VMO16
Audio Installation Processor

Audio performance and control for Dante installations.

Designed using NST second-generation DSP designs, the VMO16 brings no-compromise audio performance and system control to Dante networked audio installations.
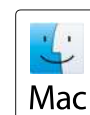
The VMO16 brings all the benefits and experience of our live sound filters and dynamics algorithms to an installation product. The 16 inputs from the Dante network go to a full 16x16 matrix mixer allowing any of the Dante networked inputs to be routed to any analogue output channel. All of the 16 analogue outputs have 16 bands of parametric EQ, 48dB/Oct high and low pass filters, up to 1.3 seconds of delay as well as our high performance, two-stage PXL limiters for high performance loudspeaker protection.

All analogue audio connections are on Phoenix-type 3-pin 5.08mm pitch connectors. The 4 GPI connections allow configurable actions such as fire alarm mutes and preset recalls. Up to 30 presets can be stored with recall options allowing selective recall combinations of input, matrix and output sections.

Our D-Net control software for PC, Mac and iPad gives you complete control over ethernet amd wifi. The VMO16 is also fully compatible with our VR1 PoE remote control panel for simple, flexible user control. Control via third party systems such as Crestron™ is available via our simple ethernet control protocol.

VMO16 Key Features

16 Analogue Outputs

Redundant Dante Network Audio Ports

16 Dante Input Channels (sample rates 48kHz or 96kHz)

DSP Sample Rate : 96kHz

Full routing mix-matrix from Dante inputs to analogue outputs

Output Processing Features :

16 Parametric EQs
Crossover Filters up to 48dB/Oct
Band Gain, Output Gain, Polarity
Delay (up to 1.3s per channel)
2-stage PXL Limiter

4 GPI ports for configurable external control

Remote control via 100Mbps Ethernet

Up to 30 presets may be stored for offline recall

Compatible with VR1 PoE remote control panel

Simple Ethernet Control Protocol enables building control system integration for Crestron™ and other similar systems.

VMO16 Technical Specifications

Analogue Outputs - 16 Electronically Balanced
Maximum Level >20dBu
Dynamic Range >119dB (20Hz - 20kHz A-weighted)
Source Impedance : <60Ω

Frequency Response (20Hz to 20kHz) : +/-0.05dB

THD + N (-10dB @ 1kHz) : 0.0005%

Latency : 0.283ms

Power : 90-250VAC, 50-60Hz, <40W

Dimensions : 44 x 170 x 482mm (1.75 x 6.75 x 19 inches)

Weight : 2.2kg Net, 3.4kg Shipping

D-Net Remote Control Software

PC/Mac/iPad compatible remote control software with Ethernet access.
Full control of all DSP, routing and configuration of multiple units with ability
to set up systems offline and store/load presets and preset libraries.