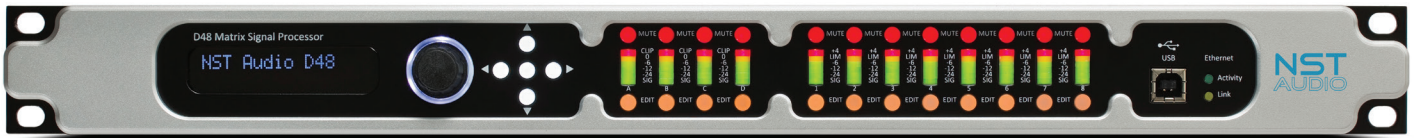# D48
Matrix Signal Processor

Next-Generation Loudspeaker Signal Processing

Designed from the ground-up based on several decades worth of pro audio product design experience, the D48 offers no-compromise performance and flexibility for the most demanding of audio applications.

With inputs and outputs switchable in channel pairs between analogue or AES/EBU the D48 gives you the flexibility you need to integrate into your system.

Compressors are available on every input as well as a high pass filter, 6 bands of parametric EQ and up to 1.3 seconds of delay. Routing to outputs can be configured to either mix-matrix mode, free-routing or several pre-configured routing options. Flexible channel linking enables quick and easy configuration of common crossover setups or customised configurations as required. Every output channel has high and low pass filters, 8 bands of parametric EQ, up to 1.3

seconds of delay as well as a new limiter designed to offer the best driver protection with the lowest distortion.

The D48 runs at 96kHz as standard but can be switched into 48kHz mode to take advantage of 48dB/oct output crossover filters and two bands of dynamic EQ on both input and output channels. Front panel control allows instant mute of any input or output as well as editing of all the most commonly used parameters and recall of presets.

The ethernet based PC control software gives you the ability to not only control all the devices on a network but also to store preset memories and configure systems offline.

D48 Key Features

4 Analogue Inputs, 8 Analogue Outputs

AES Digital Inputs and Outputs with sample rate conversion from 24kHz to 96kHz

Sample rate switchable between 96kHz and 48kHz (adds DEQ filters and 48dB/Oct crossover filters)

Input Processing Features:
Soft Knee Compressor
6 Parametric EQs
24dB/Oct HPF
2 bands of Dynamic EQ (48kHz mode)
Gain, Polarity, Delay

Routing Matrix Modes:

Mix Matrix, Routing Matrix, Preset Configurations (2x4, 4x2, 1x8, 2x3+2)

Output Processing Features:

6 Parametric EQs
Crossover Filters up to 24dB/Oct (96kHz mode) 48dB/Oct (48kHz mode)
2 bands of Dynamic EQ (48kHz mode)
Gain, Polarity, Delay, Limiter

Remote control via 100Mbps Ethernet, USB Type B
Up to 30 presets may be stored for offline recall

D48 Technical Specifications

Analogue Inputs - 4 Electronically Balanced

CMRR : >60dB @ 1kHz

Maximum Level : >20dBu

Input Impedance : 10kΩ Balanced

AES Inputs - 2 x 2 Channel Transformer Balanced

AES Input Sample Rates : 8kHz to 96kHz

AES Input s/n Ratio : 140dB

Input Impedance 110Ω

Analogue Outputs - 8 Electronically Balanced

Maximum Level : >20dBu

Source Impedance : <60Ω

AES Outputs - 4 x 2 Channel Transformer Balanced

Sample Rate : Same as operating sample rate

Source Impedance : 110Ω

Frequency Response (20Hz to 20kHz) : +/-0.4dB

Dynamic Range : >115dB unweighted (in to out analogue)

THD + N (-10dB @ 1kHz) : 0.0013%

Latency : 1.074ms (in to out, analogue, 96kHz)

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

Dimensions : 44 x 213 x 482mm (1.75 x 8.4 x 19 inches)

Weight : 2.8kg Net, 3.5kg Shipping

D-Net Remote Control Application

PC compatible remote control software with USB and Ethernet access. Full control of all DSP, routing and configuration of multiple D48 units with ability to set up systems offline and store/load presets and preset libraries. Mac and iPad control software available early 2016.