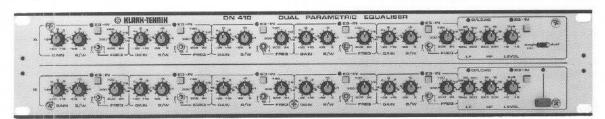
DN410 PARAMETRIC EQUALISER

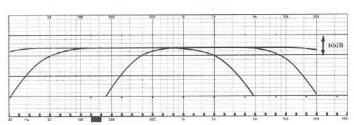
Dual Channel Five Band Parametric Equaliser

The Klark-Teknik model **DN410** is a dual channel parametric equaliser, featuring five band dual or 10 band mono operation and occupies 2U of rack space. The DN410 is primarily designed for use in sound reinforcement applications, but its operational flexibility makes it equally suitable for recording, broadcast and post production work.

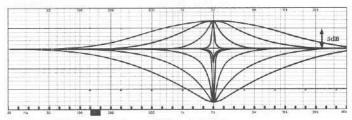


The equaliser features a three position range switch for each filter section – allowing 100% overlap anywhere between 20Hz and 20kHz whilst maintaining accurate resolution with a 10:1 sweep range. The 'notch' mode of the filters can be used for suppression of feedback frequencies without excessively affecting the adjacent frequencies. Each channel also incorporates two frequency sweepable shelving filters and input level control. Only top quality components are used in the manufacture of this product and every unit is bench tested and aligned before burn-in and a final performance test.

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



Response of variable high and low pass filters set at minimum, maximum and intermediate turnover frequencies.



 $Typical \, range \, of \, adjustment \, for \, a \, single \, parametric \, filter \, centred \, at \, 2kHz$

Features

- Two channels of five bands of full parametric equalisation with separate variable high and low pass filters in each channel.
- Switchable dual/mono operation, automatically by-passing unwanted controls in the single channel 10 band mode.
- 100% frequency overlap and a wide range of filter bandwidths for maximum flexibility.
- Individual Eq. In/Out switch with LED "Filter On" status indication for each parametric filter section and overall Eq. In/Out switch.
- Outstanding noise and distortion performance.
- Automatic fail safe by-pass facility.
- Comprehensive standard specifications include electronically balanced inputs and LED overload indicator.
- Earth lift switch enables signal and chassis grounds to be isolated, eliminating ground-loop problems.



PARAMETRIC EQUALISER

ARCHITECT'S AND ENGINEER'S SPECIFICATION

The dual channel equaliser shall provide five bands of fully parametric filters and separate tunable high & low cut filters for each channel.

Each equaliser filter shall provide 25dB of attenuation and 15dB of accentuation at continuously variable frequencies ranging from 20Hz-20kHz and shall allow for bandwidth adjustment from 1/12 to 2 octaves.

Each equaliser shall meet or exceed the following performance specifications:

Distortion Frequency response ±0.5dB (20Hz-20kHz)

<0.01% @ +4dBm (1kHz)

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

Noise

Maximum output levelinto 600 ohm

+22dBm

Each equaliser shall have adjustable low & high cut 12dB/octave slope filters ranging from 15Hz-300Hz & 2.5kHz-30kHz.

Stereo or mono operation of the unit shall be possible with all 10 filters available in mono mode.

Separate in/out switches shall be provided for each parametric filter section, and each complete equaliser channel.

The equaliser shall be failsafe, that is the unit shall return automatically to the by-pass condition in the event of power supply interruption.

Arear panel switch shall be provided to isolate the signal ground connections, quickly and safely, from the chassis ground.

All audio connections shall be via XLR style connectors and a tamperproof front panel cover shall be available to fit the unit.

The unit shall be capable of operating from a $110/220v \pm 12\%$ 50/ 60Hz AC power source.

The equaliser shall be the Klark-Teknik Dual Channel Model DN410 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

Inputs	Two
Туре	Balanced (electronically)
Impedance (ohm)	nol
Balanced Unbalanced	20k
Unbalanced	10k
Outputs	Two
Type	Unbalanced
Min. Load impedance	600 ohm
Source impedance	<60 ohm
Max. level	+22dBm
Performance	
Frequency response	
(20Hz-20kHz)	±0.5dB
Distortion (@ +4dBm)	<0.01% @ 1kHz
Equivalent input noise (20Hz-20kHz	
unweighted)	<-94dBm
Channel separation	>75dB@ 1kHz
Gain	+6dB
Overload indicator	+ 19dBu
Filters	
Туре	Parametric (2x5)
Bandwidth	Variable from
	1/12 ~ 2 octaves
Max. boost/cut	+15/-25dB
Frequency ranges	20Hz-200Hz/200Hz-2kHz/
	2kHz-20kHz
High Pass filter	15Hz-300Hz/12dB octave
Low Pass filter	2k5Hz-30kHz/12dB octave
Power Requirements	
Voltage	110/120/220/240V50/60Hz
Consumption	<15VA
Weight	
Nett	4.5kg
Shipping	7kg
Dimensions	
Width	482mm(19inch)
Depth	285mm(9¼inch)
Height	89mm (3½ inch)
Terminations	
Inputs	3 pin XLR
Outputs	3 pin XLR
Power	3 pin CEE
Options	Security cover
o puono	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.

