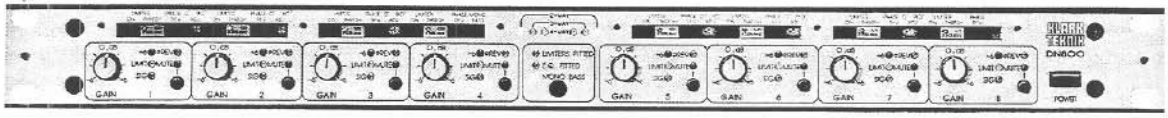
DN800

ACTIVE CROSSOVER

Configurable Active Crossover

The Klark Teknik model DN800 - a Configurable Active Crossover for use in permanent installations and touring sound reinforcement systems, offers an unrivalled combination of features, facilities and sound quality.



Constructed in one rack unit with four inputs and eight outputs, the DN800 offers superlative sound quality and advanced flexibility in the minimum rack space (Twice the channels, or half the space of any other package).

The DN800 - channel for channel - highly space effective and also extremely cost effective.

The DN800 is very flexible. It can be configured as a stereo 4 way, stereo 3-way or four input 2-way system. Plug-in frequency cards allow a choice of 12, 18 or 24dB/Oct slopes with Linkwitz-Riley, Butterworth or Bessel responses. Band overlap is possible. A Mono Bass function is available for use with sub-woofer systems. Advanced VCA limiters are also available on plug-in cards.

The DN800 features trimmers for phase adjustment between bands and switchable phase reverse for each output. Each output also includes gain and mute controls and "signal", "limit" and "over" LEDs.

Inputs and outputs are electronically balanced as standard, with output balance transformers and fixed equalisation cards as internally fitted options.

Security plates cover most controls after initial adjustment leaving only mute and gain functions accessible. Overall security covers in both aluminium and perspex are available to order.

Features

- Eight frequency bands in one rack unit.
- Twice the channels or half the rack space of any other crossover currently available.
- Unrivalled sound quality.
- Very low noise and distortion.
- High flexibility.
- Mono Bass facility for sub-woofer systems.
- High-precision frequency selection on plug-in cards.
- Advanced VCA limiters on plug-in cards.
- Fixed equalisation for system matching available on plug-in cards.
- Band overlap is possible.
- Phase adjustment between bands and phase reverse for each output.
- Manufactured to the usual high Klark Teknik standards of quality and reliability.

KLARK TEKNIK

The first name with sound system designers

Klark Teknik PLC
Walter Nash Road, Kidderminster,
Worcestershire DY11 7HJ England.
Tel: (01562) 741515
Fax No: (01562) 745371

Mark IV Pro Audio Group
448 Post Road,
Buchanan MI 49107.
Tel: (616) 695 4750
Fax No: (616) 695 0470

DN800

ACTIVE CROSSOVER

ARCHITECTS AND ENGINEER'S SPECIFICATION

The DN800 electronic active crossover shall provide up to 6 crossover points/8 bands in one rack unit.

The crossover shall be configurable as 4-way stereo, 3-way stereo or 2-way 4-channel.

The crossover shall be able to provide any frequency, slope and response by the use of plug-in cards. Each frequency band shall have controls for mute, gain, phase invert and band-edge phase adjust.

The crossover shall meet or exceed the following performance specification:

Distortion <0.01% @ 0dBu 20Hz to 20kHz
Equivalent input noise < -95dBu (any output)
(20Hz to 20kHz unweighted)

High quality VCA limiters shall be available on plug-in cards. These shall have threshold controls available on the front panel.

Fixed equalisation shall be available on plug-in cards to suit constant directivity horns etc.

The Unit shall incorporate a fixed 18dB/Oct Subsonic filter at 30Hz.

The crossover shall feature front panel LEDs to indicate signal present, limit and +6dB over-limit. Front panel controls apart from gain and mute shall be recessed and covered after initial setup by security plates. An overall tamper-proof cover shall be available.

All audio connections shall be via XLR style connectors. All inputs and outputs shall be electronically balanced. Output balancing transformers should be available as an option and must be internally fitted.

The unit shall be capable of operating from a 110/220v ± 10% 50/60Hz AC power source.

The crossover shall be the Klark Teknik model DN800 and no alternative 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

Inputs	Four
Type	Balanced (electronically)
Impedance	(ohm) Balanced 20k Unbalanced 10k
Outputs	Eight
Type	Balanced (electronically)
Min. load impedance	600ohm
Source impedance	<60ohm
Max Level	>+21dB
Performance	
Distortion	<0.01% (20Hz to 20kHz @ +4dB)
Equivalent input noise	< -95dBu (any output) (20Hz to 20kHz unweighted)
Nominal gain	0dB
Adjustable gain	± 6dB on front panel control additional +12dB or -6dB on internal preset
Limiter threshold	-12dB to +12dB
Phase relationship	Continuously adjustable 0° to 180° between bands Polarity switch provides additional 180°
Frequency division filters	Butterworth, Bessel, or Linkwitz-Riley, 12, 18 or 24dB/Oct
Subsonic filter	18dB/Oct 30Hz
Power requirements	
Voltage	110/120/220/240v 50/60HzAC
Consumption	<30 vA
Dimensions	
Width	482mm (19 inches)
Height	44mm (1.75 inches)
Depth	285mm (11.2 inches)
Weight	
Net	3.5kg
Shipping	6kg
Terminations	
Inputs	3 pin XLR
Outputs	3 pin XLR
Power	3 pin CEE

Options
Overall security cover
System equalisation
Input balance transformers

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

KLARK TEKNIK
The first name with sound system designers

Klark Teknik PLC
Walter Nash Road, Kidderminster,
Worcestershire DY11 7HJ England.
Tel: (01562) 741515
Fax No: (01562) 745371

Mark IV Pro Audio Group
448 Post Road,
Buchanan MI 49107.
Tel: (616) 695 4750
Fax No: (616) 695 0470