

8×8 Audio Matrix Processor with DSP and ARC

BAMX88-ARC Product Manual



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



Vanco International LLC provides a 2-year limited warranty for any defect in workmanship or materials under normal use from the date of purchase to the original owner. Please refer to the warranty page at www.vanco1.com for more details.