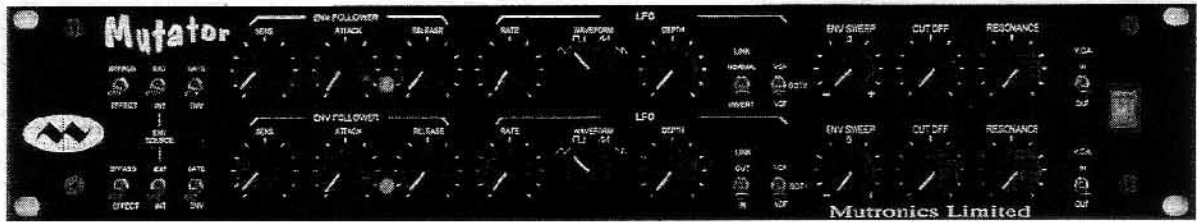


Mutator



The Mutator is a stereo analogue filter and envelope follower with full control facilities. It contains two independent voltage controlled filters similar to those found in analogue synthesizers, which can be used to treat any external sound source. Each filter can be controlled from its own associated low frequency oscillator (LFO) and/or its own envelope follower section, which extracts the envelope contour of an input signal and applies it to control the cut-off frequency of the filter.

Each envelope follower can be switched to track either the envelope of the sound that is being treated by the filter, or that of an independent external control signal. This external control signal can be any audio source, eg. a drum sound, a guitar, a synth, a sampler output, or even a microphone. Thus the envelope characteristics of one sound can be superimposed onto the filtering contour of another.

Another switch on the envelope follower selects envelope follow mode or gate mode - in which the circuit detects whether a signal is above a certain threshold level before switching on.

In gate mode, the device can operate much like a dedicated noise gate unit, with the added capabilities of the analogue filters.

The LFO's have four different sweep waveforms each and may be switched via a stereo link to produce stereo panning effects.

Specifications

Audio

Input Impedance:	47k ohms unbalanced
Normal output level:	0dB (0.775vRMS)
Frequency response (filter in):	10Hz - 18kHz
Signal to noise ratio:	88dB
Distortion:	0.012% THD
CV Attenuation:	60dB
Filter Slope:	24dB per octave

Rear Panel Connections

Signal:	Unbalanced input jack Unbalanced external control-input jack Unbalanced output jack Control voltage input jack
Midi:	Midi In Midi Thru
Power:	240/110V ac 50-60Hz, IEC inlet Fuse 500mA slow blow

Front Panel Controls

EFFECT/BYPASS switch:	selects effect
ENVELOPE SOURCE switch:	sets internal or external control source
ENVELOPE/GATE switch:	selects envelope follower of gate mode
SENSITIVITY control:	-25dB - infinity
ATTACK control:	0-2seconds
RELEASE control:	0-5 seconds
ENVELOPE LED:	brightness follows envelope curve
RATE control:	LFO rate 25 seconds - 5 milliseconds
WAVEFORM control:	LFO waveforms - triangle, square, ramp up & ramp down.
DEPTH control:	LFO depth
LINK NORMAL/INVERT switch:	inverts LFO
LINK IN/OUT switch:	links LFO
VCA/BOTH/VCF switch:	routes LFO
ENVELOPE SWEEP control:	positive and negative filter sweep.
CUT-OFF FREQUENCY control:	Filter cut-off frequency
RESONANCE control:	filter resonance level.
VCA IN/OUT switch:	bypass VCA

Physical

Dimensions & Weight:	88mm(h), 483mm(w), 280mm(d) 6.5kg
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WS
SYSTEM
WAVES

Distribution :

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