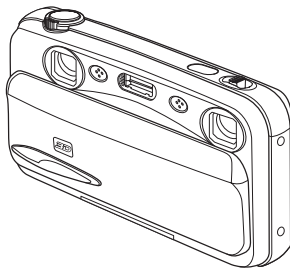


DIGITAL CAMERA

FINEPIX REAL 3D W3

Owner's Manual

Thank you for your purchase of this product. This manual describes how to use your FUJIFILM FINEPIX REAL 3D **W3** digital camera and the supplied software. Be sure that you have read and understood its contents before using the camera.



Taking 3D Pictures

For best results, position yourself at the appropriate distance from your subject (pg. 16) and be careful not to obstruct the lenses (pg. 17).

For information on related products, visit our website at http://www.fujifilm.com/products/digital_cameras/index.html

Before You Begin**First Steps****Basic Photography and Playback****More on Photography****More on Playback****Movies****Connections****Menus****Technical Notes****Troubleshooting****Appendix**

IMPORTANT SAFETY INSTRUCTIONS

- **Read Instructions:** All the safety and operating instructions should be read before the appliance is operated.
- **Retain Instructions:** The safety and operating instructions should be retained for future reference.
- **Heed Warnings:** All warnings on the appliance and in the operating instructions should be adhered to.
- **Follow Instructions:** All operating and use instructions should be followed.

Installation

Power Sources: This video 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 appliance dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

Grounding or Polarization: This video product is 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.

Alternate Warnings: This video product is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

Overloading: Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

Ventilation: Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video 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 video product on a bed, sofa, rug, or other similar surface.

This video 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.

This video product should never be placed near or over a radiator or heat register.

Attachments: Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

Water and Moisture: Do not use this video 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.

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 appliance.

Accessories: Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

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

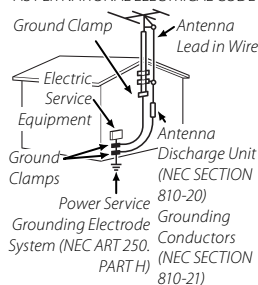


Antennas

Outdoor Antenna Grounding: If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect 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.

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.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE



Use

Cleaning: Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Object and Liquid Entry: Never push objects of any kind into this video 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 video product.

Lightning: For added protection for this video product receiver 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 video product due to lightning and power-line surges.

Service

Service: Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring Service: Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

When the power-supply cord or plug is damaged.

If liquid has been spilled, or objects have fallen into the video product.

If the video product has been exposed to rain or water.

If the video product has been dropped or the cabinet has been damaged.

If the video product does not operate normally be 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 video product to its normal operation.

When the video product exhibits a distinct change in performance - this indicates a need for service.

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 video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.



Be sure to read this notes before using

Safety Notes




- Make sure that you use your camera correctly. Read these Safety Notes and your *Owner's Manual* carefully before use.
- After reading these Safety Notes, store them in a safe place.

About the Icons

The icons shown below are used in this document to indicate the severity of the injury or damage that can result if the information indicated by the icon is ignored and the product is used incorrectly as a result.

	WARNING	This icon indicates that death or serious injury can result if the information is ignored.
	CAUTION	This icon indicates that personal injury or material damage can result if the information is ignored.

The icons shown below are used to indicate the nature of the information which is to be observed.

	Triangular icons tell you that this information requires attention ("important").
	Circular icons with a diagonal bar tell you that the action indicated is prohibited ("Prohibited").
	Filled circles with an exclamation mark tell you an action that must be performed ("Required").

WARNING



If a problem arises, turn the camera off, remove the battery, disconnect and unplug the AC power adapter.

Continued use of the camera when it is emitting smoke, is emitting any unusual odor, or is in any other abnormal state can cause a fire or electric shock.

- Contact your FUJIFILM dealer.

WARNING



Do not allow water or foreign objects to enter the camera.

If water or foreign objects get inside the camera, turn the camera off, remove the battery and disconnect and unplug the AC power adapter.

Continued use of the camera can cause a fire or electric shock.

- Contact your FUJIFILM dealer.



Do not use in the bathroom or shower.

Do not use the camera in the bathroom or shower.

This can cause a fire or electric shock.



Do not disassemble

Never attempt to disassemble or modify (never open the case).

Failure to observe this precaution can cause fire or electric shock.



Do not touch internal parts

Should the case break open as the result of a fall or other accident, do not touch the exposed parts.

Failure to observe this precaution could result in electric shock or injury from touching the damaged parts. Remove the battery immediately, taking care to avoid injury or electric shock, and take the product to the point of purchase for consultation.



Do not change, heat or unduly twist or pull the connection cord and do not place heavy objects on the connection cord.

These actions could damage the cord and cause a fire or electric shock.

- If the cord is damaged, contact your FUJIFILM dealer.



Do not place the camera on an unstable surface.

This can cause the camera to fall or tip over and cause injury.



Never attempt to take pictures while in motion.

Do not use the camera while you are walking or driving a vehicle. This can result in you falling down or being involved in a traffic accident.



Do not touch any metal parts of the camera during a thunderstorm.

This can cause an electric shock due to induced current from the lightning discharge.



Do not use the battery except as specified.

Load the battery as aligned with the indicator.

! WARNING

Do not heat, charge or take apart the battery. Do not drop or subject the battery to impacts. Do not store the battery with metallic products. Do not use chargers other than the specified model to charge the battery.

Any of these actions can cause the battery to burst or leak and cause fire or injury as a result.



Use only the battery or AC power adapters specified for use with this camera. Do not use voltages other than the power supply voltage shown.

The use of other power sources can cause a fire.



If the battery leaks and fluid gets in contact with your eyes, skin or clothing. Flush the affected area with clean water and seek medical attention or call an emergency number right away.



Do not use the charger to charge batteries other than those specified here.

The Ni-MH battery charger is designed for FUJIFILM HR-AA Ni-MH batteries. Using the charger to charge conventional batteries or other types of rechargeable batteries can cause the battery to leak fluid, overheat or burst.



When carrying the battery, install it in a digital camera or keep it in the hard case. When storing the battery, keep it in the hard case. When discarding, cover the battery terminals with insulation tape.

Contact with other metallic objects or battery could cause the battery to ignite or burst.



Keep Memory Cards out of the reach of small children.

Because Memory Cards are small, they can be swallowed by children. Be sure to store Memory Cards out of the reach of small children. If a child swallows a Memory Card, seek medical attention or call an emergency number.

! CAUTION

Do not use this camera in locations affected by oil fumes, steam, humidity or dust.

This can cause a fire or electric shock.



Do not leave this camera in places subject to extremely high temperatures.

Do not leave the camera in locations such as a sealed vehicle or in direct sunlight. This can cause a fire.



Keep out of the reach of small children.

This product could cause injury in the hands of a child.

! CAUTION

Do not place heavy objects on the camera.

This can cause the heavy object to tip over or fall and cause injury.



Do not move the camera while the AC power adapter is still connected. Do not pull on the connection cord to disconnect the AC power adapter.

This can damage the power cord or cables and cause a fire or electric shock.



Do not use the AC power adapter when the plug is damaged or the plug socket connection is loose.

This could cause a fire or electric shock.



Do not cover or wrap the camera or the AC power adapter in a cloth or blanket.

This can cause heat to build up and distort the casing or cause a fire.



When you are cleaning the camera or you do not plan to use the camera for an extended period, remove the battery and disconnect and unplug the AC power adapter.

Failure to do so can cause a fire or electric shock.



When charging ends, unplug the charger from the power socket.

Leaving the charger plugged into the power socket can cause a fire.



Using a flash too close to a person's eyes may temporarily affect the eyesight.

Take particular care when photographing infants and young children.



When a memory card is removed, the card could come out of the slot too quickly. Use your finger to hold it and gently release the card.



Request regular internal testing and cleaning for your camera.

Build-up of dust in your camera can cause a fire or electric shock.

- Contact your FUJIFILM dealer to request internal cleaning every 2 years.

- Please note this is not a free of charge service.

Power Supply and Battery

* Confirm your battery type before reading the following descriptions.

The following explains proper use of batteries and how to prolong their life. Incorrect use of batteries can cause shorter battery life, as well as leakage, excessive heat, fire or explosion.

1 Camera uses the Rechargeable Lithium-ion Battery

* When shipped, the battery is not fully charged. Always charge the battery before using it.

* When carrying the battery, install it in a digital camera or keep it in the soft case.

■ Battery Features

- The battery gradually loses its charge even when not used. Use a battery that has been charged recently (in the last day or two) to take pictures.
 - To maximize the life of the battery, turn the camera off as quickly as possible when it is not being used.
 - The number of available frames will be lower in cold locations or at low temperatures. Take along a spare fully charged battery. You can also increase the amount of power produced by putting the battery in your pocket or another warm place to heat it and then loading it into the camera just before you take a picture.
- If you are using a heating pad, take care not to place the battery directly against the pad. The camera may not operate if you use a depleted battery in cold conditions.

■ Charging the Battery

- You can charge the battery using the battery charger (included).

- The battery can be charged at ambient temperatures between 0°C and +40°C (+32°F and +104°F). Refer to the *Owner's Manual* for the time of charging battery.

- You should charge the battery at an ambient temperature between +10°C and +35°C (+50°F and +95°F). If you charge the battery at a temperature outside this range, charging takes longer because the performance of the battery is impaired.

- You cannot charge the battery at temperatures of 0°C (+32°F) or below.

• The Rechargeable Lithium-ion Battery does not need to be fully discharged or exhausted flat before being charged.

• The battery may feel warm after it has been charged or immediately after being used. This is perfectly normal.

• Do not recharge a fully charged battery.

■ Battery Life

At normal temperatures, the battery can be used at least 300 times. If the time for which the battery provides power shortens markedly, this indicates that the battery has reached the end of its effective life and should be replaced.

■ Notes on storage

• If a battery is stored for long periods while charged, the performance of the battery can be impaired. If the battery will not be used for some time, run the battery out before storing it.

• If you do not intend to use the camera for a long period of time, remove the battery from the camera.

• Store the battery in a cool place.

- The battery should be stored in a dry location with an ambient temperature between +15°C and +25°C (+59°F and +77°F).

- Do not leave the battery in hot or extremely cold places.

■ Handling the Battery

Cautions for Your Safety:

- Do not carry or store battery with metal objects such as necklaces or hairpins.
- Do not heat the battery or throw it into a fire.
- Do not attempt to take apart or change the battery.
- Do not recharge the battery with chargers other than those specified.

- Dispose of used battery promptly.
- Do not drop the battery or otherwise subject it to strong impacts.
- Do not expose the battery to water.
- Always keep the battery terminals clean.
- Do not store batteries in hot places. Also, if you use the battery for a long period, the camera body and the battery itself will become warm. This is normal. Use the AC power adapter if you are taking pictures or viewing images for a long period of time.

2 Camera uses AA-size alkaline or Ni-MH (nickel-metal hydride) rechargeable batteries

* For details on the batteries that you can use, refer to the *Owner's Manual* of your camera.

■ Cautions for Using Battery

- Do not heat the batteries or throw them into a fire.
- Do not carry or store batteries with metal objects such as necklaces or hairpins.
- Do not expose the batteries to water, and keep batteries from getting wet or stored in moist locations.
- Do not attempt to take apart or change the batteries, including battery casings.
- Do not subject the batteries to strong impacts.
- Do not use batteries that are leaking, deformed, discolored.

- Do not store batteries in warm or humid places.
- Keep the batteries out of reach of babies and small children.
- Make sure that the battery polarity (+ and -) is correct.
- Do not use new with used batteries. Do not use charged and discharged batteries together.
- Do not use different types or brands of batteries at the same time.
- If you do not intend to use the camera for a long period of time, remove the batteries from the camera. Note if the camera is left with the batteries removed, the time and date settings are cleared.
- The batteries feel warm right after being used. Before removing the batteries, turn the camera off and wait for the batteries to cool down.
- Since batteries do not work well in cold weather or locations, warm the batteries by placing them inside your garments before use. Batteries do not work well when cold. They will work again when the temperature returns to normal.
- Soil (such as fingerprints) on the battery terminals makes the batteries charge less reducing the number of images. Carefully wipe the battery terminals with a soft dry cloth before loading.



If any liquid at all leaks from the batteries, wipe the battery compartment thoroughly and then load new batteries.



If any battery fluid comes into contact with your hands or clothing, flush the area thoroughly with water. Note that battery fluid can cause loss of eyesight if it gets into your eyes. If this occurs, do not rub your eyes. Flush the fluid out with clean water and contact your physician for treatment.

■ Using the AA-size Ni-MH batteries correctly

- Ni-MH batteries left unused in storage for long periods can become “deactivated”. Also, repeatedly charging Ni-MH batteries that are only partially discharged can cause them to suffer from the “memory effect”. Ni-MH batteries that are “deactivated” or affected by “memory” suffer from the problem of only providing power for a short time after being charged. To prevent this problem, discharge and recharge them several times using the camera’s “Discharging rechargeable batteries” function. Deactivation and memory are specific to Ni-MH batteries and are not in fact battery faults.

See *Owner’s Manual* for the procedure for “Discharging rechargeable batteries”.

⚠ CAUTION

Do not use the “Discharging rechargeable batteries” function when alkaline batteries being used.

- To charge Ni-MH batteries, use the quick battery charger (sold separately). Refer to the instructions supplied with the charger to make sure that the charger is used correctly.
- Do not use the battery charger to charge other batteries.
- Note that the batteries feel warm after being charged.
- Due to the way the camera is constructed, a small amount of current is used even when the camera is turned off. Note in particular that leaving Ni-MH batteries in the camera for a long period will over-discharge the batteries and may render them unusable even after recharging.
- Ni-MH batteries will self-discharge even when not used, and the time for which they can be used may be shortened as a result.
- Ni-MH batteries will deteriorate rapidly if over-discharged (e.g. by discharging the batteries in a flashlight). Use the “Discharging rechargeable batteries” function provided in the camera to discharge the batteries.

- Ni-MH batteries have a limited service life. If a battery can only be used for a short time even after repeated discharge-charge cycles, it may have reached the end of its service life.

■ Disposing of Batteries

- When disposing of batteries, do so in accordance with your local waste disposal regulations.

3 Notes on both models (1 2)

■ AC Power Adapter

Always use the AC Power Adapter with the camera. The use of an AC Power adapter other than FUJIFILM AC Power Adapter can be damaged to your digital camera.

For details on the AC power adapter, refer to the *Owner’s Manual* of your camera.

- Use the AC power adapter for indoor use only.
- Plug the connection cord plug securely into the DC input terminal.
- Turn off the FUJIFILM Digital camera before disconnecting the cord from the DC input terminal. To disconnect, pull out the plug gently. Do not pull on the cord.
- Do not use the AC power adapter with any device other than your camera.
- During use, the AC power adapter will become hot to the touch. This is normal.

- Do not take apart the AC power adapter. Doing so could be dangerous.
- Do not use the AC power adapter in a hot and humid place.
- Do not subject the AC power adapter to strong shocks.
- The AC power adapter may emit a humming. This is normal.
- If used near a radio, the AC power adapter may cause static. If this happens, move the camera away from the radio.

Before Using the Camera

Do not aim the camera at extremely bright light sources, such as the sun in a cloudless sky. Failure to observe this precaution could damage the camera image sensor.

■ Test Shots Prior to Photography

For important photographs (such as weddings and overseas trips), always take a test shot and view the image to make sure that the camera is working normally.

- FUJIFILM Corporation cannot accept liability for any incidental losses (such as the costs of photography or the loss of income from photography) incurred as a result of faults with this product.

■ Notes on Copyright

Images recorded using your digital camera system cannot be used in ways that infringe copyright laws without the consent of the owner,

unless intended only for personal use. Note that some restrictions apply to the photographing of stage performances, entertainments and exhibits, even when intended purely for personal use. Users are also asked to note that the transfer of Memory Card containing images or data protected under copyright laws is only permissible within the restrictions imposed by those copyright laws.

■ Handling Your Digital Camera

To ensure that images are recorded correctly, do not subject the camera to impact or shock while an image is being recorded.

■ Liquid Crystal

If the LCD monitor is damaged, take particular care with the liquid crystal in the monitor. If any of the following situations arise, take the urgent action indicated.

- If liquid crystal comes in contact with your skin:
Wipe the area with a cloth and then wash thoroughly with soap and running water.
- If liquid crystal gets into your eye:
Flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.
- If liquid crystal is swallowed:
Flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Then seek medical assistance.

■ Trademark Information

-  and *xD-Picture Card*™ are trademarks of FUJIFILM Corporation.
- IBM PC/AT is a registered trademark of International Business Machines Corp. of the U.S.A.
- Macintosh, QuickTime, and Mac OS are trademarks of Apple Inc. in the U.S.A. and other countries.
- Windows 7, Windows Vista and the Windows logo are trademarks of the Microsoft group of companies.
- IrSimple™ Trademark is owned by the Infrared Data Association®.
- IrSS™ Trademark or IrSimpleShot™ Trademark is owned by the Infrared Data Association®.
- SDHC logo is a trademark.
- HDMI logo is a trademark.
- YouTube is a trademark of Google Inc.
- Other company or product names are trademarks or registered trademarks of the respective companies.

■ Notes on Electrical Interference

If the camera is to be used in hospitals or aircrafts, please note that this camera may cause interference to other equipment in the hospital or aircraft. For details, please check with the applicable regulations.

■ Explanation of Color Television System

NTSC: National Television System Committee, color television telecasting specifications adopted mainly in the U.S.A., Canada and Japan.

PAL: Phase Alternation by Line, a color television system adopted mainly by European countries and China.

■ Exif Print (Exif ver. 2.3)

Exif Print Format is a newly revised digital camera file format that contains a variety of shooting information for optimal printing.

IMPORTANT NOTICE: Read Before Using the Software

Direct or indirect export, in whole or in part, of licensed software without the permission of the applicable governing bodies is prohibited.

About This Manual

Before using the camera, read this manual and the warnings on pages ii–viii. For information on specific topics, consult the sources below.

✓ **Camera Q & A**pg. x

Know what you want to do but don't know the name for it? Find the answer in "Camera Q & A."

✓ **Table of Contents**pg. xiii

The "Table of Contents" gives an overview of the entire manual. The principal camera operations are listed here.

✓ **Troubleshooting**pg. 89

Having a specific problem with the camera? Find the answer here.

✓ **Warning Messages and Displays**pg. 96

Find out what's behind that flashing icon or error message in the monitor.

✓ **Glossary**pg. 100

The meanings of some technical terms may be found here.

✓ **Restrictions on Camera Settings**.....*Basic Manual*

See the *Basic Manual* for restrictions on the options available in each shooting mode.

Memory Cards

Pictures can be stored in the camera's internal memory or on optional SD and SDHC memory cards. In this manual, SD memory cards are referred to as "memory cards." For more information, see page 9.

Camera Q & A

Find items by task.

Camera Setup

Question	Key phrase	See page
How do I set the camera clock?	Date and time	13
Can I set the clock to local time when I travel?	Time difference	81
How do I keep the display from turning off automatically?	Auto power off	84
How do I make the display brighter or darker?	LCD brightness	79
How do I stop the camera beeping and clicking?	Operation and shutter volume	79
	Silent mode	18
Can I change the sound the shutter makes?	Shutter sound	79
What do the icons in the display mean?	Displays	3
How much charge is left in the battery?	Battery level	16

Sharing Pictures

Question	Key phrase	See page
Can I print pictures on my home printer?	Printing pictures*	49
Can I copy my pictures to my computer?	Viewing pictures on a computer	55

* For information on printing **3D** pictures, visit <http://fujifilm.com/3d/print/>.

Taking Pictures

Question	Key phrase	See page
How do I take 3D photographs?	Taking 3D photographs	15
How do I take 2D photographs?	Taking 2D photographs	21
How do I shoot movies in 3D or 2D ?	Recording movies	44
How can I make good portraits?	Intelligent Face Detection	67
Can I choose my own settings for different scenes?	Scene position	22
How do I shoot close-ups?	Macro mode (close-ups)	34
How do I keep the flash from firing?	Flash mode	35
How do I stop my subjects' eyes glowing red when I use the flash?		
How do I "fill-in" shadows on back-lit subjects?		
How do I take a series of pictures in a single burst?	Continuous mode	66
How do I take a group portrait that includes the photographer?	Self-timer mode	37
Can I choose shutter speed or aperture?	P , A , and M modes	24–26

Viewing Pictures


Question	Key phrase	See page
How do I switch between 3D and 2D views?	Switching between 3D and 2D	39
How do I view 3D pictures?	Viewing 3D pictures	20
How do I view 2D pictures?	Viewing 2D pictures	21
How do I view my pictures?	Single-frame playback	39
How do I delete the current picture?	The  button	20
Can I select other pictures for deletion?	Deleting pictures	42
Can I zoom in on pictures during playback?	Playback zoom	40
How do I view a lot of pictures at once?	Multi-frame playback	41
How do I view all pictures taken on the same day?	Sort by date	41
Can I protect my pictures from accidental deletion?	Protect	72
Can I hide the icons in the display when viewing my pictures?	Choosing a display format	39

Table of Contents

For Your Safety	ii
About This Manual	ix
Camera Q & A	x

Before You Begin

Introduction	1
Symbols and Conventions	1
Supplied Accessories	1
Parts of the Camera	2
Camera Displays	3
The Mode Dial	4

First Steps

Charging the Battery	5
Inserting the Battery	6
Inserting a Memory Card	9
Turning the Camera on and Off	12
Shooting Mode	12
Playback Mode	12
Basic Setup	13

Basic Photography and Playback

Taking 3D Pictures in Auto Mode	15
Viewing 3D Pictures	20
Shooting and Viewing 2D Pictures	21
Taking Pictures in 2D	21
Viewing Pictures in 2D	21



More on Photography

Shooting Mode	22
📷 AUTO	22
SP1/SP2 SCENE POSITION	22
M MANUAL	24
A APERTURE PRIORITY AE	25
P PROGRAM AE	26
42D ADVANCED 2D	27
📺 TELE/WIDE	28
📺 2-COLOR	28
📺 2-SENSITIVITY	28
43D ADVANCED 3D	29
📺 INDIVID. SHUTTER 3D	30
📺 INTERVAL 3D SHOOTING	31
Focus Lock	32
👉 Macro Mode (Close-ups)	34
🔗 Using the Flash (Super Intelligent Flash)	35
🕒 Using the Self-Timer	37

More on Playback

Playback Options	39
Playback Zoom	40
Multi-Frame Playback	41
Sort by Date	41
🗑️ Deleting Pictures	42

















Movies











 Recording Movies	44
 Viewing Movies	46

Connections

Viewing Pictures on TV	47
Viewing Pictures on a 3D TV	48
Printing Pictures via USB (2D Only)	49
Connecting the Camera	49
Printing Selected Pictures	50
Printing the DPOF Print Order	52
Creating a DPOF Print Order	53
Viewing Pictures on a Computer	55
Installing the Software	55
Connecting the Camera	57

Menus

Using the Menus: Shooting Mode	60
Using the Shooting Menu	60
Shooting Menu Options	61
ISO ISO	63
 IMAGE SIZE	64
 IMAGE QUALITY	65
 FINEPIX COLOR	65
 WHITE BALANCE	66
 CONTINUOUS	66
 FACE DETECTION (2D Only)	67
 PHOTOMETRY	68
 2D AF MODE (2D Only)	68
Using the Menus: Playback Mode	69
Using the Playback Menu	69
Playback Menu Options	69
 PARALLAX CONTROL (3D Only)	70
 SLIDE SHOW	70
 RED EYE REMOVAL (2D Only)	71
 PROTECT	72
 CROP	73
 RESIZE	74
 IMAGE ROTATE (2D Only)	75
 COPY	76

The Setup Menu	78	Technical Notes	
Using the Setup Menu	78	Optional Accessories	86
Setup Menu Options.....	79	Accessories from FUJIFILM	87
 TIME DIFFERENCE.....	81	Caring for the Camera	88
 FORMAT.....	82	Troubleshooting	
 IMAGE DISP.	82	Troubleshooting	89
 FRAME NO.	83	Warning Messages and Displays	96
 HDMI OUTPUT	83	Appendix	
 AUTO POWER OFF	84	Glossary	100
 DIGITAL ZOOM (2D Only).....	84	Internal Memory/Memory Card Capacity.....	102
 OPT AXIS CONTROL.....	85	Specifications	103
 3DREC	85		
 3D CAUTION DISP	85		

Caution: Using the FinePix REAL 3D W3

2D display is recommended for young children (up to the age of about six) whose visual system is still maturing and for individuals with notable differences in vision between their two eyes, who may find it difficult or impossible to observe the **3D** effect. Should you experience fatigue or discomfort while viewing **3D** images, cease use immediately. A ten-minute break is recommended about once every half hour. Switch to **2D** immediately if **3D** images still appear double after you have adjusted parallax. Individuals with a history of photosensitive epilepsy or heart disease or who are unwell or suffering from fatigue, insomnia, or the affects of alcohol should refrain from viewing **3D** images. Viewing **3D** images while in motion may cause fatigue or discomfort.

To avoid adverse effects on vision, images displayed on HDMI devices should be viewed from a distance equal to at least twice the width of the screen, and the screen should be no larger than 65 in. Select **2D** when viewing images on displays larger than 65 in.




File Formats

3D pictures are recorded in one of two new formats: multi-picture format for photographs (pg. 20, 100) and 3D movie format for movies (pg. 44, 100). **2D** images are recorded in existing formats.

Introduction

Symbols and Conventions

The following symbols are used in this manual:

-  **Caution:** This information should be read before use to ensure correct operation.
-  **Note:** Points to note when using the camera.
-  **Tip:** Additional information that may be helpful when using the camera.

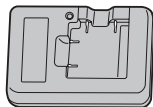
Menus and other text in the camera monitor are shown in bold. In the illustrations in this manual, the monitor display may be simplified for explanatory purposes.

Supplied Accessories

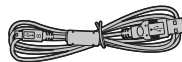
The following items are included with the camera:



NP-50 rechargeable battery



BC-45W battery charger



USB cable



CD-ROM

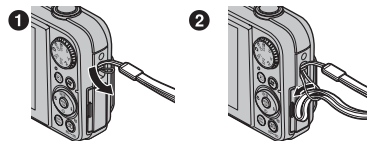
- Basic Manual
- *Strap*

Attaching the Strap

Attach the strap as shown.

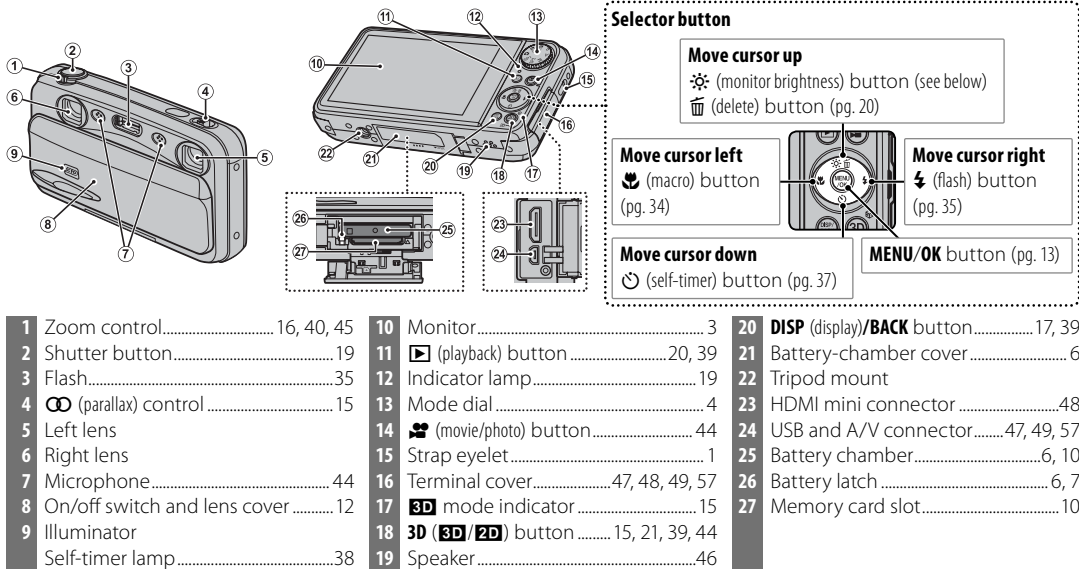
Caution

To ensure that you do not drop the camera, wear the strap on your wrist.



Parts of the Camera

For more information, refer to the page listed to the right of each item.



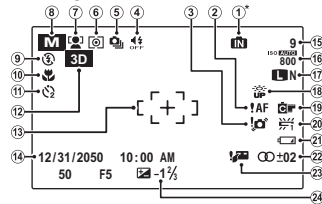
Tip: Monitor Brightness

Pressing the ☀ button briefly increases monitor brightness, making the display easier to see in bright light. Normal brightness is restored when a photograph is taken.

Camera Displays

The following indicators may appear during shooting and playback:

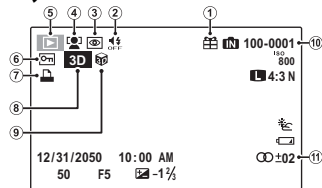
Shooting



* **IN**: indicates that no memory card is inserted and that pictures will be stored in the camera's internal memory (pg. 9).

1	Internal memory indicator	9	13	Focus frame	18, 68
2	Focus warning	18, 96	14	Date and time	13, 79
3	Blur warning	35, 96	15	Number of available frames	102
4	Silent mode indicator	18	16	Sensitivity	63
5	Continuous mode	66	17	Image quality/size	64, 65
6	Metering	68	18	Bright monitor indicator	2
7	Intelligent Face Detection indicator	67	19	FINEPIX color	65
8	Shooting mode	61	20	White balance	66
9	Flash mode	35	21	Battery level	16
10	Macro (close-up) mode	34	22	Parallax display	15
11	Self-timer indicator	37	23	Lens obstruction warning	96
12	3D/2D mode indicator	15, 21, 39, 44	24	Exposure compensation	61

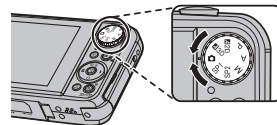
Playback



1	Gift image	39	7	DPOF print indicator	54
2	Silent mode indicator	18	8	3D/2D mode indicator	15, 21, 39, 44
3	Red-eye removal indicator	71	9	3D image	20
4	Intelligent Face Detection indicator	40, 71	10	Frame number	83
5	Playback mode indicator	20, 39	11	Parallax display	15
6	Protected image	72			

The Mode Dial

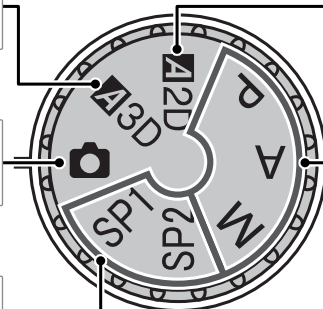
To select a shooting mode, align the mode icon with the mark next to the mode dial.



3D (ADVANCED 3D): Take two pictures with the left lens for greater freedom in framing **3D** photos (pg. 29).

📷 (AUTO): A simple “point-and-shoot” mode recommended for first-time users of digital cameras (pg. 15).

SP1, SP2 (SCENE POSITION): Choose a scene suited to the subject or shooting conditions and let the camera do the rest (pg. 22).



2D (ADVANCED 2D): Use the left and right lens to take two **2D** photos simultaneously with different settings applied to each (pg. 27).

P, A, M: Select for full control over camera settings, including aperture (**M** and **A**) and/or shutter speed (**M**; pg. 24).

Charging the Battery

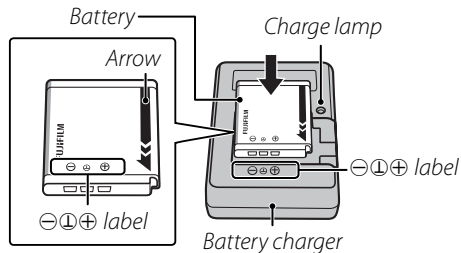
The battery is not charged at shipment. Charge the battery before use.

Batteries

The camera uses an NP-50 rechargeable battery.

1 Place the battery in the charger.

Insert the battery into the supplied battery charger as shown, making sure that the battery is in the orientation indicated by the $\ominus \oplus$ label.



Cautions

- Unplug the charger when it is not in use.
- Remove dirt from the battery terminals with a clean, dry cloth. Failure to observe this precaution could prevent the battery from charging.
- Charging times increase at low temperatures.

2 Plug the charger in.

Plug the charger into a power outlet. The charging indicator will light.

The Charging Indicator

The charging indicator shows battery charge status as follows:

Charging indicator	Battery status	Action
Off	Battery not inserted.	Insert the battery.
	Battery fully charged.	Remove the battery.
On	Battery charging.	—
Blinks	Battery fault.	Unplug the charger and remove the battery.

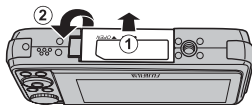
3 Charge the battery.

Remove the battery when charging is complete. See page 106 for information on charging times.

Inserting the Battery

Insert the battery in the camera as described below.

1 Open the battery-chamber cover.



Note

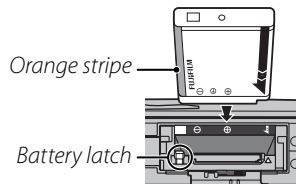
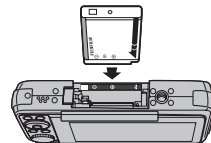
Be sure the camera is off before opening the battery-chamber cover.

Cautions

- Do not open the battery-chamber cover when the camera is on. Failure to observe this precaution could result in damage to image files or memory cards.
- Do not use excessive force when handling the battery-chamber cover.

2 Insert the battery.

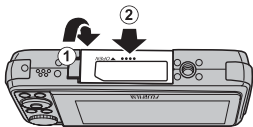
Align the orange stripe on the battery with the orange battery latch and slide the battery into the camera, keeping the battery latch pressed to one side. Confirm that the battery is securely latched.



Caution

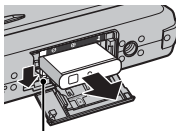
Insert the battery in the correct orientation. **Do NOT use force or attempt to insert the battery upside down or backwards.** The battery will slide in easily in the correct orientation.

3 Close the battery-chamber cover.



Removing the Battery

After turning the camera off, open the battery-chamber cover, press the battery latch to the side, and slide the battery out of the camera as shown.



Battery latch

Caution

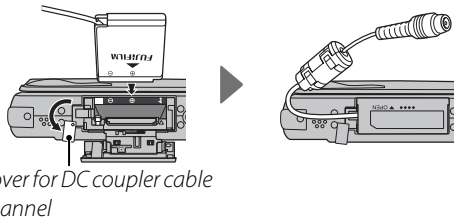
Turn the camera off before removing the battery.

Cautions

- Do not affix stickers or other objects to the battery. Failure to observe this precaution could make it impossible to remove the battery from the camera.
- Do not short the battery terminals. The battery could overheat.
- Read the cautions on page vi.
- Use only batteries designated for use with this camera. Failure to observe this precaution could result in product malfunction.
- Do not remove the labels from the battery or attempt to split or peel the outer casing.
- The battery gradually loses its charge when not in use. Charge the battery one or two days before use.

Tips: Using an AC Power Adapter


- The camera can be powered by an optional AC power adapter and DC coupler (sold separately). Lift up and rotate the cover for the DC coupler cable channel as shown and insert the DC coupler into the battery chamber, making sure that the DC coupler cable passes through the cable channel. See the manuals provided with the AC power adapter and DC coupler for details.



- If the camera is powered by an AC power adapter, demo mode slides will be displayed when the camera is turned on. Press the shutter-release button halfway to cancel demo mode. Demo mode can be disabled using the **DEMO MODE** option in the setup menu (pg. 80).

Inserting a Memory Card

Although the camera can store pictures in internal memory, optional SD memory cards (sold separately) can be used to store additional pictures.

When no memory card is inserted,  appears in the monitor and internal memory is used for recording and playback. Note that because camera malfunction could cause internal memory to become corrupted, the pictures in internal memory should periodically be transferred to a computer and saved on the computer hard disk or on removable media such as CDs or DVDs. The pictures in internal memory can also be copied to a memory card (see page 76). To prevent internal memory from becoming full, be sure to delete pictures when they are no longer needed.

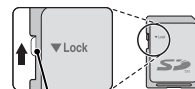
When a memory card is inserted as described below, the card will be used for recording and playback.

■ **Compatible Memory Cards**

FUJIFILM and SanDisk SD and SDHC memory cards have been approved for use in the camera. A complete list of approved memory cards is available at http://www.fujifilm.com/products/digital_cameras/index.html. Operation is not guaranteed with other cards. The camera can not be used with **xD-Picture Cards** or **MultiMediaCard** (MMC) devices.

Caution

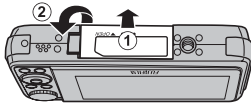
SD memory cards can be locked, making it impossible to format the card or to record or delete images. Before inserting an SD memory card, slide the write-protect switch to the unlocked position.



Write-protect switch

■ Inserting a Memory Card

1 Open the battery-chamber cover.

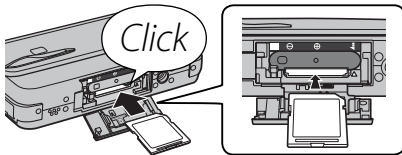


← Note

Be sure the camera is off before opening the battery-chamber cover.

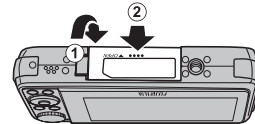
2 Insert the memory card.

Holding the memory card in the orientation shown, slide it in until it clicks into place at the back of the slot.



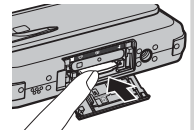
Be sure card is in correct orientation; do not insert at an angle or use force. If the memory card is not correctly inserted, pictures will be recorded to internal memory.

3 Close the battery-chamber cover.



● Removing Memory Cards

Turn the camera off and then press the card in and release it slowly. The card can now be removed by hand.



⚠ Cautions

- The memory card may spring out if you remove your finger immediately after pushing the card in.
- Memory cards may be warm to the touch after being removed from the camera. This is normal and does not indicate a malfunction.

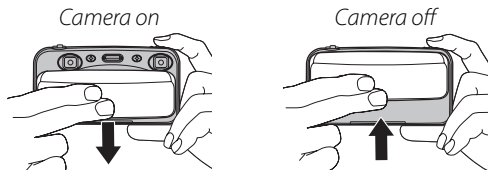
Cautions

- **Do not turn the camera off or remove the memory card while the memory card is being formatted or data are being recorded to or deleted from the card.** Failure to observe this precaution could damage the card.
- Format memory cards before first use, and be sure to reformat all memory cards after using them in a computer or other device. For more information on formatting memory cards, see page 82.
- Memory cards are small and can be swallowed; keep out of reach of children. If a child swallows a memory card, seek medical assistance immediately.
- miniSD or microSD adapters that are larger or smaller than the standard dimensions of an SD card may not eject normally; if the card does not eject, take the camera to an authorized service representative. Do not forcibly remove the card.
- Do not affix labels to memory cards. Peeling labels can cause camera malfunction.
- Movie recording may be interrupted with some types of SD memory card. Use a card with a class 6 write speed (6 MB/s) or better when shooting movies.
- The data in internal memory may be erased or corrupted when the camera is repaired. Please note that the repairer will be able to view pictures in internal memory.
- Formatting a memory card or internal memory in the camera creates a folder in which pictures are stored. Do not rename or delete this folder or use a computer or other device to edit, delete, or rename image files. Always use the camera to delete pictures from memory cards and internal memory; before editing or renaming files, copy them to a computer and edit or rename the copies, not the originals.


Turning the Camera on and Off

Shooting Mode

To turn the camera on, open the lens cover as shown below. The camera turns off when the lens cover is closed.





Tip: Switching to Playback Mode

Press the  button for about a second to start playback. Press the shutter button halfway to return to shooting mode.


Caution

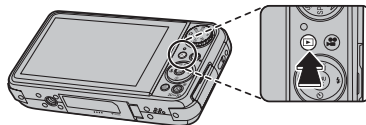
Pictures can be affected by fingerprints and other marks on the lenses. Keep the lenses clean.

Tip: Auto Power Off

The camera will turn off automatically if no operations are performed for the length of time selected in the  **AUTO POWER OFF** menu (pg. 84). To turn the camera on, close and reopen the lens cover or press the  button for about a second.


Playback Mode

To turn the camera on and begin playback without opening the lens cover, press the  button for about a second.



To turn the camera off, open and close the lens cover.

Tip: Switching to Shooting Mode

To exit to shooting mode, press the shutter button halfway. Press the  button to return to playback.

Basic Setup

A language-selection dialog is displayed the first time the camera is turned on. Set up the camera as described below (for information on resetting the clock or changing languages, see page 79).

1 Choose a language.

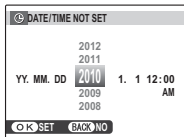


1.1 Press the selector up, down, left, or right to highlight a language.

1.2 Press **MENU/OK**.



2 Set the date and time.

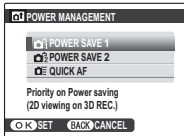


2.1 Press the selector left or right to highlight the year, month, day, hour, or minute and press up or down to change. To change the order in which the year, month, and day are displayed, highlight the date format and press the selector up or down.

2.2 Press **MENU/OK**.



3 Choose power management options.



3.1 Press the selector up or down to highlight one of the following:

- **POWER SAVE 1** / **POWER SAVE 2**: Save battery power. Choose **POWER SAVE 1** to display **3D** images in **2D** for increased savings.
- **QUICK AF**: Reduce focusing time for a quick shutter response.



3.2 Press **MENU/OK**.




Tip: The Camera Clock

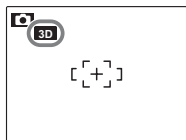
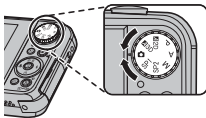
If the battery is removed for an extended period, the camera clock will be reset and the language-selection dialog will be displayed when the camera is turned on. If the battery is left in the camera for about four days, the battery can be removed for about a week without resetting clock, language selection, or power management options.

Taking 3D Pictures in Auto Mode


This section describes how to take 3D pictures in  (auto) mode.

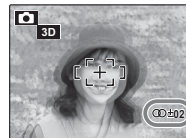
1 Turn the camera on.
Fully open the lens cover.

2 Rotate the mode dial to .
3D will be displayed in the monitor and the **3D** mode indicator will light.

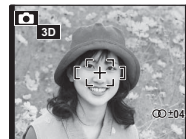


Parallax (pg. 101)

The appearance of **3D** images can be adjusted using the  control (pg. 2). The percentage is displayed in the monitor. Press the shutter button to take a picture at the current setting, or press the **3D** button twice to reset parallax.



Note that adjusting parallax reduces horizontal frame coverage. The new crop is shown by black borders in the display.



Tip: Auto Parallax

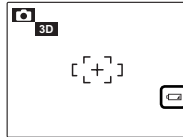
For automatic parallax adjustment, select **ON** for  **AUTO PARALLAX CONTROL** (pg. 62). Parallax can still be adjusted manually when **ON** is selected.

Caution: Excessive Parallax

Too much parallax may make it impossible to perceive the 3D effect.

3 Check the battery level.

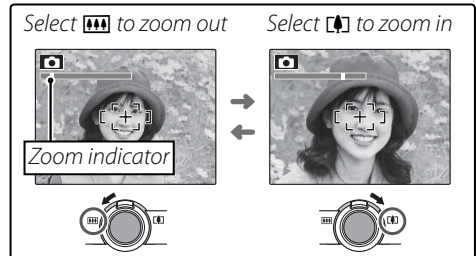
Check the battery level in the display.



Indicator	Description
(white)	Battery partially discharged.
(white)	Battery more than half discharged.
(red)	Low battery. Charge as soon as possible.
(blinks red)	Battery exhausted. Turn camera off and charge battery.

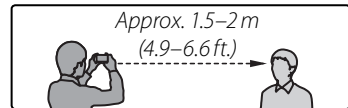
4 Frame the picture.

Position the main subject in the focus frame and use the zoom control to frame the picture in the display.



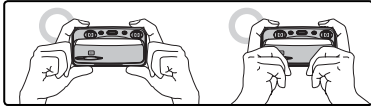
Note: 3D

The 3D effect may not be visible at high zoom ratios or with subjects that are outside the suggested range (pg. 103), poorly lit, or at the edge of the frame. For best results, shoot from about 1.5–2 m/4.9–6.6 ft. (wide angle).

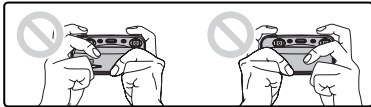


Holding the Camera

Hold the camera steady with both hands and brace your elbows against your sides. Shaking or unsteady hands can blur your shots.



To avoid interfering with the **3D** effect and to prevent pictures that are out of focus or too dark (underexposed), keep your fingers and other objects well away from the lenses and flash. Note that the **3D** effect may not be visible if the display is viewed at an angle.

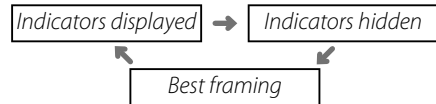


Tip: Focus Lock

Use focus lock (pg. 32) to focus on subjects that are not in the focus frame.



Shooting Information

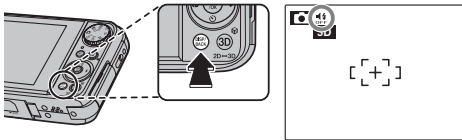
To choose the shooting information and guides displayed, press the **DISP/BACK** button.





Hiding indicators makes it easier to see the **3D** effect. To use best framing, position the main subject at the intersection of two lines or align one of the horizontal lines with the horizon. Use focus lock (pg. 32) to focus on subjects that will not be in the center of the frame in the final photograph.

Silent Mode

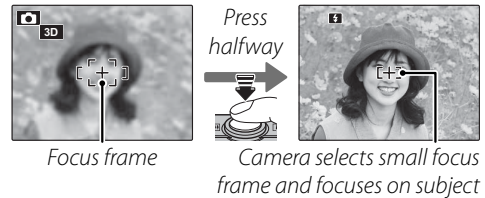
In situations in which camera sounds or lights may be unwelcome, hold the **DISP/BACK** button down until  is displayed (silent mode can also be selected using the  **SILENT MODE** option in the setup menu as described on page 79).



The speaker, flash, illuminator, and self-timer lamp turn off and flash and volume settings can not be adjusted (note that the flash will still fire when  is selected in scene mode). To restore normal operation, press the **DISP/BACK** button until the  icon is no longer displayed.

5 Focus.

Press the shutter button halfway to focus on the main subject in the focus frame.



Note

The lenses may make a noise when the camera focuses. This is normal.

If the camera is able to focus with both lenses, it will beep twice and the indicator lamp will glow green.

If the camera is unable to focus, the focus frame will turn red, **!AF** will be displayed, and the indicator lamp will blink green. Change the composition or use focus lock (pg. 32).

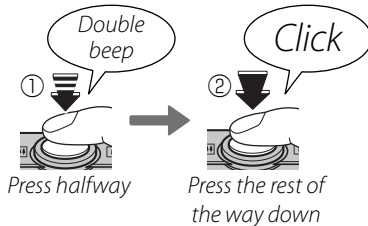
6 Shoot.

Smoothly press the shutter button the rest of the way down to take the picture.



Tip: The Shutter Button

The shutter button has two positions. Pressing the shutter button halfway (①) sets focus and exposure; to shoot, press the shutter button the rest of the way down (②).



Note

If the subject is poorly lit, the flash may fire when the picture is taken. For information on using the flash when lighting is poor, see page 35.

The Indicator Lamp



The indicator lamp shows camera status as follows:

Indicator lamp	Camera status
Glows green	Focus locked.
Blinks green	Blur, focus, or exposure warning. Picture can be taken.
Blinks green and orange	Recording pictures. Additional pictures can be taken.
Glows orange	Recording pictures. No additional pictures can be taken at this time.
Blinks orange	Flash charging; flash will not fire when picture is taken.
Blinks red	Lens or memory error (internal memory or memory card full or not formatted, format error, or other memory error).


Tip: Warnings

Detailed warnings appear in the display. See pages 96–99 for more information.

Viewing 3D Pictures

Pictures can be viewed in the monitor. When taking important photographs, take a test shot and check the results. **3D** pictures are stored in multi-picture (".mpo") format; JPEG copies can be recorded by selecting **MPO+JPEG** for the **MPO 3DREC** option in the setup menu.

1 Press the button.

The most recent picture will be displayed in the monitor. Pictures taken in **3D** are indicated by a  icon; confirm that **3D** appears in the display.




2 View additional pictures.

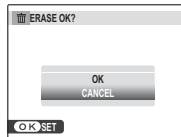
Press the selector right to view pictures in the order recorded, left to view pictures in reverse order.



Press the shutter button to exit to shooting mode.

Deleting Pictures

To delete the picture currently displayed in the monitor, press the selector up () . The following dialog will be displayed.



To delete the picture, highlight **OK** and press **MENU/OK**. To exit without deleting the picture, highlight **CANCEL** and press **MENU/OK**.



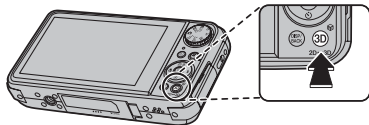
Tip: The Playback Menu

Pictures can also be deleted from the playback menu (pg. 42).

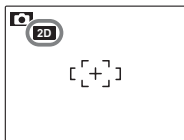
Shooting and Viewing 2D Pictures

Taking Pictures in 2D

To shoot pictures in **2D**, press the **3D** button to select **2D** mode.



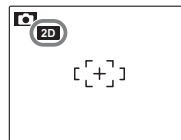
Take pictures as described on pages 15–19. **2D** is displayed in the monitor and photographs are taken using the left lens and saved in JPEG (“.jpg”) format (Exif 2.3).



Note that the picture angle of photographs taken in **2D** differs from that of **3D** images.

Viewing Pictures in 2D

2D pictures can be viewed as described on page 20. Note that when **3D** pictures are viewed in **2D**, only the image recorded with the left lens will be displayed.



Images that were originally recorded in **2D** are indicated by the absence of a **3D** icon.

Shooting Mode

Choose a shooting mode according to the scene or type of subject. To choose a shooting mode, rotate the mode dial to the desired setting (pg. 4). The following modes are available:

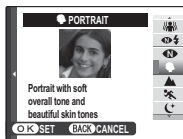
AUTO

Choose for crisp, clear snapshots (pg. 15). This mode is recommended in most situations.

SP1/SP2 SCENE POSITION

The camera offers a choice of “scenes,” each adapted to particular shooting conditions or a specific type of subject, which can be assigned to the **SP1** and **SP2** positions on the mode dial. Each position can be assigned a different scene:


















- 1 Select **SP1** or **SP2** and press **MENU/OK** to display the following menu.



Note: If the shooting menu is displayed, highlight  **SCENE POSITION** and press **MENU/OK**.

- 2 Press the selector up or down to highlight a scene (pg. 23).
- 3 Press **MENU/OK** to select the highlighted option.
- 4 Press **DISP/BACK** to return to shooting mode.



Scene	Description
 ANTI-BLUR	Choose  ANTI-BLUR (picture stabilization) mode for fast shutter speeds that reduce blur caused by camera shake or subject movement. Recommended for photographs of children and pets.
 NATURAL & 	Get good results with backlit subjects and other difficult lighting. The camera takes two shots: one without the flash and one with.
 NATURAL LIGHT	Capture natural light indoors, under low light, or where the flash can not be used. The flash turns off and sensitivity is raised to reduce blur.
 PORTRAIT	Choose for soft-toned portraits with natural skin tones.
 LANDSCAPE	Choose for crisp, clear daylight shots of buildings and landscapes.
 SPORT	Choose when photographing moving subjects.  QUICK AF is automatically selected for  POWER MANAGEMENT and priority is given to faster shutter speeds.
 NIGHT	Choose this mode for poorly lit twilight or night scenes. Sensitivity is automatically raised to reduce blur caused by camera shake.
 NIGHT (TRIPOD)	Choose this mode for slow shutter speeds when shooting at night. Use a tripod to prevent blur.
 SUNSET	Record the vivid colors in sunrises and sunsets.
 SNOW	Choose for crisp, clear shots that capture the brightness of scenes dominated by shining white snow.
 BEACH	Choose for crisp, clear shots that capture the brightness of sunlit beaches.
 UNDERWATER	Choose for vivid blues when taking photographs of subjects in an aquarium.
 PARTY	Capture indoor background lighting under low-light conditions.

M MANUAL

In this mode, you choose both shutter speed and aperture. If desired, exposure can be altered from the value suggested by the camera.

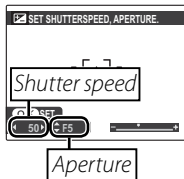
- 1** Select mode **M** and press **MENU/OK** to display the shooting menu.



- 2** Press the selector up or down to highlight **SET SHUTTERSPEED, APERTURE..**



- 3** Press **MENU/OK**. Shutter speed and aperture will be displayed.



- 4** Press the selector up or down to choose the aperture, left or right to choose the shutter speed.



- 5** Press **MENU/OK**.



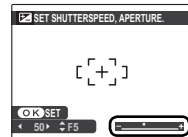
- 6** Press **DISP/BACK** to return to shooting mode.



- 7** Take pictures.

The Exposure Indicator

The amount the picture will be under- or over-exposed at current settings is shown by the exposure indicator.



A APERTURE PRIORITY AE

In this mode, you choose the aperture while the camera adjusts shutter speed for optimal exposure.

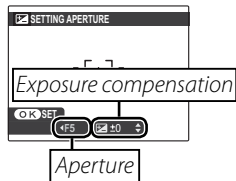
- 1** Select mode **A** and press **MENU/OK** to display the shooting menu.



- 2** Press the selector up or down to highlight **SETTING APERTURE**.



- 3** Press **MENU/OK**. Exposure compensation and aperture will be displayed.



- 4** Press the selector up or down to choose exposure compensation, left or right to choose the aperture.



- 5** Press **MENU/OK**.



- 6** Press **DISP/BACK** to return to shooting mode.




- 7** Take pictures. If the correct exposure can not be achieved at the selected aperture, shutter speed will be displayed in red when the shutter button is pressed halfway. Adjust aperture until the correct exposure is achieved.

Caution

If the subject is outside the metering range of the camera, the shutter speed display will show "----". Press the shutter button halfway to measure exposure again.

P PROGRAM AE

In this mode, the camera sets aperture and shutter speed automatically. Exposure can be adjusted using the  **EXP. COMPENSATION** option in the shooting menu.

Caution

If the subject is outside the metering range of the camera, the shutter speed and aperture displays will show “---”. Press the shutter button halfway to measure exposure again.

A2D ADVANCED 2D

The camera simultaneously takes two **2D** pictures—one with each lens—with different options selected for each.

- 1** Select **A2D** and press **MENU/OK** to display **A2D** options.



- 2** Press the selector up or down to highlight one of the following options:



- **W TELE/WIDE:** Zoom for the left lens can be adjusted using the zoom control. The right lens is zoomed all the way out (pg. 28).
- **C 2-COLOR:** The two pictures use different settings for FINEPIX color (pg. 28).
- **ISO 2-SENSITIVITY:** The camera sets sensitivity separately for each lens (pg. 28).

- 3** Press **MENU/OK** to select the highlighted option.



- 4** Press **DISP/BACK** to return to shooting mode.



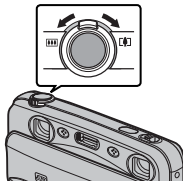
Caution: A2D Mode

In **A2D** mode, the camera displays the view through the left lens only. Be careful not to obstruct the right lens during shooting.



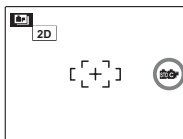
WF TELE/WIDE

Zoom for the left lens can be adjusted using the zoom control. The right lens is zoomed all the way out.

**2-COLOR**

Select the desired combination of color options using the **2-COLOR SETTING** option in the shooting menu (pg. 61).

The selected combination is shown by an icon in the display.


**ISO 2-SENSITIVITY**

If lighting permits, sensitivity is set higher for the right lens than for the left (the maximum value for the left lens is ISO 400, that for the right lens ISO 1600; note that the same value may be used for both lenses if the subject is brightly lit).

Lighting	Sensitivity	
	Left lens	Right lens
Dark	ISO 400	ISO 1600
↕	ISO 100	ISO 400
	ISO 100	ISO 100
Bright	ISO 100	ISO 100

Higher sensitivities permit faster shutter speeds. If you pan the camera to follow a moving object, the background in the shot taken with the right lens will be less blurred than in the shot taken with the left, producing different speed effects. If lighting is poor, the shot taken with the right lens will be less blurred, while the shot taken with the left lens will have less noise.

A3D ADVANCED 3D

This mode offers greater **3D** flexibility than  mode. The camera takes two shots with the left lens and combines them to form a **3D** picture.

1 Select **A3D** and press **MENU/OK** to display **A3D** options.



2 Press the selector up or down to highlight one of the following options:



- **INTERVAL 3D SHOOTING:** The camera automatically takes the two shots at a fixed interval (pg. 31).
- **INDIVID. SHUTTER 3D:** One shot is taken each time you press the shutter button (pg. 30).


3 Press **MENU/OK** to select the highlighted option.




4 Press **DISP/BACK** to return to shooting mode.

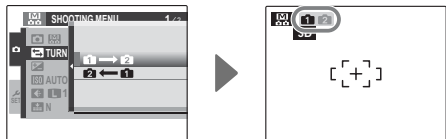



INDIVID. SHUTTER 3D

Use this option to combine two shots taken from different angles to create a **3D** picture. Use in macro mode, to create **3D** pictures of distant object, and in other situations in which the desired results can not be achieved in  (auto) mode.




- 1 Choose the order in which the shots will be taken (left first or right first) using the  **TURN** option in the shooting menu (pg. 61).



First shot shown by 

- 2 Take the first shot.

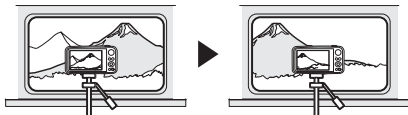
Note


To exit without taking the second shot, press **DISP/BACK** or turn the camera off. Note that the camera will turn off and shooting will be cancelled if no operations are performed for the length of time selected for  **AUTO POWER OFF** (pg. 84).

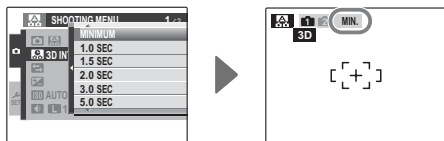
- 3 The first shot will be superimposed on the view through the lens. Using the first shot as a guide, reposition the camera and take the second shot to create a **3D** picture. Note that the 3D effect may not be visible if the parallax between the two positions is too great; the best results will be achieved if the distance the camera is moved between the two shots is between $\frac{1}{30}$ th and $\frac{1}{50}$ th of the distance to the subject.


INTERVAL 3D SHOOTING

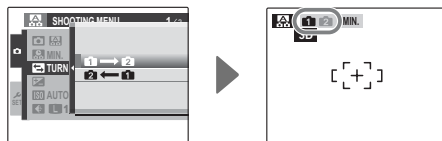
Use this option to take **3D** pictures of distant objects from a moving vehicle.




- 1 Select the delay between the two shots using the  **3D INTERVAL TIME** option in the shooting menu (pg. 61). Choose shorter delays for less distant objects or faster-moving vehicles (the best results will be achieved if the distance the camera moves between the two shots is between $\frac{1}{30}$ th and $\frac{1}{50}$ th of the distance to the subject). The 3D effect may not be visible if the parallax between the two shots is too great or if another object is between the camera and your subject.



- 2 Choose the order in which the shots will be taken (left first or right first) using the  **TURN** option in the shooting menu (pg. 61). Choose the order that matches the direction of motion.



First shot shown by 

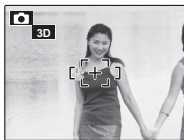
- 3 Take the first shot. A timer is displayed after the first shot; the second shot is taken when the timer reaches zero. No operations can be performed while the timer is active; if the camera is turned off before the second shot is taken, no picture will be recorded.



Focus Lock

To compose photographs with off-center subjects:

1 Position the subject in the focus frame.



2 Focus.

Press the shutter button halfway to set focus and exposure. Focus and exposure (and in **3D** mode, parallax; pg. 15) will remain locked while the shutter button is pressed halfway (AF/AE lock).



*Press
halfway*



Repeat steps 1 and 2 as desired to refocus before taking the picture.

3 Recompose the picture.

Keeping the shutter button pressed halfway, recompose the picture.



4 Shoot.

Press the shutter-release button the rest of the way down to take the picture.

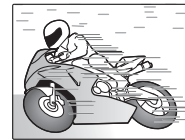


*Press the rest of
the way down*

Autofocus

Although the camera boasts a high-precision autofocus system, it may be unable to focus on the subjects listed below. If the camera is unable to focus using autofocus, use focus lock (pg. 32) to focus on another subject at the same distance and then recompose the photograph.

- Very shiny subjects such as mirrors or car bodies.
- Fast-moving subjects.





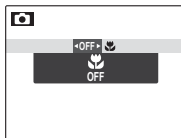
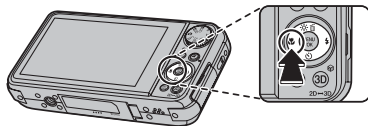
- Subjects photographed through a window or other reflective object.
- Dark subjects and subjects that absorb rather than reflect light, such as hair or fur.
- Insubstantial subjects, such as smoke or flame.
- Subjects that show little contrast with the background (for example, subjects in clothing that is the same color as the background).
- Subjects positioned in front of or behind a high-contrast object that is also in the focus frame (for example, a subject photographed against a backdrop of highly contrasting elements).

Auto Parallax

Although the camera boasts highly precise parallax control, auto parallax may not produce the desired results with the subjects listed under "Autofocus" (above) or with subjects outside the recommended range (particularly if the subject is close to the camera), repeating rectangular patterns such as venetian blinds or the windows in an office building, or straight lines such as poles or wires. Use focus lock (pg. 32) or adjust parallax manually (pg. 15).


Macro Mode (Close-ups)

For close-ups, press the selector left () to display macro close-up options. Press the selector left or right to highlight  and press **MENU/OK**.



Choose from  (macro mode)
or **OFF** (macro mode off)

When macro mode is in effect, the camera focuses on subjects near the center of the frame. Use the zoom control to compose pictures (pg. 16).

To exit macro mode, press the selector left () and select **OFF**.

Notes

- Use of a tripod is recommended to prevent blur caused by camera shake.
- The flash may fail to light the entire subject at very short ranges. Increase the distance to the subject and try again.

Caution

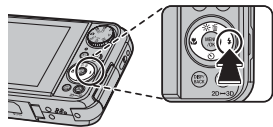
3D pictures taken in macro mode may not produce the desired results when viewed on TV.








⚡ Using the Flash (Super Intelligent Flash)

When the flash is used, the camera's *Super Intelligent Flash* system instantly analyzes the scene based on such factors as the brightness of the subject, its position in the frame, and its distance from the camera. Flash output and sensitivity are adjusted to ensure that the main subject is correctly exposed while preserving the effects of ambient background lighting, even in dimly-lit indoor scenes. Use the flash when lighting is poor, for example when shooting at night or indoors under low light.



1 Choose a flash mode.

Press the selector right (⚡). The following options will be displayed; press the selector left or right to highlight an option and press **MENU/OK**. In modes other than **AUTO**, the current mode is indicated by an icon in the display.



Mode	Description
AUTO (AUTO FLASH)	The flash fires when required. Recommended in most situations.
 (RED EYE REDUCTION)	As above, except that camera minimizes "red-eye" caused when light from the flash is reflected from the subject's retinas.
 (FORCED FLASH)	The flash fires whenever a picture is taken. Use for backlit subjects or for natural coloration when shooting in bright light.
 (FORCED FLASH)	As for fill flash, except that camera minimizes "red-eye."
 (SUPPRESSED FLASH)	The flash does not fire even when the subject is poorly lit.  will appear in the monitor at slow shutter speeds to warn that pictures may be blurred. Use of a tripod is recommended.
 (SLOW SYNCHRO)	Capture both the main subject and the background under low light (note that brightly lit scenes may be overexposed).
 (RED EYE & SLOW)	As for slow sync, except that camera minimizes "red-eye."

2 Focus.

Press the shutter button halfway to focus. If the flash will fire,  will be displayed when the shutter button is pressed halfway. At slow shutter speeds,  will appear in the display to warn that pictures may be blurred; choose another flash mode or use a tripod.



3 Shoot.

Press the shutter button the rest of the way down to shoot.

Caution

The flash may fire several times with each shot. Do not move the camera until shooting is complete.









Red-Eye Reduction

Red-eye reduction minimizes “red-eye” caused when light from the flash is reflected from the subject’s retinas as shown in the illustration at right.



Tip: Red-Eye Removal (2D Only)

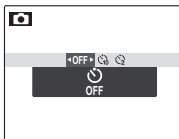
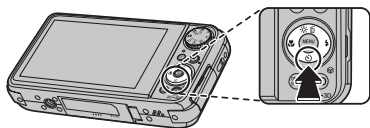
When **ON** is selected for both  **FACE DETECTION** in the shooting menu (2D only; pg. 67) and  **RED EYE REMOVAL** in the setup menu (pg. 79), pictures are processed to remove red-eye and the flash mode can be selected from , , and . Unprocessed copies of pictures taken using red-eye removal can be saved using  **SAVE ORG IMAGE** in the setup menu (pg. 80).

🕒 Using the Self-Timer

The camera offers a ten-second timer that allows photographers to appear in their own photographs, and a two-second timer that can be used to avoid blur caused by the camera moving when the shutter button is pressed. The self-timer is available in all shooting modes.

1 Set the timer.

The current self-timer mode is displayed in the monitor. To choose a different setting, press the selector down (🕒). Self-timer options will be displayed; press the selector left or right to highlight an option and press **MENU/OK**.



Choose from 🕒 (self-timer off), 🕒 (10 s delay), or 🕒 (2 s delay)

2 Focus.

Press the shutter button halfway to focus.

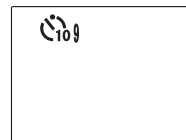
⚠ Caution

Stand behind the camera when using the shutter button. Standing in front of the lens can interfere with focus and exposure.

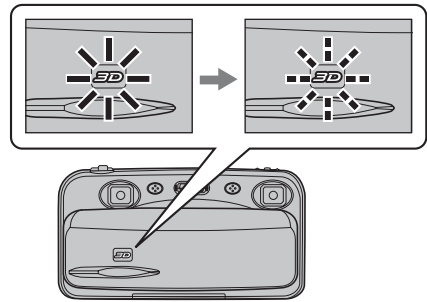


3 Start the timer.

Press the shutter button the rest of the way down to start the timer. The display in the monitor shows the number of seconds remaining until the shutter is released. To stop the timer before the picture is taken, press **DISP/BACK**.



The self-timer lamp on the front of the camera will blink immediately before the picture is taken. If the two-second timer is selected, the self-timer lamp will blink as the timer counts down.



Intelligent Face Detection (2D)

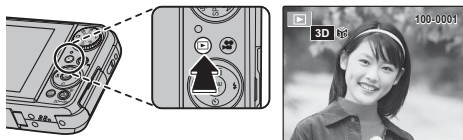
Because it ensures that the faces of portrait subjects will be in focus, Intelligent Face Detection (pg. 67) is recommended when using the self-timer for group portraits or self-portraits. To use the self-timer with Intelligent Face Detection, turn Intelligent Face Detection on, set the timer as described in Step 1, and then press the shutter button all the way down to start the timer. The camera will detect faces while the timer is counting down and adjust focus and exposure immediately before the shutter is released. Be careful not to move until the picture has been recorded.

Note

The self-timer turns off automatically when the picture is taken, a different shooting mode is selected, playback mode is selected, or the camera is turned off.

Playback Options

To view the most recent picture in the monitor, press the **▶** button.



Press the selector right to view pictures in the order recorded, left to view pictures in reverse order. Keep the selector pressed to scroll rapidly to the desired frame.



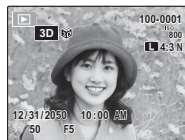
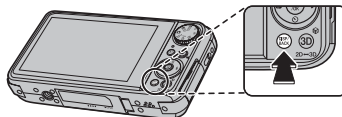
Switching Between 3D and 2D

Press the **3D** button to switch between **3D** and **2D** display (note that **2D** pictures are always displayed in **2D**). In **3D** playback, use the **◂◃** control to adjust parallax.



Choosing a Display Format

Press the **DISP/BACK** button to cycle through playback display formats as shown below.



Indicators displayed



Indicators hidden



Sort by date

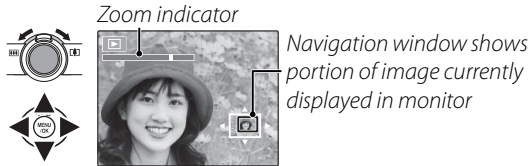
Hide indicators for improved **3D** viewing.

Note

Pictures taken using other cameras are indicated by a  ("gift image") icon during playback.

Playback Zoom

Select **[Z]** to zoom in on pictures displayed in single-frame playback; select **[Z]** to zoom out. When the picture is zoomed in, the selector can be used to view areas of the image not currently visible in the display.



Press **DISP/BACK** to exit zoom.

Note

Playback zoom is not available with cropped copies saved at a size of **640** or copies created with **RESIZE** (pg. 74).

Caution: 3D Playback


3D pictures are best viewed with the camera held horizontally. The 3D effect may not be visible at high zoom ratios or when the monitor is viewed at an angle. If **3D** pictures appear blurred even after parallax is adjusted, select **2D** playback.

Intelligent Face Detection (2D Only)


Pictures taken with Intelligent Face Detection (pg. 67) are indicated by a **[F]** icon. Press the selector down to zoom in on the subject selected with Intelligent Face Detection. You can then use the zoom control to zoom in and out.




Multi-Frame Playback

To change the number of images displayed, select  when a picture is shown full-frame in the monitor.



Select  to increase the number of pictures displayed to five, nine, or a hundred.



Select  to reduce the number of images displayed.

Use the selector to highlight images and press **MENU/OK** to view the highlighted image full frame. In the nine- and hundred-frame displays, press the selector up or down to view more pictures.

Sort by Date

Choose sort-by-date mode to view pictures taken on a selected date.


- 1 Press **DISP/BACK** until the sort-by-date screen is displayed.



- 2 Use the selector up or down to highlight a date. Keep the selector pressed to scroll rapidly to the desired date.
- 3 Press the selector left or right to scroll through the pictures taken on the highlighted date. Keep the selector pressed to scroll rapidly to the desired frame.



Deleting Pictures

The  **ERASE** option in the playback menu can be used to delete still pictures and movies, increasing the amount of space available on the memory card or in internal memory (for information on deleting pictures in single-frame playback, see page 20). *Note that deleted pictures can not be recovered. Copy important pictures to a computer or other storage device before proceeding.*

1 Press **MENU/OK** to display the playback menu.



2 Press the selector up or down to highlight  **ERASE**.



3 Press the selector right to display delete options.



4 Press the selector up or down to highlight **FRAME** or **ALL FRAMES**.



5 Press **MENU/OK** to display options for the selected item (pg. 43).

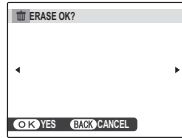


Tips: Deleting Pictures

- When a memory card is inserted, pictures will be deleted from the memory card; otherwise, pictures will be deleted from internal memory.
- Protected pictures can not be deleted. Remove protection from any pictures you wish to delete (pg. 72).
- If a message appears stating that the selected images are part of a DPOF print order, press **MENU/OK** to delete the pictures.

■ **FRAME: Deleting Selected Images**

Selecting **FRAME** displays the dialog shown at right.



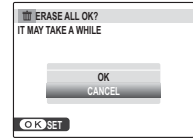
Press the selector left or right to scroll through pictures and press **MENU/OK** to delete the current picture (the picture is deleted immediately; be careful not delete the wrong picture).



Press **DISP/BACK** to exit when all the desired pictures have been deleted.

■ **ALL FRAMES: Deleting All Images**

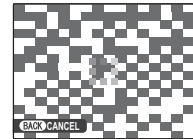
Selecting **ALL FRAMES** displays the confirmation shown at right.



Highlight **OK** and press **MENU/OK** to delete all unprotected pictures.



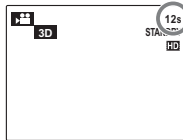
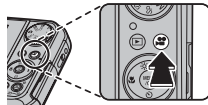
The dialog shown at right is displayed during deletion. Press **DISP/BACK** to cancel before all pictures have been deleted (any pictures deleted before the button was pressed can not be recovered).



Recording Movies

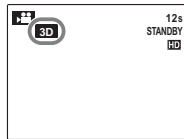
Shoot short movies. **3D** movies are recorded in 3D movie format (pg. 100), **2D** movies in motion JPEG format with stereo sound recorded via the built-in microphone (be careful not to cover the microphone during recording).

1 Press the  button.




Display shows time available

2 Use the **3D** button to choose between **3D** and **2D** recording. The current mode is shown in the monitor.



← Note: Auto Parallax

If **ON** is selected for  **AUTO PARALLAX CONTROL** (pg. 62), parallax will be adjusted automatically when the shutter button is pressed halfway. If **OFF** is selected, adjust parallax manually before recording begins (pg. 15).

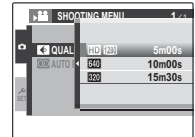
● Choosing the Frame Size

To choose the frame size when recording movies to a memory card, press **MENU/OK** and select

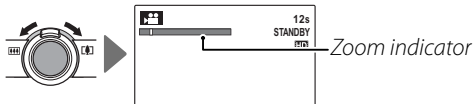
QUALITY. Choose **HD 1280**

(1280×720 pixels) for an aspect ratio of 16:9 (High Definition), **640**

(640×480 pixels) for high-quality standard definition movies, or **320** (320×240 pixels) for longer movies (if no memory card is inserted, movies will be recorded at a frame size of **320**). Press **MENU/OK** to return to movie recording mode.



3 Frame the scene using the zoom control.



Zoom can not be adjusted once recording begins.

4 Press the shutter button all the way down to start recording.



Tip

There is no need to keep the shutter button pressed during recording.

Note

Focus is set when recording begins; exposure and white balance are adjusted automatically throughout recording. The color and brightness of the image may vary from that displayed before recording begins.

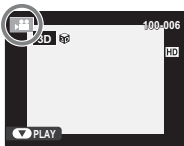
5 Press the shutter button halfway to end recording. Recording ends automatically when the movie reaches maximum length or memory is full.

Caution

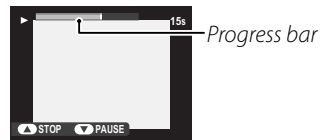
The indicator lamp lights while movies are being recorded. Do not open the battery chamber cover during shooting or while the indicator lamp is lit. Failure to observe this precaution could prevent the movie from being played back.

▶ Viewing Movies

During playback, movies are displayed in the monitor as shown at right. The following operations can be performed while a movie is displayed:



Progress is shown in the monitor during playback.



Operation	Description
Start/pause playback	Press the selector down to start playback. Press again to pause.
End playback/delete	Press the selector up to end playback. If playback is not in progress, pressing the selector up will delete the current movie.
Advance/rewind	Press the selector right to advance, left to rewind. If playback is paused, the movie will advance or rewind one frame each time the selector is pressed.
Adjust volume	Press MENU/OK to pause playback and display volume controls. Press the selector up or down to adjust the volume; press MENU/OK again to resume playback.

Tip: Viewing Movies on a Computer

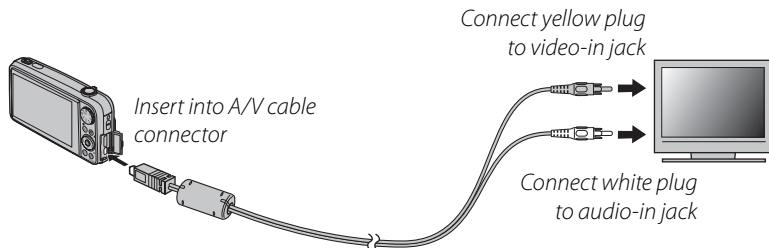
Copy movies to the computer before viewing.

Cautions

- Do not cover the speaker during playback.
- Vertical or horizontal streaks may appear in movies containing very bright subjects. This is normal and does not indicate a malfunction.
- HD movies recorded with this camera can not be viewed on FINEPIX HDP-L1 HD players or FINEPIX REAL 3D V1 photo frames.
- Movies recorded with this camera can not be viewed on FINEPIX REAL 3D W1 cameras. This camera can display movies recorded with the FINEPIX REAL 3D W1, but can not be used to display such movies on HDMI devices.

Viewing Pictures on TV

Connect the camera to a TV and tune the television to the video channel to show pictures to a group. The optional A/V cable connects as shown below. Turn the camera off before connecting the cable.



Press **▶** for about a second to turn the camera on. The camera monitor turns off and pictures are played back on the TV, with **3D** images displayed in **2D**. Note that the camera volume controls have no effect on sounds played on the TV; use the television volume controls to adjust the volume.

Note

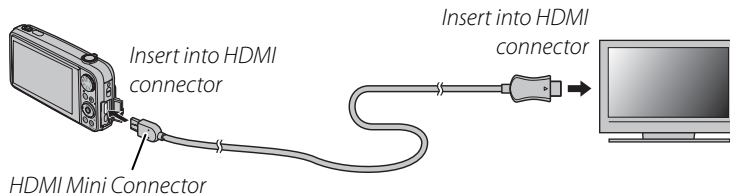
Image quality drops during movie playback.

Caution





When connecting the cable, be sure the connectors are fully inserted.

Viewing Pictures on a 3D TV

A high-speed HDMI cable (available from third-party suppliers; pg. 86) can be used to connect the camera to High Definition (HD) devices (playback only).



← Note

While an HDMI cable is connected, the television will be used for playback only and the USB cable can not be connected. The display format for HDMI output can be selected from **3D**, **2D**, and **SIDE-BY-SIDE** using the  **HDMI OUTPUT** option in the setup menu (pg. 83). Note that if the television supports 3D display, playback zoom, parallax adjustment, and the  **RESIZE** and  **CROP** options in the playback menu will not be available and the following types of **3D** picture will be displayed in **2D**: pictures taken using **43D**, 3D still images and movies created using MyFinePix Studio, cropped or resized images, and still images and movies for which parallax has been adjusted using the  **PARALLAX CONTROL** option in the playback menu (pg. 70).

Printing Pictures via USB (2D Only)

If the printer supports PictBridge, the camera can be connected directly to the printer and pictures can be printed without first being copied to a computer. Note that depending on the printer, not all the functions described below may be supported.

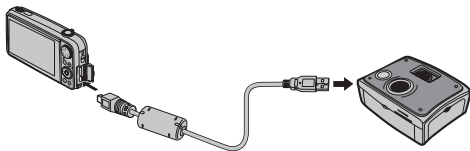



Printing in 3D

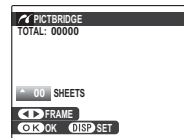
3D pictures in MPO format can not be printed via direct USB connection, although JPEG copies created when MPO+JPEG is selected for MPO 3DREC can be printed in 2D (pg. 85). For information on 3D prints, visit <http://fujifilm.com/3d/print/>.

Connecting the Camera

- 1 Connect the supplied USB cable as shown and turn the printer on.



- 2 Press the  button for about a second to turn the camera on.  USB will be displayed in the monitor, followed by the PictBridge display shown below at right.



Notes

- Print pictures from internal memory or a memory card that has been formatted in the camera.
- Default printer page size and print quality settings are used when printing via direct USB connection.

Printing Selected Pictures

- 1** Press the selector left or right to display a picture you wish to print.



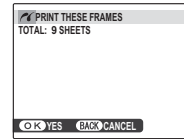
Note

To print one copy of the current picture, proceed directly to Step 3.

- 2** Press the selector up or down to choose the number of copies (up to 99). Repeat steps 1–2 to select additional pictures.





- 3** Press **MENU/OK** to display a confirmation dialog.



- 4** Press **MENU/OK** to start printing.

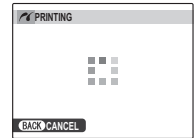



Tip: Printing the Date of Recording

To print the date of recording on pictures, press **DISP/BACK** in steps 1–2 to display the PictBridge menu (see “Printing the DPOF Print Order,” below). Press the selector up or down to highlight **PRINT WITH DATE**  and press **MENU/OK** to return to the PictBridge display (to print pictures without the date of recording, select **PRINT WITHOUT DATE**). To ensure that the date is correct, set the camera clock before taking pictures. Note that the **PRINT WITH DATE**  option is only available with printers that support date printing.

During Printing

The message shown at right is displayed during printing. Press **DISP/BACK** to cancel before all pictures are printed (depending on the printer, printing may end before the current picture has printed).



If printing is interrupted, press  to turn the camera off and then on again.

Disconnecting the Camera

Confirm that the above message is not displayed and turn the camera off. Disconnect the USB cable.

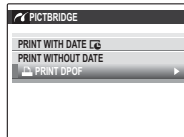
Printing the DPOF Print Order

To print the print order created with  **PRINT ORDER (DPOF)** in the playback menu (pg. 69):

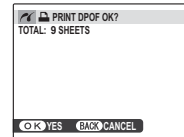
1 In the PictBridge display, press **DISP/BACK** to open the PictBridge menu.



2 Press the selector up or down to highlight  **PRINT DPOF**.



3 Press **MENU/OK** to display a confirmation dialog.



4 Press **MENU/OK** to start printing.



Creating a DPOF Print Order

The **PRINT ORDER (DPOF)** option in the playback menu can be used to create a digital “print order” for PictBridge-compatible printers (pg. 49) or devices that support DPOF.

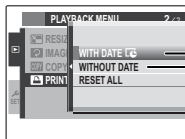
DPOF

DPOF (Digital Print Order Format) is standard that allows pictures to be printed from “print orders” stored in internal memory or on a memory card. The information in the order includes the pictures to be printed and the number of copies of each picture.



WITH DATE /WITHOUT DATE

To modify the DPOF print order, select **PRINT ORDER (DPOF)** in the playback menu and press the selector up or down to highlight **WITH DATE** or **WITHOUT DATE**.

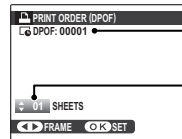


WITH DATE : Print date of recording on pictures.

WITHOUT DATE: Print pictures without date.

Press **MENU/OK** and follow the steps below.

- 1 Press the selector left or right to display a picture you wish to include in or remove from the print order.
- 2 Press the selector up or down to choose the number of copies (up to 99). To remove a picture from the order, press the selector down until the number of copies is 0.



Total number of prints

Number of copies

Tip: Intelligent Face Detection


If the current picture was created with Intelligent Face Detection (pg. 67), pressing the selector down sets the number of copies to the number of faces detected.

3 Repeat steps 1–2 to complete the print order. Press **MENU/OK** to save the print order when settings are complete, or **DISP/BACK** to exit without changing the print order.



4 The total number of prints is displayed in the monitor. Press **MENU/OK** to exit.

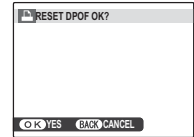


The pictures in the current print order are indicated by a  icon during playback.



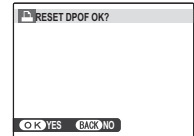
■ **RESET ALL**

To cancel the current print order, select **RESET ALL** in the **PRINT ORDER (DPOF)** menu. The confirmation shown at right will be displayed; press **MENU/OK** to remove all pictures from the order.



← **Notes**

- Remove the memory card to create or modify a print order for the pictures in internal memory.
- Print orders can contain a maximum of 999 pictures.
- If a memory card is inserted containing a print order created by another camera, the message shown at right will be displayed. Pressing **MENU/OK** cancels the print order; a new print order must be created as described above.



Viewing Pictures on a Computer

The supplied software can be used to copy pictures to a computer, where they can be stored, viewed, organized, and printed. Before proceeding, install the software as described below. *Do NOT connect the camera to the computer until installation is complete.*

Installing the Software

1 Confirm that the computer meets the following system requirements:

	Windows 7*	Windows Vista*	Windows XP*
CPU	3 GHz Pentium 4 or better†		2 GHz Pentium 4 or better†
RAM	1 GB or more		512 MB or more‡
Free disk space	15 GB or more		2 GB or more
Video	<ul style="list-style-type: none">• 1024×768 pixels or more with 24-bit color or better• A graphics processing unit (GPU) that supports DirectX 7 or later		
Other	<ul style="list-style-type: none">• Built-in USB port recommended. Operation is not guaranteed with other USB ports.• Internet connection (broadband recommended) required to install .NET Framework (if necessary), to use auto update feature, and when performing such tasks as sharing pictures online or via e-mail.		

* Other versions of Windows are not supported. Only pre-installed operating systems are supported; operation is not guaranteed on home-built computers or computers that have been upgraded from earlier versions of Windows.

† 2.4 GHz Core Duo 2 or better recommended when viewing **3D** HD movies.

‡ 1 GB or more recommended when viewing **3D** HD movies.

2 Start the computer. Log in to an account with administrator privileges before proceeding.

3 Exit any applications that may be running and insert the installer CD in a CD-ROM drive.

 **Windows 7/Windows Vista**

If an AutoPlay dialog is displayed, click **SETUP.EXE**. A “User Account Control” dialog will then be displayed; click **Yes** (Windows 7) or **Allow** (Windows Vista).

The installer will start automatically; click **Install MyFinePix Studio** and follow the on-screen instructions to install MyFinePix Studio.

 **If the Installer Does Not Start Automatically**

If the installer does not start automatically, select **Computer** or **My Computer** from the Start menu, then double-click the **FINEPIX** CD icon to open the FINEPIX CD window and double-click **setup** or **SETUP.EXE**.

4 If prompted to install Windows Media Player, DirectX, or .NET Framework, follow the on-screen instructions to complete installation.

5 Remove the installer CD from the CD-ROM drive when installation is complete. Store the installer CD in a dry location out of direct sunlight in case you need to re-install the software. The version number is printed at the top of the CD label for reference when updating the software or contacting customer support.

Installation is now complete. Proceed to “Connecting the Camera” on page 57.

Connecting the Camera

- 1 If the pictures you wish to copy are stored on a memory card, insert the card into the camera (pg. 10). If no card is inserted, pictures will be copied from internal memory.

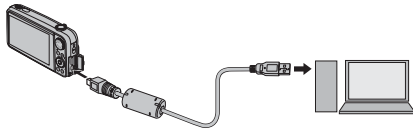
← Note

The Windows CD may be required when the software is started for the first time.

⚠ Caution

Loss of power during transfer could result in loss of data or damage to internal memory or the memory card. Charge the battery before connecting the camera.

- 2 Turn the camera off and connect the supplied USB cable as shown, making sure the connectors are fully inserted. Connect the camera directly to the computer; do not use a USB hub or keyboard.



- 3 Press the **▶** button for about a second to turn the camera on. MyFinePix Studio will start automatically; follow the on-screen instructions to copy pictures to the computer. To exit without copying pictures, click **Cancel**.

⚠ Caution

If the software does not start automatically, it may not be correctly installed. Disconnect the camera and reinstall the software.

For more information on using the supplied software, start the application and select the appropriate option from the **Help** menu.

 **Cautions**

- If a memory card containing a large number of images is inserted, there may be a delay before the software starts and you may be unable to import or save images. Use a memory card reader to transfer pictures.
- Make sure that the computer does not display a message stating that copying is in progress and that the indicator lamp is out before turning the camera off or disconnecting the USB cable (if the number of images copied is very large, the indicator lamp may remain lit after the message has cleared from the computer display). Failure to observe this precaution could result in loss of data or damage to internal memory or the memory card.
- Disconnect the camera before inserting or removing memory cards.
- In some cases, it may not be possible to access pictures saved to a network server using the supplied software in the same way as on a standalone computer.
- The user bears all applicable fees charged by the phone company or Internet service provider when using services that require an Internet connection.

Disconnecting the Camera

After confirming that the indicator lamp is out, follow the on-screen instructions to turn the camera off and disconnect the USB cable.

Uninstalling the Supplied Software

Only uninstall the supplied software when it is no longer required or before beginning reinstallation. After quitting the software and disconnecting the camera, open the control panel and use “Programs and Features” (Windows 7/Windows Vista) or “Add or Remove Programs” (Windows XP) to uninstall MyFinePix Studio. One or more confirmation dialogs may be displayed; read the contents carefully before clicking **OK**.

Using the Menu: Shooting Mode

The shooting menu is used to adjust settings for a wide range of shooting conditions.

Using the Shooting Menu

1 Press **MENU/OK** to display the shooting menu.



2 Press the selector up or down to highlight the desired menu item.



3 Press the selector right to display options for the highlighted item.



4 Press the selector up or down to highlight the desired option.


































5 Press **MENU/OK** to select the highlighted option.



6 Press **DISP/BACK** to exit to shooting mode.



Menu item	Description	Options	Default
 FINEPIX COLOR	Shoot pictures in standard or saturated color or in black-and-white (pg. 65).	 /  / 	
 WHITE BALANCE	Adjust color for different light sources (pg. 66).	AUTO /  /  /  /  /  /  /  /  /  / 	AUTO
 CONTINUOUS	Shoot a series of pictures (pg. 66).	 /  / OFF	OFF
 FACE DETECTION	Choose whether the camera automatically detects and sets focus and exposure for human portrait subjects. Can be combined with red-eye removal (pg. 67).	ON / OFF	OFF
 PHOTOMETRY	Choose how the camera meters exposure (pg. 68).	 /  / 	
 2D AF MODE	Choose how the camera selects a focus area (pg. 68).	 / 	
 AUTO PARALLAX CONTROL	Choose ON for auto  parallax adjustment (pg. 15).	ON / OFF	ON

ISO ISO

Control the camera's sensitivity to light. Higher values can be used to reduce blur when lighting is poor; note, however, that mottling may appear in pictures taken at high sensitivities. If **AUTO (1600)**, **AUTO (800)**, or **AUTO (400)** is selected, the camera will adjust sensitivity automatically in response to shooting conditions. The maximum values that will be selected by the camera at settings of **AUTO (1600)**, **AUTO (800)**, and **AUTO (400)** are 1600, 800, and 400 respectively.

← Note

Sensitivity is not reset when the camera is turned off.

📷 IMAGE SIZE

Choose the size and aspect ratio at which still pictures are recorded. Large pictures can be printed at large sizes with no drop in quality; small pictures require less memory, allowing more pictures to be recorded.

Option	Prints at sizes up to
L 4:3	31 × 23 cm (12 × 9 in.)
L 3:2	31 × 21 cm (12 × 8 in.)
L 16:9	30 × 17 cm (12 × 7 in.)
M 4:3	22 × 16 cm (9 × 6 in.)
M 3:2	22 × 15 cm (9 × 6 in.)
M 16:9	22 × 12 cm (9 × 5 in.)
S 4:3	17 × 13 cm (7 × 5 in.)
S 3:2	17 × 11 cm (7 × 4 in.)
S 16:9	16 × 9 cm (6 × 4 in.)

The number of pictures that can be taken at current settings (pg. 102) is shown in the monitor.

👉 Note

Image size is not reset when the camera is turned off or another shooting mode is selected.

📷 Aspect Ratio

Pictures with an aspect ratio of 4:3 have the same proportions as the camera display. Pictures with an aspect ratio of 3:2 have the same proportions as a frame of 35-mm film, while an aspect ratio of 16:9 is suited to display on High Definition (HD) devices.



4:3



3:2






16:9

IMAGE QUALITY

Choose how much image files are compressed. Select **FINE** (low compression) for higher image quality, **NORMAL** (high compression) to increase the number of pictures that can be stored.



FINEPIX COLOR

Enhance contrast and color saturation or take pictures in black and white.

Option	Displayed in
 F-STANDARD	Standard contrast and saturation. Recommended in most situations.
 F-CHROME	Vivid contrast and color. Choose for vivid shots of flowers or enhanced greens and blues in landscapes. Not available in SP mode.
 F-B&W	Take pictures in black and white.








Settings other than  **F-STANDARD** are shown by an icon in the monitor.

Notes

-  **FINEPIX COLOR** is not reset when the camera is turned off or another shooting mode is selected.
- Depending on the subject, the effects of  **F-CHROME** may not be visible in the monitor.

WB WHITE BALANCE

For natural colors, choose a setting that matches the light source (for an explanation of “white balance,” see the Glossary on page 101).

Option	Description
AUTO	White balance adjusted automatically.
	For subjects in direct sunlight.
	For subjects in the shade.
	Use under “daylight” fluorescent lights.
	Use under “warm white” fluorescent lights.
	Use under “cool white” fluorescent lights.
	Use under incandescent lighting.
	For underwater subjects in an aquarium.



If **AUTO** does not produce the desired results (for example, when taking close-ups), choose the option that matches the light source.

Notes


- Auto white balance is used with the flash. Turn the flash off (pg. 35) to take pictures at other settings.
- Results vary with shooting conditions. Play pictures back after shooting to check colors in the monitor.

CONTINUOUS

Capture motion in a series of pictures.

-  **TOP 40 (HIGH SPEED)**: The camera takes up to 40 pictures at high speed while the shutter button is pressed. Not available in **3D**.
-  **TOP 40**: The camera takes up to 40 pictures while the shutter button is pressed.
- **OFF**: The camera takes one picture each time the shutter button is pressed.

Notes

- The flash turns off automatically. The previously-selected flash mode is restored when **OFF** is selected for  **CONTINUOUS**.
- Frame rate varies with shutter speed.

FACE DETECTION (2D Only)

Intelligent Face Detection allows the camera to automatically detect human faces and set focus and exposure for a face anywhere in the frame for shots that emphasize portrait subjects. Choose for group portraits (in vertical or horizontal orientations) to prevent the camera from focusing on the background.

Tip: Intelligent Face Detection

When Intelligent Face Detection is on, the selected face is indicated by a green border (note that, in some shooting modes, exposure is adjusted for the current shooting mode and may not be optimized for the selected subject). If more than one face is detected, the camera will select the face closest to the center of the frame; other faces are indicated by white borders (note that some time may be required for face detection if the number of faces is very large). Intelligent Face Detection is recommended when using the self-timer for group- or self-portraits (pg. 38).



Green border

When a picture taken with Intelligent Face Detection is displayed, the camera can automatically select faces for red-eye removal (pg. 71), playback zoom (pg. 40), slide shows (pg. 70), printing (pg. 53), and cropping (pg. 73).

Cautions

- If no face is detected when the shutter button is pressed halfway (pg. 19), the camera will focus on the subject at the center of the display and red-eye will not be removed.
- If the subject moves as the shutter button is pressed, their face may not be in the area indicated by the green border when the picture is taken.

[M] PHOTOMETRY

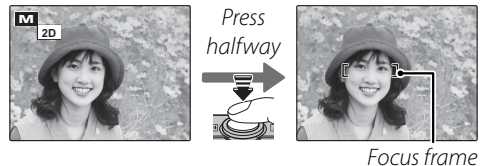
Choose how the camera meters exposure when Intelligent Face Detection (pg. 67) is off.

- **[M] MULTI:** Automatic scene recognition is used to adjust exposure for a wide range of shooting conditions.
- **[M] SPOT:** The camera meters lighting conditions at the center of the frame. Recommended when the background is much brighter or darker than the main subject. Can be used with focus lock (pg. 32) to meter off-center subjects.
- **[M] AVERAGE:** Exposure is set to the average for the entire frame. Provides consistent exposure across multiple shots with the same lighting, and is particularly effective for landscapes and portraits of subjects dressed in black or white.

[M] 2D AF MODE (2D Only)

This option controls how the camera selects the focus area when Intelligent Face Detection (pg. 67) is off. Regardless of the option selected, the camera will focus on the subject in the center of the monitor when macro mode is on (pg. 34).


- **[M] CENTER:** The camera focuses on the subject in the center of the frame. This option can be used with focus lock (pg. 32).
- **[M] MULTI:** When the shutter button is pressed halfway, the camera detects high-contrast subjects near the center of the frame and selects the focus area automatically (if the focus frame is not displayed, select **[M] CENTER** and use focus lock; pg. 32).



Using the Menu: Playback Mode











The playback menu is used to manage the pictures in internal memory or on the memory card.

Using the Playback Menu


- 1 Press the  button to enter playback mode.
- 2 Press **MENU/OK** to display the playback menu.
- 3 Press the selector up or down to highlight the desired menu item.
- 4 Press the selector right to display options for the highlighted item.
- 5 Press the selector up or down to highlight the desired option.
- 6 Press **MENU/OK** to select the highlighted option.
- 7 Press **DISP/BACK** to exit to playback.




Playback Menu Options

Option	Description
 PARALLAX CONTROL	Create copies of 3D pictures with modified parallax (pg. 70).
 ERASE	Delete all or selected pictures (pg. 42).
 SLIDE SHOW	View pictures in a slide show (pg. 70).
 RED EYE REMOVAL	Create copies with reduced red eye (pg. 71).
 PROTECT	Protect pictures from accidental deletion (pg. 72).
 CROP	Create cropped copies of pictures (pg. 73).
 RESIZE	Create small copies of pictures (pg. 74).
 IMAGE ROTATE	Rotate pictures (pg. 75).
 COPY	Copy pictures between internal memory and a memory card (pg. 76).
 PRINT ORDER (DPOF)	Select pictures for printing on DPOF- and PictBridge-compatible devices (pg. 52, 53).



Ⓞ PARALLAX CONTROL (3D Only)

If the current picture is marked with a  icon to indicate that it was taken in **3D**, this option can be used to create a copy with modified parallax.

Use the  control to adjust parallax (pg. 15), and then select **Ⓞ PARALLAX CONTROL** in the playback menu to display the options shown at right. Press **MENU/OK** to create a copy with modified parallax.

**Ⓞ SLIDE SHOW**


View pictures in an automated slide show. Choose the type of show and press **MENU/OK** to start. Press **DISP/BACK** at any time during the show to view on-screen help. When a movie is displayed, movie playback will begin automatically, and the slide show will continue when the movie ends. The show can be ended at any time by pressing **MENU/OK**.

Option	Displayed in
NORMAL	Press selector left or right to go back or skip ahead one frame. Select FADE-IN for fade transitions between frames.
FADE-IN	
NORMAL 	As above, except that camera automatically zooms in on faces selected with Intelligent Face detection.
FADE-IN 	
MULTIPLE	Display several pictures at once.
3D FADE	3D images fade in from 2D to 3D .

← Note



The camera will not turn off automatically while a slide show is in progress.

RED EYE REMOVAL (2D Only)

If the current picture is marked with a  icon to indicate that it was taken with Intelligent Face Detection, this option can be used to remove red-eye. Press **MENU/OK** to analyze the image; if red-eye is detected, the image will be processed to create a copy with reduced red-eye.



Notes

- Red eye may not be removed if the camera is unable to detect a face or the face is in profile. Results may differ depending on the scene. Red eye can not be removed from pictures that have already been processed using red-eye removal or pictures created with other devices.
- The amount of time needed to process the image varies with the number of faces detected.
- Copies created with  **RED EYE REMOVAL** are indicated by a  icon during playback.

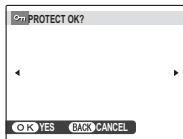
PROTECT

Protect pictures from accidental deletion. The following options are available.

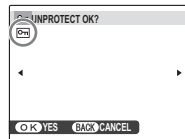
■ FRAME

Protect selected pictures.

- 1 Press the selector left or right to display the desired picture.



Picture not protected



Protected picture

- 2 Press **MENU/OK** to protect the picture. If the picture is already protected, pressing **MENU/OK** will remove protection from the image.

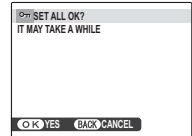


- 3 Repeat steps 1–2 to protect additional images. Press **DISP/BACK** to exit when the operation is complete.



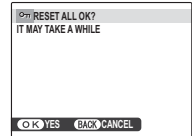
■ SET ALL

Press **MENU/OK** to protect all pictures, or press **DISP/BACK** to exit without changing picture status.



■ RESET ALL

Press **MENU/OK** to remove protection from all pictures, or press **DISP/BACK** to exit without changing picture status.




If the number of pictures affected is very large, a message will be displayed while the operation is in progress. Press **DISP/BACK** to exit before the operation is complete.

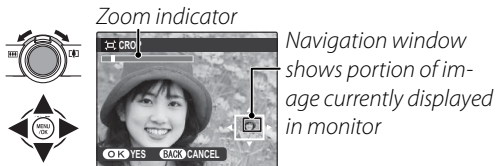
Caution

Protected pictures will be deleted when the memory card or internal memory is formatted (pg. 82).

CROP


To create a cropped copy of a picture, play the picture back and select  **CROP** in the playback menu.

- 1 Use the zoom control to zoom in and out and use the selector to scroll the picture until the desired portion is displayed (to exit to single-frame playback without creating a cropped copy, press **DISP/BACK**).



If the size of the final copy will be **640**, **YES** will be displayed in yellow.

Tip: Intelligent Face Detection (2D Only)

If the picture was shot with Intelligent Face Detection (pg. 67),  will be displayed in the monitor. Press the selector down to zoom in on the selected face.



- 2 Press **MENU/OK** to view the copy size. Larger crops produce larger copies; all copies have an aspect ratio of 4:3.
- 3 Press **MENU/OK** to save the cropped copy to a separate file.



RESIZE

To create a small copy of a picture, play the picture back and select **RESIZE** in the playback menu.

- 1** Press the selector up or down to highlight **640 STANDARD** or **320 SMALL**.



- 2** Press **MENU/OK** to select the high-lighted option.



- 3** Press **MENU/OK** to copy the picture at the selected size.



IMAGE ROTATE (2D Only)

By default, pictures taken in tall orientation are displayed in wide orientation. Use this option to display pictures in the correct orientation in the monitor. It has no effect on pictures displayed on a computer or other device.

Notes

- **3D** images and protected pictures can not be rotated. Remove protection before rotating **2D** images (pg. 72).
- The camera may not be able to rotate pictures created with other devices.

To rotate a picture, play the picture back and select  **IMAGE ROTATE** in the playback menu.

- 1 Press the selector down to rotate the picture 90° clockwise, up to rotate the picture 90° counterclockwise.







- 2 Press **MENU/OK** to confirm the operation (to exit without rotating the picture, press **DISP/BACK**).

The next time the picture is played back, it will automatically be rotated.

COPY COPY

Copy pictures between internal memory and a memory card.

- 1 Press the selector up or down to highlight  **INTERNAL MEMORY**
 →  **CARD** (copy from internal memory to the memory card) or  **CARD** →  **INTERNAL MEMORY** (copy from a memory card to internal memory).
- 2 Press the selector right to display options for the highlighted item.



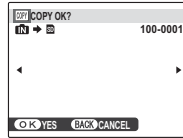
- 3 Press the selector up or down to highlight **FRAME** or **ALL FRAMES**.
- 4 Press **MENU/OK**.

**Tip: Copying Pictures Between Memory Cards**

To copy pictures between two memory cards, insert the source card and copy the pictures to internal memory, then remove the source card, insert the destination card, and copy the pictures from internal memory.

■ FRAME

Copy selected frames.

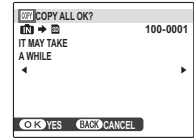


- 1 Press the selector left or right to display the desired picture.
- 2 Press **MENU/OK** to copy the picture.
- 3 Repeat steps 1–2 to copy additional images. Press **DISP/BACK** to exit when the operation is complete.



■ ALL FRAMES

Press **MENU/OK** to copy all pictures, or press **DISP/BACK** to exit without copying pictures.



⚠ Cautions

- Copying ends when the destination is full.
- DPOF print information is not copied (pg. 53).

The Setup Menu

Using the Setup Menu

1 Display the setup menu.

1.1 Press **MENU/OK** to display the menu for the current mode.



1.2 Press the selector left to highlight the tab for the current menu.



1.3 Press the selector down to highlight the setup menu tab.



1.4 Press the selector right to display the setup menu.



2 Adjust settings.

2.1 Press the selector up or down to highlight a menu item.



2.2 Press the selector right to display options for the highlighted item.



2.3 Press the selector up or down to highlight an option.



2.4 Press **MENU/OK** to select the highlighted option.
















3 Exit.

Press **DISP/BACK** to exit the menus.



Setup Menu Options

Menu item	Description	Options	Default
DATE/TIME	Set the camera clock (pg. 13).	—	—
TIME DIFFERENCE	Set the clock to local time (pg. 81).	/	
言語/LANG.	Choose a language (pg.13).	See page 105	ENGLISH
SILENT MODE	Select ON in situations in which camera sounds or lights may be unwelcome (pg. 18).	ON/OFF	OFF
RESET	Reset all settings except DATE/TIME, TIME DIFFERENCE, BACKGROUND COLOR, VIDEO SYSTEM, and DEMO MODE to default values. A confirmation dialog will be displayed, press the selector left or right to highlight OK and press MENU/OK .	—	—
FORMAT	Format internal memory or memory cards (pg. 82).	—	—
IMAGE DISP.	Choose how long pictures are displayed after shooting (pg. 82).	3 SEC / 1.5 SEC / ZOOM / OFF	1.5 SEC
FRAME NO.	Choose how files are named (pg. 83).	CONT. / RENEW	CONT.
OPERATION VOL.	Adjust the volume of camera controls.	(high) / (mid) /	
SHUTTER VOLUME	Adjust the volume of the shutter sound.	(low) / OFF (mute)	
SHUTTER SOUND	Choose the sound made by the shutter.	1 / 2	1
PLAYBACK VOLUME	Press the selector up or down to adjust playback volume and press MENU/OK to select.	—	7
LCD BRIGHTNESS	Press the selector up or down to adjust monitor brightness and press MENU/OK to select.	—	0
AUTO POWER OFF	Choose the auto power off delay (pg. 84).	5 MIN / 2 MIN / OFF	2 MIN
RED EYE REMOVAL	Turn red-eye removal on or off (pg. 36).	ON/OFF	OFF
DIGITAL ZOOM	Enable or disable digital zoom (pg. 84).	ON/OFF	OFF
OPT AXIS CONTROL	Align the optical axes of the twin lenses (pg. 85).	—	0
MPO 3DREC	Choose MPO+JPEG to save JPEG copies of 3D images (pg. 85).	MPO+JPEG / MPO	MPO+JPEG

Menu item	Description	Options	Default
 SAVE ORG IMAGE	Choose whether to save unprocessed copies of pictures taken ON selected for  RED EYE REMOVAL (pg. 79).	ON / OFF	OFF
 BACKGROUND COLOR	Choose a color scheme for menus and cursors.	—	—
 GUIDANCE DISPLAY	Choose whether to display tool tips.	ON / OFF	ON
 3D CAUTION DISP	Disable 3D to prevent fatigue or display a warning after 30 minutes of use (pg. 85).	ON / OFF / NOT 3D	ON
 VIDEO SYSTEM	Choose a video mode for connection to a TV.	NTSC / PAL	—
 HDMI OUTPUT	Choose a display format for output to HDMI devices (pg. 83).	3D / SIDE-BY-SIDE / 2D	3D
 POWER MANAGEMENT	Optimize camera performance for increased battery life or quick focus (pg. 14).	 /  / 	
 DEMO MODE	If ON is selected when the camera is powered by an AC power adapter, a demo will play when the camera is turned on. Press the shutter button to exit demo mode.	ON / OFF	ON

TIME DIFFERENCE

When traveling, use this option to switch the camera clock instantly from your home time zone to the local time at your destination.

1 Specify the difference between local time and your home time zone.

1.1 Press the selector up or down to highlight  **LOCAL**.



1.2 Press the selector right to display the time difference.







1.3 Press the selector left or right to highlight +, -, hours, or minutes; press up or down to edit. The minimum increment is 15 minutes.

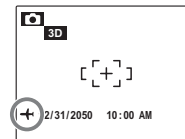


1.4 Press **MENU/OK** when settings are complete.



2 Switch between local time and your home time zone.

To set the camera clock to local time, highlight  **LOCAL** and press **MENU/OK**. To set the clock to the time in your home time zone, select  **HOME**. If  **LOCAL** is selected,  will be displayed in the monitor for three seconds after the camera enters shooting mode, and the date will be displayed in yellow.



After changing time zones, check that the date and time are correct.

FORMAT

Format internal memory or a memory card. If a memory card is inserted in the camera, this option will format the memory card. If no memory card is inserted, **IN** will be displayed in the format dialog and this option will format internal memory. Press the selector left to highlight **OK** and press **MENU/OK** to begin formatting.

Cautions

- All data—including protected pictures—will be deleted. Be sure important files have been copied to a computer or other storage device.
- Do not open the battery-chamber cover during formatting.

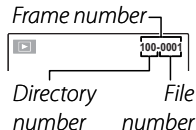
IMAGE DISP.

Choose how long pictures are displayed in the monitor after shooting.

- **3 SEC/1.5 SEC:** Pictures are displayed for the specified time before being recorded to the memory card. Colors may differ from those in the final picture.
- **ZOOM (CONTINUOUS):** Pictures are displayed until the **MENU/OK** button is pressed. Pictures can be zoomed in to check fine details. Not available in **AF** or **A2D** mode or when an option other than **OFF** is selected for **CONTINUOUS** (pg. 66).
- **OFF:** Pictures are not automatically displayed after shooting.

📷 FRAME NO.

New pictures are stored in image files named using a four-digit file number assigned by adding one to the last file number used. The file number is displayed during playback as shown at right. **📷 FRAME NO.** controls whether file numbering is reset to 0001 when a new memory card is inserted or the current memory card or internal memory is formatted.



- **CONTINUOUS:** Numbering continues from the last file number used or the first available file number, whichever is higher. Choose this option to reduce the number of pictures with duplicate file names.
- **RENEW:** Numbering is reset to 0001 after formatting or when a new memory card is inserted.

👉 Notes



- If the frame number reaches 999-9999, the shutter release will be disabled (pg. 98).
- Selecting **📷 RESET** (pg. 79) resets **📷 FRAME NO.** to **CONTINUOUS** but does not reset frame numbering.
- Frame numbers for pictures taken with other cameras may differ.

📺 HDMI OUTPUT


Choose a display format for output to HDMI devices.

- **3D:** Choose for output to devices that support 3D display.
- **SIDE-BY-SIDE:** Choose for output to devices that support side-by-side 3D display. Be sure to configure the television for side-by-side display as described in the television manual.
- **2D:** Choose for output to **High Definition (HD)** devices.



AUTO POWER OFF

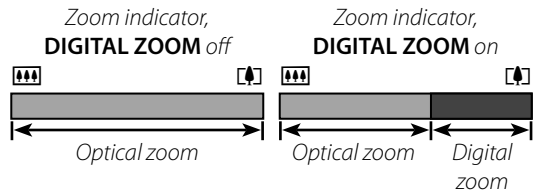
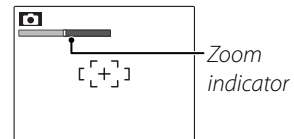
Choose the length of time before the camera turns off automatically when no operations are performed. Shorter times increase battery life; if **OFF** is selected, the camera must be turned off manually (note that the camera will turn off automatically after five minutes if  **QUICK AF** is selected for  **POWER MANAGEMENT** or if the camera enters standby while in movie mode). Regardless of the option selected, the camera will not turn off automatically when connected to a printer (pg. 49) or computer (pg. 57) or when a slide show is in progress (pg. 70).

Tip: Reactivating the Camera

To reactivate the camera after it has turned off automatically, open the lens cover or press the  button for about a second (pg. 12).

DIGITAL ZOOM (2D Only)

If **ON** is selected, selecting  at the maximum optical zoom position will trigger digital zoom, further magnifying the image. To cancel digital zoom, zoom out to the minimum digital zoom position and select .

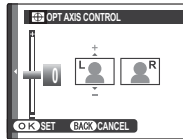


Caution

Digital zoom produces lower quality images than optical zoom.

OPT AXIS CONTROL

Reposition the lenses to vertically align their optical axes for **3D** photography. A setting of 0 is recommended in most circumstances; to choose a different setting, press the selector up or down and press **MENU/OK** to select. Positive values raise the left lens.



MPO 3DREC

Choose **MPO** to save **3D** images in multi-picture (MPO) format, **MPO+JPEG** to save a JPEG copy in addition to the multi-picture file. For information on file formats, see the Glossary on page 100.

Note

MPO files can not be printed in **2D** (pg. 49). The supplied MyFinePix Studio is required to view MPO files on a computer (pg. 55).

3D CAUTION DISP

To prevent fatigue, **3D** can be disabled or a warning can be displayed after prolonged use.

- **ON:** **3D** enabled, but a warning is displayed after 30 minutes of continuous use (measured from when this option is selected or the start of **3D** display).
- **OFF:** **3D** enabled with no warning displayed after prolonged use.
- **NOT 3D DISP:** **3D** disabled.

Optional Accessories

The camera supports a wide range of accessories from FUJIFILM and other manufacturers.

Computer Related

Note: DirectX 8.0 runtime required to view movies (Windows only). Movies must be copied to computer before viewing.

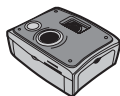


USB cable (supplied)

SD card slot or card reader

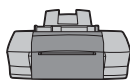
Computer (available from third-party suppliers)

Printing



USB cable
(supplied; 2D
images only)

PictBridge-compatible printer
(available from third-party suppliers)



Printer (available from third-party suppliers)

FINEPIX
REAL 3D W3



SD/SDHC
memory card



Digital Viewers

FinePix REAL 3D V1
(sold separately)



Audio/Visual

A/V cable (sold separately)



Standard TV (available from third-party suppliers)

HDMI cable (sold separately)



3D HDTV (available from third-party suppliers)

HDMI cable (sold separately)



HDP-L1
HD player


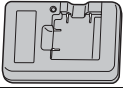

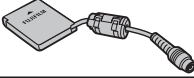

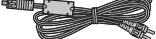
HDMI cable
(sold separately)



HDTV (available from third-party suppliers)

Accessories from FUJIFILM

The following optional accessories are available from FUJIFILM. For the latest information on the accessories available in your region, check with your local FUJIFILM representative or visit http://www.fujifilm.com/products/digital_cameras/index.html.

Rechargeable Li-ion batteries	NP-50	Additional NP-50 rechargeable batteries can be purchased as required.	
Battery chargers	BC-45W	Replacement battery chargers can be purchased as required. The BC-45W charges an NP-50 battery in about 150 minutes at +20°C (+68°F).	
AC power adapters	AC-5VX (requires CP-50 DC coupler)	Use for extended playback or when copying pictures to a computer (shape of adapter and plug vary with region of sale).	
DC couplers	CP-50 (for use with AC-5VX AC power adapter)	Connect the AC-5VX to the camera.	
HD players	HDP-L1 (requires HDMI cable, available from third-party suppliers)	Connect to a High Definition (HD) TV to view photographs and movies from SD memory cards.	
AV cables	AVC-1	Connect the camera to video devices.	

Caring for the Camera

To ensure continued enjoyment of the product, observe the following precautions.

Storage and Use

If the camera will not be used for an extended period, remove the battery and memory card. Do not store or use the camera in locations that are:

- exposed to rain, steam, or smoke
- very humid or extremely dusty
- exposed to direct sunlight or very high temperatures, such as in a closed vehicle on a sunny day
- extremely cold
- subject to strong vibration
- exposed to strong magnetic fields, such as near a broadcasting antenna, power line, radar emitter, motor, transformer, or magnet
- in contact with volatile chemicals such as pesticides
- next to rubber or vinyl products

Water and Sand

Exposure to water and sand can also damage the camera and its internal circuitry and mechanisms. When using the camera at the beach or seaside, avoid exposing the camera to water or sand. Do not place the camera on a wet surface.

Condensation

Sudden increases in temperature, such as occur when entering a heated building on a cold day, can cause condensation inside the camera. If this occurs, turn the camera off and wait an hour before turning it on again. If condensation forms on the memory card, remove the card and wait for the condensation to dissipate.

Cleaning



Use a blower to remove dust from the lens and monitor, then gently wipe with a soft, dry cloth. Any remaining stains can be removed by wiping gently with a piece of FUJIFILM lens-cleaning paper to which a small amount of lens-cleaning fluid has been applied. Care should be taken to avoid scratching the lens or monitor. The camera body can be cleaned with a soft, dry cloth. Do not use alcohol, thinner, or other volatile chemicals.

Traveling

Keep the camera in your carry-on baggage. Checked baggage may suffer violent shocks that could damage the camera.

Troubleshooting



Power and Battery

	Problem	Possible cause	Solution	Page
Power supply	The camera does not turn on.	The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	5, 6
		The battery is not in the correct orientation.	Reinsert the battery in the correct orientation.	6
		The battery-chamber cover is not latched.	Latch the battery-chamber cover.	6–7
		The AC power adapter and DC coupler are not connected properly.	Make sure that the AC power adapter and DC coupler are properly connected.	8
	The battery runs down quickly.	The battery is cold.	Warm the battery by placing it in a pocket or other warm place and re-insert it in the camera immediately before taking a picture.	vi
		There is dirt on the battery terminals.	Clean the terminals with a soft, dry cloth.	—
		The battery has been charged many times.	The battery has reached the end of its charging life. Purchase a new battery.	—
		 QUICK AF is selected for  POWER MANAGEMENT.	Select a power saving option to reduce the drain on the battery.	80
The camera turns off suddenly.	The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	5, 6	
	The AC power adapter or DC coupler has been disconnected.	Make sure that the AC power adapter and DC coupler are properly connected.	8	
Battery charger	Charging does not start.	The battery is not correctly inserted.	Reinsert the battery in the charger.	5
		The battery is not in the correct orientation.	Reinsert the battery in the correct orientation.	5
	Charging is slow.	The temperature is low.	Charge the battery at room temperature.	vi
	The charging lamp lights, but the battery does not charge.	There is dirt on the battery terminals.	Clean the terminals with a soft, dry cloth.	—
		The battery has been charged many times.	The battery has reached the end of its charging life. Purchase a new battery. If the battery still fails to charge, contact your FUJIFILM dealer.	vi

Menus and Displays




Problem	Possible cause	Solution	Page
Menus and displays are not in English.	English is not selected for the  言語/LANG. option in the setup menu.	Select ENGLISH .	79

3D/2D

Problem	Possible cause	Solution	Page
3D mode not available.	NOT 3D DISP is selected for  3D CAUTION DISP .	Select OFF or ON .	85
3D display not available in 3D mode.	POWER SAVE 1 is selected for  POWER MANAGEMENT .	Select another power management option.	80


Shooting

Problem	Possible cause	Solution	Page	
Taking pictures	Memory is full.	Insert a new memory card or delete pictures.	9, 42	
	Memory is not formatted.	Format the memory card or internal memory.	82	
	No picture is taken when the shutter button is pressed.	There is dirt on the memory card contacts.	Clean the contacts with a soft, dry cloth.	—
		The memory card is damaged.	Insert a new memory card.	9
		The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	5, 6
		The camera has turned off automatically.	Turn the camera on.	12
The monitor goes dark after shooting.	The flash has fired.	The monitor may darken while the flash charges. Wait for the flash to charge.	19	
	Focus	The camera does not focus.	The subject is close to the camera.	34
		The subject is far away from the camera.	Cancel macro mode.	
		The subject is not suited to autofocus.	Use focus lock.	32



	Problem	Possible cause	Solution	Page
Flash	The flash does not fire.	The flash is not available in the current shooting mode.	Choose a different shooting mode.	22
		The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	5, 6
		An option other than OFF is selected for  CONTINUOUS .	Turn  CONTINUOUS off.	66
		The camera is in silent mode.	Turn silent mode off.	18
		The flash is off ().	Choose a different flash mode.	35
	Flash mode not available.	The desired flash mode is not available in the current shooting mode.	Choose a different shooting mode.	22
		The camera is in silent mode.	Turn silent mode off.	18
	The flash does not fully light the subject.	The subject is not in range of the flash.	Position the subject in range of the flash.	104
		The flash window is obstructed.	Hold the camera correctly.	17
	Intelligent Face Detection	Face detection not available.	Intelligent Face Detection is not available in the current shooting mode.	Choose a different shooting mode.
No face is detected.		The subject's face is obscured by sunglasses, a hat, long hair, or other objects.	Remove the obstructions.	—
		The subject's face occupies only a small area of the frame.	Change the composition so that the subject's face occupies a larger area of the frame.	
		The subject's head is at an angle or the subject is not facing the camera.	Ask the subject to face the camera and hold their head straight.	
		The camera is tilted.	Hold the camera straight.	
		The subject's face is poorly lit.	Shoot in bright light.	—
Wrong subject selected.	The selected subject is closer to the center of the frame than the main subject.	Recompose the picture or turn face detection off and frame the picture using focus lock.	32	







	Problem	Possible cause	Solution	Page
Close-ups	Macro mode is not available.	Macro mode is not available in the current shooting mode.	Choose a different shooting mode.	22
Problem images	Pictures are blurred.	The lens is dirty.	Clean the lens.	88
		The lens is blocked.	Keep objects away from the lens.	17
		!AF is displayed during shooting and the focus frame is displayed in red.	Check focus before shooting.	96
		! is displayed during shooting.	Use the flash or a tripod.	35
	Pictures are mottled.	Slow shutter speed selected when ambient temperature is high.	This is characteristic of CCD image sensors and does not indicate a malfunction.	—
	Vertical lines appear in pictures.	The camera has been used continuously at high temperatures.	Turn the camera off and wait for it to cool down.	—
Recording	Pictures are not recorded.	Power was interrupted during shooting.	Turn the camera off before connecting the AC power adapter/DC coupler. Leaving the camera on can result in corrupted files or damage to the memory card or internal memory.	—

Playback

Problem		Possible cause	Solution	Page
Pictures	Pictures are grainy.	The pictures were taken with a different make or model of camera.	—	—
	Playback zoom unavailable.	The pictures were created using  RESIZE or with a different make or model of camera.	—	40
Movies	No sound in movie playback.	Playback volume is too low.	Adjust playback volume.	79
		The microphone was obstructed.	Hold the camera correctly during recording.	—
		The speaker is obstructed.	Hold the camera correctly during playback.	—
Deletion	Selected pictures are not deleted.	Some of the pictures selected for deletion are protected.	Remove protection using the device with which it was originally applied.	72

Connections

Problem		Possible cause	Solution	Page
TV	No picture or sound.	The camera is not properly connected.	Connect the camera correctly.	47, 48
		An A/V cable was connected during movie playback.	Connect the camera once movie playback has ended.	46, 47
		Input on the television is set to "TV".	Set input to "VIDEO".	—
		The camera is not set to the correct video standard.	Match the camera  VIDEO SYSTEM setting to the TV.	80
	The volume on the television is too low.	Adjust the volume.	—	
No color.	The camera is not set to the correct video standard.	Match the camera  VIDEO SYSTEM setting to the TV.	80	







Problem		Possible cause	Solution	Page
3D TV	3D pictures are not displayed in 3D	The pictures were created using  3D or MyFinePix Studio, were modified using  PARALLAX CONTROL, or are cropped or resized copies of 3D photos.	The pictures described at left can not be displayed in 3D. This is normal and does not indicate a malfunction.	48
		2D is selected for  HDMI OUTPUT in the camera setup menu.	Select another  HDMI OUTPUT option.	83
		Television is not configured for 3D display.	Adjust TV controls.	—
Computer	The computer does not recognize the camera.	The camera is not properly connected.	Connect the camera correctly.	57–59
PictBridge	Pictures can not be printed.	The camera is not properly connected.	Connect the camera correctly.	49
		The printer is off.	Turn the printer on.	—
	Only one copy is printed. The date is not printed.	The printer is not PictBridge-compatible.	—	—
AC power adapter	Demo slides are displayed.	ON is selected for  DEMO MODE.	Press the shutter button to exit demo and select OFF for  DEMO MODE.	80



Miscellaneous












Problem	Possible cause	Solution	Page
Nothing happens when the shutter button is pressed.	Temporary camera malfunction.	Remove and reinsert the batteries or disconnect and reconnect the AC power adapter/DC coupler.	6–7, 8
	The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	5, 6
The camera does not function as expected.	Temporary camera malfunction.	Remove and reinsert the battery or disconnect and reconnect the AC power adapter/DC coupler. If the problem persists, contact your FUJIFILM dealer.	6–7, 8
No sound.	The camera is in silent mode.	Turn silent mode off.	18

Warning Messages and Displays

The following warnings are displayed in the monitor:

Warning	Description	Solution
 (red)	The battery is low.	Charge the battery or insert a fully-charged spare battery.
 (blinks red)	The battery is exhausted.	
	Slow shutter speed. Picture may be blurred.	Use the flash or mount the camera on a tripod.
!AF (displayed in red with red focus frame)	The camera can not focus.	<ul style="list-style-type: none"> • Use focus lock to focus on another subject at the same distance, then recompose the picture (pg. 32). • If the subject is poorly lit, try focusing at a distance of about 2 m (6.6 ft.). • Use macro mode to focus when taking close-ups.
Aperture or shutter speed shown in red	The subject is too bright or too dark. The picture will be over- or under-exposed.	If the subject is dark, use the flash.
	Lens is obstructed by a finger or other object.	Remove the obstruction.
FOCUS ERROR	Camera malfunction.	Turn the camera off and then on again, taking care not to touch the lens. If the message persists, contact a FUJIFILM dealer.
ZOOM ERROR		
LENS CONTROL ERROR		
NO CARD	No memory card inserted when  COPY is selected in the playback menu.	Insert a memory card.
CARD NOT INITIALIZED	The memory card or internal memory is not formatted or the memory card was formatted in a computer or other device.	Format the memory card or internal memory using the  FORMAT option in the camera setup menu (pg. 82).
	The memory card contacts require cleaning.	Clean the contacts with a soft, dry cloth. If the message is repeated, format the memory card (pg. 82). If the message persists, replace the memory card.
	Camera malfunction.	Contact a FUJIFILM dealer.
PROTECTED CARD	The memory card is locked.	Unlock the memory card (pg. 9).
BUSY	The memory card is incorrectly formatted.	Use the camera to format the memory card (pg. 82).

Warning	Description	Solution
CARD ERROR	The memory card is not formatted for use in the camera.	Format the memory card (pg. 82).
	The memory card contacts require cleaning or the memory card is damaged.	Clean the contacts with a soft, dry cloth. If the message is repeated, format the memory card (pg. 82). If the message persists, replace the memory card.
	Incompatible memory card.	Use a compatible memory card.
	Camera malfunction.	Contact a FUJIFILM dealer.
 MEMORY FULL	The memory card or internal memory is full; pictures can not be recorded or copied.	Delete pictures or insert a memory card with more free space.
 MEMORY FULL		
INTERNAL MEMORY IS FULL INSERT A NEW CARD		
WRITE ERROR	Memory card error or connection error.	Re-insert the memory card or turn the camera off and then on again. If the message persists, contact a FUJIFILM dealer.
	Not enough memory remaining to record additional pictures.	Delete pictures or insert a memory card with more free space.
	The memory card or internal memory is not formatted.	Format the memory card or internal memory (pg. 82).
READ ERROR	The file is corrupt or was not created with the camera.	The file can not be played back.
	The memory card contacts require cleaning.	Clean the contacts with a soft, dry cloth. If the message is repeated, format the memory card (pg. 82). If the message persists, replace the memory card.
	Camera malfunction.	Contact a FUJIFILM dealer.

Warning	Description	Solution
FRAME NO. FULL	The camera has run out of frame numbers (current frame number is 999-9999).	Format the memory card and select RENEW for the  FRAME NO. option in the set-up menu. Take a picture to reset frame numbering to 100-0001, then return to the  FRAME NO. menu and select CONTINUOUS .
TOO MANY FRAMES	Date for which more than 4,999 pictures exist selected in sort-by-date view.	Choose a different date.
 CAN NOT EXECUTE	Red-eye removal can not be applied to the selected picture or movie.	—
 CAN NOT EXECUTE		
PROTECTED FRAME	An attempt was made to delete or rotate a protected picture.	Remove protection before deleting or rotating pictures.
 NO IMAGE	The source device selected in the playback  COPY menu contains no pictures.	Select a different source.
 NO IMAGE		
 CAN NOT CROP	An attempt was made to crop a  picture.	These pictures can not be cropped.
CAN NOT CROP	The picture selected for cropping is damaged or was not created with the camera.	
DPOF FILE ERROR	The DPOF print order on the current memory card contains more than 999 images.	Copy the pictures to internal memory and create a new print order.
CAN NOT SET DPOF	The picture can not be printed using DPOF.	—
 CAN NOT SET DPOF	Movies can not be printed using DPOF.	—
CAN NOT ROTATE	The picture can not be rotated.	—
 CAN NOT ROTATE	Movies can not be rotated.	—

Warning	Description	Solution
PRESS AND HOLD THE DISP BUTTON TO DEACTIVATE SILENT MODE	An attempt was made to choose a flash mode or adjust the volume with the camera in silent mode.	Exit silent mode before choosing a flash mode or adjusting the volume.
COMMUNICATION ERROR	A connection error occurred while pictures were being printed or copied to a computer or other device.	Confirm that the device is turned on and that the USB cable is connected.
PRINTER ERROR	Printer out of paper or ink, or other printer error.	Check printer (see printer manual for details). To resume printing, turn the printer off and then turn it back on.
PRINTER ERROR RESUME?		Check printer (see printer manual for details). If printing does not resume automatically, press MENU/OK to resume.
CAN NOT BE PRINTED	An attempt was made to print a movie, a picture not created with the camera, or a picture in a format not supported by the printer.	Movies and some pictures created with other devices can not be printed. If the picture was created with the camera, check the printer manual to confirm that the printer supports the JFIF-JPEG or Exif-JPEG format. If it does not, the pictures can not be printed.

Glossary

3D movie format: FUJIFILM has extended the generic Motion JPEG format to create an AVI movie file format that supports 3D. 3D movie files have the extension "*.AVI" and can be played back on the camera in 3D with stereo sound. When viewed in Windows Media Player, only the images recorded with the left lens will be displayed.

Digital zoom: Unlike optical zoom, digital zoom does not increase the amount of visible detail. Instead, details visible using optical zoom are simply enlarged, producing a slightly "grainy" image.

DPOF (Digital Print Order Format): A standard that allows pictures to be printed from "print orders" stored in internal memory or on a memory card. The information in the order includes the pictures to be printed and the number of copies of each picture.



EV (Exposure Value): The exposure value is determined by the sensitivity of the image sensor and the amount of light that enters the camera while the image sensor is exposed. Each time the amount of light doubles, EV increases by one; each time the amount of light is halved, EV decreases by one. The amount of light entering the camera can be controlled by adjusting aperture and shutter speed.

Exif Print: A standard that allows information stored with pictures to be used for optimal color reproduction during printing.

JPEG (Joint Photographic Experts Group): A compressed file format for color images. The higher the compression rate, the greater the loss of information and more noticeable drop in quality when the picture is displayed.

Motion JPEG: An AVI (Audio Video Interleave) format that stores sound and JPEG images in a single file. Motion JPEG files can be viewed on a computer using Windows Media Player (requires DirectX 8.0 or later).

Multi-picture format: An image file format that allows multiple images to be stored in a single file. This camera stores 3D images in multi-picture files with the extension "*.MPO".

Parallax: Changes in the apparent position and orientation of a subject when viewed from different angles.

Smear: A phenomenon specific to CCDs which causes white streaks to appear when very bright light sources, such as the sun or reflected sunlight, appear in the frame.

White balance: The human brain automatically adapts to changes in the color of light, with the result that objects that appear white under one light source still appear white when the color of the light source changes. Digital cameras can mimic this adjustment by processing images according to the color of the light source. This process is known as “white balance.”

Internal Memory/Memory Card Capacity

The following table shows the file size and recording time or number of available frames at different image sizes (the figures for capacity assume that **MPO+JPEG** is selected for **MPO 3DREC** as described on page 85; multiply by about 1.5 for MPO-only files and by about 3 for 2D images). All figures are approximate; file size varies with the scene recorded, producing wide variations in the number of files that can be stored. The number of exposures or length remaining may not diminish at an even rate.

Image/frame size		Capacity						File size		
		Internal memory (approx. 34 MB)		4 GB		8 GB				
		FINE	NORMAL	FINE	NORMAL	FINE	NORMAL	MPO+JPEG	MPO	JPEG
Photographs	L 4:3	2	4	260	530	530	1070	14.7 MB	9.8 MB	4.9 MB
	L 16:9	3	6	370	730	740	1470	10.7 MB	7.1 MB	3.6 MB
	M 4:3	4	8	530	1040	1060	2090	7.5 MB	5.0 MB	2.5 MB
	M 16:9	6	12	710	1400	1430	2820	5.5 MB	3.7 MB	1.8 MB
	S 4:3	7	14	830	1630	1680	3270	4.7 MB	3.1 MB	1.6 MB
	S 16:9	10	16	1250	1880	2510	3770	3.1 MB	2.1 MB	1.0 MB
Movies	3D	HD (1280) †	—	10 min.		21 min.		—	—	—
		640 †	—	27 min.		54 min.		—	—	—
		320 †	26 sec.	50 min.		100 min.		—	—	—
	2D	HD (1280) †	—	20 min.		42 min.		—	—	—
		640 †	—	50 min.		100 min.		—	—	—
		320 †	46 sec.	87 min.		176 min.		—	—	—

* When a movie reaches a size of 4 GB, recording will briefly pause and then resume in a new file. The recording times displayed by the camera assume a maximum file size of about 4 GB.

† Total length of all movie files. Individual movies can not exceed 2 GB, regardless of capacity of memory card.

Specifications

System	
Model	FinePix REAL 3D W3
Effective pixels	10.17 million
CCD	Two 1/2.3-in. CCDs
Storage media	• Internal memory (approx. 34 MB) • SD/SDHC memory cards (see page 9)
File system	Compliant with Design Rule for Camera File System (DCF), Exif 2.3, multi-picture format (MPO), and Digital Print Order Format (DPOF)
File format	• Still pictures (3D) : MPO+JPEG or MPO • Still pictures (2D) : Exif 2.3 JPEG (compressed) • Movies (3D) : Stereo AVI with 2 image channels • Movies (2D) : Motion JPEG with stereo audio recorded in AVI
Image size (pixels; file size)	• L 4:3 : 3,648 × 2,736 (10M) • L 3:2 : 3,648 × 2,432 (8.9M) • L 16:9 : 3,584 × 2,016 (7.2M) • M 4:3 : 2,592 × 1,944 (5M) • M 3:2 : 2,592 × 1,728 (4.5M) • M 16:9 : 2,560 × 1,440 (3.7M) • S 4:3 : 2,048 × 1,536 (3M) • S 3:2 : 2,016 × 1,344 (2.7M) • S 16:9 : 1,920 × 1,080 (2M)
Lens	Two Fujinon 3 × optical zoom lenses, F/3.7 (wide angle) – 4.2 (telephoto)
Focal length	f=6.3 mm–18.9 mm (35-mm format equivalent: 35 mm–105 mm)
Zoom	• 3D/42D : Combined optical and digital zoom up to approx. 3.8 × (35-mm format equivalent: 39 mm–149 mm) • 43D : 3 × optical zoom • 2D : 3 × optical zoom with up to approx. 5.7 × digital zoom (maximum combined zoom approx. 17.1 ×)
Digital zoom	Approx. 5.7 × (up to 17.1 × when combined with optical zoom)
Aperture	F3.7/F5.0/F8.0 (wide angle), F4.2/F5.6/F9.0 (telephoto)
Focus range (distance from front of lens)	Approx. 60 cm (2.0 ft.)–infinity • Macro (2D) : Approx. 8 cm–80 cm/0.3 ft.–2.6 ft. (wide angle); 60 cm–3 m/2.0 ft.–9.8 ft. (telephoto) • Macro (3D) : Approx. 38 cm–70 cm/1.2 ft.–2.3 ft. (wide angle); 1.1 m–2.3 m/3.6 ft.–7.5 ft. (telephoto) • Quick AF : Approx. 1 m (3.3 ft.)–infinity
Recommended shooting distance (3D)	• Auto parallax off : Approx. 1.3 m/4.3 ft.–infinity (wide angle); 4.1 m/13.5 ft.–infinity (telephoto) • Auto parallax on (as measured by FUJIFILM): Approx. 1.3 m/4.3 ft.–infinity (wide angle); 4.1 m/13.5 ft.–infinity (telephoto)

System	
Sensitivity	Standard output sensitivity equivalent to ISO 100, 200, 400, 800, 1600; AUTO (400), AUTO (800), AUTO (1600)
Metering	256-segment through-the-lens (TTL) metering; MULTI, SPOT, AVERAGE
Exposure control	Program and aperture-priority autoexposure; manual exposure
Exposure compensation	-2 EV – +2 EV in increments of 1/3 EV (P and A modes)
Scene modes	(ANTI-BLUR), (NATURAL AND FLASH LIGHTING; in 3D mode, images are recorded at size S), (NATURAL LIGHT), (PORTRAIT), (LANDSCAPE), (SPORT), (NIGHT), (NIGHT TRIPOD), (SUNSET), (SNOW), (BEACH), (UNDERWATER), (PARTY)
Advanced 2D modes	(TELE/WIDE), (2-COLOR), (2-SENSITIVITY)
Advanced 3D modes	(INTERVAL 3D SHOOTING), (INDIVID. SHUTTER 3D)
Picture stabilization	None
Intelligent Face Detection	Available (2D only)
Shutter speed	• : 1/8 s – 1/500 s • : 3 s – 1/500 s • M : 1/2 s – 1/1,000 s • Other modes : 1/4 s – 1/1,000 s
Continuous	• (3D): Up to 2 fps (size S); max. 40 frames • (2D): Up to 1 fps; max. 40 frames • (3D): Up to 3 fps (size S); max. 40 frames
Focus	• Mode : Single AF • Autofocus system : Contrast-detect TTL AF • Focus-area selection (Intelligent Face Detection off): Center (3D/2D), auto-area (2D)
White balance	Auto; seven manual preset modes for direct sunlight, shade, daylight fluorescent, warm white fluorescent, cool white fluorescent, incandescent, and underwater lighting
Self-timer	Off, 2 sec., 10 sec.
Flash	Auto flash; effective range when sensitivity is set to ISO 800 is approx. 60 cm – 3.6 m/2 ft. – 11.8 ft. (wide angle), 60 cm – 3.1 m/2 ft. – 10.2 ft. (telephoto), or in macro mode (2D only) 30 cm – 80 cm/1 ft. – 2.6 ft. (wide angle), 60 cm – 1.5 m/2 ft. – 4.9 ft. (telephoto)
Flash modes	Auto, fill flash, off, slow sync (red-eye removal off); auto with red-eye removal, fill flash with red-eye removal, off, slow sync with red-eye removal (red-eye removal on)

System**Monitor** 3.5-in., 1,150k-dot **3D** / **2D** color lenticular LCD monitor; frame coverage approx. 100%**Movies** **HD 1280** (1,280 × 720/720p, 24 fps), **640** (640 × 480/VGA, 30 fps), **320** (320 × 240/QVGA, 30 fps); stereo sound**Shooting options**

- **3D**: Auto parallax, power management, framing guide, and frame number memory
- **2D**: Intelligent Face Detection with red-eye removal, power management, framing guide, and frame number memory

Playback options

- **3D**: Parallax adjustment, micro thumbnails, multi-frame playback, sort-by-date, cropping, resize, and slide show
- **2D**: Intelligent Face Detection, red-eye removal, micro thumbnails, multi-frame playback, sort-by-date, cropping, resize, slide show, and image rotation

Other options PictBridge, Exif Print, language selection (Arabic, Simplified Chinese, Traditional Chinese, Czech, Danish, Dutch, English, Farsi, Finnish, French, German, Greek, Hebrew, Hungarian, Indonesian, Italian, Japanese, Korean, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Slovak, Spanish, Swedish, Thai, Turkish, Ukrainian, and Vietnamese), time difference, silent mode**Input/output terminals****A/V OUT** (audio/video output) 8-pin multi-connector for NTSC or PAL output with monaural sound**HDMI output** HDMI mini connector**Digital input/output** USB 2.0 High Speed (shares A/V OUT connector); PTP (Picture Transfer Protocol)/MTP (Media Transfer Protocol)

Power supply/other**Power sources** NP-50 rechargeable battery; AC-5VX AC power adapter and CP-50 DC coupler (sold separately)**Battery life (approximate number of frames that can be taken with fresh or fully charged batteries)**

Battery type	Approximate number of frames
NP-50	150

CIPA standard, measured in **3D**  mode using battery supplied with camera and SD memory card.**Note:** Number of shots that can be taken with battery varies with battery charge level and will decline at low temperatures.**Camera dimensions (W×H×D)** 124.0 mm×65.9 mm×27.8 (21.0") mm/4.9 in.×2.6 in.×1.1 (0.8) in.

* excluding projecting parts, measured at the thinnest part

Camera weight Approx. 230 g/8.1 oz., excluding batteries, accessories, and memory cards**Shooting weight** Approx. 250 g/8.8 oz., including batteries and memory card**Operating conditions** • **Temperature:** 0°C to +40°C/+32°F to +104°F • **Humidity:** 80% or less (no condensation)**NP-50 rechargeable battery****Nominal voltage** DC 3.6V**Nominal capacity** 1000 mAh**Operating temperature** 0°C – +40°C/+32°F – +104°F**Dimensions (W×H×D)** 35.4 mm×40.0 mm×6.6 mm/
1.4 in.×1.6 in.×0.3 in.**Weight** Approx. 18 g/0.6 oz.**BC-45W battery charger****Rated input** 100 V–240 V AC, 50/60 Hz**Input capacity** 8.0 VA (100 V) / 12 VA (240 V)**Rated output** 4.2 V DC, 550 mA**Supported batteries** NP-50 rechargeable batteries**Charging time** Approx. 150 minutes (at 20°C/68°F)**Dimensions (W×H×D)** 91 mm×62 mm×23 mm/
3.6 in.×2.4 in.×0.9 in.,
excluding projections**Weight** Approx. 67 g/2.4 oz., excluding battery**Operating temperature** 0°C – +40°C/+32°F – +104°F**Note:** Weight and dimensions vary with the country or region of sale.

Notices

- Specifications subject to change without notice. FUJIFILM shall not be held liable for damages resulting from errors in this manual.
- Although the monitor is manufactured using advanced high-precision technology, small bright points and anomalous colors may appear, particularly in the vicinity of text. This is normal for this type of monitor and does not indicate a malfunction; images recorded with the camera are unaffected.
- Digital cameras may malfunction when exposed to strong radio interference (e.g., electric fields, static electricity, or line noise).
- Due to the type of lens used, some distortion may occur at the periphery of images. This is normal.

FUJIFILM

FUJIFILM Corporation

7-3, AKASAKA 9-CHOME, MINATO-KU, TOKYO 107-0052, JAPAN

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