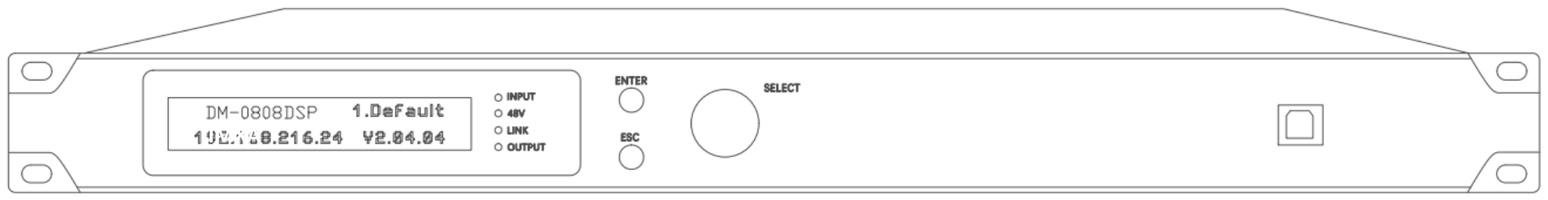
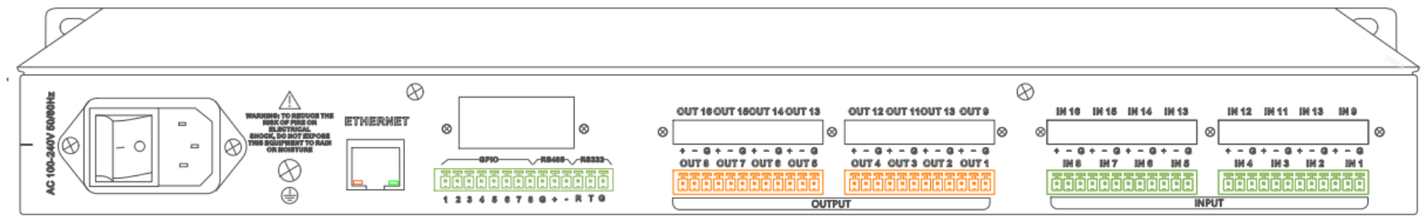
DM-0808DSP

DIGITAL SIGNAL PROCESSOR

MATRIX MIX DIGITAL SIGNAL PROCESSOR





DM-0808DSP Digital Mixer Matrix Processor

8×8 Matrix Digital Signal Processor

This advanced 8-input, 8-output matrix digital signal processor offers exceptional flexibility and audio performance, ideal for venues ranging from small meeting rooms to large, combined spaces.

With powerful onboard DSP—including adjustable delays—it enables seamless zoning control. Smaller events can operate with independent zone audio, while larger events benefit from unified sound across all areas.

Each of the eight inputs can be freely mixed and routed to any of the eight outputs, effectively functioning as a full-featured digital mixer. The unit also includes a USB Type-B audio interface, eliminating the need for traditional 3.5 mm analog jacks when connecting to a computer. This USB connection provides bi-directional audio (transmit and receive), allowing the processor to serve as a professional-grade sound card for recording, live streaming, and broadcast applications.

For conferencing scenarios, the processor supports advanced features such as:
ANC (Active Noise Cancellation)
AEC (Acoustic Echo Cancellation)
AFC (Automatic Feedback Cancellation)

These technologies ensure crystal-clear communication by intelligently reducing background noise, echo, and feedback—making it highly suitable for modern video conferencing systems.

8 GPIO inputs are available for scene triggering and integration with automation systems. For example, a GPIO trigger can activate an emergency broadcast mode, automatically muting all regular inputs except a dedicated emergency input (e.g., Input 1). The system supports flexible trigger types such as “Rising Edge” and “Falling Edge” to suit a variety of control scenarios.

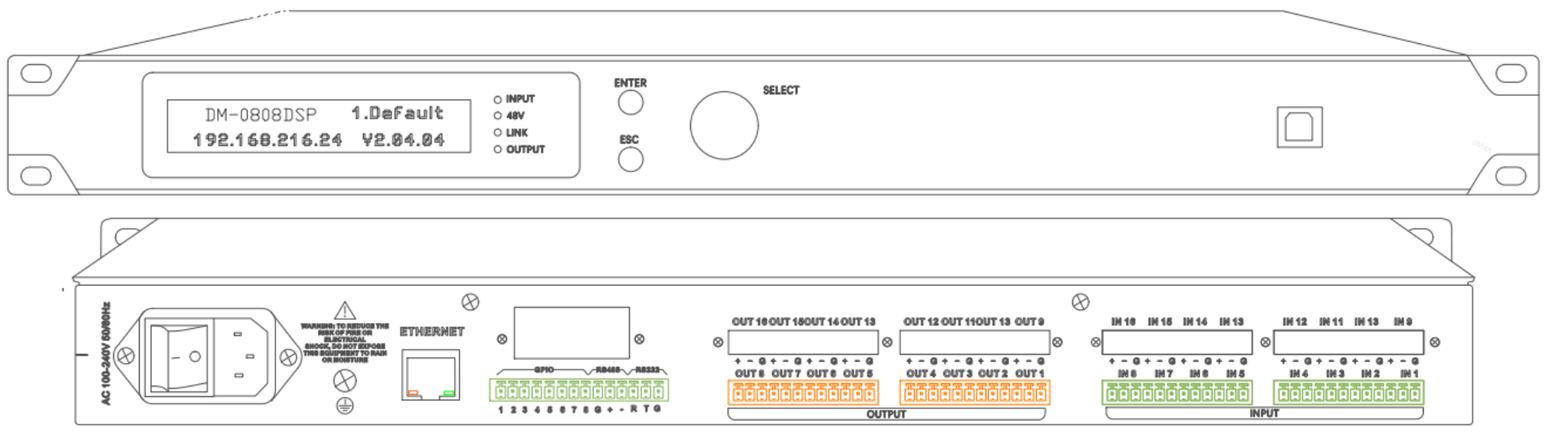
To simplify system control and monitoring, the processor provides two simultaneous PC interface options:
TCP/IP for network-based management
USB Type-B for direct connection

Both allow real-time level monitoring, routing adjustments, and full configuration via dedicated software.
Designed for demanding commercial and professional environments, this digital signal processor significantly enhances audio system performance. It also adds vital emergency broadcast capabilities—an essential upgrade over basic standalone PA speakers, especially in environments with high ambient noise.

DM-0808DSP

DIGITAL SIGNAL PROCESSOR

MATRIX MIX DIGITAL SIGNAL PROCESSOR



DM-0808DSP Digital Matrix Digital Signal Processor

Technical Specifications

	DM-0808DSP
Power Sources	100V AC -240V AC
Operating temperature	20 Celcius - 60 Celcius
Input / Output	8 Input + 1 USB(L&R) / 8 Output + 1 USB (L&R)
Phantom Power	+48V @ 8 Channel Input(Switching on in Software Setup)
Audio Latency	< 3ms
Digital Audio Resolutions	24-bit / 48kHz
Input Impedance	16kOhm
MAX Input Level	Line: 17dBu (5.48Vrms) MIC: -3dBu (0.54Vrms) (Mic @20dB Gain Level)
Output Impedance Level	150 ohm
Frequency Response Curve	Line: 20Hz - 20kHz(+/-0.5dB) @ 0dBu (0.775Vrms) Mic: 20Hz - 20kHz (+/-1.5dB) @-10dBu (0.245Vrms) @ 20dB Gain Level
Total Harmonic Distortion (THD) +N	Line: -90dB(@17dBu, 1kHz A-weighted) Mic: -90dB(@-6dBu, 1kHz A-weighted @20dB gain Level)
DSP Features	AEC (Fix Structure) / AFC(fix Structure) / ANC (fix Structure)
Signal to Noise Ratio	Line: 110dB(@17dBu, 1kHz A-weighted) Mic: 100dB(@-6dBu, 1kHz A-weighted @20dB gain Level)
Equalizer Band	15 Band for Input / 10 Band for output
Delays	Input 2000ms / Output 2000ms
Mic Input Gain Adjustment	0db - 40db
Communication Interface	Ethernet (TCP/IP) , USB Type-B 2.0
Net Weight	6.3kg
Dimensions (W x H x D)	483mm x 44mm x 265mm