

8×8 Audio Matrix Processor with DSP and ARC

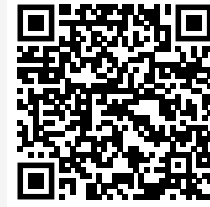
BAMX88-ARC Quick Start Guide



⚠ Safety Instructions

For optimum performance and safety, please read these instructions carefully before use and keep this guide for future reference. Please have the part number, serial number, and invoice available when requesting support.

- To prevent an electrical shock, please ensure all devices are properly grounded.
- Place the device in a well-ventilated area and do not block any ventilation openings.
- Do not expose or place device near water - liquid may cause a failure, fire, or electrical shock.
- Do not place the device on an uneven or unstable surface - a fall may result in a malfunction.
- Never insert anything metallic into the device - this may cause an electrical shock.
- If a third-party power supply is used, please ensure it meets the requirements of this device.



Additional Resources

Visit the product page at www.vanco1.com for the latest version of this document and other resources.

Description

The BAMX88-ARC 8×8 audio matrix processor is a high-performance DSP-enabled solution designed for dynamic audio environments, featuring 4 microphone/line inputs and outputs for flexible signal routing. It also includes 2 digital optical audio and HDMI ARC (Audio Return Channel) inputs and outputs, enabling seamless integration with modern AV systems and displays. Built-in adaptive echo cancellation and adaptive noise suppression ensure crystal-clear voice reproduction, making it ideal for conferencing, education, and commercial installations. Each channel is equipped with an 8-band graphic equalizer, allowing detailed sound shaping for optimal audio performance. With its robust feature set and versatile connectivity, this processor delivers exceptional audio control and integration in any professional setting.

Key features:

- 8×8 audio matrix processor with DSP and ARC
- 4 mic/line balanced or unbalanced audio inputs and outputs
- 2 Audio Return Channel (ARC) digital inputs and outputs
- 2 optical digital audio inputs and outputs
- 8-band graphic EQ
- Mic Phantom Power options with 48V capabilities
- Volume, bass, treble, and mute controls
- Adaptive Echo Cancellation (AEC)
- Adaptive Noise Suppression (ANS)
- High-pass Filter (HPF) and Low-pass Filter (LPF)
- Limit and auto mixer EQ functionality
- IR, RS232, and IP control with browser-based UI
- General Purpose Inputs and Outputs (GPIO)

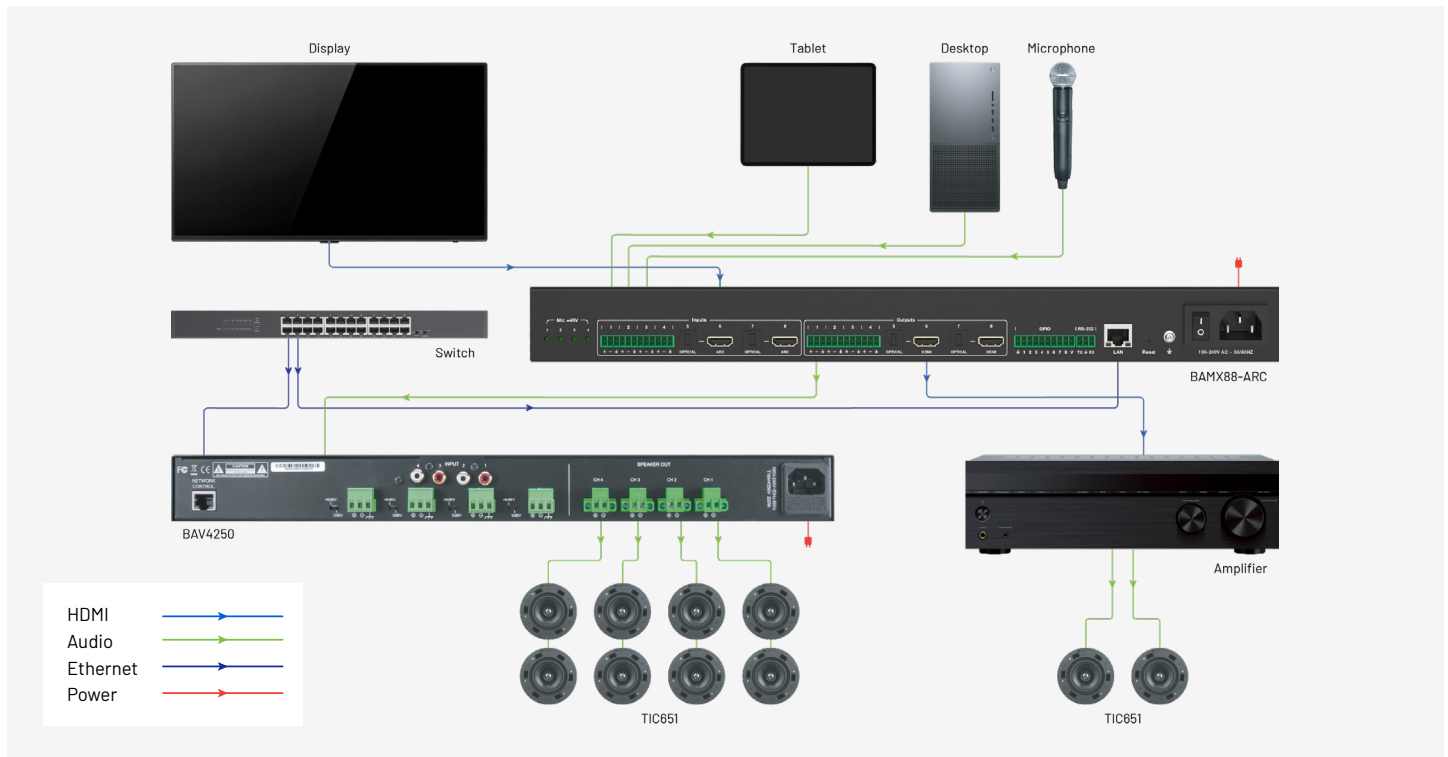


Box contents:

- (1) BAMX88-ARC audio matrix processor
- (1) Remote control
- (2) Mounting ears with screws
- (2) 12-pin 3.5mm Phoenix connectors (male)
- (1) 10-pin Phoenix connectors (male)
- (1) 3-pin male Phoenix connectors (male)
- (4) AC power cord (US/UK/EU/AU, 1.5m)
- (1) Quick start guide

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Connection Diagram

1. Connect your line level unbalanced and unbalanced source(s), microphone(s), or digital audio inputs into the provided phoenix connectors and ports under Inputs.

Note: If digital audio source content is mono, the digital audio input is independent

If digital audio source content is 2CH, an additional channel needs to be used and will NOT be able to be connected to another source for use. Inputs 5+6 will be used for an input and Inputs 7+8 will be used for another input.

For example: 2CH Stereo ARC input connected to Input 6 would mean Input 5 cannot be used.

Mono ARC input connected to Input 6 would mean SPDIF Input 5 can be used.

2. Connect your outputs using the provided Phoenix connectors and digital audio outputs to your system amplifier(s). Follow the connection instructions of your amplifier for setup

Note: If digital audio content is mono, the digital audio output is independent

Note: If digital audio source content is 2CH, an additional channel needs to be used and will NOT be able to be connected to another source for use. Outputs 5+6 will be used for an output and Outputs 7+8 will be used for another output.

3. Connect a Cat5e/6 cable to the LAN port on the unit from a computer or network for TCP/IP control, and/or a provided 3-pin Phoenix connector to the RS232 port for control.
4. Turn on units and connected components and test.
5. Use the front panel and dial, provided remote, 3rd party control system, or built-in browser user interface to set up further.

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