

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 4x2 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.

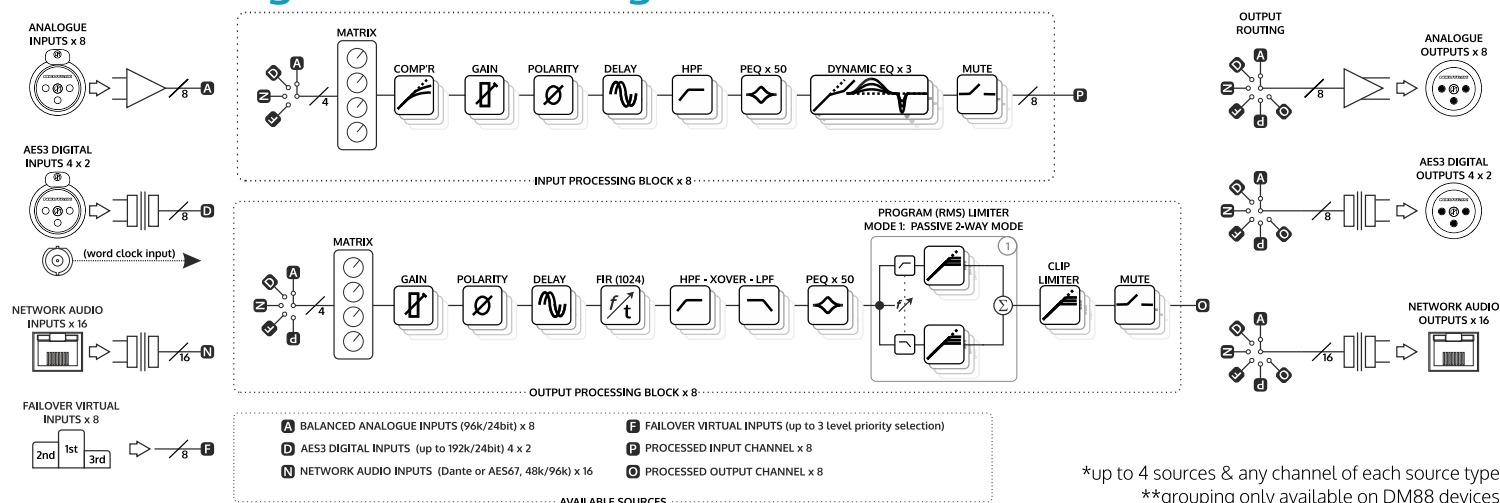
Specialised output processing includes 48dB/Oct high and low-pass filters, multiple EQ layers, FIR filtering, and a new 2-way mode limiter, designed for use with passive 2-way speaker boxes.

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





DM88 Key Features

✱ Dante + AES67

Audio I/O:

8 Analogue Inputs; 4x2 AES3 Digital Inputs (with SRC)
Word Clock Input
Redundant Dante Network Audio Ports
16 Dante Input Channels
8 Analogue Outputs; 4 x 2 AES3 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

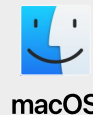
Signal Routing Features:

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

AES3 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)

AES3 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 ± 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