## Requirements

- **Broadband Internet Access**
- **Cable/DSL Modem**
- **Network Router or Hub**
- **Proper configuration of the Denon A/V component to work on a particular Network Environment**
- **Ethernet 'Straight' Cable for Direct connection to the Network Environment**

## Recommendations

- **If you did not install, or configure, the Denon A/V Component with your Network Environment, please contact your Network Installer/Integrator to assist.**
- **If connecting the Denon A/V Component to your Network Environment for the first time, please read the following sections in the 'Instruction Manual' provided with your component.**

    ▶ AVR-3310CI Instruction Manual Page 23, 38, 58

    ▶ AVR-990 Instruction Manual Page 22, 37, 56

- **Once the Denon A/V Component is connected and configured properly to your Network Environment, please test that you can receive and listen to Internet Radio stations on the 'Net//USB' input.**
    This will show you have, at a minimum, a good Internet connection to the component.
- **Be sure <u>NOT to 'Power Off'</u> the unit during the upgrade process as this will cause a failure in the process.**
    If this does occur and the unit will not respond normally, please contact Denon USA Customer Service at 1-800-497-8921.

## Key Notes on Network Environment Configurations

- **Denon A/V Components are <u>not compatible with PPPoE</u> (Point to Point Protocol over Ethernet).**
    Contact you Internet Service Provider (ISP) to assist in procuring a PPPoE Router.
- **Denon A/V Components are <u>not UPnP (Universal Plug and Play) compliant.</u>**
    This could be an issue with some routers on the market (we have seen this on some NetGear products). You can disable UPnP in the router's setup configuration, however changing this setting can affect the normal operation of other devices on your Network.
    Contact your Router manufacturer for assistance.
- **Some 'Firewall' settings in your network router may not permit the Upgrading functionality of Denon A/V Components.**
    Contact your Router manufacturer for assistance.
- **Be sure to <u>DISABLE "VPN" on any PC on your network</u> environment.**
    Company or office network connections will cause a failure in the process.

## Important Notice

- **Two-way Communication of Denon RC-7000CI/RC-7001RCI**
    Please be note, DSX feature upgrade disables two-way communication of the Denon RC-7000CI remote and RC-7001RCI RF repeater via RS-232C. Once feature upgrade is installed, two-way functionality of RC-7000CI/7001RCI is no longer available. If you want to keep using the RC-7000CI and 7001RCI, do not perform the feature upgrade.
- **The Upgrade Firmware will NOT reset the system setup configurations of your Denon A/V component.**
    Note that after upgrading the DSX Feature, you will need to re-calibrate your system using the Audyssey MultEQ function in the component. This is required for you to get the best level of performance.

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