

# VMX88

## Audio Installation Processor

**NST**  
**AUDIO**  
DESIGNED AND MANUFACTURED IN YORKSHIRE, UK

 **Dante® + AES67**



## Finally, install gets the audio quality it deserves.

Designed using the latest generation of NST DSP technology, VMX88 brings no-compromise audio performance and powerful system control to any audio installation.

VMX88 delivers all the benefits and experience of our live sound filters and dynamics algorithms in an installation product, without compromise. The 8 analogue inputs have individual compressors, as well as a 24dB/Oct high pass filter, 8 bands of parametric EQ and up to 1.3 seconds of delay. The full matrix mixer allows mixing of not just the analogue inputs but also 8 channels of Dante networked inputs to any output channel. Audio channels can be routed to the 8 channels of Dante network outputs from multiple stages in the audio chain to give flexibility in system design.

All of the 8 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 100 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 VMX88L 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.

## VMX88 Key Features



### Audio I/O:

- 8 Analogue Inputs, 8 Analogue Outputs
- Redundant Dante/AES67 Network Audio Ports
- Dante/AES67: 8 Input Channels, 8 Output Channels
- DSP Sample Rate: 96kHz

### Input Processing Features:

- Soft Knee Compressor
- 8 Parametric EQs & 2 Dynamic EQ
- 24dB/Oct HPF
- Gain, Polarity, Delay (up to 1.3s)

### Routing Matrix Modes:

- Full routing mix-matrix for network and analogue audio channels
- Preset Configurations (2x4, 4x2, 1x8, 2x3+2)

### Output Processing Features:

- 16 Parametric EQs
- Crossover Filters up to 48dB/Oct
- Gain, Polarity, Delay (up to 1.3s)
- 2-stage PXL Limiters

4 GPI ports for configurable external control

Up to 100 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.



## VMX88 Technical Specifications

### Analogue Inputs - 8 Electronically Balanced

CMRR: >60dB @ 1kHz  
SNR: 119dB 'A'wtd  
THD+N (+19dB @ 1kHz): 0.0007%  
Maximum Level >20dBu  
Input Impedance: 10k Balanced

### Analogue Outputs - 8 Electronically Balanced

SNR: 122dB 'A'wtd  
THD+N (+19dB @ 1kHz): 0.00029%  
Maximum Level: >20dBu, Source Impedance: <60R

### Performance & Mechanical

Frequency Response: 12Hz - 32kHz  $\pm 0.2$ dB  
Dynamic Range: >119dB 'A'wtd (in-out analogue)

Latency: 0.427mS (in-out analogue, 96kHz)

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

## VMX88 Signal Processing

