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Dayton Audio Matrix88

Dayton Audio Matrix88 App Controlled Matrix Audio Switcher User Manual

Model: Matrix88

1. INTRODUCTION

The Dayton Audio Matrix88 is an advanced 8-source, 8-zone matrix audio switcher designed to provide flexible audio distribution and control throughout your home or commercial space. This device allows you to assign any audio input to any output zone, adjust volume, bass, and treble, and manage power, all through an intuitive mobile application. It integrates seamlessly with existing audio amplification systems and offers various connectivity options including analog, digital, 12V triggers, and RS232 for comprehensive control.

2. IMPORTANT SAFETY INSTRUCTIONS

Please read and follow all safety instructions before operating the Dayton Audio Matrix88. Retain this manual for future reference.

- **Power Source:** Connect the unit only to the specified power supply as indicated in this manual and on the product label.
- **Ventilation:** Ensure adequate ventilation. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **Water and Moisture:** Do not expose this apparatus to rain or moisture. Do not use near water or in wet locations.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Cleaning:** Clean only with a dry cloth.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Cables:** Protect power cords from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

3. PRODUCT OVERVIEW

3.1 Front Panel

The front panel of the Matrix88 provides essential indicators and controls for quick status checks and basic power management.

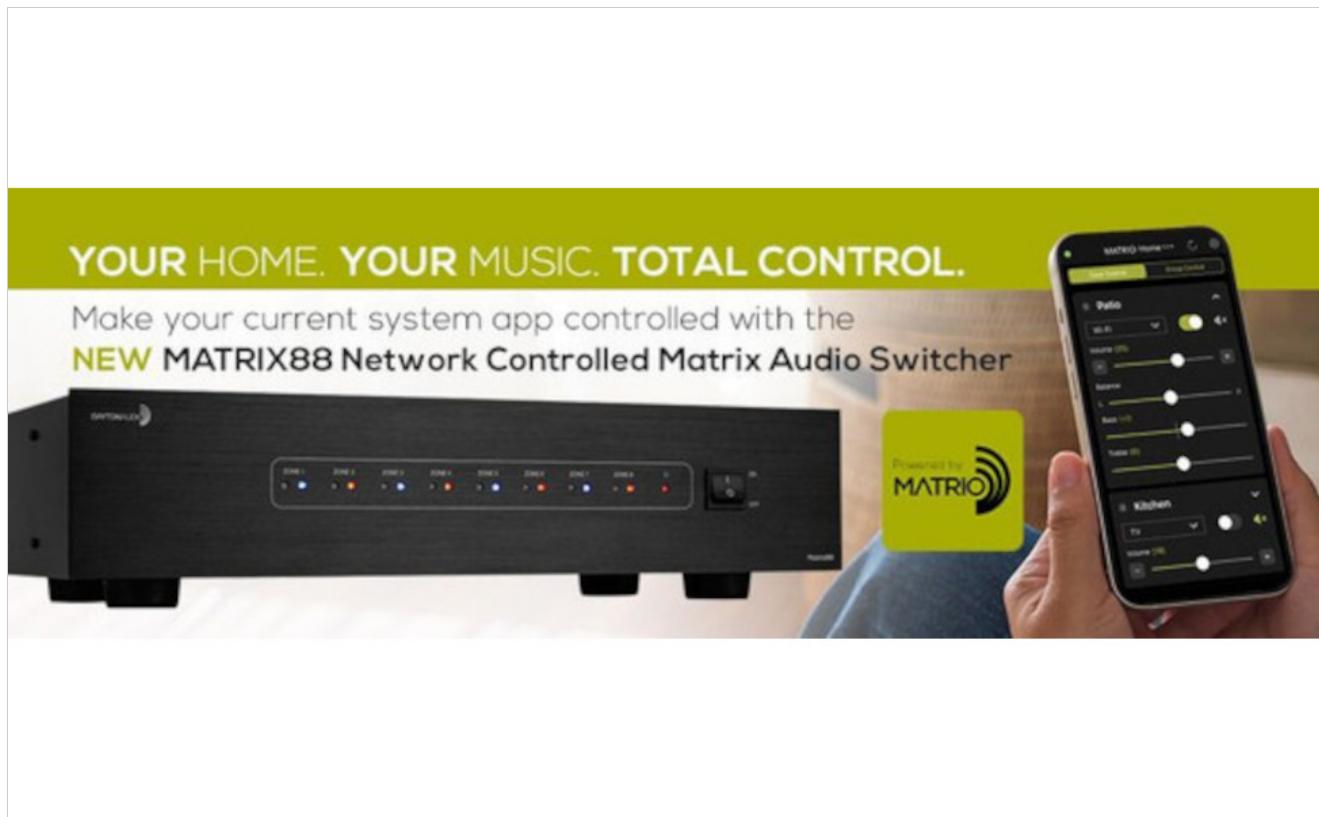


Figure 1: Front View of Dayton Audio Matrix88

- **Zone Signal LED Indicators:** These LEDs illuminate to indicate active audio signals in each of the 8 zones.
- **Power LED Indicator:** Shows the power status of the unit.
- **Power On/Off Switch:** Controls the main power to the Matrix88.

3.2 Rear Panel

The rear panel houses all input and output connections, along with control ports for integration into various audio systems.



Figure 2: Rear View of Dayton Audio Matrix88

- **AC Input:** Power connection for the unit.
- **Zone Preamp Outputs 1-8:** RCA outputs for connecting to external amplifiers for each zone.
- **Stereo RCA Inputs:** Analog audio inputs for various sources.
- **Stereo 3.5mm Inputs:** Auxiliary analog audio inputs.
- **Optical Toslink Inputs:** Digital audio inputs.
- **Wi-Fi Antenna:** For wireless network connectivity.
- **Keypad Connections:** Ports for optional in-wall keypads.
- **12VDC Trigger Inputs:** For external control via 12V trigger signals.
- **12VDC Trigger Outputs:** To trigger other devices based on Matrix88 status.
- **RS232 Serial Port:** For integration with third-party control systems.
- **USB Power Outputs:** For powering small external devices.
- **Network LAN Port:** For wired network connection.

4. SETUP GUIDE

4.1 Unpacking and Placement

Carefully remove the Matrix88 from its packaging. Place the unit on a stable, flat surface or mount it in an equipment rack. Ensure there is sufficient space around the unit for proper ventilation.

4.2 Connecting Audio Sources

The Matrix88 supports a variety of audio input types:

- **Analog RCA:** Connect your audio sources (e.g., CD player, streamer, TV audio out) to the Stereo RCA Inputs on the rear panel using appropriate RCA cables.
- **Analog 3.5mm:** Use the Stereo 3.5mm Inputs for devices with a 3.5mm audio output.

- **Digital Optical (Toslink):** Connect digital audio sources (e.g., TV, game console) to the Optical Toslink Inputs.

4.3 Connecting Amplifiers and Speakers

The Matrix88 provides pre-amplified outputs for each zone. These outputs must be connected to external power amplifiers, which then drive your speakers.

- Connect the **Zone Preamp Outputs 1-8** (RCA) to the corresponding input of your external power amplifiers for each zone.
- Ensure your amplifiers are correctly connected to your speakers in each zone.

4.4 Network Connection

Network connectivity is essential for app control.

- **Wired Connection:** Connect an Ethernet cable from your network router or switch to the **Network LAN Port** on the rear panel.
- **Wireless Connection:** Attach the provided Wi-Fi antenna to the **Wi-Fi Antenna** connector on the rear panel. The unit will automatically attempt to connect to an available Wi-Fi network. Configuration may be required via the Matrio app.

4.5 12V Trigger Connections (Optional)

The 12V trigger ports allow for automated control of other devices or to be controlled by external systems.

- **12VDC Trigger Inputs:** Connect a 12V trigger source to these inputs to control specific functions of the Matrix88.
- **12VDC Trigger Outputs:** Connect these outputs to devices that can be triggered by a 12V signal (e.g., power amplifiers) to turn them on/off in sync with the Matrix88 zones.

4.6 RS232 Control (Optional)

For advanced integration with home automation systems, use the RS232 serial port.

- Connect an RS232 cable from your control system to the **RS232 Serial Port**. Refer to the detailed RS232 protocol documentation for specific commands.

4.7 Powering On

Once all connections are made, connect the AC power cord to the **AC Input** and then to a wall outlet. Flip the **Power On/Off Switch** on the front panel to the 'On' position. The Power LED Indicator will illuminate.

5. OPERATING INSTRUCTIONS

5.1 Matrio App Installation and Pairing

The primary control interface for the Matrix88 is the Matrio mobile application.

1. Download the Matrio app from your device's app store (iOS or Android).
2. Ensure your mobile device is connected to the same network as the Matrix88.
3. Open the Matrio app. It will automatically search for and discover the Matrix88 on your network.
4. Follow the on-screen prompts to pair your device with the Matrix88. You may need to name your zones and inputs during the initial setup.



Figure 3: Matrio App Interface for Zone and Source Control

5.2 Zone Control

The Matrio app provides comprehensive control over each audio zone.

- **Assigning Inputs:** Select any available audio input source to play in any desired zone.
- **Volume Adjustment:** Independently control the volume level for each zone.
- **Tone Control:** Adjust bass and treble settings for individual zones to optimize sound quality.
- **Power On/Off:** Turn zones on or off as needed.
- **Mute:** Temporarily mute audio in a specific zone.

5.3 Group Control

The app allows for grouping multiple zones to play the same source at synchronized volumes.

- Select the 'Group Control' option within the app.
- Choose the zones you wish to group together.
- Select a common input source and adjust the master volume for the group.

Your browser does not support the video tag. This video demonstrates the app control features of the Dayton Audio Matrix88, including group control and individual zone adjustments.

Video 1: Demonstrating App Control for Dayton Audio Matrix88

6. MAINTENANCE

6.1 Cleaning

To maintain the appearance and functionality of your Matrix88, periodically wipe the exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.

6.2 Firmware Updates

Dayton Audio may release firmware updates to improve performance or add new features. Check the Matrio app or the Dayton Audio website for information on available updates and instructions on how to apply them.

7. TROUBLESHOOTING

If you encounter issues with your Matrix88, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power to the unit.	Power cord disconnected; Power switch off; Faulty outlet.	Check power cord connection; Ensure power switch is ON; Test outlet with another device.
No sound in a zone.	Incorrect input selected; Zone volume too low; Amplifier off/disconnected; Speaker wiring issue.	Verify input selection in app; Increase zone volume; Check amplifier power and connections; Inspect speaker wiring.
App cannot find the Matrix88.	Network connection issue; Device not powered on; App/firmware outdated.	Ensure Matrix88 is powered on and connected to the network (wired or Wi-Fi); Restart app and Matrix88; Check for app/firmware updates.
Distorted audio.	Input signal too high; Volume too high; Faulty cables.	Reduce input source volume; Lower zone volume; Replace audio cables.

If the problem persists after trying these solutions, please contact Dayton Audio customer support.

8. SPECIFICATIONS

- **Product Dimensions:** 21.5 x 13.75 x 8.75 inches
- **Item Weight:** 14 pounds
- **Model Number:** Matrix88
- **Brand:** Dayton Audio
- **Color:** Black
- **Connector Types:** 3.5mm Jack, RCA, Optical Toslink, RS232, LAN
- **Compatible Devices:** DVD Player, Projector, Monitor, Television, Gaming Console, Blu-ray Player, Satellite Receiver, DVR, various audio sources and amplifiers.
- **Cable Types:** RCA, 3.5mm Jack, Optical, Ethernet, RS232
- **First Available:** September 5, 2023

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Dayton Audio website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

Dayton Audio Website: www.daytonaudio.com

