

Yamaha Audio R-N600A

Yamaha R-N600A Network Receiver User Manual

Model: R-N600A

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Yamaha R-N600A Network Receiver. Please read these instructions thoroughly before operating the unit and retain them for future reference. The R-N600A is designed to deliver high-fidelity audio with versatile connectivity options, including network streaming, phono input, and a high-performance built-in DAC.



Figure 1.1: Front view of the Yamaha R-N600A Network Receiver with included remote control.

2. SETUP

2.1 Unpacking and Placement

Carefully remove the receiver from its packaging. Ensure all accessories, including the remote control, power cord, and antennas, are present. Place the receiver on a stable, level surface with adequate ventilation around all sides to prevent overheating. Avoid placing it near heat sources or in direct sunlight.

2.2 Speaker Connections

The R-N600A supports two sets of speakers (A and B). Connect your speakers to the corresponding terminals on the rear panel. Ensure correct polarity (positive to positive, negative to negative) for optimal sound quality. The receiver is compatible with speakers having an impedance of 8 ohms when using two speakers, or 4 ohms when using four speakers.



Figure 2.1: Rear panel connections, including speaker terminals, network port, and various audio inputs.

2.3 Audio Source Connections

- **Phono Input:** Connect a turntable to the PHONO input terminals. Ensure the ground wire from your turntable is connected to the GND terminal on the receiver to minimize hum.
- **Optical/Coaxial Inputs:** For digital audio sources like CD players, TVs, or game consoles, use the OPTICAL or COAXIAL input terminals.
- **Analog RCA Inputs:** Connect other analog audio devices (e.g., tape decks, external CD players) to the LINE input terminals.
- **USB Input:** The front panel USB port allows connection of USB storage devices for music playback.



Figure 2.2: Detail of the Phono input and ground terminal for turntable connection.

2.4 Network Connection

The R-N600A can connect to your home network via Ethernet or Wi-Fi.

- **Ethernet:** Connect an Ethernet cable from your router to the NETWORK port on the rear panel.
- **Wi-Fi:** Attach the included Wi-Fi antenna to the rear panel. Follow the on-screen instructions or use the MusicCast app for Wi-Fi setup.

2.5 Antenna Connection

Connect the supplied AM and FM antennas to their respective terminals on the rear panel for radio reception.

2.6 Power Connection

Once all other connections are made, connect the power cord to the receiver and then to an AC wall outlet.

3. OPERATING INSTRUCTIONS

3.1 Basic Operation

- **Power On/Off:** Press the power button on the front panel or the remote control to turn the unit on or off.
- **Input Selection:** Use the INPUT selector knob on the front panel or the dedicated input buttons on the remote control to choose your desired audio source.
- **Volume Control:** Adjust the VOLUME knob on the front panel or the VOLUME +/- buttons on the remote control.



Figure 3.1: Front panel controls including input selector, tone controls, and volume knob.

3.2 Tone Controls and Loudness

The R-N600A features dedicated knobs for BASS, TREBLE, BALANCE, and LOUDNESS on the front panel. Adjust these to fine-tune the sound to your preference and listening environment. The LOUDNESS control allows for clear sound at low volumes.

3.3 Pure Direct Mode

Engage the PURE DIRECT mode by pressing the button on the front panel or remote. This mode bypasses the tone control circuits, Wi-Fi, Bluetooth, and turns off the display to provide the purest possible audio signal path, ideal for critical listening.



Figure 3.2: The Pure Direct button for bypassing tone controls.



Figure 3.3: Signal path comparison for Pure Direct mode.

3.4 Network Features (MusicCast)

The R-N600A integrates with Yamaha's MusicCast system, allowing you to stream music from various sources and control the receiver via a smartphone/tablet application. Supported streaming services include Spotify, Amazon Music, Tidal, Qobuz, Pandora, SiriusXM, and Deezer. You can also access Net Radio stations.



Figure 3.4: MusicCast and supported streaming services.

3.5 Phono Playback

Connect your turntable to the PHONO input. Select the PHONO input using the input selector. Adjust the volume to your desired listening level. The built-in phono stage is designed for Moving Magnet (MM) cartridges.

3.6 USB Playback

Insert a USB storage device containing audio files into the front panel USB port. Use the receiver's controls or the MusicCast app to navigate and play music files. The R-N600A supports high-resolution audio formats, including DSD 11.2 MHz and 384 kHz playback.

3.7 Bluetooth Operation

To pair a Bluetooth device, select the BLUETOOTH input. On your mobile device, search for available Bluetooth devices and select 'Yamaha R-N600A'. Once paired, you can stream audio wirelessly from your device to the receiver.

3.8 Using the Remote Control

The included remote control provides full functionality for the R-N600A, including power, input selection, volume, tone adjustments, and navigation for network features. Ensure batteries are correctly inserted.

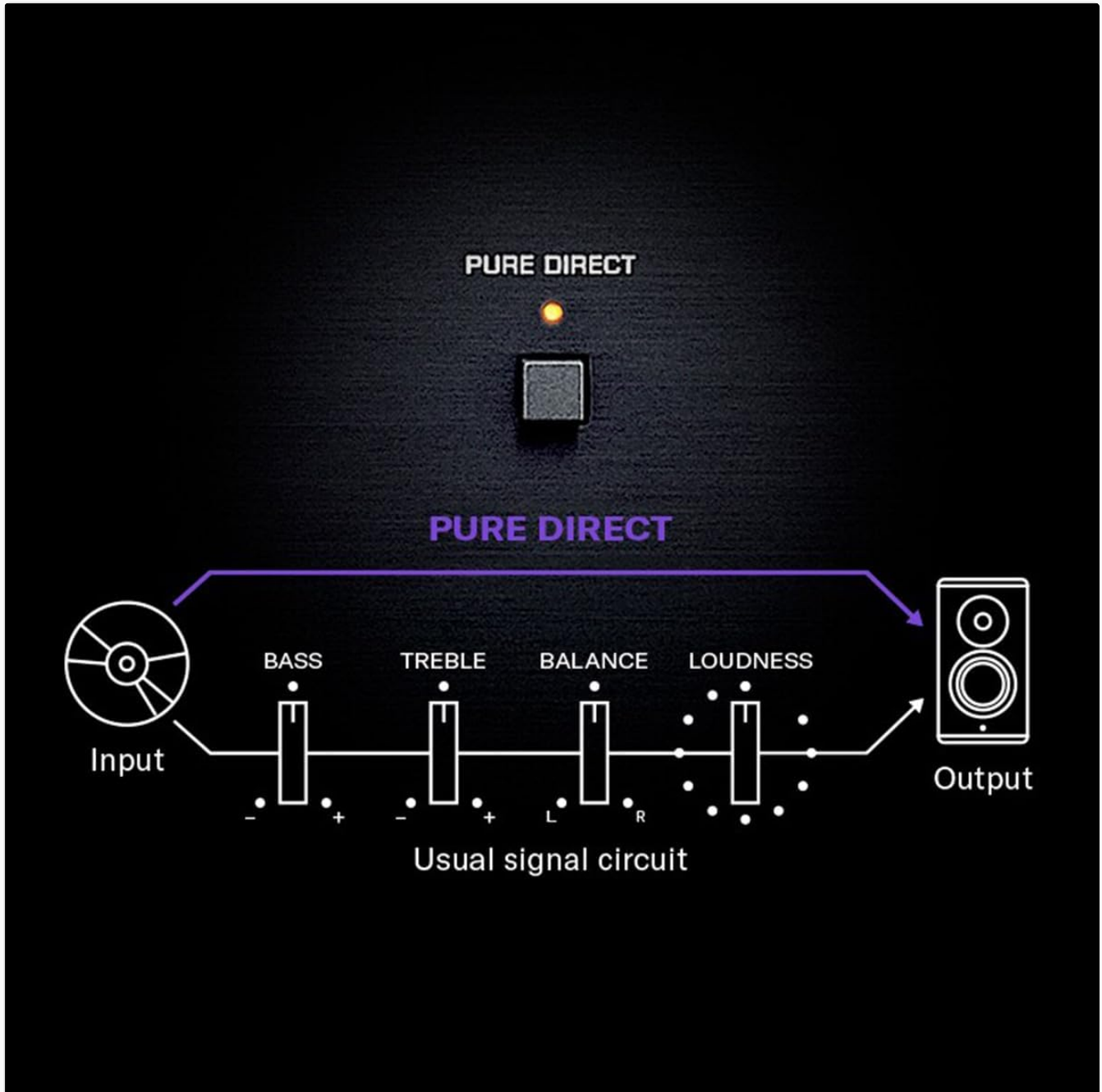


Figure 3.5: The dedicated remote control for the R-N600A.

4. MAINTENANCE

4.1 Cleaning

To clean the unit, wipe surfaces with a soft, dry cloth. For stubborn dirt, lightly dampen the cloth with water. Avoid using abrasive cleaners, solvents, or chemical wipes, as these can damage the finish. Ensure the unit is powered off

and unplugged before cleaning.

4.2 Environmental Considerations

Maintain proper ventilation around the receiver. Do not block ventilation openings. Avoid exposing the unit to extreme temperatures, humidity, or dust. If the unit will not be used for an extended period, unplug it from the power outlet.

5. TROUBLESHOOTING

5.1 No Sound

- Check that the receiver is powered on and the correct input source is selected.
- Verify speaker connections for correct polarity and secure fit.
- Ensure the volume is not set to minimum and the MUTE function is not active.
- Confirm that the audio cables from your source device are securely connected.

5.2 Network Connection Issues

- For wired connections, ensure the Ethernet cable is properly connected to both the receiver and your router.
- For Wi-Fi, check that the Wi-Fi antenna is securely attached and that the receiver is within range of your wireless router.
- Restart your router and the receiver.
- Verify network settings using the MusicCast app or the receiver's display.

5.3 Remote Control Not Working

- Check the batteries in the remote control and replace them if necessary.
- Ensure there are no obstructions between the remote control and the receiver's remote sensor.
- Point the remote control directly at the receiver.

5.4 Distorted Audio

- Check speaker connections for loose wires or incorrect polarity.
- Reduce the volume level if the distortion occurs at high volumes.
- Ensure the audio source is not sending a distorted signal.
- If using the Phono input, ensure your turntable's cartridge is correctly aligned and clean.

6. SPECIFICATIONS

Feature	Specification
Product Dimensions (D x W x H)	15.37" x 17.12" x 6"
Item Weight	26.5 pounds
Connectivity Technology	Bluetooth, Ethernet, Wi-Fi
Compatible Devices	Speakers, Smartphones, Tablets, Personal Computers, Turntables
Connector Type	RCA, 3.5mm Jack

Audio Output Mode	Surround
Surround Sound Channel Configuration	5.1 channel
Special Features	Equalizer, Spotify, MusicCast, Pure Direct, ESS SABRE ES9010K2M DAC
Model Number	R-N600A
Manufacturer	Yamaha



Figure 6.1: The ESS SABRE ES9010K2M DAC chip, providing superior signal-to-noise performance.



Figure 6.2: ToP-ART (Total Purity Audio Reproduction Technology) ensures optimal audio quality.

7. WARRANTY AND SUPPORT

Your Yamaha R-N600A Network Receiver is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Yamaha Audio website. For technical support, service, or further inquiries, please contact Yamaha customer support through their official channels.


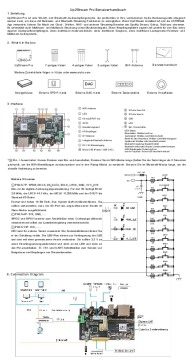
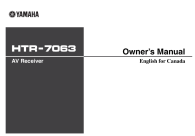

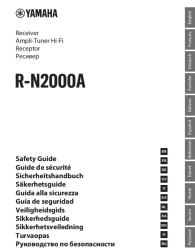
What's in the Box:

- Remote Controller
- Owner's Manual (this document)
- AM/FM Antennas

- Power Cord

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Related Documents - R-N600A

	<p>T+A R 2500 R User Manual: Comprehensive Guide to Features and Operation</p> <p>Detailed user manual for the T+A R 2500 R Multi-Source-Receiver, covering installation, controls, functions, connectivity, streaming services, and troubleshooting.</p>
	<p>Arylic Up2Stream Pro User Manual</p> <p>Comprehensive user manual for the Arylic Up2Stream Pro, a versatile WiFi and Bluetooth audio receiver card. Learn how to integrate it into your existing audio system for network streaming, multiroom audio, and enhanced playback capabilities. Includes setup instructions, interface details, specifications, and troubleshooting.</p>
	<p>Yamaha HTR-7063 AV Receiver Owner's Manual</p> <p>Comprehensive owner's manual for the Yamaha HTR-7063 AV Receiver, detailing setup, connections, playback features, and operational guidance for optimal home theater experience.</p>
	<p>NAD M66 Preamplificatore DAC Streaming - Manuale delle Istruzioni</p> <p>Manuale completo delle istruzioni per il NAD M66 Preamplificatore DAC Streaming, che copre installazione, funzionamento, sicurezza e specifiche tecniche.</p>
	<p>Yamaha R-N2000A Safety Guide: Essential Precautions for Your Hi-Fi Receiver</p> <p>Learn about the essential safety precautions and handling guidelines for the Yamaha R-N2000A network Hi-Fi receiver. Ensure safe and proper operation of your audio equipment.</p>



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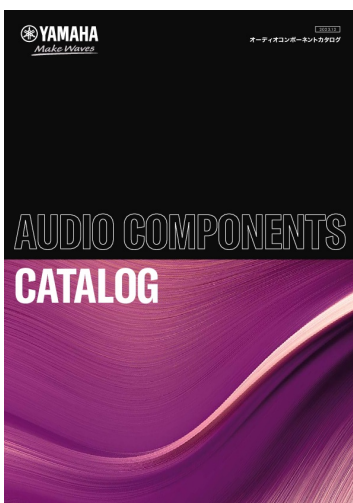
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