



## DN504 *Plus* - Quad Compressor Limiter

The DN504 Plus packs four fully featured compressors into just 1RU, and boasts audio performance equal to its super-quiet stable mate the DN500 Plus.

Fitted with hard / soft knee controls, auto and manual attack / release functions, and side chain inputs for each channel, the DN504 Plus is especially suited for in-ear monitoring applications, especially since channels can be linked as stereo pairs if required. Comprehensive gain reduction and output level metering completes this extremely useful and space-saving professional tool.



### Architect's & Engineer'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 (THD+N)** <0.03% @1kHz, +4dBu  
**Frequency response** ±0.5dB (20Hz-20kHz)  
**Noise** <-94dBu (20Hz-20kHz unweighted)  
**Compressor Attack time** 50µs-20ms  
**Compressor Release time** 60ms-2 secs  
**Maximum output level into 600Ω** +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" jack. A tamperproof 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 100V, 115V, 220-240V 50/60Hz AC power source.

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

### Technical Specification

<b>Inputs</b>	<b>Four</b>
Type	Electronically balanced (pin 3 hot)
Impedance (Ω)	
Balanced	20k
Unbalanced	10k
<b>Side Chain Inputs</b>	<b>Four</b>
Type	Electronically balanced (tip hot)
Impedance (Ω)	
Balanced	20k
Unbalanced	10k
<b>Audio Outputs</b>	<b>Four</b>
Type	Unbalanced (pin 3 hot)
Min. Load impedance	600Ω
Source impedance	<60Ω
Max. Level	+21dBu
<b>Performance</b>	
Frequency response	(20Hz-20kHz) ±0.5dB
Distortion (THD+N)	<0.03% @ 1kHz, +4dBu
Equivalent input noise	(20Hz-20kHz unweighted) <-94dBu
Channel separation	>90dB @ 1kHz
<b>Compressor</b>	
Threshold	-30dBu to +20dBu
Ratio	1:1 to 50:1
Knee	Switchable 1dB (hard) / 40dB (soft)
Envelope	Switchable auto (attack and release controls disabled) or manual
Attack (90% capture)	50µs to 20ms
Release (90% recovery)	60ms to 2 secs
Output gain	-10dB to +30dB
<b>Terminations</b>	
Audio inputs/outputs	3 pin XLR
Side-chain inputs	Normalled 1/4 inch stereo jack
Power	3 pin IEC
<b>Power Requirements</b>	
Voltage	100V, 115V, 220-240V
50/60Hz	
Consumption	<30VA
<b>Dimensions</b>	
Height	44.5mm (1.75 inch) - (1U)
Width	482mm (19 inch)
Depth	292mm (11.5 inch)
<b>Weight</b>	
Nett	5kg
Shipping	6kg
<b>Options</b>	
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 reserve the right to alter these specifications without prior notice. E&OE.*