



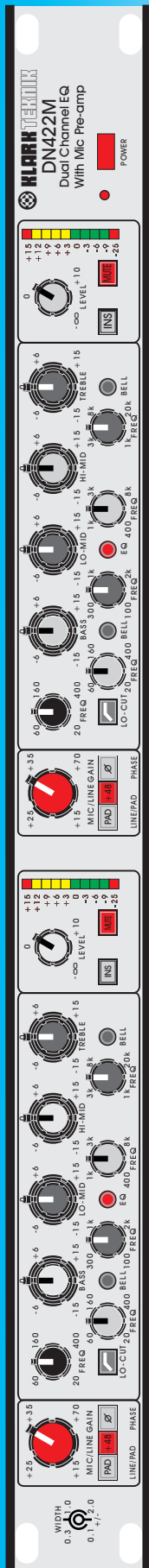
DN422M

Dual Channel EQ With Mic Pre-amp

The DN422M has been designed for recording or live performance applications where a high quality equaliser combined with a mic pre amp is required. Whether for stereo recording direct to DAT or via an insert point or input of a console to enhance the quality of the programme material.

The unit also has balanced send and returns with a front panel switch allowing compression, limiting, expansion or even gating to be inserted post mic pre-amp but pre eq (as standard).

- Dual Channel 4 band EQ
- Switchable balanced insert send & returns
- Variable High Pass Filters
- 10 segment LED Metering
- Mic/Line Pre-amps
- Both inputs & outputs electronically balanced
- 48v Phantom power
- Transformer balancing options for inputs & outputs
- Input and output level controls



STEREO
QUALITY

technical specification

Architect's and Engineer's Specification

The equaliser/mic pre-amp shall provide for two channels of 4-band equalisation comprising of:- Bass, with selectable shelving/bell response continuously variable from 20Hz to 400Hz. Lo mid, continuously variable from 100Hz to 2KHz. Hi mid, continuously variable from 400Hz to 8KHz. Treble, with selectable shelving/bell response continuously variable from 1KHz to 20KHz.

Each equaliser filter shall provide 15dB of accentuation and attenuation and shall allow for bandwidth adjustment from 0.1 to 2 Octaves.

Each channel shall also include a high pass filter continuously variable from 20Hz to 400Hz, with a slope of 12dB/Octave and a mic input level control with switchable phase inversion, 48Volt phantom power and a 25dB pad. The gain of the input control shall be continuously variable from -10dB to +70dB.

Both channels shall also include a mute switch, switchable balanced insert send and returns, a 10 segment LED meter and an output gain continuously variable from -infinity to +10dB

The equaliser/mic pre-amp shall meet or exceed the following specifications.

<i>Distortion</i>	<0.03% @ 1KHz (mic+60dB gain, 0dBu output)
<i>Frequency Response</i>	+0 to -1dB (20Hz to 20KHz)
<i>Noise</i>	-129dBu (Mic EIN ref.150Ω) <-90dBu (Line EIN ref.600Ω)
<i>Maximum output Level 600Ω</i>	+21dBu

Channel inputs and outputs shall be via XLR style connectors, insert send and return connections via 1/4" bantam jacks. The equaliser/mic pre-amp shall be 19" standard rack mountable and 1U high. The unit shall be capable of operating from a 115/230V 50/60Hz AC power source.

The equaliser/mic pre-amp shall be the Klark Teknik Model DN422M and no alternative specification option is available.



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<i>Inputs</i>	<i>Two</i>
Type	Electronically balanced (pin 2 hot)
Impedance (Ω)	
Balanced	2K (3K with pad)
Insert (balanced)	20K
Max Level	+6dBu (+31dBu with pad)
Gain	+15dB to +70dB
Pad	-25dB

Outputs	
Type	Electronically balanced (pin 2 hot)
Min. Load impedance	600Ω
Source impedance	<50Ω
Max Level	+21dBu

Performance

Frequency response(20Hz to 20KHz)	+0 to -1dB
Distortion @ 1KHz (mic+40dB gain, 0dBu output)	<0.03%
Input noise (Mic EIN ref. 150Ω)	-129dBu
(Line EIN ref. 600Ω)	<-90dBu
Metering	10 LED Peak reading

Filters

Type	Hi pass, Treble, Hi Mid, Lo Mid, Bass. (X2)
Band Width	0.1 Octave to 2 Octaves
Max. Boost/cut	+15dB to -15dB
Frequency ranges	20Hz to 400Hz (Bass Bell/Shelving) 100Hz to 2KHz (Lo Mid) 400Hz to 8KHz (Hi Mid) 1KHz to 20KHz (Treble Bell/Shelving)
High Pass filter	20Hz to 400Hz @ 12dB/Octave

Power

Mic Phantom Voltage	48V +/-5%
Max. Phantom Current	<10mA

Power Requirements

Voltage	110/120/220/240V 50/60Hz
Consumption	<15VA

Weight

Nett	3kg
Shipping	4kg

Dimensions

Width	482mm (19 inch)
Depth	250mm (10 inch)
Height	44mm (1.75 inch)

Terminations

Input /Outputs	3 pin XLR
Inserts (Send/Return)	Tt Bantam
Power	IEC

Options

Transformer mic input*/output balancing

* Input mic transformer is non retrofittable and has to be specified with order.

Trade Descriptions act: Due to the company policy of continuing improvement, we secure the right to alter these specifications without prior notice.