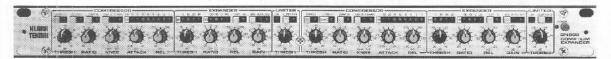
DYNAMIC PROCESSOR

Dual Compressor/ Limiter/ Expander

The DN500 offers the engineer a unique combination of variable knee compressor, independent limiter and clipper plus a variable ration expander/gate for the ultimate in dynamic control. With this flexibility the DN500 is suited to a wide range of applications in recording, broadcast, post production studios and sound reinforcement systems.

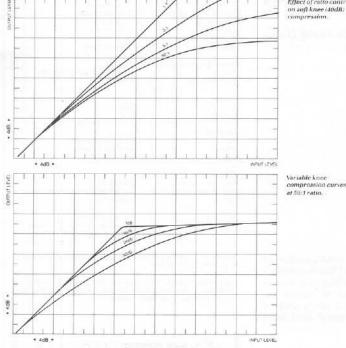


Additional features include a stereo link function, gain reduction meters for both compressor and expander sections and output level meters. Each channel also incorporates a peak limiter with variable threshold and programme related release.

Advanced VCA circuit design offers extremely low noise and distortion performance to the DN500 user.

Only top quality components are used in the manufacture of this product and every unit is bench tested and aligned before burn-in and final performance test.

The unit has XLR terminated electronically balanced inputs and unbalanced outputs, with optional transformer balancing available to order.



Effect of ratio control on soft knee (40dB)

Features

- Two channels of full function compression, expansion, limiting and peak clipping in one unit of rack space.
- Variable knee control for compression styles from hard to easy.
- Auto attack/release mode for inaudible compression and easy set-up.
- Manual attack/release mode for creating compression effects.
- Advanced VCA design for extremely low noise and distortion.
- Flexible expander section features variable ratio for gentle expansion or hard gating.
- Separate side chain inputs are provided for compressor and expander sections.
- Apeak limiter with variable threshold and programme related release provides additional protection.
- Peak clipper eliminates transient overload and tracks limiter threshold for total protection.
- Additional features include stereo link function, gain reduction meters for both compressor/expander sections and output level meter.
- The DN500 is sturdily constructed throughout and complies with standard 19" 1U rack mounting requirements.



DN500 DYNAMIC PROCESSOR

ARCHITECT'S AND ENGINEER'S SPECIFICATION

The compressor/limiter shall provide two complete channels of compression, expansion, peak limiting and peak clipping. The compressor section shall provide for adjustment of Threshold, Ratio, Knee, Attack and Release and have push button selection of auto or manual modes. The expander section shall provide for adjustment of Threshold, Ratio and Release and have push button selection of Auto or Fixed attack times. The limiter section shall provide for adjustment of Threshold and have push button selection of a Peak Clipper. An output gain control and level meter shall be provided. Gain reduction meters shall be provided for both compressor and expander sections.

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

Distortion Frequency response <0.03% @ +4dBm(1kHz) ±0.5dB(20Hz-20kHz)

Noise

<-94dBm (20Hz-20kHz unweighted)

CompressorAttacktime 50μ S-20mS CompressorReleasetime 60mS-2 secs

Maximum output level

into 600Ω +21dBm

Push button switches shall be provided to select compressor, expander and channel bypass and to link both channels for stereo operation. Side chain inputs shall be provided for both compressor and expander sections. Channel inputs and outputs shall be via XLR style connectors, external side chain inputs shall be via ¼" jack. Atamperproof 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 110/220V 50/60Hz AC power source.

The compressor/limiter shall be the Klark-Teknik Model DN500 and no alternative specification option is available.

RELIABILITY CONTROL

Even with the advanced electronic engineering incorporated in this product, each unit is given the full backing of Klark-Teknik's "Reliability Control", which proves each product against a specification consistent with highest professional standards. Precision components are used throughout and every unit is bench tested and aligned before a burn-in period and final performance test.

TECHNICAL SPECIFICATION

Two
Balanced (electronically)
A STATE OF THE STA
20k
10k
Two (Compressor) + Two (Expander)
Balanced (electronically)
#/ G/27 -
20k
10k
Two
Unbalanced
600Ω
<600
+21dBm
5 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
±0.5dB
<0.03% @ 1kHz
- 0.1.1P
<-94dBm
C. S. March Man (Sept. USC Sept. March
-30dB to +20dB
1:1 to 50:1
1dB(Hard) to 40dB(soft)
Switchable auto (attack and release controls disabled
or manual
50µS to 20mS
60mS to 2 Secs
-40dB to +20dB
1:1 to 25:1
Switchable auto or
fixed (2mS)
40mS to 2 Secs
-10dB to +30dB
0dB to +20dB
110/120/220/240V50/60Hz
<30VA
5 - FIRST
4kg
6kg
482mm (19 inch)
292mm (11½ inch)
44.5mm(1%inch)
3 pin XLR
Normalled ¼ inch stereo jack
3 pin CEE
Security cover
Transformer input*/output

* 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.

