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Denon AVR-1712

Denon AVR-1712 A/V Surround Receiver User Manual

1. INTRODUCTION

The Denon AVR-1712 is a 7.1 channel A/V Surround Receiver designed to provide high-quality audio and video processing for home theater systems. This receiver supports 3D video signals and offers powerful surround sound capabilities. It is equipped with a Setup Wizard to guide users through initial configuration, simplifying the process of connecting speakers and other components.

2. PACKAGE CONTENTS

Before beginning setup, ensure all items are present in the package:

- AVR-1712 7.1-Channel A/V Receiver
- Remote control
- AA batteries (for remote control)
- Setup microphone (for Audyssey MultEQ)
- AM loop antenna
- FM indoor antenna
- Owner's manual (this document)

3. CONNECTIONS

Proper connection of your audio and video components is crucial for optimal performance. Refer to the rear panel diagram for connection points.



Figure 3.1: Rear panel connections of the Denon AVR-1712 A/V Surround Receiver. This view displays the HDMI inputs, digital audio inputs (optical and coaxial), analog audio inputs, speaker terminals, and antenna connections.

3.1 HDMI Connections

The AVR-1712 features six HDMI inputs and one HDMI output. Connect your high-definition devices such as Blu-ray players, game consoles, and set-top boxes to the HDMI inputs. Connect the HDMI output to your television or projector. HDMI v1.4a supports 3D pass-through and Audio Return Channel (ARC).

3.2 Speaker Connections

Connect your speakers to the corresponding terminals on the rear panel. The receiver supports a 7.1 channel configuration. Ensure correct polarity (+ to + and - to -) for all speaker connections. The Audyssey MultEQ system will assist in calibrating speaker levels and distances during initial setup.

3.3 Antenna Connections

Connect the supplied AM loop antenna and FM indoor antenna to their respective terminals for radio reception.

3.4 Portable Audio Device Connectivity

A front-side stereo mini jack allows for audio playback from portable audio players. Additionally, the receiver can be used with the Denon Networked Control Dock (sold separately) for iPod/iPhone integration.

4. INITIAL SETUP

The AVR-1712 includes a Setup Wizard to simplify the initial configuration process.

4.1 Setup Wizard

Upon first power-on, the Setup Wizard will appear on your connected TV screen. Follow the on-screen instructions to configure:

- Language settings
- Speaker connections and configuration
- Input assignments
- Network settings (if applicable with optional accessories)

4.2 Audyssey MultEQ Calibration

The Audyssey MultEQ system automatically measures sound levels and adjusts speaker configuration to optimize the acoustic profile of your listening environment. Connect the supplied setup microphone to the front

panel jack and follow the on-screen prompts from the Setup Wizard to perform the calibration.

5. KEY FEATURES

The Denon AVR-1712 incorporates several technologies to enhance your home theater experience.

5.1 Audio Technologies

- **Equal Power Amp Design:** Each of the seven 90-watt channels is powered by a discrete circuit, contributing to faithful sound reproduction.
- **High-Definition Audio Support:** Compatible with Blu-ray high-definition audio formats, including Dolby TrueHD and DTS-HD Master Audio, for realistic sound.
- **Dolby Pro Logic IIz:** Adds two additional height channels to the soundstage, providing a more immersive surround sound experience (requires an optional external amplifier).
- **Audyssey MultEQ:** Automatically calibrates speaker settings for optimal room acoustics.
- **Compressed Audio Restorer:** Improves the playback quality of compressed audio formats like MP3.

5.2 Video Technologies

- **HDMI v1.4a:** Supports 3D Pass-Through for 3D video signals from Blu-ray players and television broadcasts.
- **Audio Return Channel (ARC):** Allows audio content from your TV to be played back through the receiver via the HDMI cable, eliminating the need for a separate audio cable.
- **Deep Color and x.v.Color Support:** Enables the display of a wider color range for a more vibrant picture.

6. OPERATION

The AVR-1712 is designed for user-friendly operation with its intuitive controls and on-screen display.



Figure 6.1: Front panel of the Denon AVR-1712 A/V Surround Receiver. This image shows the main display, input selector buttons, master volume control, and the Quick Select buttons.

6.1 Front Panel Controls

The front panel includes a master volume control, input selector buttons, and Quick Select buttons. The Quick Select buttons allow for effortless selection of video and music sources.

6.2 Remote Control

The supplied remote control provides comprehensive control over the receiver's functions. Familiarize yourself with the button layout for efficient operation.

6.3 Graphical User Interface (GUI)

The on-screen display (GUI) provides quick information about your system's settings and facilitates navigation through menus. The GUI overlays on HD sources for seamless adjustments.

6.4 Multi-Zone Functionality

The AVR-1712 allows you to enjoy a program source in the Main Zone (the room where the receiver is located) and in Zone 2 (another room).

7. SPECIFICATIONS

Key technical specifications for the Denon AVR-1712 A/V Surround Receiver:

Feature	Specification
Product Dimensions (H x W x D)	6-3/8 x 17-1/8 x 15-3/64 inches (15 x 17.1 x 6.4 inches)
Item Weight	22.5 pounds (22.4 pounds)
Channels	7.1
Power Output (20Hz-20kHz, 8 ohms, .08% THD)	90 watts per channel
Power Output (1kHz, 6 ohms, 0.7% THD)	125 watts per channel
HDMI Inputs	6
HDMI Output	1
HDMI Version	v1.4a
Supported Audio Formats	Dolby TrueHD, DTS-HD Master Audio, Dolby Pro Logic IIz
Room Correction	Audyssey MultEQ
Connectivity Technology	Wired
Controller Type	Android (via compatible app)
Special Features	GUI Overlay, Premium Audio Technologies, Setup Wizard, Vivid 3D Visuals

8. TROUBLESHOOTING

This section provides general guidance for common issues. For detailed troubleshooting, refer to the comprehensive owner's manual available on the Denon website.

8.1 No Power

- Ensure the power cord is securely plugged into both the receiver and a working electrical outlet.
- Check the power switch on the receiver.

8.2 No Sound

- Verify that the correct input source is selected on the receiver.
- Check speaker connections for proper polarity and secure fit.
- Ensure the volume is not muted or set to a very low level.
- Confirm that the audio output settings on your source device (e.g., Blu-ray player, TV) are correctly configured to send audio to the receiver.

8.3 No Video

- Verify that the correct input source is selected on the receiver and your TV.
- Check all HDMI cable connections between the source device, receiver, and TV.
- Ensure the TV is set to the correct HDMI input for the receiver.

9. MAINTENANCE

To ensure the longevity and optimal performance of your Denon AVR-1712 receiver, follow these general maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior surfaces. Avoid using abrasive cleaners, solvents, or chemical sprays, as these can damage the finish.
- **Ventilation:** Ensure adequate ventilation around the receiver. Do not block the ventilation openings on the top, sides, or rear panels. Avoid placing the receiver in an enclosed cabinet without proper airflow.
- **Placement:** Place the receiver on a stable, level surface away from direct sunlight, heat sources, and excessive moisture. Avoid placing it near devices that generate strong electromagnetic fields.
- **Power:** Disconnect the power cord from the wall outlet if the unit will not be used for an extended period.

10. WARRANTY AND SUPPORT

The Denon AVR-1712 7.1 Channel A/V Home Theater Receiver is backed by a two-year warranty.

For further assistance, detailed operational instructions, or technical support, please visit the official Denon website or contact Denon customer service. The full owner's manual in PDF format is available on the Denon website.