Disting MK4 ÚLTIMO Cheat Sheet

by Patricio Pretti (P470pa) via cheatography.com/138069/cs/44155/

A1 Precision Adder

Z	offset (+/- 10V in 1V steps)
A	X + Y + offset, or X + offset
B	X – Y – offset, or Y ± offset
0	Z Mode
1	Sum Mode
2	Divisor
3	Modulo
4	Slew

A4 Minimum/maximum

Z	gate (>2.5V, "HI"; <-1.5V, "LO")
A	min(X,Y)
B	max(X,Y)

A6 Quantizer

Z	scale, function of Y
X	input CV, 1V/Oct
Y	Z > 0, transpose; Z < 0, trigger
A	quantize(X)
B	trigger on note change
0	-1/31 - input X attenuation
1	0/1 - transpose mode
2	-31/31 - key
3	0/31 - offset
4	MIDI Gate
5	Transpose
6	MIDI Mode

B1 Sample and Hold

Z	slew rate
A	X when Y exceeds 1V
B	noise ±8V
0	Mode
1	Offset
2	Noise colour
2.0	Violet
2.1	White
2.2	Pink
2.3	Red

B1 Sample and Hold (cont)

3	Noise X
4	Atten B
5	Up slew
6	Down slew

B2 Slew Rate Limiter

Z	slew rate	
A	linear slew rate limited (X + Y) or X	
B	log slew rate limited (X + Y) or Y	
0	Up slew	
1	Down slew	
2	Type A	
	0	Linear
	1	Logarithmic
3	Type B	
	0	Linear
	1	Logarithmic
4	Mode	
	0	Outputs A & B are both based on the sum of X + Y
	1	A is based on X, and B is based on Y

MODELO

Z
X
Y
A
B
0
1
2
3
4

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MODELO (copy)
Z
X
Y
A
B
0
1
2
3
4

MODELO (copy)
Z
X
Y
A
B
0
1
2
3
4

MODELO (copy)
Z
X
Y
A
B
0
1
2
3
4

B7 VCO with linear FM		
Z	tune ±0.5 octaves	
X	V/Oct pitch input	
Y	linear FM input	
A y B	selectable output waveforms	
0	Octave shift	
1	Sets an attenuation for output A	
2	Sets an attenuation for output B	
3	Type A	
	0	Triangle
	1	Sine
	2	Square
	3	Saw
	4	Sub-octave square
	5	MIDI gate
4	Type B	
5	Fine tune/enable sync	

B6 Clockable LFO	
Z	integer multiplier/divider
X	clock input
Y	waveshape
A	saw -> sine -> triangle
B	pulse -> square -> pulse
0	Output A attenuverter
1	Output B attenuverter
2	Y Offset

B5 LFO	
Z	tune
X	Hz/V frequency
Y	waveshape
A	saw -> sine -> triangle
B	pulse -> square -> pulse
0	Sets an attenuation for output A
1	Sets an attenuation for output
2	Sets an offset for output A
3	Sets an offset for output B

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B5 LFO (cont)

4	Y offset

A2 Four Quadrant Multiplier

Z	scale (1/10 to 10x)
A	X . Y . scale
B	-X . Y . scale
0	Z Mode (0, 1)
1	Y Offset (±20)

A3 Full-wave Rectifier

Z	mode (-0: independent, 0: combined)
A	abs(X + Y) or abs(X)
B	abs(X - Y) or abs(Y)

A5 Linear/Exponential Converter

Z	scale (Hz/V, centered on 1kHz)
A	(2^X) * scale
B	log2(Y/scale)

A7 Comparator

Z	hysteresis
A	gate from X > Y
B	inverted gate
0	X Offset
1	Y Offset

A8 Dual Waveshaper

Z	gain
A	shaped X
B	shaped Y
0	Type A
1	Type B
2	X offset
3	Y offset
4	Mix A
5	Mix B

B3 Pitch and Envelope Tracker

Z	slew rate for envelope
A	V/octave pitch derived from X, plus Y
B	envelope derived from X

B4 Clockable Delay/Echo

Z	feedback	
X	signal	
Y	clock input	
A	output according to mode	
B	output according to mode	
0	Delay time multiplier	
	-15	1/64
	-14	1/48
	-13	1/32
	-12	1/24
	-11	1/16
	-10	1/12
	-9	1/8
	-8	1/6
	-7	3/16
	-6	1/4
	-5	5/16
	-4	1/3
	-3	3/8
	-2	1/2
	-1	3/4
	0	x1
	1	x1.5
	2	x2
	3	x3
	4	x4
	5	x5
	6	x6
	7	x8
	8	x16
1	Output mode	
	0	A is mix; B is delay only

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B4 Clockable Delay/Echo (cont)		
	1	A & B are mix
	2	A & B are delay only
2	Mix	
3	Feedback	
4	MIDI clock divider	
	0	MIDI clock off
	1	1/32
	2	1/16 triplet
	3	1/16
	4	1/8 triplet
	5	3/32
	6	1/8
	7	1/4 triplet
	8	3/16
	9	1/4
	10	1/2 triplet
	11	3/8
	12	1/2
	13	1/1 triplet
	14	3/4
	15	1/1

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