

# DM88

## System Processor

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

**Dante® + AES67**



## Powerful, flexible *and* easy to use *is* possible...

Equally suited to FOH duties as a highly versatile system manager and console switcher, or installed as the hub of a complex installation system, the DM88 can control and process it all, simply and capably.

The DM88 incorporates not only the best quality audio conversion and DSP, but also new levels of flexibility for routing and processing.

Featuring 16 Dante, 8 analogue and 8 AES inputs, these are all available\* to be matrixed to one of 16 processing channels, optimised for either general input processing or for more specialised output speaker processing.

General input processing features multiple layers of parametric EQ with a library of selectable behaviours, 3 bands of dynamic EQ, compression, high-pass filter plus delay and phase reverse.

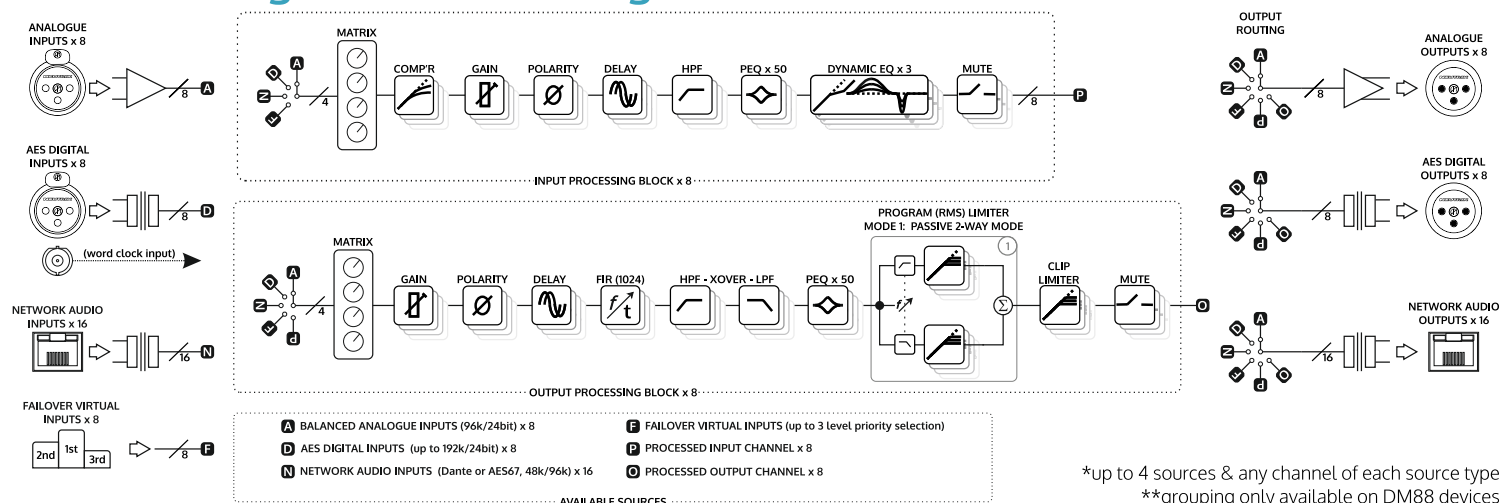
Specialised output processing includes 48dB/Oct high and low-pass filters, multiple EQ layers, FIR filtering, and a new 2-way mode limiter, designed for use with passive 2-way speaker boxes.

By allowing any source to be directly selected at any output, and incorporating a three-level failover system, the DM88 can perform format conversion and break-in/break-out duties. This is in addition to the 16 channels of individual signal processing and routing.

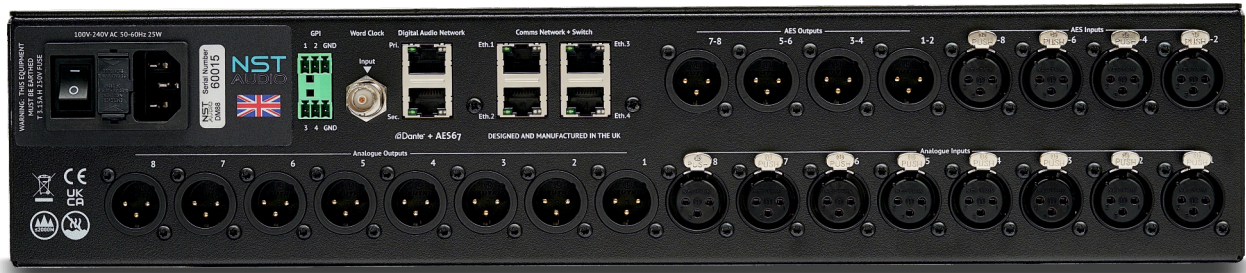
Our D-Net control software for PC, Mac and iPad gives you complete control over Ethernet and Wi-Fi. The latest release of D-Net incorporates advanced features that unlock the capabilities of the DM88. These include speaker module libraries for fast configuration, and powerful grouping and linking control to work with EQ layers, levels, and delays across multiple devices on the network\*\*.

The DM88 is also compatible with the VR1 & VR2 venue remotes and V-Remote, our iPhone venue remote application.

## DM88 Signal Processing



\*up to 4 sources & any channel of each source type  
\*\*grouping only available on DM88 devices



## DM88 Key Features

✚ Dante + AES67

### Audio I/O:

8 Analogue Inputs; 8 AES Digital Inputs (with SRC)  
Word Clock Input  
Redundant Dante Network Audio Ports  
16 Dante Input Channels  
8 Analogue Outputs; 8 AES Digital Outputs  
16 Dante Output Channels

### Input Processing Features:

Variable High Pass Filter  
Compressor  
Multi-Layer Parametric EQ with Behaviour Library  
3 Bands Dynamic EQ  
Delay/Gain/Polarity/Mute

### Output Processing Features:

Multi-Layer Parametric EQ with Behaviour Library  
Crossover Filters up to 48dB/Oct  
FIR Capable - up to 1024 taps/channel(96k)  
Band Gain, Output Gain, Polarity/Mute  
Delay (up to 1.3s per channel)  
2 RMS Limiter Modes (Standard & Passive 2-way)  
Look Ahead Clip Limiter

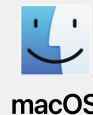
### Signal Routing Features:

Failover System - three-level automatic "virtual" inputs that select alternate sources if a signal fails  
Direct Source Conversion - any input source can be routed direct to any output bypassing DSP  
Mix Matrices - every input and output processing channel has a 4 source select and mix matrix

### Comms & General Features:

5" colour touchscreen for monitoring, key level and delay/phase/mute control & preset recall.  
4 GPI ports for configurable external control  
Up to 64 presets may be stored for offline recall  
Remote control via Gigabit Ethernet with integrated 4 Port Switch

Compatible with VR1, VR2 PoE remote control panels and V-Remote iPhone control app.



## DM88 Technical Specifications

### Analogue Inputs - 8 Electronically Balanced

CMRR: >60dB @ 1kHz  
SNR: 119dB 'A'wtd  
Maximum Level >20dBu  
Input Impedance: 10k Balanced

### Analogue Outputs - 8 Electronically Balanced

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

### AES Inputs - 4 x 2 Transformer Balanced

AES Input Sample Rates: 8kHz - 192kHz  
AES Input s/n Ratio: 139dB  
Input Impedance: 110R  
BNC Word Clock Input (auto-selected if valid)

### AES Outputs - 4 x 2 Transformer Balanced

Sample Rate: 96kHz  
Source Impedance: 110R

### Network Audio

16 in, 16 out (96kHz)  
Dante and AES67 compatible

### Comms, Interface and GPIO

4 port Ethernet switch  
5" colour touchscreen + rotary encoder w/push switch  
4 port GPI port for memory recall/fire alarm control

### Performance & Mechanical

Frequency Response: 12Hz - 32kHz  $\pm 0.2$ dB  
Dynamic Range: >119dB 'A'wtd (in-out analogue)  
THD+N (+19dB @ 1kHz): 0.00029%  
Latency: 0.615mS (in-out analogue, 96kHz)

Power: 90-250VAC, 50-60Hz, 20W  
Dims: 88 x 170 x 482mm (3.5 x 6.75 x 19in)  
Weight: 3.2kg Net; 4.4kg Shipping