequency signal range

• The only signals produced from the subwoofer channel are LFE signals (during playback of Dolby Digital or DTS signals) and the low frequency signal range of channels set to "Small" in the setup menu. The low frequency signal range of channels set to "Large" are produced from those channels.

Subwoofer Setup

- The subwoofer mode setting is only valid when and "Yes" is set for the subwoofer in the "Speaker Configuration" settings (127) page 125, 126).
- When the input signal is analog or a PCM signal not including LFE signals, if "LFE-THX-" is selected, the low frequency component is not output from the subwoofer. To output the subwoofer channel, select "LFE+Main".

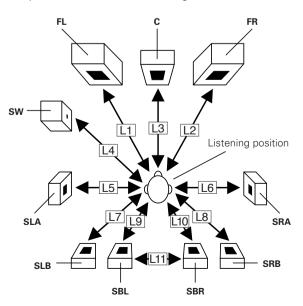
Setting the Delay Time

- Input the distance between the listening position and the different speakers to set the delay time for the surround mode.
- Two surround back speakers are required to use the THX Ultra2 Cinema, THX Music mode and THX Games mode. Set the surround back speakers so that the distance to the listening position is the same for both the left and right speakers.

It is also recommended that the deviations of the distance from the listening position to L and R channel speakers (front left (FL) and front right (FR), surround left (SL) and surround right (SR), surround back left (SBL) and surround back right (SBR)) is less than 2 ft (60 cm).

Preparations:

Measure the distances between the listening position and the speakers (L1 to L11 on the diagram at the below).



- **1** Press the CURSOR \triangle or ∇ button to select "Delay Time" at the "Speaker Setup" menu, then press the ENTER button.
 - Display the "Delay Time" screen.

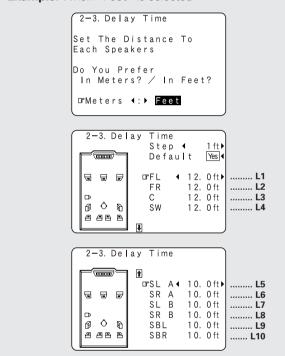
ĺ	2. Speaker Setup	
	1. Speaker Config. 2. Subwoofer Setup G [*] 3. Delay Time	2-3. Delay Time Set The Distance To Each Speakers
	4. Channel Level 5. Crossover Frequency 6. Surround Sp Setup 7. THX Audio Setup	
1	Exit	⊡rMeters ∢:▶ Feet

) Pi

Press the **CURSOR** \triangleleft or \triangleright button to select the desired unit, "Meters" or "Feet".

• The "Delay Time" screen appears automatically.

Example: When "Feet" is selected

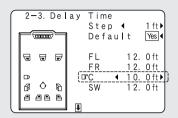




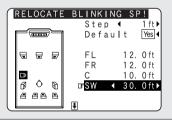
Press the **CURSOR** \triangle or ∇ button to select the speaker to be set.

Press the **CURSOR** \triangleleft or \triangleright button to set the distance between the center speaker and listening position.

Example: When the distance is set to 10 feet for the center speaker



- * The distance changes in units of 1 foot (0.1 meters) or 0.1 foot (0.01 meters) each time the button is pressed. Select the value closest to the measured distance.
- * When "Step" is selected, you can select the unit of "1 ft (0.1 m)" or "0.1 ft (0.01 m)".
- * When "Default Yes" is selected, then press the **CURSOR** < > button to reset to the default values.
- * Please note that the difference of distance for every speaker should be 20 ft (6.0 m) or less. If you set an invalid distance, a CAUTION notice, such as screen right will appear. In this case, please relocate the blinking speaker(s) so that its distance is no larger than the value shown in highlighted line.



Press the **ENTER** button to enter the setting. • The "Speaker Setup" menu reappears.

* The AVR-4806CI automatically sets the optimum surround delay time for the listening room.

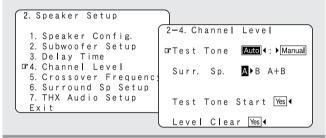
Setting the Channel Level

- Use this setting to adjust so that the playback level between the different channels is equal.
- From the listening position, listen to the test tones produced from the speakers to adjust the level.
- The level of each channel should be adjusted to 75 dB (Cweighted, slow meter mode) on a sound level meter at the listening position.

If a sound level meter is not available adjust the channels by ear so the sound levels are the same. Because adjusting the subwoofer level test tone by ear is difficult, use a well known music selection and adjust for natural balance.

Press the **CURSOR** \triangle or ∇ button to select "Channel Level" at the "Speaker Setup" menu, then press the ENTER button.

• Display the "Channel Level" screen.



Press the **CURSOR** \triangleleft or \triangleright button to select "Auto" or "Manual".

Auto:

Adjust the level while listening to the test tones produced automatically from each speaker. Test tones are automatically emitted from each speaker.

Manual:

Select the speaker from which you want to produce the test tone to adjust the level.

Example: When the "Auto" mode is selected

2-4. Channel Level [⊡rTest Tone <mark>|Auto</mark>]∢:▶[Manual] Surr. Sp. A▶B A+B Test Tone Start Yes◀ Level Clear Yes∢

Press the **CURSOR** \triangle or \bigtriangledown button to select "Surr. Sp.", then press the **CURSOR** \triangleleft or \triangleright button to select the surround speaker(s) from which you want to produce the test tone (A, B or A+B).

Surr. Sp. : A

Adjusts the balance of the playback level between the channels when using surround speaker A.

Surr. Sp. : B

Adjusts the balance of the playback level between the channels when using surround speaker B.

Surr. Sp. : A + B

Adjusts the balance of the playback level between the channels when using surround speakers A and B at the same time.

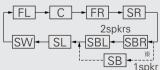
* The "Surr. Sp." can only be selected when both surround speakers A and B have been selected at the System Setup Menu (when both A and B have been set to "Large" or "Small").

Press the **CURSOR** \triangle or \bigtriangledown button to select "Test Tone Start", then press the **CURSOR** \triangleleft button to select "Yes".



When "Auto" mode is selected:

- Press the CURSOR *⊲* or *▷* button to adjust all
 the speakers to the same volume.
 - The test tones are emitted from each speaker in the following order, at 4 seconds intervals the first time and second time around, 2 seconds intervals the third time around and on:



When the surround back speaker setting is set to "1spkr" for "Speaker Configuration", this is set to "SB". **Example:** When the volume is set to -11.5 dB while the test tone is being produced from the Front L ch speaker

ſŢ	<u>as</u> t	· T	one	Auto		
' I'			_	Huto		
	F.		\sim	GFL	∢ −11.	5dB≯
				С	0.	0 dB
	G	∎	₽	FR	0.	0 dB
				SR	0.	0 dB
	₽			SBR	0.	0 dB
	Ø	Ô	Ð	SBL	0.	0 dB
		8 B		SL	0.	0 dB
U	L			SW	0.	0 dB

- * The volume can be adjusted between -12 dB and +12 dB in units of 0.5 dB.
- When "Manual" mode is selected:

Press the CURSOR \triangle or ∇ button to select the

-2 speaker, then press the CURSOR ⊲ or ▷ button to adjust all the speakers to the same volume.

Example: "Manual" mode is selected.

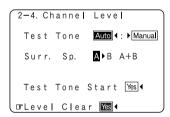
Test Tone	Manual		
	GFL	∢ −11.	5 dB ▶
	С	0.	0 dB
	FR	0.	0 dB
	SR	0.	0 dB
D	SBR	0.	0 dB
600	SBL	0.	0 dB
8 B	SL	0.	0 dB
	SW	0.	0 dB

?]

Press the ENTER button to enter the setting.

• The "Channel Level" screen reappears.

• To cancel the settings, press the **CURSOR** < button to select "Level Clear" and "Yes" on the "Channel Level" screen, then make the settings again.



Advanced Setup – Part 2

- When adjusting the level of an active subwoofer system, you may also need to adjust the subwoofer's own volume control.
- When you adjust the channel levels while in the SYSTEM SETUP CHANNEL LEVEL mode, the channel level adjustments made will affect all surround modes. Consider this mode a Master Channel Level adjustment mode.
- After you have completed the SYSTEM SETUP CHANNEL LEVEL adjustments, you can then activate the individual surround modes and adjust channel levels that will be remembered for each of those modes. Then, whenever you activate a particular surround sound mode, your preferred channel level adjustments for just that mode will be recalled. Check the instructions for adjusting channel levels within each surround mode (127) page 64, 65).
- You can adjust the channel levels for each of the following surround modes: PURE DIRECT/DIRECT, STEREO, DOLBY/DTS SURROUND, HOME THX CINEMA, 7CH STEREO, WIDE SCREEN, SUPER STADIUM, ROCK ARENA, JAZZ CLUB, CLASSIC CONCERT, MONO MOVIE, VIDEO GAME and MATRIX.
- When using either surround speakers A or B, or when using surround speakers A and B at the same time, be sure to adjust the balance of playback levels between each channel for the various selections of "A", "B" and "A + B".

□ Adjusting the test tone using the remote control unit

- As described below, this adjustment can be accomplished via the with remote control unit.
- Adjusting with the remote control unit using the test tones is only possible in the "Auto" mode and only effective in the STANDARD (DOLBY/DTS SURROUND) and HOME THX CINEMA modes. The adjusted levels for the different modes are automatically stored in the memory.

Press the **TEST TONE** button.

• Test tones are output from the different speakers.

2 Press the **CURSOR** *⊲* or *▷* button to adjust the channel level so that the volume of the test tones is the same for all the speakers.

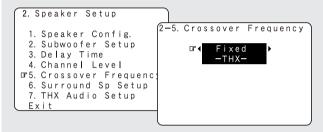
After completing the adjustment, press the **TEST TONE** button again.

Setting the Crossover Frequency

- Set the crossover frequency according to the low frequency response characteristics of the various (front, center, surround and surround back) speaker systems.
- If a connected main or surround loudspeaker has a specified –3 dB low frequency response rolloff, adjust the crossover frequency for that speaker to match the specified low frequency response limit e.g. 80 Hz.
- When a speaker is set to SMALL, low frequencies in that channel that are below the crossover frequency are directed to the system's subwoofer(s), or to speakers that are set to LARGE, for systems with no connected subwoofer(s).

Press the CURSOR \triangle or ∇ button to select "Crossover Frequency" at the "Speaker Setup" menu, then press the ENTER button.

• Display the "Crossover Frequency" screen.



Press the CURSOR \triangleleft or \triangleright button to select the frequency.

FIXED-THX-:

Set to the THX rated 80 Hz crossover frequency.

VARIABLE 40, 60, 80, 90, 100, 110, 120, 150, 200, 250 Hz:

Set as desired according to your speakers' bass playback ability.

Advanced

The crossover frequency can be set individually for the different speakers.

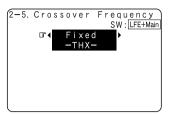


Press the ENTER button to enter the setting.

• The "Speaker Setup" menu reappears.



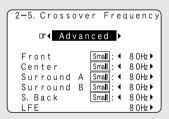
 If "LFE+Main" is set at "Subwoofer Setup", "SW:LFE+Main" (Pp page 126, 127) is displayed at the top right of the screen.



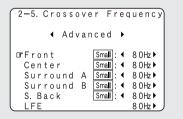
- Please set all THX Certified speakers to small and the crossover to 80 Hz.
- We recommend using with the crossover frequency set to "FIXED-THX-", but depending on the speaker, setting it to a different frequency may improve frequency response near the crossover frequency.
- The crossover frequency mode is valid only when subwoofer is set to ON, and when one or more speakers are set to SMALL, as described in section "Speaker Configuration" settings (ICP page 125, 126).

Setting the crossover frequency individually for the different channels

1 Press the **CURSOR** *⊲* or *▷* button to select "Advanced" at the "Crossover Frequency" screen.



Press the CURSOR \triangle or ∇ button to select the speaker to be set.

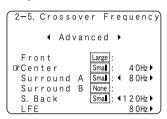


3 Press the CURSOR \triangleleft or \triangleright button to select the frequency.

2-5. Cross	over Frequency
▲ Ad	vanced 🕨
GFront Center Surround Surround S. Back LFE	



• If "LFE–THX–" is selected at "Subwoofer Setup", the frequencies can only be selected for speakers set to "Small" at "Speaker Configuration".



• If "LFE+Main" is set at "Subwoofer Setup", the frequencies can be selected regardless of the speaker size setting.

Selecting the Surround Speakers for the different surround modes

- This menu is displayed when both surround speakers A and B are used.
- At this screen preset the surround speakers to be used in each surround modes.
- **1** Press the CURSOR \triangle or ∇ button to select "Surround Sp Setup" at the "Speaker Setup" menu, then press the ENTER button.

• Display the "Surround Sp Setup" screen.

2. Speaker Setup		
 Speaker Config. Subwoofer Setup Delay Time Channel Level Crossover Frequenc Surround Sp Setup THX Audio Setup Exit 	2-6. Surround Sp THX/DOLBY/DTS GINEMA MUSIC GAME WIDE SCREEN 7CH STEREO DSP SIMULATION MULTI CH MODE	Setup A B A+B A B A+B



Press the **CURSOR** \triangle or \bigtriangledown button to select the surround mode, then press the **CURSOR** \triangleleft or \triangleright button to select the surround speaker.

A:

B:

When surround speakers A is used.

When surround speakers B is used.

A + B:

When both surround speakers A and B are used.

Press the ENTER button to enter the setting.The "Speaker Setup" menu reappears.

6

- For the "WIDE SCREEN" and "7CH STEREO" DSP simulation modes, the surround speakers can be set separately.
- □ About Speaker type setting when using both surround speakers A and B
- If "Small" is set for either surround speakers A or B, the output is the same as when "Small" is set for both A and B.

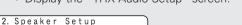
Settings the THX Audio Setup

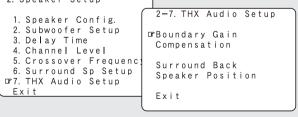
□ Settings for using a THX Ultra2 compatible subwoofer

 Make these settings when "Yes" is selected for the subwoofer in the "Speaker Configuration" settings. This option is not available when "No" is selected (P) page 125, 126).

Press the CURSOR △ or ▽ button to select "THX Audio Setup" at the "Speaker Setup" menu, then press the ENTER button.

Display the "THX Audio Setup" screen.





2 Press the CURSOR \triangle or \bigtriangledown button to select "Boundary Gain Compensation", then press the ENTER button.

Press the **CURSOR** *⊲* or *▷* button, when using a THX Ultra2 compatible subwoofer or subwoofer that frequency response extends to 20 Hz, select "Yes". Otherwise select "No".

2-7. THX Audio Setup
Do You Have
☞A THX Ultra2 Subwoofer
(Or Sub That
Extends <u>To</u> 20Hz)?
Yes ◀ : ▶ NO

* When "Yes" is selected:

"Boundary Gain Compensation" can be selected and the compensation set to "OFF".

* If the bass sound seems too strong:

Set "Boundary Gain Compensation" to "ON". This activates a filter that gently reduces very deep bass below 55 Hz to provide the flattest overall deep bass response. Select "ON" or "OFF" according to how strong you prefer the deep bass response to be.

2-7. THX Audio Setup Do You Have □ A THX U∣tra2 Subwoofer (Or Sub That Extends To 20Hz)? Yes ◀ : ▶ No Boundary Gain Compensation ON∢: ► OFF



Press the ENTER button.

• Return to the "THX Audio Setup" screen.

□ Surround Back Speaker Position Settings

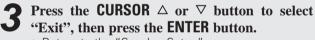
- When two surround back speakers have been set in "Speaker Configuration" (127 page 125, 126), set the distance of the speakers. This option is not available when "1spkr" is selected.
- This setting is necessary to achieve the optimum effect in the THX Surround EX, THX Ultra2 Cinema, THX Music mode and THX Games mode. It is recommended that SBL/SBR speakers are placed together as close as possible.

```
1 Press the CURSOR △ or ⊽ button to select
"Surround Back Speaker Position" at the
"THX Audio Setup" screen, then press the
ENTER button.
```

```
2-7. THX Audio Setup
Boundary Gain
Compensation
GRUTTOUND Back
Speaker Position
Exit
```

- 2 Press the CURSOR *⊲* or *▷* button to select the settings according to the distances of the two surround back speakers (☞ page 127 : L11), then press the ENTER button.
 - Return to the "THX Audio Setup" screen.

2-7. T	'HX Auc	lio Set	up
		listanc SBL/SBF	
•	Oft to (Om to	o 1ft o 0.3m)	•



• Return to the "Speaker Setup" menu screen.

2-7. THX Audio Setup	
Boundary Gain Compensation	
Surround Back Speaker Position	
⊡≊Exit	

Press the CURSOR \triangle or \bigtriangledown button to select the "Exit", then press the ENTER button.

• The "System Setup Menu" reappears.

2. Speaker Setup
1. Speaker Config.
2. Subwoofer Setup 2. Dalay, Time
3. Delay Time 4. Channel Level
5. Crossover Frequency
6. Surround Sp Setup
7. THX Audio Setup
GE Exit

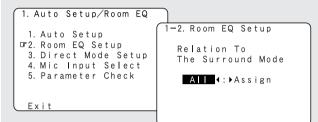
Others Setup

Setting the Room EQ Setup

 Select the setting of an Equalizer that has been set with Auto Setup or Manual EQ.

Press the CURSOR △ or ▽ button to select "Room EQ Setup" at the "Auto Setup / Room EO" menu, then press the ENTER button.

• Display the "Room EQ Setup" screen.



Press the **CURSOR** \triangleleft or \triangleright button to select "All" or "Assign".

All:

Sets the Equalizer for all surround modes.

Assign:

Sets the Equalizer individually for each surround mode.

When "All" is selected:

1 Press the ENTER button.

• Display the "Select the EQ Curve" screen.

1-2. Room EQ Setup Select The EQ Curve GRoom EQ (Audyssey) ② Press the CURSOR *⊲* or *▷* button to select the equalizer setting.

OFF:

The Equalizer is not used.

Audyssey:

Adjusts the frequency response of all speakers to correct the effects of room acoustics.

Front:

Adjusts the frequency response of the surround speakers to match the characteristics of the front channel speakers.

Flat:

Adjusts the frequency response of all speakers to the flattest response. This mode is suitable for multi-channel music surround sound sources.

Manual:

Selects the setting value that was set in the Manual EQ Setup.

For details of the "Manual EQ Setup" (P page 113, 114).

- When "Assign" is selected:
- After completing system setup, select the
- -2 desired equalizer setting pressing the ROOM EQ button.
 - Equalizer settings for the individual surround modes can be stored in the memory.
 - * Whenever the **ROOM EQ** button is pressed, the display switches as shown below.

→ OFF → Audyssey → Front → Manual → Flat →

Λ

Press the ENTER button to enter the setting.

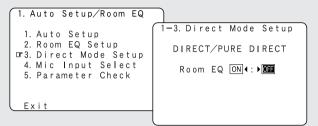
• The "Auto Setup / Room EQ" menu reappears.

ø

- The Equalizer setting of "Audyssey", "Front" and "Flat" can be selected after performing the Auto Setup.
- When the speaker set as "None" with the Auto Setup is changed to on manually, the equalizer of "Audyssey", "Front" and "Flat" cannot be used.
- The Equalizer setting can be selected directly by **ROOM EQ** button.
- When headphones are connected, the Room EQ cannot be used.

Setting the Direct Mode Setup

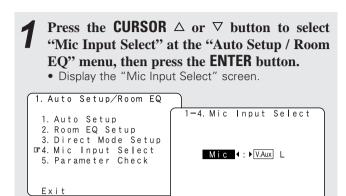
- Perform the ON/OFF setting of Room EQ when the surround mode is "DIRECT" or "PURE DIRECT".
- Press the CURSOR △ or ⊽ button to select "Direct Mode Setup" at the "Auto Setup / Room EQ" menu, then press the ENTER button.
 - Display the "Direct Mode Setup" screen.



- **Press the CURSOR** \triangleleft or \triangleright button to select "ON" or "OFF".
- Press the ENTER button to enter the setting.
 The "Auto Setup / Room EQ" menu reappears.

Setting the MIC Input Select

 Sets whether the setup microphone is connected to the PIN JACK (V.AUX L channel) connector or the MINI JACK (SETUP MIC) connector.



- **2** Press the **CURSOR** \triangleleft or \triangleright button to select "Mic" or "V.AUX L".
- Press the ENTER button to enter the setting.
 The "Auto Setup / Room EQ" menu reappears.

Advanced Setup - Part 2

Check the parameter

- The results of the measured items can be checked.
- The EQ parameters that were set in Auto Setup can be checked.
- This item is displayed, after the measurement result of the "Auto Setup / Room EQ" is decided.

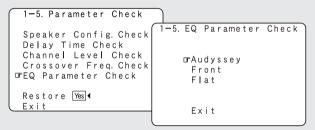
Press the CURSOR △ or ⊽ button to select "Parameter Check" at the "Auto Setup / Room EQ" menu, then press the ENTER button.

• Display the "Parameter Check" screen. 1. Auto Setup/Room EQ



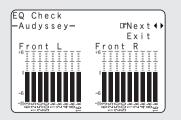
Press the CURSOR \triangle or \bigtriangledown button to select the items, then press the ENTER button.

- Display the verification screen.
- ※ For instructions on checking the results of each item (♥) page 24).
- **3** Press the **CURSOR** △ or \forall button to select "EQ Parameter Check", then press the **ENTER** button.
 - Display the "EQ Parameter Check" screen.



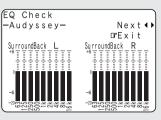


Press the CURSOR △ or ▽ button to select the Equalizer curve, then press the ENTER button.
Display the "EQ Check" screen.



* The display is only an approximate picture of the response and that correction is happening at all frequencies.

- **5** Press the CURSOR \triangleleft or \triangleright button to select the speaker channel.
- 6 If the check ends, pressing the CURSOR △ or ⊽ button to select "Exit", then press the ENTER button.
 - The "EQ Parameter Check" screen reappears.

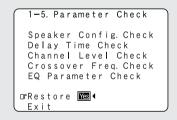


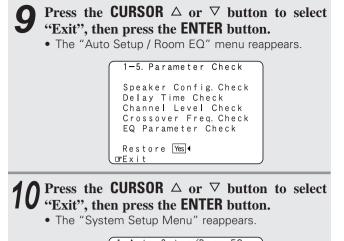
Press the **CURSOR** \triangle or ∇ button to select "Exit", then press the **ENTER** button.

• The "Parameter Check" screen reappears.

1-5.	EQ	Paramete	r Check
	F۱	udyssey ront lat	
	ιε	(i t	

8 The results of the "Auto Setup" procedure can be reset even if the settings have been changed after performing the "Auto Setup" procedure: Press the CURSOR △ or ▽ button to select "Restore Yes **<**", then press the CURSOR ⊲ button.





```
1. Auto Setup/Room EQ

1. Auto Setup

2. Room EQ Setup

3. Direct Mode Setup

4. Mic Input Select

5. Parameter Check

GPExit
```

System setup items and default values (set upon shipment from the factory)

1. Auto Setup/Room EQ

		Auto Setup / Room EQ	Default settings				
1	Auto Setup	This unit performs an analysis of the speaker system and measures the acoustic characteristics of your room to permit an appropriate automatic setting.	-	19 ~ 25			
2	Room EQ Setup	Set the Room EQ setting with All or Assign for each surround mode.	All, Room EQ = OFF	134			
3	Direct Mode Setup	Set the ON/OFF setting of Room EQ, in the case of the surround mode is in "Direct" or "Pure Direct".	OFF	135			
4	Mic Input Select	Set this to switch the Mic Input jack for use for Mic or V.AUX L-channel input terminal.	Mic	135			

2. Speaker Setup

		Speal	ker Setup		Default settings										Page
1	Speaker Configuration			Front Sp.		Center	Sp.	Subwoofer		Surround Sp. A / B		Surround Back Sp.		125, 126	
	Configuration	of the signals out response.	put from the speakers and the frequency		s	Small Sma		II	Yes		Sma		Sma	all / 2spkrs	
2	Subwoofer Setup	This selects the s	subwoofer for playing deep ba	ass signals.					LFE —	-THX—					126, 127
3	Delay Time This parameter is for optimizing the timing with which the audio signals are produced from the speakers and							Surround S L & R (B)		127, 128					
		subwoofer according to the listening position.			12 ft	(3.6 m)	12 ft (3.6 m	n) 12 ft	t (3.6 m) 10 ft (3.0 m)	10 ft (3.0	n) 1	0 ft (3.0 m)	
4	Channel Level	speakers and subwoofer for the different chann			Front L	Front R	Center	Surround	d L Sur	round R	Surrou Back I			Subwoofer	128 ~ 130
	Level	to obtain optimum effects.			0 dB	0 dB	0 dB	0 dB		0 dB	0 dB	0 d	В	0 dB	
5	Crossover Frequency		y (Hz) below which the bass s is to be output from the subv					FIXED —THX—							130, 131
6	Surround Use this function when using speaker combinations for mol sound. Once the combination		ions for more ideal surround	Surround mode	THX/D DTS CI		THX/DOLBY/ DTS MUSIC	DOLBY	·,	WIDE SCREEM	7 CH STERE			MULTI CH MODE	131, 132
0	Speaker Setup	modes are prese	t, the surround speakers are latically according to the	Surround speaker	ļ	ł	А	A		А	A	A		A	131, 132
7	THX Audio	Boundary Gain compensation	When using a THX Ultra2 subwoofer, set the subwoofer response.							132					
,	Setup	Surround Back When using two surround back speakers, set the distance of the two speakers.			The Distance Between SBL/SBR = 0 ft to 1 ft (0 m to 0.3 m)									133	

3. Audio Input Setup

		A	udio Input Setup						[Defau	lt se	tting	s					Page
1	Digital In	This assigr	ns the digital input terminals for the	Input source	CD	DVD	VD	P	TV	DBS	VC	R-1	VCR-2	VCR-3	CDI TAI		V.AUX	99, 100
ľ	Assign	different in	different input sources.		COAX 1	COAX	2 COA	X 3 0	IPT 1	OFF	OP	T 2	OPT 3	OFF	OPT	٢4	OPT 5	99, 100
2	EXT.IN Setup	Set the Ex	t.In terminal playback method.						Surr.Sp	o = Suri	.a, sv	V Leve	el = +15	dB				100
3	Input Function Lev.	The playba input sourc	ne different	TUNER	PHONO) CD	CDR / TAPE	[′] dvd	VDP	TV	DBS	VCR-1	VCR-2	VCR-3	V.AUX	AUX	101	
	runction Lev.				0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	
4	Function Rename	The names desired an	TUNER	PHONO) CD	CDR / TAPE	[′] DVD	VDP	TV	DBS	VCR-1	VCR-2	VCR-3	V.AUX	Net Audio	101, 102		
5	IEEE1394 Assign	The connected IEEE1394 device can be automatically											102					
6	IEEE1394 Auto Func.	Set the function for associating playback of the connected Auto Function = OFF										103						
					A1 ~ A8 87.5/89.1/98.1/107.9/90.1/90.1/90.1/90.1 MHz													
					B1 ~ B8 520/600/1000/1400/1500/1710 kHz, 90.1/90.1 MHz													
		Auto			C1~(C1 ~ C8 90.1 MHz												
		Preset	FM stations are received automa stored in the memory.	atically and	D1~I	D8 90).1 MH	Z										103
	Tuner	Memory	stored in the memory.		E1 ~ I	E1 ~ E8 90.1 MHz												
7	Presets				F1 ~ I	F8 90).1 MH	Z										
					G1~0	1 ~ G8 90.1 MHz												
		Preset Preset channels that are not used often can be skipped.		ften can be	All preset channels = OFF										104			
		Preset Name	The preset channels can be given you want.	the names							-							104, 105

4. Video Setup

		Video Setup				Default	t settings				Page
	HDMI/DVI In	The HDMI or DVI input terminals are assigned for the		VDP	TV	DBS	VCR-1	VCR-2	VCR-3	V.AUX	100 107
ľ	Assign	different input sources. Select the HDMI audio signal playback method.	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	106, 107
2	Component	This assigns the component video input terminals for the	DVD	VDP	TV	DBS	VCR-1	VCR-2	VCR-3	V.AUX	107
2	In Assign	different input sources.		2-RCA	3-RCA	NONE	NONE	NONE	NONE	NONE	107
3	Video Convert Mode	This sets whether or not to use the video conversion function.	ON								107
4	HDMI Out Assign	This sets whether or not to use the function for converting analog video (composite video, S-Video or component video) signals into HDMI signals. When using this conversion function, set the aspect ratio, set the resolution, set the color format and video range of the signals output from the HDMI terminal.	Convert = ON Aspect = Full Resolution = 480p/576p Color Space = Y Cb Cr RGB Mode = Normal							108, 109	
5	Audio Delay	Set the audio delay timing to synchronize the sound and video.	0 ms						109		
6	On Screen Display	This sets whether or not to display the on-screen display that appears on the monitor screen when the controls on the remote control unit or main unit are operated.	Function/Mode = ON, Master Volume = ON, Mode = Mode 1					110			

5. Advanced Playback

		Advanced Playback	Default settings					
1	2ch Direct/Stereo	The speaker settings can be changed specifically for playing in the 2-channel direct or stereo mode. Basic		111				
2	Dolby Digital Setup	Turn the audio compression on or off when down-mixing Dolby Digital signals.	OFF	112				
3	Auto Surround Mode	Set the Auto surround mode function.	Auto Surround Mode = 0N	112				
4	Manual EQ Setup	This parameter is for optimizing the Room EQ with which the audio signals are produced from the speakers.	All Channels and Frequency = 0 dB	113, 114				

Advanced Setup – Part 2

6. Option Setup

			Option Setup							Defau	lt sett	ngs						Page		
1	Channel	The numbe	er of channels that you wish to play ba	ack in each		Main	in Zone Zone2						Zone3					115		
'	Setup	zone are a	signed to each zone accordingly.		Surr.B	= Used,	S.Back	k = 2sp		Stereo		Stereo				115				
2	Power Amp	To suit your preference, a power amp other than the front can be assigned to a playback channel, and the front channel bi-amp playback, or the ZONE2 or ZONE3				ront		Cente	er		Surr. A		Su	ırr. B		S. Ba	ck	116, 117		
	Assign	playback o speakers.	channel can be output from the A	VR-4806CI	F	ront		Cente	er		Surr. A		Su	ırr. B		S. Ba	ck			
		Volume L	s the upper limit for the master	Main		Vol.Limit = OFF, P. On Lev. = LAST, Mute Lev. = FULL														
3	Volume Control	This sets the powe Mute Lev	the volume level upon switching on r of each zone.	Zone2	Vol.Lev. = VAR, Vol.Limit = OFF, P. On Lev. = LAST, Mute Lev. = FULL													118		
		Volume L This sets	put when each zone is muted. .evel: whether the output level of ZONE2 ed or variable.	Zone3		Vol	.Lev. =	VAR, V	VAR, Vol.Limit = OFF, P. On Lev. = LAST, Mute Lev. = FULL											
				ZONE = MAIN, All Surround Modes = ON																
			Trigger Out 1	TUNER	PHONO	CD	CDR / TAPE	DVD	VDP	TV		CR-1	VCR-2		V.AUX	AUX				
					OFF	OFF	OFF	OFF	ON	ON		ON	ON	ON	ON	ON	ON			
	Triana Out		the Trigger Out output for the			Triagor	Triggor	<u> </u>			000	1)NE = 2		_				
4	Trigger Out Setup		put sources. = MAIN" is selected, settings can be	Trigger Out 2	TUNER	PHONO	CD	CDR . TAPE		D VD	P TV	DBS	V	/CR-1	VCR-2	VCR-3	V.AUX	119		
		made for t	he individual surround modes.		ON	ON	ON	ON	10	10 1	N ON	ON	(ON	ON	ON	ON			
										Z	ONE = 3	_	1							
				Trigger	TUNER	PHONO	CD	CDR		D VD	P TV	DBS	V	/CR-1	VCR-2	VCR-3	V.AUX			
				Out 3	ON	ON	ON					ON		ON	ON ON ON ON					
	Zone2/3	Adjust the	tone and channel level of the sound	Zone2							0 dB, HF					UN				
5	Tone/Ch Lev.		m ZONE2 and ZONE3.	Zone3							0 dB, HF							120		
6	Digital Out Assign		he OPTICAL2 output for digital audio EC SELECT", or "ZONE2 SELECT".	recording								121								
7	Setup	User Memory	This stores the current user settir memory.	ngs in the							-							121		
'	Memory/Lock	Setup Lock	This sets whether or not to lock the setup settings so that they cannot be							Setup	Lock =)FF						122		

7. Network Setup

		I	Network Setup	Default settings	Page
1	IP Address	The IP addr	ess-related settings are made here.	ON	123
2	Proxy	The proxy-r	elated settings can be changed here.	OFF	124
2	Network	etwork Set whether or not to accept control from the network in the standby mode.		ON	124
3	Option	PC Language	Select the language of the computer's OS.	eng	124

If a problem should arise, first check the following.

1. Are the connections correct?

2. Have you operated the receiver according to the Operating Instructions?

3. Are the speakers, and other connected components operating properly?

If this unit is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

Symptom	Cause	Measures	Page
Display not lit and sound not produced when power switch set to on.	Power supply cord not plugged in securely.	• Check the insertion of the power supply cord plug.	42
Display lit but sound not produced.	 Speaker cables not securely connected. FUNCTION knob position is not appropriate. Volume control set to minimum. MUTING is on. No digital signal is being input. 	 Connect securely. Switch to the proper position. Turn volume up to suitable level. Switch off MUTING. Properly select a digital signal input source. 	15, 16 44 44 45 99, 100
Nothing is displayed on monitor.	 AVR-4806Cl's video output terminals and monitor's input terminals are not properly connected. Monitor TV's input setting is wrong. The PURE DIRECT mode is set. 	 Check that the connections are correct. Set the TV's input selector to the terminals to which video signals are connected. Set a surround mode other than the PURE 	17, 18, 26 ~ 43 — 50
		DIRECT mode.	
No DTS sound is produced.	 DVD player's audio output setting is not set to bit stream. DVD player is not DTS-compatible. AVR-4806CI's input setting is set to analog. 	 Make the DVD player's initial settings. Use a DTS-compatible player. Set to AUTO or DTS. 	 47
Ultra2 Cinema / THX Music Mode / THX Games Mode cannot be set.	• Surround back speaker set to 1.	Connect two surround back speakers.	16, 125, 126, 133
Copying from DVD to VCR is not possible.	 Copying between a source such as DVD and a VCR is not usually possible, as DVDs are often encoded with copy-protection signals that prevent VCR recording. 	• Copying is not possible.	
No sound is produced from subwoofer.	 Subwoofer's power is not on. Subwoofer's initial setting is set to "NO". Subwoofer's output is not connected. The subwoofer's channel volume level is set to "OFF". 	 Turn on the power. Set the setting to "YES". Connect properly. Turn the subwoofer's channel volume level up. 	 125, 126 16, 42 64
No test tones are produced.	• Surround mode is set to a mode other than STANDARD (Dolby/DTS Surround).	• Set to STANDARD (Dolby/DTS Surround).	
No sound is produced from surround speakers.	• Surround mode is set to "STEREO".	• Set to a mode other than "STEREO".	
This unit does not operate properly when remote control unit is used.	 Batteries dead. Remote control unit too far from this unit. Obstacle between this unit and remote control unit. Different button is being pressed. 	 Replace with new batteries. Move closer. Remove obstacle. Press the proper button. 	8 9 9
	• \oplus and Θ ends of battery inserted in reverse.	Insert batteries properly.	8

Troubleshooting

Symptom	Cause	Measures	Page
	 AVR-4806CI's HDMI output terminals and monitor's input terminals are not properly connected. 	Check the HDMI connection.	35, 36
	• No HDMI/DVI-D signal is being input.	Properly select HDMI or DVI-D signal input source.	106, 107
An image is not projected with an HDMI/DVI-D connection.	• The connected monitor equipment or other equipments do not support HDCP.	• The AVR-4806CI will not output video signal unless the other equipment supports HDCP.	35, 36
	 The output format of the connected player (HDMI/DVI-D FORMAT) does not matche the supported input format of connected monitor equipments. 	• Check whether the output format of the connected player (HDMI/DVI-D FORMAT) matches the supported input format of connected monitor equipments.	35, 36
The HDMI audio is not output.	 The AVR-4806CI does not play HDMI audio signals. The HDMI audio signals are not output from the connected monitor device. 	 Set the HDMI audio playback setting at the "HDMI/DVI In Assign" settings to "AMP". Set the HDMI audio playback setting at the "HDMI/DVI In Assign" settings to "TV". 	106, 107
	• The set's internal temperature has risen and the protection circuit has been activated.	 Put the AVR-4806CI in a well-ventilated place. Turn off the power, then wait for the set to fully cool off before turning the power back on. 	
Power has turned off and the power indicator is flashing red.	• The core wires of the speaker cables are touching each other or the AVR-4806Cl's rear panel, activating the protection circuit.	• Check the connections of all the speaker cables.	15
	AVR-4806CI is malfunctioning.	• Turn off the power and contact a DENON customer service center.	
Sound is only produced from the center speaker.	 You are playing a monaural source (TV, AM radio broadcast, etc.) in the DOLBY/DTS SURROUND or HOME THX CINEMA mode. 	 When playing monaural sources, select a surround mode other than DOLBY/DTS SURROUND or HOME THX CINEMA. 	61, 62
"CHECK ANTENNA" is displayed in the XM mode.	• AVR-4806CI's XM terminal and the XM Passport System is not properly connected.	Check that the connection are correct.	39
"NO SIGNAL" is displayed in the XM mode.	• The signal cannot be received.	Reposition your XM Pasport System.	71
"OFF AIR" is displayed in the XM mode.	• The selected channel is not currently broadcasting.	Select the another channel.	71, 72
Receiving only XM channels 0 and 1.	• The XM Tuner is not activated.	Contact XM Satellite Radio.	71

Optimum surround sound for different sources

There are currently various types of multi-channel signals (signals or formats with more than two channels).

Types of multi-channel signals

Dolby Digital (including Surround EX), DTS (including Surround ES), DVD-Audio, and Super Audio CD. Note on the above: MUSE 3.1 and MPEG multi-channel audio are not available to North American consumers – same is true for Dolby's AAC.

"Source" here does not refer to the type of signal (format) but the recorded content. Sources can be divided into two major categories.

Types of sources

• Movie audio:

Signals created to be played in movie theaters. In general sound is recorded to be played in movie theaters equipped with multiple surround speakers, regardless of the format (Dolby Digital, DTS, etc.).

Movie theater sound field Listening room FL SW C FR sound field SI ISE FL SW C FR SI SB Π \bigcirc ŜΒ п¦ SB

Multiple surround speakers

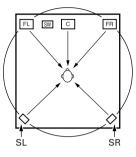
In this case it is important to achieve the same sense of expansion as in a movie theater with the surround channels.

To do so, in some cases the number of surround speakers is increased (to four or eight) or speakers with bipolar or dipolar properties are used.

- SL : Surround L channel
- SR : Surround R channel
- SB : Surround B (back) channel

• Other types of audio:

These signals are designed to recreate a 360° sound field using three to five speakers.



In this case the speakers should surround the listener from all sides to create a uniform sound field from 360°. Ideally the surround speakers should function as "point" sound sources in the same way as the front speakers.

These two types of sources thus have different properties, and different speaker settings, particularly for the surround speakers, are required in order to achieve the ideal sound.

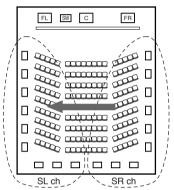
The AVR-4806Cl's surround speaker selection function makes it possible to change the settings according to the combination of surround speakers being used and the surrounding environment in order to achieve the ideal surround sound for all sources. This means that you can connect a pair of bipolar or dipolar surround speakers (mounted on either side of the prime listening position), as well as a separate pair of direct radiating (monopolar) speakers placed at the rear corners of the listening room.

Additional Information

Surround back speakers

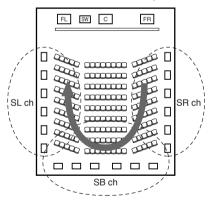
The THX Surround EX format adds new "Surround Back" (SB) channels to the conventional 5.1-channel system. This makes it easy to achieve sound positioned directly behind the listener, something that was previously difficult with sources designed for conventional multi surround speakers. In addition, the acoustic image extending between the sides and the rear is narrowed, thus greatly improving the expression of the surround signals for sounds moving from the sides to the back and from the front to the point directly behind the listening position.

Change of positioning and acoustic image with 5.1-channel systems



Movement of acoustic image from SR to SL

Change of positioning and acoustic image with THX Surround EX system



Movement of acoustic image from SR to SB to SL

Speaker(s) for one or two channels are required in order to achieve a THX Surround EX system with the AVR-4806CI. Adding these, however, allows you to achieve stronger surround effects not only with sources recorded in THX Surround EX, but also with conventional 2- to 5.1-channel sources. The WIDE SCREEN mode is a mode for achieving surround sound with up to 7.1 channels using surround back speakers, for sources recorded in conventional Dolby Surround as well as Dolby Digital 5.1-channel and DTS Surround 5.1-channel sources. Furthermore, all the Denon original surround modes (12) page 61 ~ 63) are compatible with 7.1-channel playback, so you can enjoy 7.1-channel source.

□ Numbers and types of surround back speakers

With THX Surround EX, the surround back channel consists of one channel of playback signals, but we recommend using two speakers. The modes that use the new ASA technology from THX (127) page 152) are most effective when using two monopole type surround back speakers placed close together.

Using two speakers results in a smoother blend with the sound of the surround channels and better sound positioning of the surround back channel when listening from a position other than the center.

Placement of the surround left and right channels when using surround back speakers

Using surround back speakers greatly improves the positioning of the sound at the rear. Because of this, the surround left and right channels play an important role in achieving a smooth transition of the acoustic image from the front to the back. As shown on the diagram above, in a movie theater the surround signals are also produced from diagonally in front of the listeners, creating an acoustic image as if the sound were floating in space.

To achieve these effects, we recommend placing the speakers for the surround left and right channels slightly more towards the front than with conventional surround systems. Doing so sometimes increases the surround effect when playing conventional 5.1-channel sources in the THX Surround EX mode. Check the surround effects of the various modes before selecting the surround mode.

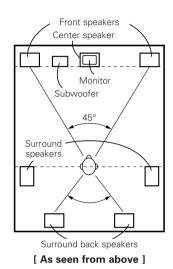
Speaker setting examples

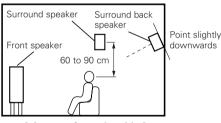
Here we describe a number of speaker settings for different purposes. Use these examples as guides to set up your system according to the type of speakers used and the main usage purpose.

[1] For THX Surround EX systems (using surround back speakers)

1 Basic setting for primarily watching movies

This is recommended when mainly playing movies and using regular single way or 2-way speakers for the surround speakers.





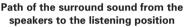
[As seen from the side]

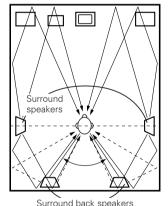
- Set the front speakers with their front surfaces as flush with the TV or monitor screen as possible. Set the center speaker between the front left and right speakers and no further from the listening position than the front speakers.
- Consult the operating instructions for your subwoofer for advice on placing the subwoofer within the listening room.
- If the surround speakers are direct-radiating (monopolar) then place them slightly behind and at an angle to the listening position and parallel to the walls at a position 60 to 90 centimeters (2 to 3 feet) above ear level at the prime listening position.

- When using two surround back speakers, set them at the back facing front and with both speakers at the same distance from the listening point. When using one surround back speaker, place it at the rear center facing the front at a slightly higher position (0 to 20 cm) than the surround speakers.
- We recommend installing the surround back speaker(s) at a slightly downward facing angle. This effectively prevents the surround back channel signals from reflecting off the monitor or screen at the front center, resulting in interference and making the sense of movement from the front to the back less sharp.
- Connect the surround speakers to the surround speaker A terminals on the AVR-4806Cl and set settings on the setup menu to "A". (This is the factory default setting () page 138).)

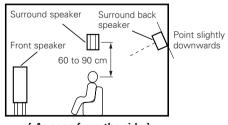
② Setting for primarily watching movies using diffusion type speakers for the surround speakers

For the greatest sense of surround sound envelopment, diffuse radiation speakers such as bipolar types, or dipolar (THX) types, provide a wider dispersion than is possible to obtain from a direct radiating speaker (monopolar). Place these speakers at either side of the prime listening position, mounted above ear level.





[As seen from above]

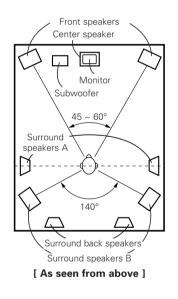


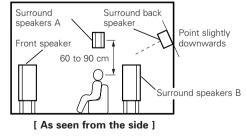
[As seen from the side]

- Set the front speakers, center speaker and subwoofer in the same positions as in example ①.
- It is best to place the surround speakers directly at the side or slightly to the front of the viewing position, and 60 to 90 cm above the ears.
- Same as surround back speaker installation method ①.
- Connect the surround speakers to the surround speaker A terminals on the AVR-4806Cl and set settings on the setup menu to "A". (This is the factory default setting (page 138).)
- The signals from the surround channels reflect off the walls as shown on the diagram at the left, creating an enveloping and realistic surround sound presentation. For multi-channel music sources however, the use of bipolar or dipolar speakers mounted at the sides of the listening position may not be satisfactory in order to create a coherent 360 degree surround sound field. Connect another pair of direct radiating speakers as described in example ③ and place them at the rear corners of the room facing towards the prime listening position.

③ When using different surround speakers for movies and music

To achieve more effective surround sound for both movies and music, use different sets of surround speakers and different surround modes for the two types of sources.





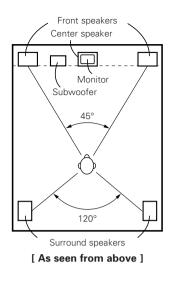
- Set the front speakers slightly wider apart than the setup for watching movies only and point them toward the listening position in order assure clear positioning of the sound.
- Set the center speaker in the same positions as in example ①).
- Set surround speakers A for watching movies in the positions described in example ① or ②, depending on the types of speakers used.
- Set surround speakers B for playing multi-channel music at the same height as the front speakers and slightly at an angle to the rear of the listening position, and point them toward the listening position.
- Connect the surround speakers for watching movies to the surround speaker A terminals on the AVR-4806Cl, the surround speakers for playing multi-channel music to the surround speaker B terminals. Set the surround speaker selection on the setup menu. (For instructions () page 131, 132).)
- To activate the appropriate speakers for movies and music, we suggest that during setup, choose Dolby Digital/DTS with THX and Surround Speakers A (the bipolar or dipolar speakers mounted at the sides of the listening position).

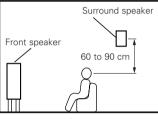
Choose Dolby Digital/DTS without THX and Surround Speakers B (the direct radiating speakers mounted at the rear corners of the listening room). Then, by simply activating the THX function (used during movie playback, the Surround A speakers are automatically activated. For multi-channel music listening (Dolby Digital or DTS music programs), turn off the THX enhancements by touching the THX button on the remote control, and the Surround B speakers will be automatically activated.

Example: Movie sources (Dolby, DTS surround, etc.) "THX" or "THX 5.1" mode … Speakers A Music sources (DVD video, DTS CD, etc.) "Dolby/DTS surround" … Speakers B

* The speakers can be switched at the touch of a button by turning HOME THX CINEMA on when playing movies and off when playing multi-channel music.

[2] When not using surround back speakers





[As seen from the side]

- Set the front speakers with their front surfaces as flush with the TV or monitor screen as possible. Set the center speaker between the front left and right speakers and no further from the listening position than the front speakers.
- Consult the operating instructions for your subwoofer for advice on placing the subwoofer within the listening room.
- If the surround speakers are direct-radiating (monopolar) then place them slightly behind and at an angle to the listening position and parallel to the walls at a position 60 to 90 centimeters (2 to 3 feet) above ear level at the prime listening position.
- Connect the surround speakers to the surround speaker A terminals on the AVR-4806Cl and set settings on the setup menu to "A". (This is the factory default setting () page 138).)
- The surround speakers can be switched freely during playback with the surround parameter adjustment (1277) page 46).

Surround

The AVR-4806Cl is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

[1] Dolby Surround

1 Dolby Digital

Dolby Digital is the multi-channel digital signal format developed by Dolby Laboratories.

Dolby Digital consists of up to "5.1" channels - front left, front right, center, surround left, surround right, and an additional channel exclusively reserved for additional deep bass sound effects (the Low Frequency Effects – LFE – channel, also called the ".1" channel, containing bass frequencies of up to 120 Hz).

Unlike the analog Dolby Pro Logic format, Dolby Digital's main channels can all contain full range sound information, from the lowest bass, up to the highest frequencies – 22 kHz. The signals within each channel are distinct from the others, allowing pinpoint sound imaging, and Dolby Digital offers tremendous dynamic range from the most powerful sound effects to the quietest, softest sounds, free from noise and distortion.

Dolby Digital and Dolby Pro Logic

Comparison of home surround systems	Dolby Digital	Dolby Pro Logic
No. recorded channels (elements)	5.1 ch	2 ch
No. playback channels	5.1 ch	4 ch
Playback channels (max.)	L, R, C, SL, SR, SW	L, R, C, S (SW - recommended)
Audio processing	Digital discrete processing Dolby Digital encoding/ decoding	Analog matrix processing Dolby Surround
High frequency playback limit of surround channel	20 kHz	7 kHz

Dolby Digital compatible media and playback methods

Marks indicating Dolby Digital compatibility: DIGITAL The following are general examples. Also refer to the player's operating instructions.

Media	Dolby Digital output terminals	Playback method (reference page)
DVD ¥1	Optical or coaxial digital output (same as for PCM) ※1	Set the input mode to "AUTO" (🍞 page 47).
Others (satellite broadcasts, CATV, etc.)	Optical or coaxial digital output (same as for PCM)	Set the input mode to "AUTO" (Page 47).

*1: Some DVD digital outputs have the function of switching the Dolby Digital signal output method between "bit stream" and "(convert to) PCM". When playing in Dolby Digital surround on the AVR-4806CI, switch the DVD player's output mode to "bit stream". In some cases players are equipped with both "bit stream + PCM" and "PCM only" digital outputs. In this case connect the "bit stream + PCM" terminals to the AVR-4806CI.

2 Dolby Pro Logic II

- Dolby Pro Logic II is a new multi-channel playback format developed by Dolby Laboratories using feedback logic steering technology and offering improvements over conventional Dolby Pro Logic circuits.
- Dolby Pro Logic II can be used to decode not only sources recorded in Dolby Surround (*) but also regular stereo sources into five channels (front left, front right, center, surround left and surround right) to achieve surround sound.
- Whereas with conventional Dolby Pro Logic the surround channel playback frequency band was limited, Dolby Pro Logic II offers a wider band range (20 Hz to 20 kHz or greater). In addition, the surround channels were monaural (the surround left and right channels were the same) with previous Dolby Pro Logic, but Dolby Pro Logic II they are played as stereo signals.
- Various parameters can be set according to the type of source and the contents, so it is possible to achieve optimum decoding (1277 page 57).

3 Dolby Pro Logic IIx

 Dolby Pro Logic IIx furthers the matrix decoding technology of Dolby Pro Logic II to decode audio signals recorded on two channels into up to 7.1 playback channels, including the surround back channel. Dolby Pro Logic IIx also allows 5.1-channel sources to be played in up to 7.1 channels.

The mode can be selected according to the source. The Music mode is best suited for playing music, the Cinema mode for playing movies, and the Game mode for playing games. The Game mode can only be used with 2-channel audio sources.

* Sources recorded in Dolby Surround

- These are sources in which three or more channels of surround have been recorded as two channels of signals using Dolby Surround encoding technology.
- Dolby Surround is used for the sound tracks of movies recorded on DVDs, LDs and video cassettes to be played on stereo VCRs, as well as for the stereo broadcast signals of FM radio, TV, satellite broadcasts and cable TV.
- Decoding these signals with Dolby Pro Logic makes it possible to achieve multi-channel surround playback. The signals can also be played on ordinary stereo equipment, in which case they provide normal stereo sound.
- There are two types of DVD Dolby Surround recording signals.
 - ① 2-channel PCM stereo signals
 - ② 2-channel Dolby Digital signals

Sources recorded in Dolby Surround are indicated with the logo mark shown below

Dolby Surround support mark: DC DOLBY SURROUND

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "Surround EX" and the double-D symbol are trademarks of Dolby Laboratories.

④ Dolby Headphone

- This is a three-dimensional sound technology developed jointly by Dolby Laboratories and Lake Technology Ltd. of Australia for achieving surround sound using regular headphones.
- Previously, when using headphones all the sounds resonated inside the head and it was uncomfortable to listen with headphones for long periods of time. Dolby Headphone simulates speaker playback in a room and places the sound at the front or the sides, outside the head, to achieve a powerful sound like the sound of movie or home theaters. This technology is mainly for multichannel audio/video equipment with Dolby Digital or Dolby Pro Logic Surround decoding functions and works with a high performance digital signal processing (DSP) chip.
- Dolby Headphone is effective not only for multichannel sources but also for stereo programs.
- On the AVR-4806CI, it is possible to output signals encoded in the Dolby Headphone mode from the recording output terminal and record them on a separate recorder.

[2] DTS Digital Surround

DTS Digital Surround (also called simply DTS) is a multichannel digital signal format developed by Digital Theater Systems.

DTS offers the same "5.1" playback channels as Dolby Digital (front left, front right and center, surround left and surround right) as well as the stereo 2-channel mode. The signals for the different channels are fully independent, eliminating the risk of deterioration of sound quality due to interference between signals, crosstalk, etc.

DTS features a relatively higher bit rate as compared to Dolby Digital (1234 kbps for CDs and LDs, 1536 kbps for DVDs) so it operates with a relatively low compression rate. Because of this the amount of data is great, and when DTS playback is used in movie theaters, a separate CD-ROM synchronized with the film is played.

With LDs and DVDs, there is of course no need for an extra disc; the pictures and sound can be recorded simultaneously on the same disc, so the discs can be handled in the same way as discs with other formats.

There are also music CDs recorded in DTS. These CDs include 5.1-channel surround signals (compared to two channels on current CDs). They do not include picture data, but they offer surround playback on CD players that are equipped with digital outputs (PCM type digital output required).

DTS surround track playback offers the same intricate, grand sound as in a movie theater, right in your own listening room.

DTS compatible media and playback methods Marks indicating DTS compatibility:

The following are general examples. Also refer to the player's operating instructions.

Media	DTS Digital output terminals	Playback method (reference page)
CD	Optical or coaxial digital output (same as for PCM) ※2	Set the input mode to "AUTO" or "DTS" (IDP page 47). Never set the mode to "ANALOG" or "PCM". *1
DVD	Optical or coaxial digital output (same as for PCM) ※3	Set the input mode to "AUTO" or "DTS" (IP page 47).

- *1: DTS signals are recorded in the same way on CDs and LDs as PCM signals. Because of this, the un-decoded DTS signals are output as random "hissy" noise from the CD or LD player's analog outputs. If this noise is played with the amplifier set at a very high volume, it may possibly cause damage to the speakers. To avoid this, be sure to switch the input mode to "AUTO" or "DTS" before playing CDs or LDs recorded in DTS. Also, never switch the input mode to "ANALOG" or "PCM" during playback. The same holds true when playing CDs or LDs on a DVD player or LD/DVD compatible player. For DVDs, the DTS signals are recorded in a special way so this problem does not occur.
- *2: The signals provided at the digital outputs of a CD or LD player may undergo some sort of internal signal processing (output level adjustment, sampling frequency conversion, etc.). In this case the DTS-encoded signals may be processed erroneously, in which case they cannot be decoded by the AVR-4806CI, or may only produce noise. Before playing DTS signals for the first time, turn down the master volume to a low level, start playing the DTS disc, then check whether the DTS indicator on the AVR-4806CI (CP page 54) lights before turning up the master volume.
- *3: A DVD player with DTS-compatible digital output is required to play DTS DVDs. A DTS Digital Output logo is featured on the front panel of compatible DVD players. Recent DENON DVD player models feature DTS-compatible digital output – consult the player's operating instructions for information on configuring the digital output for DTS playback of DTS-encoded DVDs.

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[3] DTS-ES™

DTS-ES is a new multi-channel digital signal format developed by Digital Theater Systems, Inc. While offering high compatibility with the conventional DTS Digital Surround format, DTS-ES greatly improves the 360-degree surround impression and space expression thanks to further expanded surround signals. This format has been used professionally in movie theaters since 1999.

In addition to the 5.1 surround channels (FL, FR, C, SL, SR and LFE), DTS-ES also offers the SB (Surround Back, sometimes also referred to as "surround center") channel for surround playback with a total of 6.1 channels. DTS-ES includes two signal formats with different surround signal recording methods, as described below.

DTS-ES™ Discrete 6.1

DTS-ES Discrete 6.1 is the newest recording format. With it, all 6.1 channels (including the SB channel) are recorded independently using a digital discrete system. The main feature of this format is that because the SL, SR and SB channels are fully independent, the sound can be designed with total freedom and it is possible to achieve a sense that the acoustic images are moving about freely among the background sounds surrounding the listener from 360 degrees.

Though maximum performance is achieved when sound tracks recorded with this system are played using a DTS-ES decoder, when played with a conventional DTS decoder the SB channel signals are automatically down-mixed to the SL and SR channels, so none of the signal components are lost.

□ DTS-ES[™] Matrix 6.1

With this format, the additional SB channel signals undergo matrix encoding and are input to the SL and SR channels beforehand. Upon playback they are decoded to the SL, SR and SB channels. The performance of the encoder used at the time of recording can be fully matched using a high precision digital matrix decoder developed by DTS, thereby achieving surround sound more faithful to the producer's sound design aims than with conventional 5.1- or 6.1-channel systems.

In addition, the bit stream format is 100% compatible with conventional DTS signals, so the effect of the Matrix 6.1 format can be achieved even with 5.1-channel signal sources. Of course it is also possible to play DTS-ES Matrix 6.1 encoded sources with a DTS 5.1-channel decoder.

When DTS-ES Discrete 6.1 or Matrix 6.1 encoded sources are decoded with a DTS-ES decoder, the format is automatically detected upon decoding and the optimum playing mode is selected. However, some Matrix 6.1 sources may be detected as having a 5.1-channel format, so the DTS-ES Matrix 6.1 mode must be set manually to play these sources. (For instructions on selecting the surround mode (12) page 53).)

The DTS-ES decoder includes another function, the DTS Neo:6 surround mode for 6.1-channel playback of digital PCM and analog signal sources.

□ DTS Neo:6[™] surround

This mode applies conventional 2-channel signals to the high precision digital matrix decoder used for DTS-ES Matrix 6.1 to achieve 6.1-channel surround playback. High precision input signal detection and matrix processing enable full band reproduction (frequency response of 20 Hz to 20 kHz or greater) for all 6.1 channels, and separation between the different channels is improved to the same level as that of a digital discrete system.

DTS Neo:6 surround includes two modes for selecting the optimum decoding for the signal source.

• DTS Neo:6 Cinema

This mode is optimum for playing movies. Decoding is performed with emphasis on separation performance to achieve the same atmosphere with 2-channel sources as with 6.1-channel sources.

This mode is effective for playing sources recorded in conventional surround formats as well, because the inphase component is assigned mainly to the center channel (C) and the reversed phase component to the surround (SL, SR and SB channels).

DTS Neo:6 Music

This mode is suited mainly for playing music. The front channel (FL and FR) signals bypass the decoder and are played directly so there is no loss of sound quality, and the effect of the surround signals output from the center (C) and surround (SL, SR and SB) channels add a natural sense of expansion to the sound field.

[4] DTS 96/24

The sampling frequency, number of bits and number of channels used for recording of music, etc., in studios has been increasing in recent years, and there are a growing number of high quality signal sources, including 96 kHz/24 bit 5.1-channel sources.

For example, there are high picture/sound quality DVD video sources with 96 kHz/24 bit stereo PCM audio tracks. However, because the data rate for these audio tracks is extremely high, there are limits to recording them on two channels only, and since the quality of the pictures must be restricted it is common to only include still pictures.

In addition, 96 kHz/24 bit 5.1-channel surround is possible with DVD audio sources, but DVD audio players are required to play them with this high quality.

DTS 96/24 is a multi-channel digital signal format developed by Digital Theater Systems, Inc. in order to deal with this situation.

Conventional surround formats used sampling frequencies of 48 or 44.1 kHz, so 20 kHz was about the maximum playback signal frequency. With DTS 96/24, the sampling frequency is increased to 96 or 88.2 kHz to achieve a wide frequency range of over 40 kHz.

In addition, DTS 96/24 has a resolution of 24 bits, resulting in the same frequency band and dynamic range as 96 kHz/24 bit PCM.

As with conventional DTS Surround, DTS 96/24 is compatible with a maximum of 5.1 channels, so sources recorded using DTS 96/24 can be played in high sampling frequency, multiple channel audio with such normal media as DVD videos and CDs.

Thus, with DTS 96/24, the same 96 kHz/24 bit multichannel surround sound as with DVD-Audio can be achieved while viewing DVD-Video images on a conventional DVD-Video player (*1). Furthermore, with DTS 96/24 compatible CDs, 88.2 kHz/24 bit multi-channel surround can be achieved using normal CD/LD players (* 1).

Even with the high quality multi-channel signals, the recording time is the same as with conventional DTS surround sources.

What's more, DTS 96/24 is fully compatible with the conventional DTS surround format, so DTS 96/24 signal sources can be played with a sampling frequency of 48 kHz or 44.1 kHz on conventional DTS or DTS-ES surround decoders (*2).

- **1 A DVD player with DTS digital output capabilities (for CD/LD players, a player with digital outputs for conventional DTS CDs/LDs) and a disc recorded in DTS 96/24 are required.
- *2 The resolution is 24 or 20 bits, depending on the decoder.

[5] Home THX Cinema Surround

THX is an exclusive set of standards and technologies established by the world-renowned film production company, Lucasfilm Ltd. THX grew from George Lucas' personal desire to make your experience of the film soundtrack, in both movie theaters and in your home theater, as faithful as possible to what the director intended.

Movie soundtracks are mixed in special movie theaters called dubbing stages and are designed to be played back in movie theaters with similar equipment and conditions. The soundtrack created for movie theaters is then transferred directly onto Laserdisc, VHS tape, DVD, etc., and is not changed for playback in a small home theater environment.

THX engineers developed patented technologies to accurately translate the sound from the movie theater environment into the home, correcting the tonal and spatial errors that occur. On the AVR-4806CI, when the Home THX Cinema mode is on, THX post-processing is automatically added after the Dolby Pro Logic, Dolby Digital or DTS decoder:

□ Re-EQ[™] (Re-Equalization)

The tonal balance of a film soundtrack will be excessively bright and harsh when played back over audio equipment in the home because film soundtracks are designed to be played back in large movie theaters using very different professional equipment. Re-Equalization restores the correct tonal balance for listening to a movie soundtrack in a normal home environment.

☐ Timbre Matching[™]

The human ear changes our perception of a sound depending on the direction from which the sound is coming. In a movie theater, there is an array of surround speakers so that the surround information is all around you. In a home theater, only two speakers located to the side of your head are used. The Timbre Matching feature filters the information going to the surround speakers so that they more closely match the tonal characteristics of the sound coming from the front speakers. This ensures seamless panning between the front and surround speakers.

☐ Adaptive Decorrelation[™]

In a movie theater, a large number of surround speakers help create an enveloping surround sound experience, while in a home theater there are usually only two speakers. This can make the surround speakers sound like headphones that lack spaciousness and envelopment. The surround sounds will also collapse into the closest speaker as you move away from the middle seating position. Adaptive Decorrelation slightly changes one surround channel's time and phase relationship with respect to the other surround channel. This expands the listening position and creates—with only two speakers—the same spacious surround experience as in a movie theater.

☐ THX Ultra2™

Before any home theater component can be THX Ultra2 certified, it must incorporate all the features above and also pass a rigorous series of quality and performance tests. Only then can a product feature the THX Ultra2 logo, which is your guarantee that the Home Theater products you purchase will give you superb performance for many years to come. THX Ultra2 requirements cover every aspect of the product including power amplifier performance, pre-amplifier performance and operation, as well as hundreds of other parameters in both the digital and analog domain.

In addition to improvements to the power amplifier with respect to previous THX Ultra standards, three surround modes have been added: the THX Ultra2 Cinema mode, THX Music Mode and THX Games Mode.

THX Ultra2 Cinema

THX Ultra2 Cinema mode plays 5.1 movies using all 8 speakers giving you the best possible movie watching experience. In this mode, new THX processing blends the side surround speakers and back surround speakers providing the optimal mix of ambient and directional surround sounds.

DTS-ES (Matrix and 6.1 Discrete) and Dolby Digital Surround EX encoded soundtracks will be automatically detected in Ultra2 Cinema mode if the appropriate flag has been encoded.

Some Dolby Digital Surround EX soundtracks are missing the digital flag that allows automatic switching. If you know that the movie that you are watching is encoded in Surround EX, you can manually select the THX Surround EX playback mode, otherwise THX Ultra2 Cinema mode will apply processing to provide optimum replay.

THX Music Mode

For the replay of 5.1 multi-channel music the THX Music Mode should be selected. In this mode new THX processing is applied to the surround channels of all 5.1 encoded music sources such as DTS and Dolby Digital to provide a wide stable rear soundstage.

□ THX Games Mode

For the replay of stereo and multi-channel game audio the THX Games Mode should be selected. In this mode THX ASA processing is applied to the surround channels of all 5.1 and 2.0 encoded game sources such as analog, PCM, DTS and Dolby Digital. This accurately places all game audio surround information, providing a full 360 degree playback environment. THX Games Mode is unique as it gives you a smooth transition of audio in all points of the surround field.

□ ASA (Advanced Speaker Array)

ASA is a proprietary THX technology which processes the sound fed to 2 side and 2 back surround speakers to provide the optimal surround sound experience. When you set up your home theater system using all eight speaker outputs (Left, Center, Right, Surround Right, Surround Back Right, Surround Back Left, Surround Left and Subwoofer) placing the two Surround Back speakers close together facing the front of the room as shown in the diagram will provide the largest sweet spot. If for practical reasons you have to place the Surround Back speakers apart, you will need to go THX Audio Set-up screen and choose the setting that most closely corresponds to the speaker spacing, which will re-optimize the surround sound-field.

ASA is used in three new modes; THX Ultra2 Cinema, THX Music Mode and THX Games Mode.

Boundary Gain Compensation

If your chosen listening room layout (for practical or aesthetic reasons) results in the most of the listeners being close to the rear wall, the resulting bass level can be sufficiently reinforced by the boundary that the overall sound quality becomes "boomy". THX Ultra2 receivers and controllers contain the BGC (Boundary Gain Compensation) feature to provide an improved bass balance. BGC can be selected by choosing "THX Ultra2 Subwoofer–Yes" from the "Boundary Gain Compensation" section of the THX Audio setup menu.

THX and Re-EQ, THX Timbre Matching, THX Adaptive Decorrelation, and THX Advanced Speaker Array are trademarks of THX Ltd. THX may be registered in some jurisdictions. All rights reserved.

[6] THX[™] Surround EX[™]

In 1999, a new surround system was launched simultaneously with the release of the movie "Star Wars Episode I". "Dolby Digital Surround EX" is a new movie sound track that greatly enhances the sense of spatial expression and the positioning of the surround channel sound. The result is 360 degrees of movement and moving sound effects that seem to pass right over the listener's head.

This system was developed jointly by THX and Dolby Laboratories, fusing THX's idea of improving spatial expression and achieving a uniform 360 degree sound positioning with Dolby Laboratories' matrix encoding technology. Emphasis was placed on compatibility with the existing system Dolby Digital 5.1-channel, and the new "surround back (SB) channel" was added to achieve improvements over the conventional 5.1-channel system in terms of the positioning of the sound at the rear, the acoustic image of sound moving from the two sides to the back as well as sound moving from the front to the center rear with the multi surround speaker systems used in movie theaters, thereby enabling various types of surround sound.

The surround back channel signal is a matrix-encoded signal inserted into both the Dolby Digital SL (surround left) and SR (surround right) channels. Upon playback, the signals are decoded by a high precision digital matrix decoder within the Dolby Digital decoder into the SL, SR and SB channels and output as 6.1 channels of signals. With the AVR-4806CI, the signals further undergo Home THX Cinema processing to achieve a THX Surround EX system.

Even without the proper environment for playing the SB channel, Dolby Digital Surround EX signals are 100% compatible with existing 5.1-channel playback systems, so they can be played as such. In this case, the SB channel signal is produced as a monaural signal from both the SL and SR channels, so none of the signal components are missing. The effects specific to THX Surround EX (the sense of spatial expression and the positioning of the sound), however, are the same as with conventional 5.1-channel surround systems.

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Audyssey MultEQ XT

There are several factors that can degrade the sound from even the best loudspeakers in a listening room. One of the most important is the interaction of sound from the loudspeakers with large surfaces such as walls, the floor, and the ceiling in the room. Even with careful loudspeaker placement and acoustical treatments, there are significant problems that are caused by room acoustics. These include reflections from nearby surfaces and standing waves that are created between large parallel surfaces in the room.

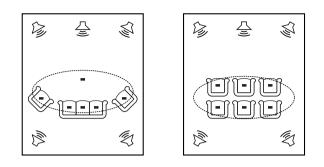
In a home theater the situation is further complicated because there are several listening locations. The effects of room acoustics on the sound arriving at each person's ears are very different and the result is a listening experience that is degraded in a different way for every person in the room. It is not uncommon to have variations in two adjacent seats that are as large as 10 dB, particularly in the frequency range below 250 Hz.

The solution to this problem is to apply room correction after precisely measuring how each loudspeaker interacts with the room. Because the room causes variations in the frequency response of the loudspeakers that are so large from seat to seat, it is important to measure each loudspeaker at several locations in the listening room. This should be done even if there is only one listener. Measurement at a single location is not representative of the acoustical problems in the room and will, in most cases, degrade overall performance.

Audyssey MultEQ XT is the only technology that can achieve room correction for multiple listeners in a large listening area. It does so by combining the data collected at several points in the room from each loudspeaker and then applying correction that minimizes the acoustical effects of the room and is matched to the frequency resolution of human perception (known as psychoacoustics). Furthermore, MultEQ XT correction is applied both in frequency and time domains and so there are no artifacts (such as smearing of sound or modal ringing) that are sometimes associated with traditional methods of room equalization.

In addition to correcting frequency response problems over a wide listening area, Audyssey MultEQ XT provides a completely automated sound system set-up process. It identifies how many loudspeakers are connected to the amplifiers and whether they are full-range, satellites, or subwoofers. If there is a least one subwoofer connected, Audyssey MultEQ XT determines the optimum crossover frequency between each satellite and the subwoofer(s). It automatically checks the polarity of each loudspeaker and alerts the user if there are any that may be wired out-of-phase relative to the others. It measures the distance to each loudspeaker from the main listening position and adjusts the delays so that sound from each loudspeaker arrives at the same time. Finally, Audyssey MultEQ XT determines the playback level of each loudspeaker and adjusts the volume trims so that all levels are equal.

The two diagrams below illustrate two examples of microphone placement for two types of seating arrangements. There are six measuring positions shown in each case. Increasing the number of measuring points will provide a better sampling of the listening area and produce better results. The dotted line represents the area in which the room correction provided by Audyssey MultEQ XT is optimal. The microphone must be placed at ear height at each location.





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HDCD[®] (High Definition Compatible Digital[®])

HDCD is an encoding/decoding technology that greatly reduces the distortion that occurs upon digital recording while maintaining compatibility with the conventional CD format, thus expanding the dynamic range and achieving a high resolution.

Conventional CDs and HDCD compatible CDs are identified automatically to select the optimum digital processing.



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DENON LINK (DENON Digital Link)

High-grade LPCM 24-bit, 96-kHz, 6-channel or 24-bit, 192-kHz, 2-channel digital input is possible when the AVR-4806CI is connected via a shielded twisted pair (STP) cable to a DENON DVD player that supports Denon Digital Link, Since DENON Digital Link uses low-voltage differential signaling (LVDS), transfer capabilities of greater than 1.2 Gbps at a differential voltage of approximately 0.3 Vpp are possible.

About IEEE1394

IEEE1394 is an international standard established by the "IEEE" (Institute of Electrical and Electronics Engineers) of the United States.

The AVR-4806CI can be connected to an IEEE1394 compatible device using an IEEE1394 cable to enable digital transfer of multi-channel audio sources (DVD Audio discs, Super Audio CDs, etc.) with a single cable.

• The AVR-4806CI's transfer format is compatible with A&M protocol.

In addition to A&M protocol, IEEE1394 transfer formats also include MPEG-TS, DV, etc.

• The AVR-4806Cl is compatible with a data transfer speed of up to \$400.

The IEEE1394 maximum data transfer speeds are defined as approximately 100, 200 or 400 Mbps, expressed respectively as S100, S200 and S400. When S100 or S200 devices are connected, the actually transfer rate may be slower than 400 Mbps, depending on the device's specifications. As far as possible, interconnect devices with the same maximum data transfer rate.

• The AVR-4806Cl is compatible with the DTCP (Digital Transmission Content Protection) system.

Copyright protection system

In order to play the sound of DVD Audio discs, Super Audio CDs or DVDs (aside from freely copiable discs) using IEEE1394 connections, both the player and receiver must be compatible with the DTCP (Digital Transmission Content Protection) system.

DTCP is a copy protection technology that involves data encryption and authentication of the other device. Refer to your player's operating instructions.

The AVR-4806Cl's IEEE1394 device interface is designed based on the standards below.

- 1) IEEE Std. 1394a-2000, Standard for High Performance Serial Bus
- 2) Audio and Music Data Transmission Protocol 2.0

It is compatible with IEC60958 bit stream, DVD-Audio and Super Audio CD within AM824 sequence adaptation layers within these standards.

About HDMI

"HDMI" is the abbreviation of "High-Definition Multimedia Interface".

This is a digital interface standard for next generation TVs developed based on the DVI (Digital Visual Interface) used for computer displays, etc., and optimized for use in non-professional equipment. With it, non-compressed digital video and multi-channel audio signals can be transferred with a single connector, eliminating the need to use separate cables for the picture and sound and making it possible to make connectors smaller. HDMI is also compatible with HDCP (High-bandwidth Digital Contents Protection), a technology for protecting copyrights that encrypts digital video signals in the same was as with DVI.

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• HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

AL24 Plus (AL24 Processing Plus)

□ AL24 Processing for All Channels

DENON has further developed its proprietary AL24 Processing, an analog waveform reproduction technology, to support the 192 kHz sampling frequency of DVD-Audio. AL24 Processing Plus, thoroughly suppresses quantization noise associated with D/A conversion of LPCM signals to reproduce the low-level signals with optimum clarity that will bring out all the delicate nuances of the music.

Equipped foe not only front left and right channels but also for the surround left and right, center and subwoofer channels.

Windows Media Connect

This is a media server provided free of charge by Microsoft since October 2004.

It operates with all types of music jukebox programs, but is optimum with Windows Media Player Ver. 10.

Windows Media Connect can be used to play playlists created on jukebox software such as Windows Media Player Ver. 10, as well as WMA, DRM WMA, MP3 and WAV files.

Explanation for installing Windows Media Connect

- 1. If installation of Windows XP Service Pack 2 is not yet complete, either download free of charge from Microsoft or via the Windows Update installer.
- Download the latest version of Windows Media Player Ver.
 either directly from Microsoft or using the Windows Update installer.
- Download Windows Media Connect (usable since October 12, 2004) either directly from Microsoft or using the Windows Update installer.

vTuner

This is an Internet radio free online contents server. Note that usage fess are included in upgrade costs.

For inquiries about this service, visit the vTuner site below. vTuner website: <u>http://www.radiodenon.com</u>

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Windows Media DRM

A copyright-protected technology developed by Microsoft.

- The PlaysForSure logo, Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- Content providers are using the digital rights management technology for Windows Media contained in this device ("WM-DRM") to protect the integrity of their content ("Secure Content") so that their intellectual property, including copyright, in such content is not misappropriated. This device uses WM-DRM software to play Secure Content ("WM-DRM Software"). If the security of the WM-DRM Software in this device has been compromised. owners of Secure Content ("Secure Content Owners") way request that Microsoft revoke the WM-DRM Software's right to acquire new licenses to copy, display and/or play Secure Content. Revocation does not alter the WM-DRM Software's ability to play unprotected content. A list of revoked WM-DRM Software is sent to your device whenever you download a license for Secure Content from the Internet or from PC. Microsoft may, in conjunction with such license, also download revocation list onto your device on behalf of Secure Content Owners.
- No signals are output to the digital output terminals when playing copyright-protected music files.
- The AVR-4806Cl is compatible with "MPEG-1 Audio Layer-3" MP3 files (with sampling frequencies of 32, 44.1 or 48 kHz). It is not compatible with "MPEG-2 Audio Layer-3", "MPEG-2.5 Audio Layer-3", "MP1" or "MP2" files.
- The AVR-4806Cl is compatible with bit rates of 32 to 320 kbps for MP3 files and 48 to 192 kbps for WMA files.
- The AVR-4806CI is compatible with WMA files with sampling frequencies of 32, 44.1 or 48 kHz.
- The AVR-4806CI is compatible with MP3 ID3-Tag (Ver.2).
- The AVR-4806CI is compatible with WMA meta tags.
- With the AVR-4806CI, the folder names, file names, etc., can be displayed on the main unit's display and the OSD. Up to 95 characters can be displayed. A "?" mark is displayed in place of non-compatible characters.

narameters	
modes and	
Surround	

						Signals ar	Signals and adjustability in the different modes	n the different	modes					
			Channel output	Ţ				Paramet	Parameter (default values are shown in parentheses)	les are show	n in parenthes	es)		
Surround Mode	FRONT L/R	CENTER	SURROUND L/R	SURROUND BACK L/R	SUB- WOOFER	D. COMP *1	LFE *2	AFDM *1	SB CH OUT (MODE)	TONE CONTROL	CINEMA EQ.	MODE (DECODER)	ROOM SIZE	EFFECT LEVEL
PURE DIRECT, DIRECT	0	×	×	×	0	0 (OFF)	0 (0 dB)	×	×	×	×	×	×	×
DSD DIRECT	0	×	×	×	0	×	O (0 dB)	×	×	×	×	×	×	×
DSD MULTI DIRECT	0	0	0	0	0	×	O (0 dB)	×	0	×	×	×	×	×
MULTI CH DIRECT	0	0	0	0	0	×	O (0 dB)	(NO) ()	0	×	×	×	×	×
STEREO	0	×	×	×	0	(OFF) (0 (0 dB)	×	×	(0 dB)	×	×	×	×
EXT. IN	0	0	0	0	0	×	×	×	×	×	×	×	×	×
MULTI CH IN	0	0	0	0	0	×	O (0 dB)	(NO) ()	0	(0 dB)	×	×	×	×
WIDE SCREEN	0	0	0	0	0	O (OFF)	O (0 dB)	×	0	(0 dB)	(OFF)	×	×	O (ON, 10)
HOME THX CINEMA (2ch)	0	0	0	0	0	×	×	×	0	×	×	○ (PLIIX C)	×	×
HOME THX CINEMA (5.1ch)	0	0	0	0	0	×	O (0 dB)	(NO) ()	0	×	×	×	×	×
DOLBY PRO LOGIC IIX	0	0	0	0	0	(OFF) (×	×	0	(0 dB)	O (NOTE3)	O (CINEMA)	×	×
DOLBY PRO LOGIC II	0	0	0	×	0	(OFF)	×	×	0	(0 dB)	O (NOTE4)	O (CINEMA))	×	×
DTS NEO:6	0	0	0	0	0	(OFF)	×	×	0	(0 dB)	O (NOTE3)	O (CINEMA)	×	×
DOLBY DIGITAL	0	0	0	0	0	0 (OFF)	O (0 dB)	(NO) ()	0	(0 dB)	(OFF)	×	×	×
DTS SURROUND	0	0	0	0	0	(OFF)	O (0 dB)	(NO) ()	0	(0 dB)	(OFF)	×	×	×
7CH STEREO	0	0	0	0	0	0 (OFF)	O (0 dB)	×	0	(0 dB)	×	×	×	×
SUPER STADIUM	0	0	0	0	0	(OFF) (O (0 dB)	×	0	O (NOTE1)	×	×	O (Medium)	0 (10)
ROCK ARENA	0	0	0	0	0	0 (OFF)	O (0 dB)	×	0	O (NOTE2)	×	×	O (Medium)	0 (10)
JAZZ CLUB	0	0	0	0	0	(OFF)	O (0 dB)	×	0	(0 dB)	×	×	O (Medium)	0 (10)
CLASSIC CONCERT	0	0	0	0	0	(OFF)	O (0 dB)	×	0	(0 dB)	×	×	O (Medium)	0 (10)
MONO MOVIE	0	0	0	0	0	(OFF)	O (0 dB)	×	0	(0 dB)	×	×	O (Medium)	0 (10)
VIDEO GAME	0	0	0	0	0	0 (OFF)	O (0 dB)	×	0	(0 dB)	×	×	O (Medium)	0 (10)
MATRIX	0	0	O	0	O	(OFF) ((0 dB)	×	0	(0 dB)	×	×	×	×
	 ○: Signal / / × : No signa ■ Turned o 	Signal / Adjustable No signal / Not adjustable Turned on or off by speakk	Signal / Adjustable No signal / Not adjustable Turned on or off by speaker configuration setting	uration setting		 Able X : Unable NOTE1 : BASS +6 dB, NOTE2 : BASS +6 dB, NOTE2 : This paramett NOTE4 : This paramett *1: When playing Doll *2: When playing Doll 	 C: Able X: Unable NOTE1: BASS +6 dB, TREBLE 0 dB NOTE2: BASS +6 dB, TREBLE +4 dB NOTE2: This parameter is availabe when the "MODE" is set to "CINEMA". NOTE4: This parameter is availabe when the "MODE" is set to "CINEMA". *1: When playing Dolby Digital and DTS signals. *2: When playing Dolby Digital, DTS, DVD-Audio and Super Audio CD. 	E 0 dB E +4 dB iilabe when the iilabe when the al and DTS sigr	e "MODE" is s » "MODE" is s als. udio and Supe	is set to "CINEMA". is set to "CINEMA" or "PL" uper Audio CD.	ЛА". ЛА" or "PL".			

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			Signals	and adjustabilit	Signals and adjustability in the different modes	nt modes		
			Parameter	(default values	Parameter (default values are shown in parentheses	barentheses)		
Surround Mode	Dolby Digital		SUBWOOFER	PRO LOGIO	PRO LOGIC II/II× MUSIC MODE only	MODE only	NEO:6 MUSIC MODE only	EXT. IN only
	NIGHT mode	UELAT IIIVIE	ON/OFF	PANORAMA	DIMENSION	CENTER WIDTH	CENTER IMAGE	SW ATT
PURE DIRECT, DIRECT	O (OFF)	×	0	×	×	×	×	×
DSD DIRECT	×	×	0	×	×	×	×	×
DSD MULTI DIRECT	×	×	×	×	×	×	×	×
MULTI CH DIRECT	×	×	×	×	×	×	×	×
STEREO	0 (OFF)	×	×	×	×	×	×	×
EXT. IN	×	×	×	×	×	×	×	0
MULTI CH IN	×	×	×	×	×	×	×	×
WIDE SCREEN	0 (OFF)	×	×	×	×	×	×	×
HOME THX CINEMA (2ch)	(OFF)	×	×	×	×	×	×	×
HOME THX CINEMA (5.1ch)	(OFF)	×	×	×	×	×	×	×
DOLBY PRO LOGIC IIX	O (OFF)	×	×	(OFF)	0 (3)	0 (3)	×	×
DOLBY PRO LOGIC II	0 (OFF)	×	×	(OFF)	0 (3)	0 (3)	×	×
DTS NEO:6	(OFF)	×	×	×	×	×	0 (0.3)	×
DOLBY DIGITAL	0 (OFF)	×	×	×	×	×	×	×
DTS SURROUND	×	×	×	×	×	×	×	×
7CH STEREO	(OFF)	×	×	×	×	×	×	×
SUPER STADIUM	O (OFF)	×	×	×	×	×	×	×
ROCK ARENA	0 (OFF)	×	×	×	×	×	×	×
JAZZ CLUB	0 (OFF)	×	×	×	×	×	×	×
CLASSIC CONCERT	0 (OFF)	×	×	×	×	×	×	×
MONO MOVIE	0 (OFF)	×	×	×	×	×	×	×
VIDEO GAME	0 (OFF)	×	×	×	×	×	×	×
MATRIX	(OFF)	O (30 msec)	×	×	×	×	×	×
	 Signal / / Signal / / No signa Turned o 	Signal / Adjustable No signal / Not adjustable Turned on or off by speaker configuration setting	le aker configurati	on setting	O: Adjustable ×: Not adjustable	e stable		

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Button								lnp	Input signals								
					DTS				DOLBY [DIGITAL			DVI	DVD-AUDIO		Super Au	Audio CD
Surround Mode	Note	ANALOG	PCM	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS [DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1ch)	DOLBY DIGITAL (3, 4, 5ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD- Audio (2ch)	176.4/ 192kHz	DSD (multi ch)	DSD (2ch)
HOME THX CINEMA											-						
ES DSCRT6.1 + THX	*	×	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×
ES MTRX6.1 + THX	*1	×	×	×	0	0	0	×	×	×	×	×	×	×	×	×	×
THX SURROUND EX	*	×	×	×	×	×	×	0	0	0	0	×	0	×	×	0	×
THX Ultra2 Cinema	*2	×	×	0	0	0	0	0	0	0	0	×	0	×	×	0	×
THX Music Mode	*2	×	×	0	0	0	0	0	0	0	0	×	0	×	×	0	×
THX Games mode	*2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
THX 5.1		×	×	0	0	0	0	0	0	0	0	×	0	×	×	0	×
PLIX C + THX	*4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLI C + THX		0	0	×	×	×	×	×	×	×	×	0	×	0	0	×	0
DOLBY PL + THX		0	0	×	×	×	×	×	×	×	×	0	×	0	0	×	0
NE0:6 + THX		0	0	×	×	×	×	×	×	×	×	0	×	0	0	×	0
STANDARD																	
DTS SURROUND																	
DTS ES DSCRT6.1	*	×	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×
DTS ES MTRX6.1	*	×	×	×	0	×	×	×	×	×	×	×	×	×	×	×	×
DTS SURROUND		×	×	0	0	•	×	×	×	×	×	×	×	×	×	×	×
DTS 96/24		×	×	×	×	×	•	×	×	×	×	×	×	×	×	×	×
DTS + PLILX CINEMA	*2	×	×	0	0	0	0	×	×	×	×	×	×	×	×	×	×
DTS + PLIX MUSIC	*	×	×	0	0	0	0	×	×	×	×	×	×	×	×	×	×
DTS + NE0:6	*	×	×	×	0	0	0	×	×	×	×	×	×	×	×	×	×
DTS NEO:6 CINEMA		0	0	×	×	×	×	×	×	×	×	0	×	0	0	×	0
DTS NE0:6 MUSIC		0	0	×	×	×	×	×	×	×	×	0	×	0	0	×	0
DOLBY SURROUND																	
DOLBY DIGITAL EX	*	×	×	×	×	×	×	0	0	0	0	×	×	×	×	×	×
DOLBY DIGITAL		×	×	×	×	×	×	0	•	•	•	×	×	×	×	×	×
DOLBY DIGITAL+PLIIX CINEMA	*2	×	×	×	×	×	×	0	0	0	0	×	×	×	×	×	×
DOLBY DIGITAL+PLIIX MUSIC	*	×	×	×	×	×	×	0	0	0	0	×	×	×	×	×	×
DOLBY PRO LOGIC IIX CINEMA		0	0	×	×	×	×	×	×	×	×	•	×	0	0	×	0
DOLBY PRO LOGIC IIX MUSIC		0	0	×	×	×	×	×	×	×	×	0	×	0	0	×	0
DOLBY PRO LOGIC IIX GAME		0	0	×	×	×	×	×	×	×	×	0	×	0	0	×	0
DOLBY PRO LOGIC II CINEMA		0	0	×	×	×	×	×	×	×	×	0	×	0	0	×	0
DOLBY PRO LOGIC II MUSIC		0	0	×	×	×	×	×	×	×	×	0	×	0	0	×	0
DOLBY PRO LOGIC II GAME		0	0	×	×	×	×	×	×	×	×	0	×	0	0	×	0
DOLBY PRO LOGIC		0	0	×	×	×	×	×	×	×	×	0	×	0	0	×	0
MULTI CH IN																	
MULTI CH IN		×	×	×	×	×	×	×	×	×	×	×	•	×	×	•	×
MULTI IN + PLILX CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	0	×	×	0	×
MULTI IN + PLILX MUSIC	*	×	×	×	×	×	×	×	×	×	×	×	0	×	×	0	×

 \Box Differences in surround mode names depending on the input signals

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Additional Information

DUILOII					DTS			dul	Input signals DOLBY DIGITAI	DIGITAL					DVD-AUDIO	DVD-AUDIO
Surround Mode	Note	ANALOG	LINEAR PCM	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS D 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1ch)	DOLBY DIGITAL (3, 4, 5ch)		DOLBY DIGITAL (2ch)	DOLBY DVD-Aud DIGITAL (multi ch (2ch)	DOLBY DVD-Aud DIGITAL (multi ch (2ch)	DOLBY DVD-Aud DIGITAL (multi ch (2ch)
DIRECT									- -				r	-		
DIRECT		0	0	0	0	0	0	0	0	0	0		0		×	×
DSD DIRECT		×	×	×	×	×	×	×	×	×	×				×	×
DSD MULTI DIRECT		×	×	×	×	×	×	×	×	×	×	×		×		
MULTI CH DIRECT		×	×	×	×	×	×	×	×	×	×	×		0	× 0	×
M DIRECT + PLIIX CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×		0		×
M DIRECT + PLIIX MUSIC	*	×	×	×	×	×	×	×	×	×	×	×		0	×	
PURE DIRECT																
PURE DIRECT		0	0	0	0	0	0	0	0	0	0	0		×	0 ×	
DSD PURE DIRECT		×	×	×	×	×	×	×	×	×	×	×		×		
DSD MULTI PURE		×	×	×	×	×	×	×	×	×	×	×		×		
MULTI CH PURE DIRECT		×	×	×	×	×	×	×	×	×	×	×		0		
M PURE D + PLILX CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×		0	×	×
M PURE D + PLIIX MUSIC	*	×	×	×	×	×	×	×	×	×	×	×		0		
DSP SIMULATION																
WIDE SCREEN		0	0	0	0	0	0	0	0	0	0	0		0		0
SUPER STADIUM		0	0	0	0	0	0	0	0	0	0	0		0	0	
ROCK ARENA		0	0	0	0	0	0	0	0	0	0	0		0		0
JAZZ CLUB		0	0	0	0	0	0	0	0	0	0	0		0		0
CLASSIC CONCERT		0	0	0	0	0	0	0	0	0	0	0		0		0
MONO MOVIE		0	0	0	0	0	0	0	0	0	0	0		0		0
VIDE0 GAME		0	0	0	0	0	0	0	0	0	0	0		0		0
MATRIX		0	0	0	0	0	0	0	0	0	0	0		0		0
7CH STEREO	۳ *	0	0	0	0	0	0	0	0	0	0	0		0		0
STEREO																
STEREO		•	•	0	0	0	0	0	0	0	0	0		0	•	•

- Mode fixed when AFDM is ON
 Selectable mode
 Non-selectable mode

- NOTE :
 *1: This mode is not available when the Surround Back speaker setup is set to "None".
 *2: This mode is not available when the Surround Back speaker setup is set to "1spkr" or "None".
 *3: If the Surround Back speaker setup is set to "None", then "5CH STEREO" is displayed.
 *4: For input signals other than 2-channel signals, this mode cannot be selected when surround back speaker is set to "1spkr" or "None".

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Relationship between the video input signal and monitor output according to the video convert mode settings MAIN ZONE

VC 1		Input signa	als			MONITO	DR OUT	
Video convert	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDE0	VIDEO
	×	×	×	×	×	×	×	×
	×	×	×	0	VIDEO	VIDEO	VIDEO	VIDEO
	×	×	0	×	S-VIDEO	S-VIDE0	S-VIDEO	S-VIDE0
	×	×	0	0	S-VIDEO	S-VIDE0	S-VIDE0	S-VIDE0
	×	O (1080p)	×	×	×	COMPONENT	×	×
	×	O (480p ~ 720p)	×	×	COMPONENT	COMPONENT	×	×
	×	O (480i/576i)	×	×	COMPONENT	COMPONENT	COMPONENT	COMPONENT
	×	O (1080p)	×	0	VIDEO	COMPONENT *1	VIDEO	VIDEO
	×	O (480p ~ 720p)	×	0	COMPONENT *1	COMPONENT *1	VIDEO *3	VIDEO
	×	O (480i/576i)	×	0	COMPONENT *1	COMPONENT *1	COMPONENT *1	VIDEO
	×	O (1080p)	0	×	S-VIDEO	COMPONENT *2	S-VIDE0	S-VIDE0
	×	O (480p ~ 720p)	0	×	COMPONENT *2	COMPONENT *2	S-VIDE0	S-VIDEO 🛪
	×	O (480i/576i)	0	×	COMPONENT *2	COMPONENT *2	S-VIDE0	S-VIDEO 🛪
	×	O (1080p)	0	0	S-VIDEO	COMPONENT *2	S-VIDE0	S-VIDE0
	×	O (480p ~ 720p)	0	0	COMPONENT *2	COMPONENT *2	S-VIDE0	S-VIDEO 🛪
01	×	O (480i/576i)	0	0	COMPONENT *2	COMPONENT *2	S-VIDE0	S-VIDEO 🛪
ON	0	×	×	×	HDMI	×	×	×
	0	×	×	0	HDMI	VIDEO *2	VIDEO	VIDEO
	0	×	0	×	HDMI	S-VIDEO *2	S-VIDE0	S-VIDE0
	0	×	0	0	HDMI	S-VIDEO *2	S-VIDE0	S-VIDE0
	0	O (1080p)	×	×	HDMI	COMPONENT	×	×
	0	O (480p ~ 720p)	×	×	HDMI	COMPONENT	X	×
	0	O (480i/576i)	×	×	HDMI	COMPONENT	COMPONENT	COMPONENT
	0	O (1080p)	×	0	HDMI *1	COMPONENT *1	VIDEO	VIDEO
	0	O (480p ~ 720p)	×	0	HDMI *1	COMPONENT *1	VIDEO #3	VIDEO
	0	O (480i/576i)	×	0	HDMI *1	COMPONENT *1	COMPONENT *1	VIDEO
	0	O (1080p)	0	×	HDMI *2	COMPONENT *2	S-VIDE0	S-VIDE0
	0	O (480p ~ 720p)	0	×	HDMI *2	COMPONENT *2	S-VIDE0	S-VIDEO 🖇
	0	O (480i/576i)	0	×	HDMI *2	COMPONENT *2	S-VIDE0	S-VIDEO 🛪
	0	O (1080p)	0	0	HDMI *2	COMPONENT *2	S-VIDE0	S-VIDE0
	0	O (480p ~ 720p)	0	0	HDMI *2	COMPONENT *2	S-VIDE0	S-VIDEO 🛪
	0	O (480i/576i)	0	0	HDMI *2	COMPONENT *2	S-VIDE0	S-VIDEO 🛪

×: No signal

480p ~ 720p : 480p/576p/1080i/720p

NOTE:

- The MAIN ZONE video conversion function is compatible with the following format: NTSC, PAL, SECAM, NTSC4.43, PAL-N, PAL-M and PAL-60.
- When SECAM signals of video input are up-converted, the signals are output in PAL format from the S-Video connector.
- When the input signal is set to component video 1080p, the signals cannot be output to the HDMI monitor output terminal.

*1

*2

*5

On screen display superimposed on video signal and output.

On screen display superimposed on S-Video signal and output.

*3 *4

Video signals are not output when the analog to HDMI convert function is set to "ON". When the "Analog to HDMI Convert" function is set to "ON", the component video input signals are converted before being output. When the "Analog to HDMI Convert" function is set to "ON", video input signals are converted before being output.

signals are output.

Signals are output.
 Son screen display only displayed for SYSTEM SETUP, SURROUND PARAMETER and ON SCREEN buttons.
 When "OFF" is selected for the "Analog to HDMI Convert" setting, no video signals other than the HDMI input signal are output.
 Including the contents of and above.

Video convert	S-VIDEO MONITOR		Input s	ignals				MON	TOR OUT		
video convert	OUT	HDMI	COMPONENT	S-VIDE0	VIDEO	HDMI		COMPONENT	S-VIDE0	VIDEO	
	-	×	×	Х	×	×	*1	× *1	× *1	х	
	-	×	×	×	0	×	*1	× *1	× *1	VIDEO	
	-	×	×	0	×	×	*2	× *2	S-VIDEO	×	;
	Used	×	×	0	0	×	*2	× *2	S-VIDEO	VIDEO	
	Not used	×	×	0	0	×	*1	× *1	S-VIDEO *1	VIDEO	
	-	×	0	×	×	×	*1	COMPONENT *1	X *1	Х	
	-	×	0	Х	0	×	*1	COMPONENT *1	× *1	VIDEO	
	_	×	0	0	×	×	*2	COMPONENT *2	S-VIDE0	×	
	Used	×	0	0	0	×	*2	COMPONENT *2	S-VIDEO	VIDEO	
055	Not used	×	0	0	0	×	*1	COMPONENT *1	S-VIDEO *1	VIDEO	
OFF	-	0	×	×	×	HDMI	*1	× *1	× *1	Х	
	-	0	×	Х	0	HDMI	*1	× *1	× *1	VIDEO	
	-	0	×	0	×	HDMI	*2	× *2	S-VIDEO	×	
	Used	0	×	0	0	HDMI	*2	× *2	S-VIDEO	VIDEO	
	Not used	0	×	0	0	HDMI	*1	× *1	S-VIDEO *1	VIDEO	
	-	0	0	×	Х	HDMI	*1	COMPONENT	× *1	Х	
	-	0	0	×	0	HDMI	*1	COMPONENT	× *1	VIDEO	
	-	0	0	0	×	HDMI	*2	COMPONENT	S-VIDEO	×	
	Used	0	0	0	0	HDMI	*2	COMPONENT	S-VIDEO	VIDEO	
	Not used	0	0	0	0	HDMI	*1	COMPONENT	S-VIDEO *1	VIDEO	
	•	O: Signal	input			× : N	ot ou	itput			

O: Signal input ×: No signal

X Increase of the second second

• When "Analog to HDMI Convert " is set to "OFF", no signals other than the HDMI input signals are output to the HDMI monitor output terminal.



Audio section Power amplifier Rated output: Front[.] 140 W + 140 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) 165 W + 165 W (6 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) Center[.] 140 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) 165 W (6 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) Surround (A, B): 140 W + 140 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) 165 W + 165 W (6 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) Surround Back: 140 W + 140 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) 165 W + 165 W (6 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.) **Dynamic power:** 180 W x 2 ch (8 Ω/ohms) 280 W x 2 ch (4 Ω /ohms) **Output terminals:** $6 \sim 16 \Omega$ /ohms Front, Center, Surr. Back Surround: A or B $6 \sim 16 \Omega$ /ohms $8 \sim 16 \Omega$ /ohms A + B Analog Input sensitivity / input impedance: 200 mV / 47 kΩ/kohms Frequency response: 10 Hz ~ 100 kHz: +0, -3 dB (DIRECT mode) S/N: 102 dB (DIRECT mode) Distortion: 0.005 % (20 Hz ~ 20 kHz) (DIRECT mode) Rated output: 1.2 V Digital D/A output: Rated output — 2 V (at 0 dB playback) Total harmonic distortion — 0.005 % (1 kHz, at 0 dB) S/N ratio — 110 dB Dynamic range — 108 dB **Digital input:** Format — Digital audio interface Phono equalizer (PHONO input — REC OUT) Input sensitivity: 2.5 mV **RIAA deviation:** ±1 dB (20 Hz to 20 kHz) S/N: 74 dB (A weighting, with 5 mV input) Rated output / Maximum output: 150 mV / 8 V **Distortion factor:** 0.03 % (1 kHz, 3 V) Video section Standard video terminals Input / output level and impedance: 1 Vp-p, 75 Ω/ohms Frequency response: 5 Hz ~ 10 MHz — +0, -3 dB S-Video terminals Input / output level and impedance: Y (brightness) signal — 1 Vp-p, 75 Ω/ohms C (color) signal — 0.286 Vp-p, 75 Ω /ohms Frequency response: 5 Hz ~ 10 MHz — +0, -3 dB · Color component video terminal Input / output level and impedance: Y (brightness) signal — 1 Vp-p, 75 Ω/ohms PB/CB signal — 0.7 Vp-p, 75 Ω/ohms PR/CR signal — 0.7 Vp-p, 75 Ω /ohms Frequency response: 5 Hz ~ 100 MHz - +0, -3 dB

Specifications

Tuner section Receiving Range: Usable Sensitivity: 50 dB Quieting Sensitivity:	[FM] (note: μ 87.5 MHz ~ 1.0 μV (11.2 MONO STEREO		[AM] 520 kHz ~ 1710 kHz 18 μV
S/N (IHF-A):	MONO STEREO	77 dB 72 dB	50 dB
Total Harmonic Distortion (at 1 kHz):	MONO STEREO	0.15 % 0.3 %	
General			
Power supply: Power consumption:	AC 120 V, 60 10.6 A 1 W Max (St		
Maximum external dimensions: Mass:	434 (W) x 17 23.8 kg (52 l	78 (H) x 500 (D) mm (17-3/32″ x 7-0″ x 19- bs 8 oz)	11/16")
Remote control unit (RC-1036) Batteries: External dimensions: Mass:	63 (W) x 238	e (two batteries) 3 (H) x 31 (D) mm (2-31/64" x 9-3/8" x 1-7/ ox. 6.7 oz) (including batteries)	/32")

* For purposes of improvement, specifications and design are subject to change without notice.

List of preset codes / Liste de codes préréglés

DVD	
3D Lab	40539
Acoustic Solutions	40713, 40730, 41242
Advent	41016
AEG	40770, 40790
AFK	41051
Afreey	40698
Aim	40699, 40778, 40833, 41165
Airis	41250
Aiwa	40533, 40641
Akai	40690, 40705, 40770, 40790, 40884, 40899,
	41089, 41115
Akira	40699
Akura	41051
Alba	40539, 40672, 40695, 40699, 40713, 40717,
	40730, 40783, 41051
Alco	40790
Allegro	40869
Amitech	40770, 40784, 40850
Amphion Media Wo	rks
	40872
Amstrad	40713
AMW	40872
Ansonic	40774, 40831
Apex	40672, 41061
Apex Digital	40672, 40717, 40755, 40794, 40796, 40797,
	40830, 41004, 41020, 41056, 41061, 41100
Arianet	40770
Aspire Digital	41168, 41407
Audiosonic	40690, 41265
Audiovox	40717, 40790, 41041, 41071, 41072, 41121,
	41122
Awa	40730, 40872
Axion	40730, 41071, 41072
В&К	40655, 40662
Basic Line	40713
Baze	41165
Bellagio	41004
Black Diamond	40698, 40713, 40833, 40884
Blaupunkt	40717
Blue Parade	40571
Blue Sky	40651, 40672, 40695, 40713, 40769, 40778, 40804
Boghe	41004
Boman	40783
Brainwave	40770, 41115
Brandt	40503, 40651
Broksonic	40695, 40868

Bush	40516,	40672,	40690,	40695,	40699,	40713,
	40717,	40730,	40778,	40831,	40833,	40884,
	41051,	41165				
C-Tech	40798					
Cambridge Soundwor	rks					
	40690					
Cat	40699,	41087				
CAVS	41057					
CCE	40730					
Celestial	41020					
Centrex	40672,	41004				
Centrum	40713					
CGV	41115					
Changhong	40627,	41061				
Cinea	40831					
Cineral	40730					
Cinetec	40713					
cineULTRA	40699					
CineVision	40833,	40869,	40876			
Citizen	41277					
Classic	40730,	41730				
Clatronic	40672,	41165				
Clayton	40713					
Coby	40730,	40770,	40778,	40852,	41086,	41107,
	41115,	41165,	41177,	41351		
Compacks	40826,	41265				
Conia	40516,	40672,	40798,	40852,	41004	
Continental Edison	40768,	40831				
Craig	40831					
Crown	40690,	40769,	40770,	41115		
Curtis Mathes	41087					
Cybercom	40831					
CyberHome	40816,	40874,	41023,	41024,	41117,	41129
Cydectin	41074					
Cytron	40651,	40774				
D-Vision	41115					
Daenyx	40872					
Daewoo	40705,	40770,	40784,	40833,	40869,	40872,
	41169,	41172,	41234,	41242		
Daewoo International	40872					
Dansai	40770,	40783,	41115			
Dantax	40539,	40713,	40790,	41089		
Daytek	40872					
Dayton	40872					
DCE	40831					
DEC	40774,	40778				
Decca	40770,	41115				
Denon	40490,	40634,	*[4147	0] , 4163	34	

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Denver	40699, 40778, 41107, 41165, 41353, 41359
Desav	40770
Desay	40800, 41407
Diamond	40651, 40768, 40790
Dick Smith Electron	nics
	40833, 41730
Digihome	40713
digiRED	40717
Digitor	40651, 40690
Digitrex	40672, 41056, 41100
DIGIXmedia	40826
DiK	40774, 40831
Disney	40675, 41270
DiViDo	40705
DK Digital	40831
DMTech	40783
Dragon	40831
DSE	40833, 41730
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	41068, 41085
Durabrand	40713, 40831, 41003, 41127
DVD2000	40521
DVX	40768
ECC	40730
Electrohome	40770, 40784
Elfunk	40850
Elin	40770
Ellion	40850
Elta	40672, 40690, 40770, 40850, 41051, 41115
Emerson	40591, 40675, 40705, 40816, 40821, 41268
Encore	40698
Enterprise	40591
Enzer	40770, 40784
EuroLine	41115
Fenner	40651, 40769
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Finlux	40591, 40672, 40741, 40770, 40783, 41165
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Fisher	40670
Funai	40675, 40695, 41334
Gateway	41073, 41077, 41158
GE	40522, 40717, 40815
General Electric	40717
Global Solutions	40768
Go Video	40715, 40741, 40744, 40783, 40833, 40869,
	41044, 41075, 41099, 41144, 41158, 41304,
	41730
Go Vision	41071, 41072
GoldStar	40591, 40741
concolui	

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Nordmende	00421, 00455, 00520
Octagon	00421, 00613
OctalTV	01294, 01505

Okano	00243,	00331,	00442,	00668		
Opentel	01232,	01412				
Optex	00114,	00136,	00417,	00592,	00834,	01043,
	01283					
Optus	00879,	01143				
Orbis	01334					
Orbit	00351					
Orbitech	00114,	00157,	00421,	00501,	00548,	00834,
	01099,	01100				
Origo	00497					
OSAT	00345					
Ouralis	01205					
Oxford	00515,	00668				
Pace	00200,	00241,	00329,	00455,	00497,	00720,
	00791,	00795,	00847,	00853,	00867,	00879,
	00887,	01175,	01323,	01356,	01423,	01623
Pacific Satellite	00834					
Packard Bell	01111					
Packsat	00710					
Palcom	00299,	00587,	01161			
Palladium	00243,	00396,	00421,	00501,	00571	
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Panasonic	00152,	00247,	00455,	00500,	00701,	00847,
	01304,	01320,	01404,	01508,	01526	
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Prima	00795					
Primacom	01111					

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USDTV Van Hunen Variosat Vega Ventana Vestel Victor Visionic Visiosat Vivid	01535 01535 01161 00173 00369 00200 00114, 00742, 01251 00492 01105, 01206, 01279, 01283 00114, 00142, 00690, 00710, 00713 01162
USDTV Van Hunen Variosat Vega Ventana Vestel Victor Visionic Visiosat Vivid	01535 01535 01161 00173 00369 00200 00114, 00742, 01251 00492 01105, 01206, 01279, 01283 00114, 00142, 00690, 00710, 00713 01162 00869
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USDTV Van Hunen Variosat Vega Ventana Vestel Victor Visionic Visiosat Visiosat Vivid Vorm Vortec Vortec VTech Weltech Weltech Wetekom Wetekom Wibo Wintel Wisi	01535 01535 01161 00173 00369 00200 0014, 00742, 01251 00492 01105, 01206, 01279, 01283 0114, 00142, 00690, 00710, 00713 01162 00144 00369 00421 00321, 00351, 00690, 00818 00421 00321, 00351, 00690, 00818 00455 00157 00455 00243 00243 00243 00243 00250 00455, 00501, 00607, 00638, 00690
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- *1 : These preset codes can be recorded in the SAT/CBL mode.
 : Ces codes de présélection peuvent être enregistrés en mode SAT/CBL.
- *2 : These preset codes can be recorded in the DVD mode.
 : Ces codes de présélection peuvent être enregistrés en mode DVD.
- *3 : These preset codes can be recorded in the TV mode.
 : Ces codes de présélection peuvent être enregistrés en mode TV.
- *4: This preset code can be recorded in the VCR mode.
 - : Ces codes de présélection peuvent être enregistrés en mode VCR.
- [] : Preset codes set upon shipment from the factory.
 - : Les codes préréglés diffèrent en fonctiom des livraison de l'usine.

DVD preset codes / Codes préréglés DVD				
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