

# VMO16

## Audio Installation Processor

 Dante® + AES67



## Audio performance & control for network audio installs

Designed using the latest generation of NST DSP technology, VMO16 brings no-compromise audio performance and powerful system control to any network audio installation.

The VMO16 brings all the benefits and experience of our live sound filters and dynamics algorithms to an installation product.

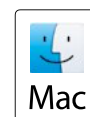
The 16 inputs from the Dante network go to a full 16x16 matrix mixer allowing any of the Dante networked inputs to be routed to any analogue output channel. All of the 16 analogue outputs have 16 bands of parametric EQ, 48dB/Oct high and low pass filters, up to 1.3 seconds of delay as well as our high 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 and 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



### Audio I/O:

- 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

Up to 30 presets may be stored for offline recall

Remote control via 100Mbps Ethernet

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

SNR: 122dB 'A' wtd  
Maximum Level: >20dBu  
Source Impedance: <60R

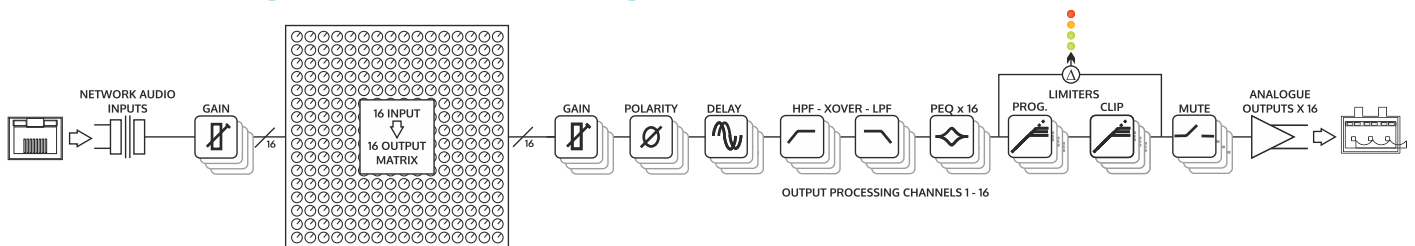
### Performance

Frequency Response: 12Hz - 32kHz  $\pm 0.2$ dB  
Dynamic Range: >119dB 'A' wtd  
THD+N (+19dB @ 1kHz): 0.00029%  
Latency: 0.283mS (out analogue, 96kHz)

### Electrical and Mechanical

Power: 90-250VAC, 50-60Hz, 20W  
Dims: 44 x 170 x 482mm (1.75 x 6.75 x 19in)  
Weight: 2.2kg Net; 3.4kg Shipping

## VMO16 Signal Processing



## D-Net Remote Control Software

PC, Mac and iPad compatible remote control software via Ethernet access.  
Full control of all DSP, routing and configuration of multiple VMO16 units  
with ability to set up systems offline and store/load presets and preset libraries.

