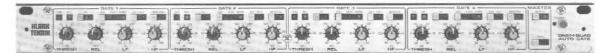
DN514 DYNAMIC PROCESSOR

Quad Auto Gate

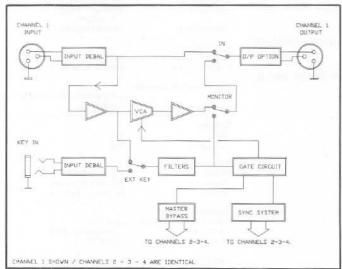
The DN514 is primarily designed for use in recording studios and sound reinforcement systems, but will find applications wherever high quality, "quick to set" audio gating is required. In all applications the engineer will appreciate the logical, uncluttered control format and the ability of the DN514 to perform its task simply and reliably. In live sound applications, as an additional benefit, the DN514 provides full frequency-conscious gating in half the rack space of any comparable unit.



 ${\it Advanced\,VCA\,circuit\,design\,offers\,extremely\,low\,noise\,and\,distortion\,performance\,to\,the\,DN514\,user.}$

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.



Block diagram

Features

- Four frequency-conscious high performance gates in one single unit of rack space.
- Optimised for fast set up and dependable triggering for every conventional gate application.
- With two semi-automatic Attack Modes and hold time automatically scaled to release value, the DN514 combines outstanding dynamic performance with simplified control.
- Unique sync function synchronises harmony parts, brass sections, etc., by interlocking all four gate release times.
- Advanced VCA design for low noise and distortion.
- Additional key inputs for each channel allow triggering from external sources.
- Side chain monitor function simplifies filter set-up.
- Threshold and release LED's provide visual information regarding gate status. Release contour indicated by release LED.
- Both Master and channel bypass switches are provided to aid set-up.
- The DN514 is sturdily constructed throughout and complies with standard 19" 1U rack mounting requirements.



DN514 DYNAMIC PROCESSOR

ARCHITECT'S AND ENGINEER'S SPECIFICATION

The noise gate shall provide four channels of frequency-conscious gating with each channel having adjustable low and high cut 12dB/octave side-chain filters, variable from 20Hz-5kHz and 80Hz-20kHz. Adjustable threshold and release controls shall be provided for each channel and attack time shall be semi-automatic and switch-selectable for use with normal or percussive programme material.

The noise gate shall meet or exceed the following specifications:

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

Frequency responsible Noise

<-100dBm gate closed (20Hz-20kHz unweighted)

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

Attack time Hold/Release time Maximum output level into 600Ω

 $50\mu \text{S-2mS}$ $40\text{mS-2}\,\text{secs}$

+21dBm

Push button switches shall be provided to select channel and master bypass, side chain monitor and external key input. Channel inputs and outputs shall be via XLR style connectors, external key inputs shall be via ¼" jack. A tamperproof front panel cover shall be available to fit the unit. The noise gate 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 noise gate shall be the Klark-Teknik Model DN514 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

Audio Inputs	Four
Туре	Balanced (electronically)
Impedance (Ω)	
Balanced	20k
Unbalanced	10k
KeyInputs	Four
Туре	Balanced (electronically
Impedance (\Omega)	
Balanced	20k
Unbalanced	10k
Audio Outputs	Four
Type	Unbalanced
Min. Load impedance	600Ω
Source impedance	<60Ω
Max. level	+21dBm
Performance	
Prequency response	
(20Hz-20kHz)	±0.5dB
Distortion (@ +4dBm)	<0.03% @ 1kHz
Equivalent input noise	<100dBm Gate closed
(20Hz-20kĤz	<-94dBm Gate open
unweighted Attack(programme	50μS to 200μS 'Perc'
related,	500µS to 2mS 'Norm'
semi-automatic	500µ3 to 21113 NOTTH
Hold/Release	Variable 40mS to 2S
Threshold	Variable -40dBm to
	+20dBm
Attenuation	>84dB Gate closed
Key Filters	
High pass filter	20Hz-5kHz/12dB octave
Low pass filter	80Hz-20kHz/12dB octave
Power Requirements	
Voltage	110/120/220/240V50/60Hz
Consumption	<30VA
Weight	
Nett	4kg
Shipping	6kg
Dimensions	
Width	482mm (19 inch)
Depth	292mm (11½ inch)
Height	44.5mm(1¾inch)
TICIBIT	**.SHIII (1741HCH)

3 pin XLR

3 pin CEE

1/4 inch stereo jack

Transformer input*/output

Security cover

balancing

Terminations Audioinputs/outputs

Key inputs

Power

Options

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



^{*} Input transformer balancing is non retrofittable and has to be specified with order.