

DN504

Dynamic Processor

**Quad Compressor/Limiter**

Inputs	Four
Type	Electronically balanced (pin 3 hot)
Impedance (ohms)	
Balanced	20k
Unbalanced	10k

Side Chain Inputs	Four
Type	Electronically balanced (tip hot)
Impedance (ohms)	
Balanced	20k
Balanced	10k

Audio Outputs	Four
Type	Unbalanced (pin 3 hot)
Min. Load impedance	600 ohms
Source impedance	<60 ohms
Max. level	+21dBu

Performance

Frequency response (20Hz-20kHz)	+/- 0.5dB
Distortion (@ + 18dBu)	<0.03% @ 1kHz
Equivalent input noise (20Hz-20kHz unweighted)	<-94dBu
Channel separation	>90dB @ 1kHz

Compressor

Threshold	-30dB to +20dB
Ratio	1:1 to 50:1
Knee	Switchable 1dB (hard) / 40dB (soft)
	Switchable auto (attack and release controls disabled) or manual
Attack (90% capture)	50us to 20ms
Release (90% recovery)	60ms to 2 secs
Output Gain	-10dB to +30dB

Power Requirements

Voltage	110/120/220/240V 50/60Hz
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Consumption	<30VA
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Weight

Nett	4kg
Shipping	6kg

Dimensions

Width	482mm (19 inch)
Depth	292mm (11.5 inch)
Height	44.5mm (1.75 inch)

Terminations

Audio inputs/outputs	3 pin XLR
Side-chain inputs	Normalled 1/4 inch stereo jack
Power	IEC

Options

Security Cover
Transformer input* / output balancing

* Input transformer balancing 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.

Architect's & Engineers's Specification

The compressor/limiter shall provide four complete channels of compression.

Each channel shall provide for adjustment of Threshold, Ratio, Attack and Release and have push button selection of auto or manual modes and hard or soft knee. An output gain control and level meter shall be provided. Gain reduction meters shall also be provided for each channel.

The compressor/limiter shall meet or exceed the following specifications:

- Distortion: <0.03% @ +4dBu (1kHz)
- Frequency response: +/- 0.5dB (20Hz-20kHz)
- Noise: <-94dBu (20Hz-20kHz unweighted)
- Compressor Attack time: 50 50us-20mS
- Compressor Release time: 60mS-2 secs
- Maximum output level into 600 ohms: +21dBu

Push button switches shall be provided to select channel bypass and to link adjacent channels for stereo operation. Side chain inputs shall be provided for each compressor section. Channel inputs and outputs shall be via XLR style connectors, external side chain inputs shall be via 1/4 inch jack. A tamper proof front panel cover shall be available to fit the unit.

The compressor/limiter 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 compressor/limiter shall be the Klark Teknik Model DN504 and no alternative specification option is available.