Bank 1-a

1-a Precision Adder 	1-b Four Quadrant Multiplier 	1-c Full-wave Rectifier 	1-d Minimum Maximum 
Has knob recorder Parameters 0: Z smooth or integers	Has knob recorder Parameters 0: Z smooth or integers		
Z Offset	Z Scale	Z Mode	Z Gate
X Input	X Input	X Input	X Input
Y Input	Y Input	Y Input	Y Input
A X + Y + Z	A X * Y * Z	A abs(X + Y) abs(X)	A min(X, Y)
B X - Y - Z	B -X * Y * Z	B abs(X - Y) abs(Y)	B max(X, Y)
2-a Linear/ Exponential Converter 	2-b Quantizer 	2-c Comparator 	2-d Dual Waveshaper  Has knob recorder
Z Tune	Z Scale & Mode	Z Hysteresis	Z Gain
X Exp In	X Input	X Input	X Input
Y Linear In	Y Transpose Trigger In	Y Input	Y Input
A Linear Out	A Quantized	A X > Y	A Folded X
B Exp Out	B Trigger	B X < Y	B Shaped Y

Bank 1-a

3-a Sample and Hold 	3-b Slew Rate Limiter 	3-c Pitch & Envelope Tracker 	3-d Clockable Delay/Echo 
Press Z to trigger			Has tap tempo
Z Slew rate	Z Slew rate	Z Slew rate	Z Feedback
X Input	X Input	X Audio In	X Audio In
Y Trigger	} summed Y Input	Y Offset A	Y Clock
A Sampled X	A Linear slew	A V/Octave	A Dry+delay
B Noise	B Log slew	B Envelope	B Delay only
4-a LFO 	4-b Clockable LFO 	4-c VCO with Linear FM 	4-d VCO with waveshaping 
0: Attenuation A 1: Attenuation B 2: Offset A 3: Offset B	Has tap tempo Parameters 0: Attenuation A & B	Parameters 0: Octave shift 1: Attenuation A 2: Attenuation B	Parameters 0: Octave shift 1: Attenuation A 2: Attenuation B
Z Tune	Z Multiplier	Z Tune	Z Tune
X Hz/V In	X Clock	X V/Octave	X V/Octave
Y Waveshape	Y Waveshape	Y Linear FM	Y Waveshape
A Saw/Sin/Tri	A Saw/Sin/Tri	A Sine	A Saw/Tri/Saw
B Square	B Square	B Saw	B Square

Bank 1-b

1-a Voltage Controlled Delay Line  Parameters 0: Y offset Z Feedback X Audio In Y Delay Time A Delay only B Dry+delay	1-b 	1-c 	1-d 
2-a Resonator  Push Z for 'strike' Z Gain X Audio In Y V/Octave A Audio Out B Envelope	2-b 	2-c Phaser  Parameters 0: Y offset 1: Number of stages Z Feedback X Audio In Y Sweep A Dry+phase B Phase only	2-d 

Bank 1-b

3-a	3-b Tape Delay	3-c	3-d State Variable Filter
	Parameters 0: Tape length		Parameters 0: Filter resonance
	Z Feedback		Z Filter Type
	X Audio In		X Audio In
	Y Tape speed		Y V/Octave
	A Dry+delay		A LP/BP/HP
	B Delay only		B HP/BP/LP

4-a LP/HP Filter	4-b LP/BP Filter	4-c BP/HP Filter	4-d BP/Notch Filter
Z Resonance	Z Resonance	Z Resonance	Z Resonance
X Audio In	X Audio In	X Audio In	X Audio In
Y V/Octave	Y V/Octave	Y V/Octave	Y V/Octave
A Low pass	A Low pass	A Band pass	A Band pass
B High pass	B Band pass	B High pass	B Notch

Expert Sleepers disting mk3 Quick Reference Guide

For firmware v3.1

X, **Y** and **Z** are **Inputs**.
A and **B** are **Outputs**.

Changing Algorithm

Either:

- Push 'S' and hold in while turning, or
- Use the menu:
  - Press 'S' twice
  - Turn to select algorithm
  - Press to accept

Changing Bank

- Press 'S' (to enter the menu)
- Turn to select '2' (change bank)
- Press to accept
- Turn to select bank
- Press to accept

Parameters

Turn 'S' to modify the currently selected parameter.
Press 'Z' to cycle between parameters (if the current algorithm has more than one parameter).

Tap Tempo

If available – press 'Z'. The time between two presses defines the delay/LFO/etc. time.

Knob Recorder

If available – push 'Z' and hold in while turning. Release to begin playback. Turn 'Z' to stop playback and regain manual control.

Menus

Press 'Z' to cancel menu mode.