Russound MCA-66

Russound MCA-66 6-Zone 6-Source Controller Amplifier User Manual

Model: MCA-66 | Brand: Russound

1. INTRODUCTION

The Russound MCA-66 Digital Multi-Zone Controller Amplifier is designed to provide distributed audio across up to six zones, with scalability to 36 zones for larger installations. This unit offers a variety of input options to connect up to 6 audio sources, making it suitable for residential and light commercial distributed audio systems.

Key features include multiple analog and digital audio inputs, Bluetooth extender connectivity for enhanced audio quality via aptX codec, and RNET link for metadata transmission and integration with other Russound RNET Smart Sources.

2. IMPORTANT SAFETY INFORMATION

Please read and understand all instructions before operating this device. Retain this manual for future reference. Observe all warnings on the product and in the operating instructions.

- **Power Source:** Connect the unit only to a power supply of the type described in the operating instructions or as marked on the appliance.
- **Ventilation:** Ensure proper ventilation. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **Water and Moisture:** Do not use this apparatus near water or moisture.
- **Cleaning:** Clean only with a dry cloth.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- Russound MCA-66 Digital Multi-Zone Controller Amplifier
- Power Cord
- User Manual (this document)
- Rack Mount Ears (if applicable)
- Other accessories as specified by Russound

4. PRODUCT OVERVIEW

4.1 Front Panel

The front panel of the MCA-66 features status indicators for each zone and source, along with a power button. The sleek design is intended for easy integration into any audio setup.

4.2 Rear Panel

The rear panel provides all necessary connections for audio sources, speaker outputs, and control interfaces. It includes:

- **Audio Source Connections:** Up to 6 Line-Level Stereo Inputs (RCA), 3 Digital Coaxial Inputs, 1 Optical Input, 1 Paging Input.
- **Speaker Outputs:** Connections for up to 6 zones of distributed audio.
- **Line Outputs:** Fixed/Variable Line Out for Zones 1 and 2.
- **Control Interfaces:** RS232 port, Ethernet port, RNET Link, 12V Trigger.
- **Bluetooth Extender Connection:** Dedicated port for the optional Russound BTC-1X Bluetooth receiver.
- **Power Input:** AC power connection.

5. SETUP

5.1 Physical Placement

Place the MCA-66 in a well-ventilated area, ideally in an equipment rack. Ensure adequate space around the unit for airflow to prevent overheating. Avoid placing it near heat sources or in direct sunlight.

5.2 Connecting Audio Sources

1. **Analog Sources:** Connect your analog audio devices (e.g., CD player, tuner) to the RCA Line-Level Stereo Inputs (1-6) on the rear panel.
2. **Digital Sources:** Connect digital audio devices (e.g., TV, media player) to the Digital Coaxial (up to 3) or Optical (1) inputs.

3. **Bluetooth:** For wireless streaming, connect the optional Russound BTC-1X Bluetooth receiver to the dedicated Bluetooth extender connection.

5.3 Connecting Speakers

Connect your passive speakers to the corresponding speaker outputs for each zone (1-6). Ensure correct polarity (positive to positive, negative to negative) for optimal audio performance. The MCA-66 provides 60 Watts of output power per channel.

5.4 Network and Control Connections

- **Ethernet:** Connect an Ethernet cable from the MCA-66 to your network router for IP control and firmware updates.
- **RS232:** For integration with third-party control systems, connect a serial cable to the RS232 port.
- **RNET Link:** Use the RNET link to connect multiple MCA controllers or Russound RNET Smart Sources for metadata transmission and system expansion.

6. OPERATING THE MCA-66

6.1 Powering On/Off

Press the power button on the front panel to turn the unit on or off. The status indicators will illuminate when the unit is powered on.

6.2 Zone Control

The MCA-66 allows independent control of audio in each of its six zones. This can be achieved through connected keypads (e.g., MDKC6 C-Series), a compatible control app, or integrated control systems via RS232/IP.

- **Source Selection:** Select any of the connected audio sources for playback in a specific zone.
- **Volume Adjustment:** Adjust the volume level independently for each zone.
- **Fixed/Variable Line Out:** Zones 1 and 2 offer fixed or variable line-level outputs for connecting to external amplifiers or devices.

6.3 Bluetooth Streaming

If the optional BTC-1X Bluetooth receiver is connected, you can stream audio wirelessly from your Bluetooth-enabled devices (smartphones, tablets, etc.) to any zone. The aptX audio codec ensures high-quality sound transmission.

6.4 RNET Integration

The RNET link enables advanced control and metadata display when integrated with Russound RNET Smart Sources, such as the ST1 AM/FM external tuner. This allows for a unified control experience across multiple Russound devices.

7. MAINTENANCE

- **Cleaning:** Regularly wipe the unit with a soft, dry cloth. Do not use liquid cleaners or aerosol cleaners.
- **Ventilation:** Ensure that ventilation openings remain clear and free from dust or obstructions.
- **Cable Connections:** Periodically check all cable connections to ensure they are secure.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution

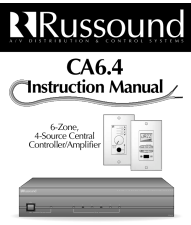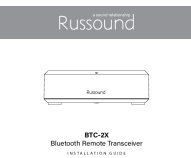| Problem	Possible Cause	Solution
No power	Power cord disconnected; Power switch off	Check power cord connection; Ensure power switch is ON
No audio in a zone	Incorrect source selected; Volume too low; Speaker wires disconnected	Verify source selection; Increase volume; Check speaker connections
Distorted audio	Source volume too high; Speaker impedance mismatch	Reduce source volume; Ensure speakers are compatible with amplifier impedance
Bluetooth not connecting	BTC-1X not connected; Device not in pairing mode	Ensure BTC-1X is properly connected; Put Bluetooth device into pairing mode

9. SPECIFICATIONS

- **Brand:** Russound
- **Model:** MCA-66
- **Number of Channels:** 6
- **Output Power:** 60 Watts per channel
- **Voltage:** 12 Volts
- **Mounting Type:** Surface Mount
- **Material:** Metal
- **Package Dimensions:** 20.5 x 16.75 x 8 inches
- **Item Weight:** 20 pounds
- **Specification Met:** FCC
- **Item Model Number:** 1550-536342
- **UPC:** 612934536342
- **Date First Available:** July 29, 2016

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Russound website or contact your authorized Russound dealer. Keep your proof of purchase for any warranty claims.

Related Documents - MCA-66

Russound CAV6.6 Six-Zone Audio-Video Controller Amplifier Instruction Manual

Explore the Russound CAV6.6, a six-zone, six-source audio-video controller amplifier designed to enhance home entertainment systems. This manual provides detailed instructions for installation, operation, and programming.

Russound CA6.4 Instruction Manual: 6-Zone, 4-Source Central Controller/Amplifier

Instruction manual for the Russound CA6.4, a 6-zone, 4-source central controller/amplifier. Covers safety instructions, system configurations, installation, operation, and technical specifications.

Russound BSK-2 Bluetooth Source Kit Installation Guide

Comprehensive guide to installing and using the Russound BSK-2 Bluetooth Source Kit, featuring Bluetooth 5.1, extended range up to 500 feet, and seamless integration with Russound MCA-Series controllers and other audio systems.

Russound SMZ8 8 Source/8 Zone Controller Amplifier with Built-in Streamer Product Guide

Discover the Russound SMZ8, a powerful multi-zone controller amplifier with a built-in streamer, Hi-Res Audio, HDMI ARC, integrated DSP, and expandable zone capabilities. Learn about its features, connectivity, and benefits for whole-home audio systems.

Russound BTC-2X Bluetooth Remote Transceiver Installation Guide

Installation guide for the Russound BTC-2X Bluetooth Remote Transceiver, detailing setup for standalone use and integration with Russound MCA-Series controllers. Includes features, operation, specifications, and warranty information.

Russound IPK-1 Single-Gang IP Keypad Product Manual

Comprehensive product manual for the Russound IPK-1 Single-Gang IP Keypad. Learn about its features, installation, operation, and troubleshooting for seamless control of your Russound audio system.