

[Manuals.plus](#) /

> [Sony](#) /

> Sony STR-DH790 7.2-ch Surround Sound Home Theater AV Receiver Instruction Manual

Sony STR-DH790

Sony STR-DH790 7.2-ch Surround Sound Home Theater AV Receiver Instruction Manual

Model: STR-DH790

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Sony STR-DH790 7.2-channel Surround Sound Home Theater AV Receiver. The STR-DH790 is designed to enhance your home entertainment experience with advanced audio and video capabilities, including support for 4K HDR, Dolby Atmos, and DTS:X. Please read this manual thoroughly before using the receiver and retain it for future reference.



Image 1.1: Front view of the Sony STR-DH790 AV Receiver, showcasing its sleek black design with control knobs and display.

2. SAFETY INFORMATION

To prevent fire or electric shock, do not expose the receiver to rain or moisture. Do not open the cabinet. Refer servicing to qualified personnel only. Ensure proper ventilation and avoid placing the unit in enclosed spaces. Disconnect the power cord from the wall outlet if the unit will not be used for an extended period.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Sony STR-DH790 AV Receiver
- Remote Controller
- Calibration Microphone
- FM Antenna
- AA Batteries (2)

4. SETUP

4.1 Physical Connections

Before making any connections, ensure the receiver and all connected devices are powered off and unplugged from the wall outlet. Use high-quality cables for optimal performance.



Image 4.1: Rear panel of the Sony STR-DH790 AV Receiver, illustrating the HDMI, audio, and speaker connection terminals.

HDMI Connections:

- Connect your source devices (e.g., Blu-ray player, game console, streaming device) to the HDMI INPUT ports (HDMI 1-4).
- Connect your TV to the HDMI OUT (TV ARC) port. This port supports Audio Return Channel (ARC) for receiving audio from your TV.

Audio Connections:

- **Optical/Coaxial Digital Audio:** For devices without HDMI, use the OPTICAL or COAXIAL digital audio inputs.
- **Analog Audio:** Connect analog audio sources (e.g., CD player) to the ANALOG AUDIO INPUT ports.
- **Subwoofer:** Connect up to two powered subwoofers to the SUBWOOFER PRE OUT ports.

Speaker Connections:

Connect your speakers to the corresponding terminals on the rear panel. Ensure correct polarity (+ to + and - to -) for each speaker. The receiver supports 7.2-channel, 5.1.2-channel (Dolby Atmos/DTS:X), or 5.1-channel configurations.

- **Front Speakers:** Connect to FRONT A (L/R) terminals.
- **Center Speaker:** Connect to CENTER terminal.
- **Surround Speakers:** Connect to SURROUND (L/R) terminals.
- **Surround Back/Height Speakers:** For 7.2-channel or 5.1.2-channel setups, connect to SURROUND BACK/HEIGHT (L/R) terminals.

4.2 Initial Setup and Auto Calibration

After connecting all devices and speakers, power on the receiver and your TV. Follow the on-screen setup guide. The STR-DH790 features Digital Cinema Auto Calibration (D.C.A.C.) to automatically optimize speaker settings for your room's acoustics. Place the supplied calibration microphone at your primary listening position and follow the on-screen instructions.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

- **Power:** Press the POWER button on the front panel or remote control to turn the receiver on or off.
- **Input Selection:** Use the INPUT SELECTOR knob or buttons on the remote to choose your desired input source (e.g., HDMI 1, TV, Bluetooth).
- **Volume Control:** Adjust the MASTER VOLUME knob on the front panel or the VOLUME +/- buttons on the remote.

5.2 Audio Modes and Features

The STR-DH790 supports various audio formats and sound fields:

- **Dolby Atmos & DTS:X:** Experience multi-dimensional, object-based surround sound that places audio precisely around and above you. Ensure your content and speaker setup support these formats.
- **Pure Direct Function:** This function suppresses front panel noise to provide higher-fidelity sound from all inputs, ideal for critical listening.
- **Sound Field Programs:** Select various sound field programs (e.g., Cinema Studio, Concert Hall) to tailor the audio experience to your preference.

5.3 Video Features

The receiver supports advanced video pass-through technologies:

- **4K HDR Pass-through:** Supports 4K resolution with High Dynamic Range (HDR), including Dolby Vision, HDR10, and Hybrid Log Gamma (HLG), for enhanced color, contrast, and brightness.

5.4 Bluetooth Connectivity

Stream music wirelessly from your smartphone, tablet, or other Bluetooth-enabled devices.

- **Pairing:** Select the Bluetooth input on the receiver. On your device, search for available Bluetooth devices and select "STR-DH790".
- **Bluetooth Standby:** The receiver can be turned on from your phone via Bluetooth, allowing for quick music playback.

6. MAINTENANCE

To maintain the performance and appearance of your receiver:

- **Cleaning:** Wipe the exterior with a soft, dry cloth. Do not use abrasive pads, scouring powder, or solvents such as alcohol or benzene.
- **Ventilation:** Ensure adequate space around the unit for proper ventilation to prevent overheating.
- **Dust:** Regularly dust the unit to prevent accumulation in vents.

7. TROUBLESHOOTING

If you encounter issues with your receiver, refer to the following common solutions:

- **No Power:** Check if the power cord is securely connected and the wall outlet is functioning.
- **No Sound:** Verify speaker connections, input selection, and volume level. Ensure mute is not activated. Check audio output settings on your source device.
- **No Picture:** Confirm HDMI connections between the source, receiver, and TV. Check input selection on both the receiver and TV.
- **Bluetooth Connection Issues:** Ensure the receiver is in Bluetooth pairing mode and your device is within range. Try

unpairing and re-pairing the device.

- **Distorted Sound:** Check speaker impedance compatibility. Ensure cables are securely connected and not damaged.

For more detailed troubleshooting, please consult the full user manual or Sony support.

8. SPECIFICATIONS

Feature	Specification
Model Number	STRDH790
Product Dimensions	17 x 11.75 x 5.25 inches
Item Weight	18.85 pounds
Surround Sound Channel Configuration	7.2
Connectivity Technology	Auxiliary, Bluetooth, HDMI, USB
Total HDMI Ports	5 (4 In / 1 Out)
Audio Encoding	DTS, Dolby Atmos, DTS:X
Video Pass-through	4K HDR (Dolby Vision, HDR10, HLG)
Special Features	Digital Cinema Auto Calibration, High-Resolution Audio Compatible, Bluetooth Standby
Included Batteries	2 AA batteries

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product or visit the official Sony support website. For additional assistance, technical support, or to download the complete user manual, please visit the Sony support page for the STR-DH790 receiver.

You can also access the official User Manual (PDF) [here](#).