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VONYX 172.574

VONYX AM8A 8-Channel Mixer Amplifier User Manual

Model: AM8A (172.574)

INTRODUCTION

Thank you for purchasing the VONYX AM8A 8-Channel Mixer Amplifier. This integrated mixer and amplifier unit is designed for professional sound reinforcement applications, offering 8 input channels, a powerful 1000W amplifier, Bluetooth connectivity, MP3/USB/SD playback, and 16 digital effects. Please read this manual thoroughly to understand the product's features and ensure safe and optimal operation.

SAFETY INSTRUCTIONS

- **Power Supply:** Connect the unit only to a grounded mains outlet with the specified voltage (230Vac/50Hz). Ensure the power cord is not damaged or pinched.
- **Moisture:** Do not expose the unit to rain, moisture, dripping, or splashing liquids. Do not place objects filled with liquids on the unit.
- **Ventilation:** Ensure adequate ventilation. Do not block ventilation openings. Avoid placing the unit on soft surfaces that may obstruct airflow.
- **Heat:** Keep the unit away from heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- **Servicing:** Do not attempt to service the unit yourself. Refer all servicing to qualified service personnel.
- **Cleaning:** Disconnect the unit from the power supply before cleaning. Use a dry cloth for cleaning.
- **Placement:** Place the unit on a stable, flat surface to prevent it from falling.

PRODUCT OVERVIEW

The VONYX AM8A combines an 8-channel mixer with a powerful amplifier, offering versatile audio control and output capabilities. Key features include:

- Integrated 2x 500W (4 Ohm) / 2x 300W (8 Ohm) power amplifier.
- Built-in MP3 player with USB and SD card slots.
- Bluetooth receiver for wireless audio streaming.
- +48V Phantom power for condenser microphones.

- 5-band graphic equalizer for main output.
- DSP with 16 digital effects.
- PFL (Pre-Fader Listen) function per channel.
- Multiple input options: XLR microphone, 6.3mm jack line, RCA line.
- Tone control (Hi/Low) per channel.
- Speaker outputs (6.3mm jack) and XLR line outputs.



Figure 1: Front view of the VONYX AM8A 8-Channel Mixer Amplifier, showing all input channels, controls, and the master section.



Figure 2: Close-up of the VONYX AM8A's graphic equalizer and master controls, including the DSP effects section.



Figure 3: Detail of the integrated MP3 player with USB and SD card slots, and Bluetooth functionality on the VONYX AM8A.

SETUP

1. Unpacking

Carefully remove the mixer amplifier from its packaging. Inspect the unit for any signs of damage during transit. Retain the original packaging for future transport or storage.

2. Power Connection

1. Ensure the power switch on the rear panel is in the OFF position.
2. Connect the supplied power cable to the AC IN socket on the rear panel of the mixer amplifier.
3. Plug the other end of the power cable into a suitable grounded 230Vac/50Hz mains outlet.

3. Input Connections

The AM8A features 8 input channels, each with XLR microphone inputs and 6.3mm jack line inputs. Additional RCA inputs are available for stereo sources.

- **Microphones:** Connect microphones to the XLR inputs (CH1-CH8). If using condenser microphones, activate the +48V Phantom Power switch (located near the master section) after all microphones are connected and before powering on.
- **Line-Level Devices:** Connect instruments, keyboards, or other line-level devices to the 6.3mm jack inputs (CH1-CH8). For stereo sources, use the RCA inputs.

4. Output Connections

Connect your passive speakers and monitoring devices to the appropriate outputs.

- **Speakers:** Connect passive speakers to the 6.3mm jack SPEAKER OUTPUTS (LEFT and RIGHT) on the rear panel. Ensure the impedance of your speakers matches the amplifier's specifications (4-8 Ohm).
- **External Amplifiers/Recording Devices:** Use the XLR MAIN OUTPUTS (LEFT and RIGHT) to connect to external power amplifiers or recording equipment.
- **Headphones:** Plug headphones into the 6.3mm jack HEADPHONES output on the front panel for monitoring.



Figure 4: Rear panel of the VONYX AM8A, showing power input, main outputs, and speaker outputs.

OPERATING INSTRUCTIONS

1. Powering On/Off

1. Before powering on, ensure all channel faders and the main fader are set to their minimum positions.
2. Flip the POWER switch on the rear panel to the ON position.
3. To power off, reverse the process: lower all faders, then switch off the unit.

2. Channel Controls (CH1-CH8)

- **GAIN:** Adjusts the input sensitivity for each channel. Set this to achieve a strong signal without clipping (distortion).
- **HI/LOW EQ:** Two-band equalizer for adjusting the high and low frequencies of each channel.
- **EFF:** Controls the amount of signal sent to the internal DSP effects processor.
- **PAN:** Adjusts the stereo position (left to right) of the channel's signal.
- **PFL:** (Pre-Fader Listen) Activates monitoring of the channel's signal through headphones, independent of the channel fader.
- **CHANNEL FADER:** Controls the output level of each individual channel to the main mix.

3. Master Controls

- **MAIN FADER (L+R):** Controls the overall output volume of the mixer amplifier.
- **PHONES:** Adjusts the volume of the headphone output.
- **GRAPHIC EQUALIZER:** A 5-band equalizer (70Hz, 250Hz, 1KHz, 4KHz, 12KHz) to fine-tune the overall frequency response of the main mix.
- **DSP EFFECTS:** Select from 16 digital effects using the 'UP' and 'DOWN' buttons. Adjust the 'EFF LEVEL' knob to control the wet/dry mix of the effects.
- **+48V PHANTOM:** Activates phantom power for condenser microphones connected to the XLR inputs.

4. MP3/USB/SD Player & Bluetooth

The integrated media player supports USB drives and SD cards for MP3 playback, and also features Bluetooth connectivity.

- **USB/SD Playback:** Insert a USB drive or SD card into the respective slot. The unit will automatically detect and begin playing compatible audio files. Use the transport controls (Play/Pause, Skip) to navigate.
- **Bluetooth Pairing:** Activate Bluetooth on your mobile device. Select 'VONYX AM8A' from the list of available devices. Once paired, you can stream audio wirelessly to the mixer amplifier.

- **Mode Selection:** Use the 'MODE' button to switch between USB, SD, and Bluetooth input sources.

MAINTENANCE

- **Cleaning:** Regularly clean the unit with a soft, dry, lint-free cloth. Do not use abrasive cleaners, solvents, or chemical sprays.
- **Ventilation:** Ensure the ventilation grilles are free from dust and debris to maintain proper cooling.
- **Storage:** When not in use for extended periods, store the unit in a cool, dry place, preferably in its original packaging, away from direct sunlight and extreme temperatures.
- **Cable Management:** Keep cables organized and free from kinks or excessive bending to prevent damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cable disconnected; Power switch off; Blown fuse	Check power cable connection; Ensure power switch is ON; Replace fuse if necessary (refer to qualified technician).
No sound output	Main fader down; Channel fader down; Speaker cables disconnected/faulty; Incorrect input selection; Amplifier protection mode	Raise main and channel faders; Check speaker connections; Verify input source; Power cycle the unit.
Distorted sound	Input gain too high; Output level too high; Faulty cable/speaker	Reduce input GAIN; Lower main fader; Check all cables and speakers.
Microphone not working	Microphone not connected; Phantom power off (for condenser mics); Channel fader down; Faulty microphone/cable	Check microphone connection; Activate +48V Phantom Power; Raise channel fader; Test with another microphone/cable.
Bluetooth not connecting	Bluetooth not enabled on device; Unit not in Bluetooth mode; Device too far	Ensure Bluetooth is active on your device; Press MODE button to select Bluetooth; Move device closer to the mixer.

SPECIFICATIONS

Feature	Specification
Model Number	172.574
Power Output (4 Ohm)	2x 500W
Power Output (8 Ohm)	2x 300W
Frequency Range	20 Hz - 20 KHz
THD (Total Harmonic Distortion)	<0.1%
EQ Hi	± 15 dB / 12 kHz

Feature	Specification
EQ Lo	± 15 dB / 70 Hz
Line Input Sensitivity	+5dB ~ -40dB
Mic Input Sensitivity	-15dB ~ -60dB
Output Level	+12 dB (3 V)
Headphone Output	300mW @ 32 Ohm
Connection Voltage	230Vac / 50Hz
Dimensions (L x W x H)	320 x 300 x 140 mm
Weight	12 kg
Number of Channels	8
Connectivity Technology	USB, Bluetooth
Input Audio	XLR, RCA, 6.35mm Jack, USB
Output Connector Type	XLR, 6.35mm TRS

WARRANTY AND SUPPORT

VONYX products are designed for reliability and performance. For warranty information, please refer to the terms and conditions provided at the point of purchase or contact your local VONYX dealer. For technical support or service inquiries, please visit the official VONYX website or contact their customer service department.