Yamaha Audio R-N602

Yamaha R-N602 Networked Stereo Receiver with MusicCast

Model: R-N602

Introduction

The Yamaha R-N602 is a high-fidelity networked stereo receiver designed to deliver exceptional sound quality and versatile connectivity. It supports DSD 5.6 MHz reproduction and is fully compatible with Yamaha's MusicCast multi-room audio system. This receiver offers a wide array of network functions, allowing for unlimited enjoyment of various sound sources, including high-resolution audio, content from smartphones, and streaming services.

Setup and Connections

Unpacking

Carefully remove all components from the packaging. Ensure the following items are present:

- Yamaha R-N602 Receiver
- Remote Control (with 2 AA batteries)
- FM/AM Antennas
- Power Cord
- Quick Start Guide

Connecting Speakers

The R-N602 supports two pairs of speakers (A and B). Connect your speakers to the corresponding terminals on the rear panel. Ensure correct polarity (+ to + and - to -) for optimal sound. The receiver supports speaker impedances of 4 to 16 ohms.



Image: Rear panel of the Yamaha R-N602 receiver, illustrating the various input and output connections, including speaker terminals, network port, and audio inputs.

Connecting Audio Sources

Connect your audio devices to the appropriate input jacks on the rear panel:

- **Phono Input (MM):** For connecting a turntable.
- **Digital Audio Inputs:** Use OPTICAL 1/2 or COAXIAL 1/2 for connecting devices like TVs or Blu-ray Disc players.
- **Analog Audio Inputs:** Use CD, LINE 1/2/3 for connecting CD players, cassette decks, or other analog sources.
- **USB Port (Front Panel):** For digital docking with iPod/iPhone devices and USB flash drives.
- **Subwoofer Pre-Out:** For connecting an active subwoofer.

Network Connection

The R-N602 offers multiple ways to connect to your home network:

- **Wi-Fi:** Connect wirelessly to your home network.
- **Wireless Direct:** Establish a direct wireless connection with a mobile device without a router.
- **Ethernet:** For a stable wired connection, connect an Ethernet cable to the NETWORK port.

An initial firmware update may be required upon first network connection to ensure optimal performance and access to the latest features.

Operation

Basic Controls

The front panel provides intuitive controls for common functions:



Image: Front view of the Yamaha R-N602 Networked Stereo Receiver, showcasing its display, input selector, tone controls, and volume knob.

- **Power Button:** Turns the unit on or off.
- **Volume Knob:** Adjusts the overall sound level.
- **Input Selector:** Switches between connected audio sources.
- **Tone Controls (Bass, Treble, Balance):** Adjusts the bass, treble, and left/right channel balance.
- **Loudness Control:** Provides continuously variable loudness compensation for rich sound at low volumes.
- **Pure Direct:** Bypasses tone controls and other circuits for the purest sound reproduction.

Network Features

Leverage the R-N602's extensive network capabilities:

- **MusicCast:** Integrate the receiver into a wireless multi-room audio system with other MusicCast-enabled devices.
- **Bluetooth:** Stream audio wirelessly from your smartphone, tablet, or other Bluetooth-enabled devices.
- **Wi-Fi & AirPlay:** Connect to your home network for seamless streaming from compatible devices and services.
- **Streaming Services:** Access popular music streaming platforms such as Pandora, Rhapsody, Spotify, and SiriusXM Internet Radio directly through the receiver.
- **Net Radio:** Explore a vast selection of internet radio stations from around the world.

High-Resolution Audio Playback

The R-N602 supports various high-resolution audio formats, ensuring a detailed and immersive listening experience:

- DSD 2.8 MHz / 5.6 MHz
- FLAC / WAV / AIFF 192 kHz / 24 bit
- Apple Lossless 96 kHz / 24 bit

The internal Digital-to-Analog Converter (DAC) is optimized for processing digital signals, providing superior sound quality when using optical or coaxial inputs compared to analog RCA inputs.

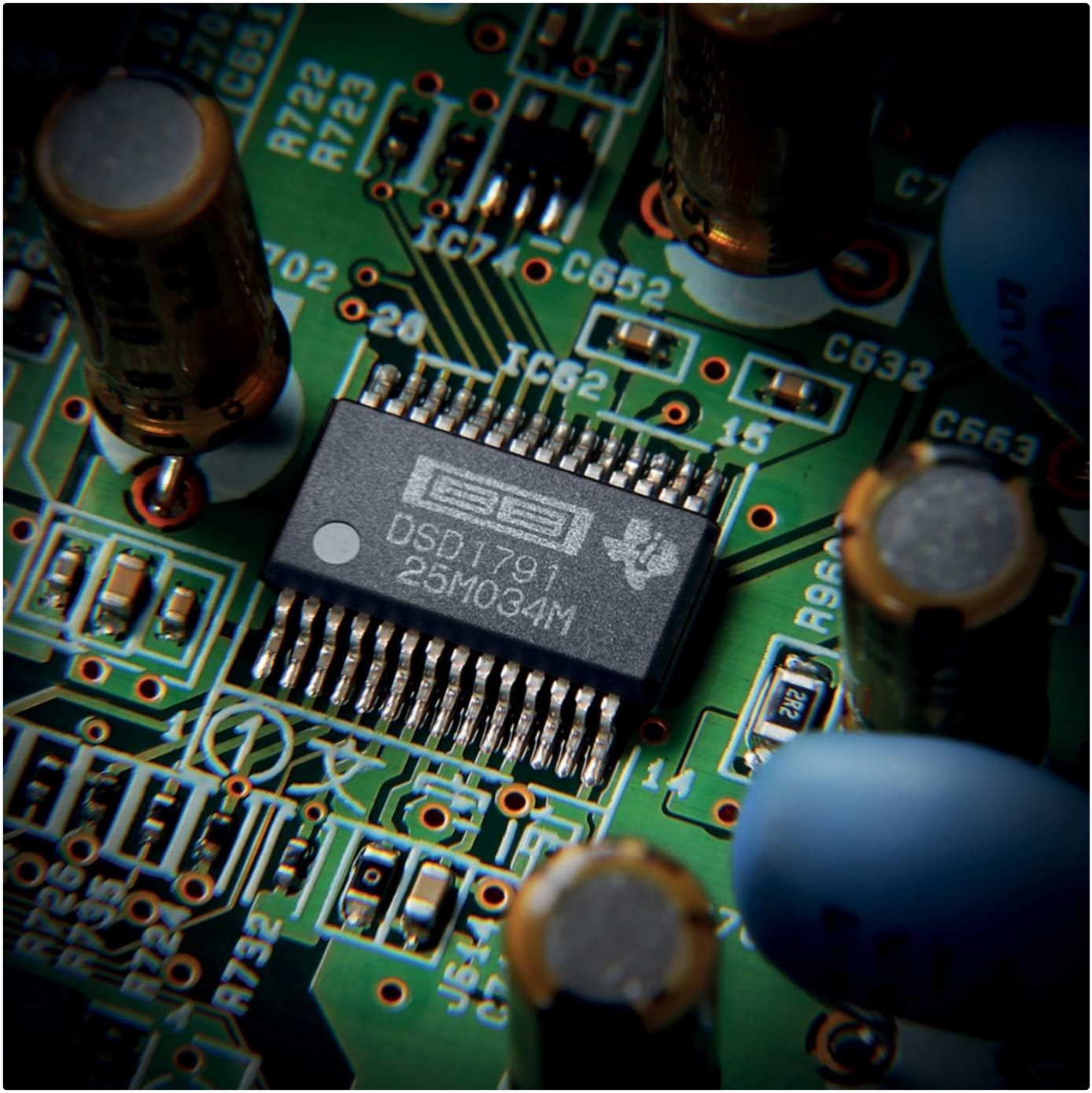


Image: A close-up view of an internal circuit board, highlighting the DSD 1791 chip, which is crucial for high-resolution audio processing within the receiver.

Maintenance

To ensure the longevity and optimal performance of your Yamaha R-N602, follow these maintenance guidelines:

- **Cleaning:** Wipe the exterior with a soft, dry cloth. Avoid using abrasive cleaners, waxes, or solvents.
- **Ventilation:** Ensure adequate ventilation around the unit. Do not block ventilation openings. Avoid placing the receiver in an enclosed space or on soft surfaces that may impede airflow.
- **Power Cord:** Regularly check the power cord for any damage. Disconnect the power cord from the wall outlet if the unit will be unused for an extended period.

Troubleshooting

If you encounter issues with your R-N602, refer to the following common troubleshooting steps:

No Power

- Ensure the power cord is securely plugged into both the receiver and a working wall outlet.
- Check if the power button on the unit or remote control has been pressed.

No Sound / Poor Sound Quality

- **Speaker Connections:** Verify that speaker wires are correctly connected to the receiver and speakers, ensuring proper polarity (+ to + and - to -).
- **Input Selection:** Confirm that the correct input source is selected on the receiver.
- **Volume Level:** Increase the volume level.
- **Pure Direct:** If Pure Direct mode is active, tone controls are bypassed. Deactivate it if you wish to use bass/treble adjustments.
- **Digital vs. Analog:** For best sound quality from digital sources (CD, Blu-ray), use the optical or coaxial digital inputs to utilize the receiver's internal DAC.

Network/Bluetooth Connectivity Issues

- **Wi-Fi Interference:** The 2.4 GHz Wi-Fi band can be susceptible to interference from other household devices (e.g., microwaves). Try moving the receiver or router, or use a wired Ethernet connection if possible.
- **Bluetooth Pairing:** Ensure the receiver is in Bluetooth pairing mode and your device's Bluetooth is enabled and discoverable. Try unpairing and re-pairing the device.
- **Firmware Updates:** Check for and install any available firmware updates, as these often resolve connectivity issues.
- **Router Restart:** Restart your home network router and the receiver.

Specifications

Feature	Specification
Model Number	R-N602
Product Dimensions	21.57 x 17.28 x 8.82 inches
Item Weight	21.6 pounds
Connectivity Technology	Bluetooth, Wi-Fi, USB
Audio Output Mode	Stereo
Surround Sound Channel Configuration	2

Feature	Specification
Compatible Devices	Television, Smartphone, Speaker
Special Features	Pandora, Equalizer, Spotify, MusicCast
Batteries Required	2 AA batteries (included for remote)
Color	Black

Warranty and Support

For detailed warranty information and technical support, please refer to the official Yamaha documentation included with your product or visit the Yamaha Audio support website. You can also find the comprehensive User Manual in PDF format for further assistance:

Download User Manual (PDF)

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question