

DVDO

DVDO-DSP44-1

4x4 DSP Audio Processor



DVDO-DSP44-1 is a compact, high-performance digital signal processor with four balanced analog inputs and four balanced analog outputs.

It is designed for small to medium-size commercial audio installations requiring flexible routing and mixing as well as advanced signal optimization.

It features advanced audio technologies including Acoustic Feedback Canceler (AFC), Adaptive Echo Cancellation (AEC), Adaptive Noise Suppression (ANS), Automatic Gain Control (AGC), Active Noise Cancellation (ANC) & Auto Mixer (AM).

Its configurable DSP engine supports EQ, dynamics, filtering, delay, summing and full matrix routing, all controlled through an intuitive software interface or via RS232/RS485.

Additional features include voice tracking for PTZ cameras, a USB port for audio recording/playback & video conferencing, and front-panel status indicators.

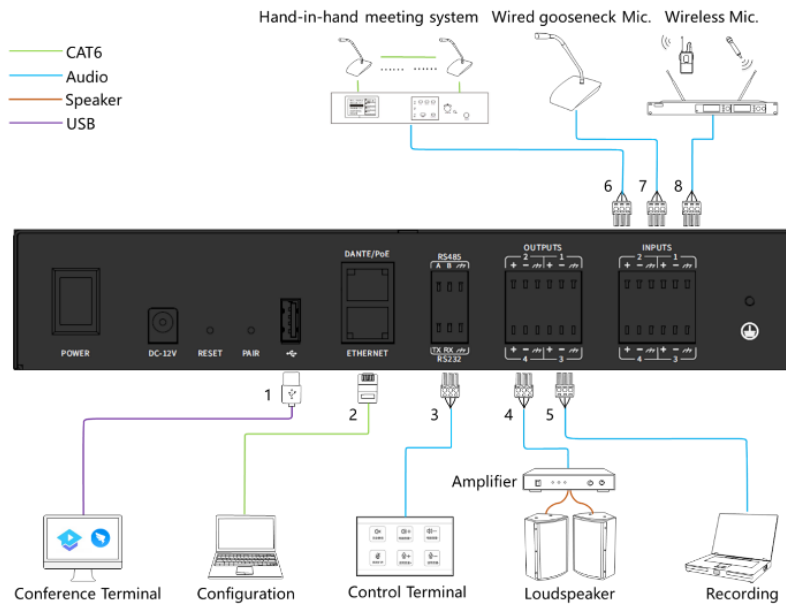
Features

- 4 balanced mic/line inputs
- 4 balanced line outputs
- 48V phantom power supply for MIC inputs
- Acoustic Feedback Canceler (AFC)
- Adaptive Echo Cancellation (AEC)
- Adaptive Noise Suppression (ANS)
- Automatic Gain Control (AGC)
- Active Noise Cancellation (ANC)
- Auto Mixer (AM)
- Matrix input / output signal routing, mixing and grouping functions
- Signal processing functions including equalizer, filter, expander, noise gate, limiter, delay, ducker,...
- Voice tracking with camera presets
- Built-in dual channel USB sound card for audio recording/playback and video conferencing
- RS232/RS485 control & control software with intuitive UI accessible through ethernet port

Applications

- | | |
|--------------------|--------------------|
| - Conference Rooms | - Training Rooms |
| - Boardrooms | - Education |
| - Hospitality | - House of Worship |

Application Diagram



Technical Specifications

Connections	
Inputs	4 x balanced analog mic/line inputs [6-pin terminal blocks]
Outputs	4 x balanced analog line outputs [6-pin terminal blocks]
USB	1 x USB 2.0 Type-A: supports audio data transmission
Control	RS232 [3-pin terminal block] RS485 [3-pin terminal block] Ethernet [RJ45]
Parameters	
Frequency Response	20Hz~20kHz: $\pm 0.5\text{dB}$
Maximum Level	+18dBu
THD +N	< -100dB @4dBu
Dynamic Range	Input: 110dB / Output: 112dB
Channel Isolation	1kHz: 108dB
Input Gain	0/3/6/9/12/15/18/21/24/27/30/33/36/39/42/45/48 dB
Impedance	Input (balanced): 5.4k Ω / Output (balanced): 600 Ω
Sampling Rate	48kHz/24bit
Phantom Power	48V/10mA max
General	
Operating Temperature	Operating: 0°C ~ +50°C / Storage: -10°C ~ +70°C
Relative Humidity	10%-90%
Power Supply	100-240V AC 50/60Hz / 12V 2A DC
Dimensions	250 (W) x 160 (D) x 44 (H) mm
Net Weight	1.2kg