

DVDO-AA2x50W-1

2x50W Class-D Audio Amplifier with 3 Inputs & Volume Control

DVDO-AA2x50W-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 three switchable audio inputs: 2 analog (1 x L/R stereo + 1 x 3.5mm) and 1 digital (S/PDIF optical).

The amplifier supports two output configurations: Stereo (2 x 50W @ 8Ω) and Mono (1 x 100W @ 4Ω), with adjustable line, bass, treble, volume and input selection controls.

Operation is flexible, with control options via front panel buttons and knob, IR remote, RS232 or IP with a user-friendly web GUI.



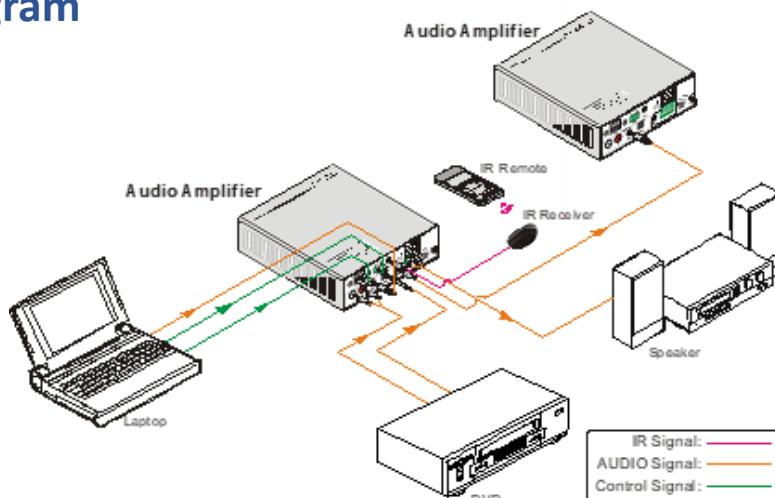
Features

- High-efficiency Class D amplification with low heat generation and reliable operation
- Compact design suitable for rack, wall, ceiling or under-table mounting
- Three audio inputs: 2 analog (RCA L/R & 3.5mm) + 1 digital optical audio (S/PDIF)
- Switchable output modes: Stereo 2x50W @ 8Ohm or Mono 1x100W @ 4Ohm
- Loop output for signal pass-through or daisy-chaining
- EQ management including line, bass and treble control
- Volume adjustment via front panel rotary knob
- Control via front panel buttons, IR, RS232 & IP
- Power off memory

Applications

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

Application Diagram



Technical Specifications

Parameters	
Output Power	2 x 50W @ 8Ω / 1 x 100W @ 4Ω
Output Impedance	
Input Impedance	>10kΩ
Damping Coefficient	>100
Voltage Gain	32dB
THD+N	1%@1kHz 50W
Signal-to-Noise Ratio (SNR)	80dB
Common Mode Rejection Ratio (CMRR)	75dB @ 20Hz ~ 20kHz
Connections	
Audio Inputs	<ul style="list-style-type: none"> - 2 analog inputs [RCA L/R & 3.5mm jack] - 1 S/PDIF optical digital audio [TOSLINK]
Audio Outputs	<ul style="list-style-type: none"> - 1 speaker output [4-pin terminal block, 5.08mm] Mono / Stereo - 1 audio loop output [3.5mm jack]
Control Interfaces	<ul style="list-style-type: none"> - RS232 [3-pin terminal block] - IR [3.5mm jack] - IP [female RJ45]
Power	
Power Supply	100-240V AC @ 50/60Hz / 36V DC @ 2.7A
Power Consumption	1.48W (max)
Mechanical	
Enclosure	Black metal
Dimensions	148 (W) x 165 (D) x 44 (H) mm
Net Weight	0.720g
Environmental	
Temperature	Operating: -10°C ~ +55°C / Storage: -25°C ~ +70°C
Relative Humidity	10%-90%, non-condensing