

DVDO

DVDO-AA2x20W-1

2x20W Class-D Audio Amplifier with 3 Inputs



DVDO-AA2x20W-1 is a compact Class D stereo audio amplifier ideal for small to medium-sized AV environments, including classrooms, meeting rooms, small venues, bars, restaurants, and digital signage systems.

It offers two analog audio inputs (1 x stereo RCA and 1 x 3.5mm) plus a microphone input with switchable 48V phantom power and an integrated mixer function.

The amplifier supports three output configurations: Stereo (2 × 20W @ 4Ω), Mono, and Bridge (1 × 40W @ 8Ω), with adjustable bass, treble, volume and input selection controls.

Operation is flexible, with control options via front panel buttons, IR remote or RS-232.

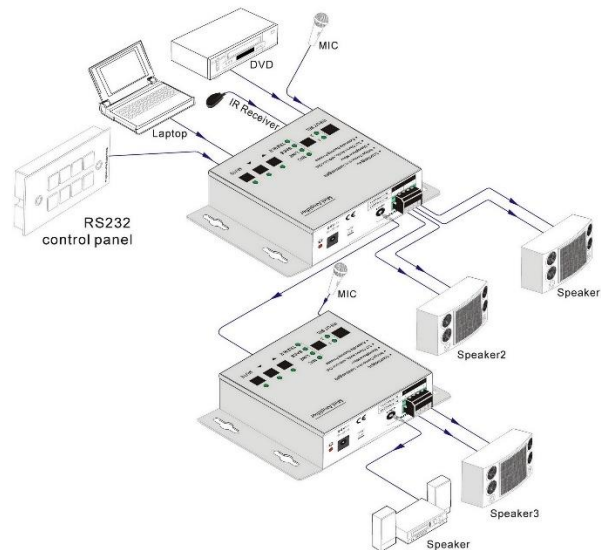
Features

- High-efficiency Class D amplification with low heat generation and reliable operation
- Compact design suitable for rack, wall, ceiling or under-table mounting
- Two analog audio + one microphone switchable inputs with mixer function
- Balanced/unbalanced MIC input supports 48V phantom power, dynamic and wireless microphones
- Switchable output modes: Stereo 2x20W @ 4Ohm (default), Dual Mono or Bridge 1x40W @ 8Ohm
- Loop output for signal pass-through or daisy-chaining
- Noise gate: automatically mutes the output when no input signal
- Independent volume, bass and treble control
- Control via front panel buttons, IR & RS232

Applications

- Conference Rooms
- Boardrooms
- Hospitality
- Lecture Halls
- Education
- Digital Signage

Application Diagram



Technical Specifications

Parameters	
Output Power	2 x 20W @ 4Ω / 1 x 40W @ 8Ω
Output Impedance	50Ω Analog Output; 4/8Ω Speaker Output
Input Impedance	>10kΩ
Frequency Response	20Hz – 20kHz (±1dB)
THD+N	1% at 1kHz; 0.3% at 20kHz at Nominal Level
Signal-to-Noise Ratio (SNR)	80dB max
Common Mode Rejection Ratio (CMRR)	>70dB @ 20Hz ~ 20kHz
Connections	
Audio Inputs	<ul style="list-style-type: none"> - Two stereo line inputs [RCA L/R & 3.5mm jack] - MIC input [3-pin terminal block, 3.81mm], supports 48V phantom power
Audio Outputs	<ul style="list-style-type: none"> - Speaker output [4-pin terminal block, 5.08mm], supports 8Ω (bridge) or 4Ω (stereo) load - Audio loop output [3.5mm jack]
Control Interfaces	<ul style="list-style-type: none"> - RS232 [3-pin terminal block] - IR [3.5mm jack]
Power	
Power Supply	100-240V AC @ 50/60Hz / 24V DC @ 2.71A
Power Consumption	≤ 45W (max)
Mechanical	
Enclosure	Black metal
Dimensions	123 (W) x 87 (D) x 40 (H) mm
Net Weight	0.720g
Environmental	
Operating Temperature	Operating: 0°C ~ +40°C / Storage: -10°C ~ +60°C
Relative Humidity	10%-90%, non-condensing