



# NST AUDIO

DESIGNED AND MANUFACTURED IN YORKSHIRE, UK

# D48X

## Matrix Signal Processor



## Introducing the next step in technology

Now in its third generation, the D48X enhances both audio performance and remote control flexibility, meaning your system sounds better and is easier to control.

With inputs and outputs switchable in channel pairs between analogue or AES/EBU the D48X gives you the flexibility you need to integrate into your system.

Compressors are available on every input as well as a high pass filter, 8 bands of parametric EQ, a 28 band graphic EQ, 3 bands of dynamic 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, 16 bands of parametric EQ and up to 1.3 seconds of delay. FIR filtering is also supported.

Our Predictive eXcursion Limiter (PXL) algorithm, on every output, is designed to offer the best driver protection with the lowest distortion.

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.

Our D-Net Ethernet based control software for PC, Mac and iPad gives you the ability to not only control all the devices on a network but also to store preset memories and configure systems offline.

A new USB-C front panel connection with Ethernet bridging means you can plug into any device and control the entire network. Additionally, a new Ethernet dual port switch in every unit means flexible connection options - either quick daisy chaining of devices or traditional star routing back to a dedicated external router/switch.

With enhanced audio performance thanks to the latest ESS AD/DA converter chipsets increasing the already impressive dynamic range and reducing THD+N figures, the D48X offers even more than ever before.

## D48X Key Features

### Audio I/O:

4 Analogue Inputs, 8 Analogue Outputs  
AES Digital I/O with SRC from 24 to 192kHz

### Input Processing Features:

Soft Knee Compressor  
8 Parametric EQs & 3 DEQ  
24dB/Oct HPF & 28 Band Graphic EQ  
Gain, Polarity, Delay (up to 1.3s)

### Routing Matrix Modes:

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

### Output Processing Features:

16 Parametric EQs  
Crossover Filters up to 48dB/Oct  
FIR Filter capable -  
1024 Taps/2ch, 512 Taps/4ch, 256 Taps/8ch at 96kHz  
Gain, Polarity, Delay (up to 1.3s)  
PXL Limiters

Remote control 1Gbps/100Mbps Ethernet, USB Type C  
Up to 100 presets may be stored for offline recall



## D48X Technical Specifications

### Analogue Inputs - 4 Electronically Balanced

CMRR: >60dB @ 1kHz  
Maximum Level >20dBu  
Input Impedance: 10k Balanced

### AES Inputs - 2 x 2 Transformer Balanced

AES Input Sample Rates: 8kHz - 192kHz  
AES Input s/n Ratio: 139dB  
Input Impedance: 110R

### Analogue Outputs - 8 Electronically Balanced

Maximum Level: >20dBu  
Source Impedance: <60R

### AES Outputs - 4 x 2 Transformer Balanced

Sample Rate: 96kHz  
Source Impedance: 110R

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

Power: 90-250VAC, 50-60Hz, 20W  
Dims: 44 x 213 x 482mm (1.75 x 8.4 x 19in)  
Weight: 2.5kg Net; 3.5kg Shipping

## D-Net Remote Control Software

PC, Mac and iPad compatible remote control software with USB and Ethernet access. Full control of all DSP, routing and configuration of multiple D48X units with ability to set up systems offline and store/load presets and preset libraries.

