



Frequency Sensitive : The provision of variable Low-Pass and High-Pass Filters allows without compromise frequency selective gating. The unit can be switched for either Internal or External Key source and the *KEY LISTEN* facility enables monitoring of the filter setting.

Hard/Soft Gating : Each channel of the *ENG404* can be operated as a HARD or SOFT gate, providing quite different characteristics. Two coloured LEDs clearly indicate mode status. In the HARD mode the DS404 offers ultra-fast response time, stable triggering with complete freedom from chatter around threshold and a specialized release contour which is ideally suited to drums and other percussive material. In the SOFT mode the *ENG404* becomes a versatile Expander capable of handling vocals and sub mixes. Drawmer's unique 'Programme Adaptive' circuitry is used to optimise the attack time and ratio as well as having some effect on the manual release setting . A more gentle release characteristic is utilized to complement the SOFT gate.

Threshold : A fully variable threshold control provides a range from +20dB to -70dB.

Release Control : A fully variable release control is provided with times from 10 ms to 5 sec to ensure that essential envelope control is not sacrificed in exchange for an economy in rack space.

Attenuation Range : The *ENG404* has switchable attenuation between 90dB and 20dB to allow for applications where a complete mute is not desired.

Chain Linking : Operating the LINK control switches the channel on the right to SLAVE operation, where its gating mode, threshold and envelope characteristics are controlled by the MASTER (left) channel. Any adjacent three channels or two stereo pairs can be linked in this way for use in any conceivable situation where linking may be required.

LED Displays : Drawmer's familiar tri-colour LED display is once again utilized as the optimum method for indicating the envelope status for each channel.

Input/Output : The *ENG404* is provided with balanced inputs and outputs on XLR connections



TECHNICAL SPECIFICATIONS (All measurements reference +4dBu operating level)

INPUT IMPEDANCE	20KO (Balanced)
KEY INPUT IMPEDANCE	20KO (Unbalanced)
MAXIMUM INPUT LEVEL	+21dBu
MAXIMUM KEY INPUT LEVEL	+21dBu
OUTPUT IMPEDANCE	50 Ω (Balanced)
MAXIMUM OUTPUT LEVEL	+21dBu
BANDWIDTH	<10Hz to 2-2KHz -1dB
FLOOR LEVEL	90dB, (or 20dB)

ATTACK TIME	Minimum		Max mum
Hard	< 10 1S		
Soft	100 mS		1 mS
RELEASE TIME	Minimum		Max mum
Hard	10 mS		> 5 Sec
Soft	100 mS		5 Sec
DISTORTION	100Hz	1KHz	10KHz
Gate Open with +4dBu input	< 0.04%	< 0.04%	< 0.04%

CASE SIZE

482mm (w) x 44mm (h) x 175mm (d)

WEIGHT

3.7 Kg.