

Acrobatics MATE VST Instrument Legal Notes:

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Support for Acrobatics products: acrobatics@blank-media.it

Acrobatics MATE (version 1.0.6 - 23/7/2014)

A hands-on, simple desktop musicians friend, inspired by synthesizers of the seventies and eighties: produces original synth tones and reproduces strings pianos, basses, organs and bells patches with ease, but it can also explore wild and spacey atmos using its flexible modulation options and smart programming.

Tech notes:

32bit ultra-optimized code, zero latency, samplerate independent engine,
all sample rates supported. Each control is fully recordable and automatable in host.
Most knobs & switches receive external MIDI control changes.

Overview on synth sections:

MODULATOR

Controllable powerful LFO with selectable Square, Ramp/Saw, Sinus waveforms, positive and negative modulation options on oscillators and filter, linear attack and release modulation times.

SOURCE MIXER

User mixable waveforms for additive synthesis as in original seventies synthesizers:

- 1- Square wave, with level slider.
- 2- Saw wave, with level slider.
- 3- Sub wave (-12,-24,-36 transposition options) with 3 waveforms selection: square, saw or sine, with level slider.
- 4- ARP style Noise generator, with level slider

FILTER

24db LowPass filter (ala Reaktor algorithm coded DSP) for powerful subtractive synthesis, natural resonance, controllable via MIDI, 4-stage envelope, polyphonic keytrack and LFO modulation section.

ENVELOPE

4-stage full linear envelope to control oscillators and filter section, switchable modes for flexible amplification via an auxiliary gate or using the modulation section times.

Overview on controls:

CC	FRONT view	anti-clock-wise	clock-wise
02	MOD - Modulation speed	(zero at centre)	min
14	ATT - Modulation attack time	1 ms	2 secs
15	REL - Modulation attack time	1 ms	2 secs
03	DPT - Depth of LFO modulation	negative max	positive max
18	PUL - Pulse waveform level	zero	max
19	SAW - Sawtooth waveform level	zero	max
20	SUB - Sub waveform level	zero	max
21	NSE - Noise waveform level	zero	max

06	CUT - Cutoff level	close	open
08	RES - Resonance level	zero	max
09	ENV - 4-stage envelope cutoff modulation (zero at centre)	negative max	positive max
12	MOD - LFO filter cutoff modulation (zero at centre)	negative max	positive max
13	KEY - Keytrack filter cutoff modulation (zero at centre)	negative max	positive max
CC	BACK or HIDDEN view	min	max
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	PITCHBEND RANGE - Pitchbend wheel extension	range Arabic 25, Semitone, Arabic 75, Overtone, Arabic 125, Third Minor, Third Major, Fourth Just, Hexatone, Dominant, 6th Minor, 6th Major, Undertone, Sensible Octave 1X, Octave+1, Octave+5, Octave+7, Octave 2X, Octave 3X, Octave 4X.	
	ENV MODE - Envelope mode selection	Mono Retrigger Monolegato Polyphonic (16 voices)	
	SUB WF - Sub waveform selection	Square Saw Sine	
01	VIBRATO DEPTH - Dedicated Vibrato LFO	zero	top
16	VIBRATO SPEED - customizable speed	minimum	maximum
04	KEYboard TRANSPOSE - affects all waveforms	-24	+24
50	REFerence NOTE KEY - affects pendance of keytrack	-24	+24
51	ENVelope KEYTRACK - pendance of 4-stage envelope	zero	maximum
52	GAIN FACTOR - saturation effect at the outputs	minimum	maximum
64	LEGATO - affects monomode envelope retriggering	Off	On

Copyright notes:

Original audio design and development by Andrea Capanna, Rome, Italy

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Version 1.0.6:

- First official released through KVR Developer Challenge competition edition 2014.