



Compressor : The compressor section can be switched to provide either HARD or SOFT knee compression. In both the HARD and SOFT modes a Ratio control is available. In the SOFT mode the ratio increases gradually over a 10dB input level range until it reaches the ratio set on the front panel control, thus achieving a more natural sounding compression. In HARD mode the compressor provides a more precise means of controlling gain, where the ratio as set on the front panel is applied immediately the signal exceeds threshold. This is particularly useful in many broadcast applications. HARD knee compression can also be used creatively as an effect, particularly in the treatment of drum and guitar sounds, or for giving rock vocals a 'compressed sound'.

Auto Attack and Release : removes the need for manual adjustment by producing a response which constantly follows the dynamics of the signal. This enables the *ENK441* to preserve crisp transients without allowing excessive peaks to occur. A smooth yet lively recovery from compression minimizes side effects such as 'pumping' and 'breathing'. This feature is particularly valuable when the program being treated does not have predictable or consistent dynamics, such as complete mixes, vocals or 'slapped and pulled' bass guitar.

Peak Level Limiter : 'Zero Response Time', 'Zero Overshoot' circuitry provides an absolute limit to the peak level of the output signal, adjustable from 0dB to +16dB above system level. 'Zero Response Time' transparent limiting means that the *ENK441* provides complete protection from even the fastest and shortest signal overloads, making the unit ideally suited for speaker system protection in sound reinforcement applications. The sophisticated circuitry will also prevent unpleasant distortion when used for digital mastering.

Metering : Comprehensive bar graph displays give 'at a glance' indications of gain reduction, and input/output signal level. Gain reduction from 1dB to 30dB is shown simultaneously with signal level from 10dB to +10dB. When the channel is in BYPASS the output bar graph displays the input signal level. Other single LEDs indicate function status of Hard/Soft compression, Bypass, Peak Limiting, Linking, and Power on.

Bypass : A fully balanced hard-wire bypass connects the input directly to the output allowing signal to pass through the unit with no power applied.

Stereo Linking : Channels 1-2 and/or 3-4 can be stereo linked, where the left channel of the stereo pair becomes the master.

Operating Level : The operating level of the *ENK441* can be instantly switched, independently on each channel, for either +4dBu or -10dBu operation using a rear panel push switch.

Input/Output : The *ENK441* is provided with balanced inputs and outputs on XLR connections.



TECHNICAL SPECIFICATIONS

INPUT IMPEDANCE	20KOhm
MAXIMUM INPUT LEVEL	+21dBu (+17dB ref. +4dBu)
OUTPUT IMPEDANCE	50 Ohm
MAXIMUM OUTPUT LEVEL	+20dBu
BANDWIDTH	<12Hz to 35KHz -1dB
CROSSTALK	@10kHz Better than - 80 dB @20kHz Better than - 5 dB
OUTPUT BALANCE	Better than 40dB 20Hz to 10kHz
INPUT CMR	Better than 40dB 20Hz to 10kHz
POWER REQUIREMENTS	230Volt at 50-60Hz, (13 W atts)

NOISE AT UNITY GAIN reference +4dBu

	Wideband	22Hz - 22KHz	CCIR ARM	IEC A	Q-Pk CCIR
AV	-90dB	-98dB	-99dB	-100dB	-88dB
RMS	-89dB	-96dB	-97dB	-98dB	

DISTORTION

	100Hz	1KHz	10KHz
Unity Gain, +4dBu Input	< 0.02%	< 0.015%	< 0.035%
+14dBu Input, 10dB G.R.	< 0.3%	< 0.1%	< 0.1%

WEIGHT 3.4 Kg.