

Drawmer



D S 4 0 4
q u a d n o i s e g a t e

ingenuity (ˌɪndʒɪˈnjuːɪti) *n.*, *pl.* **-ties.** 1. inventive talent; cleverness. 2. an ingenious device, act, etc.

The DS404 Quad Noise Gate has been designed to the highest specification to complement both the DS201 Dual Noise Gate, acknowledged as the 'industry standard' gate throughout the world, and the more recently introduced DS301 MIDI/Expander/Gate which provides greater refinement, extra facilities and 'unique', comprehensive MIDI control.

Recognising that there are many general gating applications which require equipment that is simple to operate and which occupies the minimum of rack space, Drawmer have designed the DS404 Quad Noise Gate utilising new and unique 'Programme Adaptive' circuitry. This makes the DS404 ideally suited for use over a wide range of input signals, ranging from drums and other percussive instruments through to vocals, pianos and even complete mixes.

Facilities available on the DS404 include:

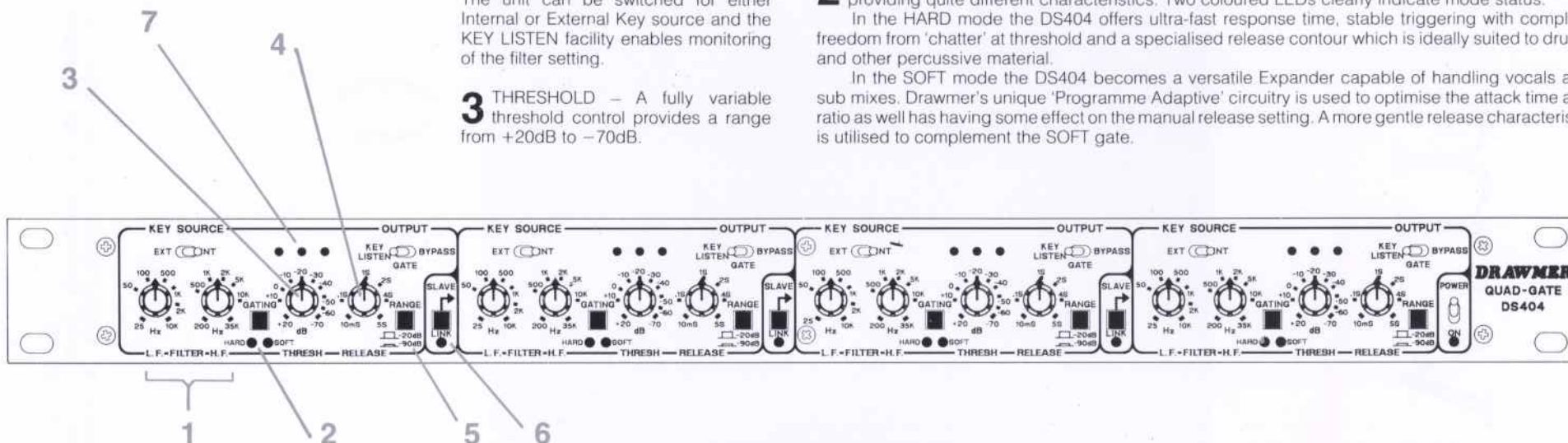
1 FREQUENCY SENSITIVE – The provision of variable Low-Pass and High-Pass Filters allows 'without compromise' frequency selective gating. The unit can be switched for either Internal or External Key source and the KEY LISTEN facility enables monitoring of the filter setting.

3 THRESHOLD – A fully variable threshold control provides a range from +20dB to -70dB.

2 HARD/SOFT GATING – Each channel of the DS404 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' at threshold and a specialised release contour which is ideally suited to drums and other percussive material.

In the SOFT mode the DS404 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 utilised to complement the SOFT gate.



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

5 ATTENUATION RANGE – The DS404 has switchable attenuation between -90dB and -20dB to allow for applications where a complete mute is not desired.

6 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. All four channels, 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.

7 LED DISPLAYS – Drawmer's familiar tri-colour LED display has once more been utilised as the optimum method for indicating the envelope status for each channel.

● INPUT/OUTPUT – The DS404 is provided with balanced inputs and outputs on XLR connections.

TECHNICAL SPECIFICATION: (All measurements reference +4dBu operating level)

Input/Output Connections:	XLR (Balanced)	Noise: (ref 0dB)			
Input Impedance:	20KΩ (Balanced)	Wideband	22Hz-22KHz	CCIR ARM	IECA
Key Input Impedance:	20KΩ (Unbalanced)	AV	-87dB	-93dB	-96dB
Maximum Input Level:	+21dBu	RMS	-85dB	-92dB	-95dB
Maximum Key Input Level:	+21dBu	Distortion: (Unity Gain, +4dBu input)			
Output Impedance:	50Ω (Balanced)	100Hz	<0.05%	1KHz	10KHz
Maximum Output Level:	+21dBu		<0.05%		<0.05%
Bandwidth:	<10Hz to 22KHz (-1dB)	Power Requirements:	115V or 230V at 50-60Hz, 15 Watts		
Crosstalk:	80dB @ 10KHz				

PRESENTED BY:

Contact your DRAWMER dealer for further information about other DRAWMER products.

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Drawmer Distribution Ltd.,
Charlotte Street Business Centre,
Charlotte Street, Wakefield,
West Yorkshire, WF1 1UH England.
Tel. +44 (0) 1924 378669
Fax. +44 (0) 1924 290460
sales@drawmer.co.uk
www.drawmer.com