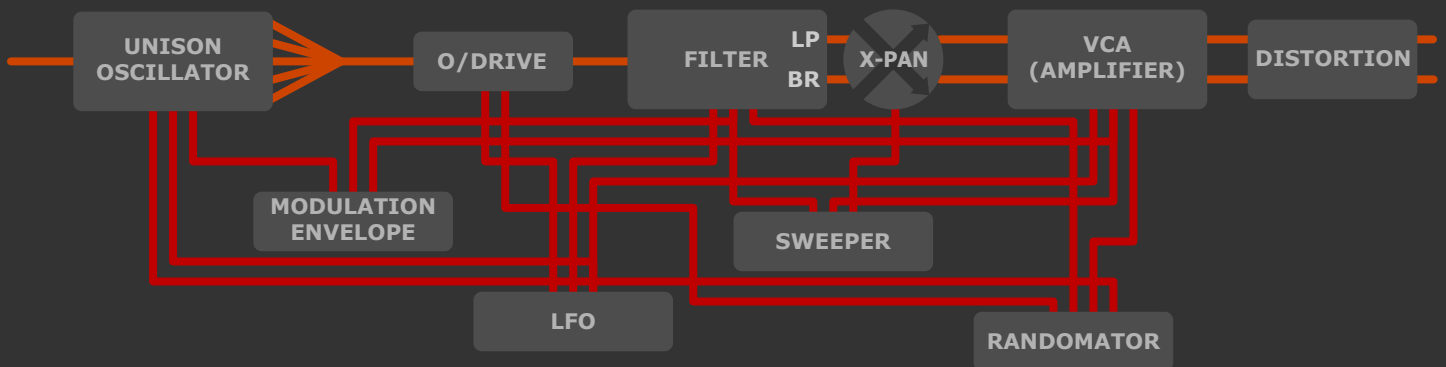




**RIPSNORTER** is a Virtual-Analogue [V/A] synth, featuring Chris Kerry's excellent Unison Oscillator, which has recently been updated to include PWM on all waveforms except Sine. The Oscillator feeds into a multi-mode filter that provides both Low-Pass and Band-Reject [Notch] outputs at the same time. X-Pan allows for a stereo signal path, with the Low-Pass output sent to one channel and Band-Reject to the other. There are plenty of modulation options which should allow you to create a broad range of useful timbres. The UI is slightly different from others in this range, in order to fit in a more comprehensive distortion set-up.



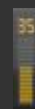
## UI CONTROLS

**SELECTOR** - Click on the arrow to increment through choices or click on the display to select from a drop-down menu.



**KNOBS** - Change the value of any knob by clicking on it and dragging up/down. In the case of concentric knobs, click on the one you wish to change. i.e. The whole inner circle or the outer ring.

**BUTTON [LED]** - In the labelled state when lit.



**SLIDER** - Only used on Envelopes. Drag up/down to change values.

**SELECTOR** - Click to advance to next option

## CONTROLS

### OSCILLATOR

**OCT** -2 [no lights] to +1 octaves [3rd light]

**WAVE** Click to select a waveform

<b>SINE</b>	Sine [no PWM]
<b>SAW</b>	Sawtooth
<b>RMP1</b>	Ramp
<b>RMP2</b>	Soft Ramp
<b>RMP3</b>	Peak Ramp
<b>PULS</b>	Pulse
<b>TRI</b>	Triangle
<b>PEAK</b>	Peak
<b>OCTA</b>	Octava [good for organs]
<b>CLU1</b>	Cluster 1
<b>CLU2</b>	Cluster 2

**PWIDTH**

Controls Pulse Width  
Inner knob sets width  
Outer knob sets variation within Unison voices for a fatter sound

**PWM**

Envelope modulation of Pulse-Width

**SYNC**

Syncs waveform start to Note On

**DRIVE**



Overdrives the oscillator's output

**UNISON**

Inner knob sets the no. of Unison Voices.  
Outer knob controls Unison Detune.  
Small knob controls Unison Stretch.

## CONTROLS continued...

### ENVELOPE

<b>A</b>	Attack Time
<b>D</b>	Decay Time
<b>B</b>	Break Point Level
<b>S</b>	Slope Time
<b>S</b>	Sustain Level
<b>R</b>	Release Time
	Select from 4 Interpolation modes: No Lights <b>LINEAR</b> Light 1 <b>CONCAVE 1</b> Light 2 <b>CONCAVE 2</b> Light 3 <b>"S" CURVE</b>
	Select from 4 Loop Modes: No Lights <b>OFF</b> Light 1 from <b>START</b> Light 2 from <b>DECAY</b> Light 3 from <b>BREAK POINT</b>

**NOTES:** Envelope times for this envelope are longer than for the **VCA** Envelope.

For smooth looping, either loop the whole envelope [Light 1] and set Sustain at zero or start the loop from the Decay Segment [Light 2] and set the Sustain value at maximum. Other settings are likely to cause audible clicks.

### FILTER

<b>LP24</b>	Switch the Low-Pass Filter from 12 to 24dB/octave mode
	<b>CUTOFF</b> [Inner] and <b>RESONANCE</b> [Outer] Knobs are unlabelled.
<b>MOD</b>	Inner knob controls Envelope Modulation Outer knob controls Velocity Modulation
<b>LP</b>	Controls Low-Pass Filter Level [volume].
<b>BR</b>	Controls Band-Reject [notch] Filter Level.
<b>X</b>	Controls the X-Pan function. <b>X-Pan</b> uses the <b>SWEEPER</b> [see below] to modulate the stereo position of each Filter output [Low-Pass and Band Reject] in opposite directions. i.e. One pans from left to right, the other right to left. X-Pan has an ON switch and a Depth knob.

**NOTE:** Using X-Pan will automatically switch the **SWEEPER** LFO on and will set-up a stereo signal path inside the instrument. This can lead to higher CPU use than normal, so switch the X-Pan off if you do not intend to use it.

### VCA

<b>VOL</b>	Master Volume control Outer knob controls Velocity Modulation.
<b>WIDE</b>	Inverts one channel to create space in the centre of the mix
<b>PORTAMENTO</b>	Portamento time [Legato only]
<b>A D S R</b>	ADSR envelope with linear interpolation.

### LFO

<b>WAVE</b>	Select the LFO waveform: <b>SINE</b> <b>TRIANGLE</b> <b>SAW</b>  <b>RAMP</b> <b>SQUARE</b> <b>RANDOM</b>
<b>TIME</b>	[Unlabelled] Inner knob selects Time from 1/16 note to 2 bars. Outer knob sets the delay time.
<b>DESTINATION</b>	x 2 - Knob controls modulation depth Modulation range +/- 50% Negative values invert LFO phase.

### RANDOMATOR

Adds a random factor to the selected parameter for each new note played. Use the Selector to set a destination and the knob to control the depth of the randomness.

### SWEEPER

The SWEEPER is a specialised LFO, designed for longer, sweep-style modulation. As well as having its own controls, it is used by the **X-Pan** function in the Filter.

<b>TIME</b>	[Unlabelled] Set the LFO period from 1 bar to 16 bars.
<b>DESTINATION</b>	[Unlabelled] No Light SWEEPER is off [no CPU use] Light 1 to Oscillator FM Light 2 to Filter Cutoff Light 3 to both FM and Cutoff
<b>DEPTH</b>	Controls modulation depth [+/-]
<b>DISTORTION</b>	
<b>DRIVE/MIX</b>	Inner controls Drive Outer controls Wet/Dry Mix
<b>HIGH/LOW</b>	Inner controls Low Cut Outer controls High Excite

### MOD WHEEL

Select multiple destinations and use the **SENSitivity** knob to control the modulation depth. **PWM**, **DRIVE**, **CUT**, **BR** and **DIST** add extra modulation. When the **LFO** light is lit, LFO modulation is fully controlled by the Mod Wheel and the Destination knobs in the LFO itself set the maximum depth.

### GLOBAL

<b>MONO</b>	Monophonic operation [no Unison]
<b>RETRIGGER</b>	Retriggers all envelopes for each new note - Mono mode only

## MIDI CC TABLE

### PD OSCILLATOR

PARAMETER	CC	PARAMETER	CC
Waveform	21	OCTave	22
Pulse Width	23	PW Variation	24
PWM [env]	25	Drive	26
Sync	28		

### UNISON

Voices	31	Detune	32
Stretch	33		

### FILTER

PARAMETER	CC	PARAMETER	CC
Cutoff	13	Resonance	14
LP Gain	15	BR Gain	16
Envelope Mod	17	Velocity Mod	18
LP24 On/Off	19	Env -> BR Gain	20
X-Pan ON	10	X-Pan Depth	11

### VCA

PARAMETER	CC	PARAMETER	CC
VOLUME	07	PORTamento	05
Velocity to VOL	45	WIDE On/Off	46
Attack	41		
Decay	42		
Sustain Level	43		
Release	44		

### RANDOMATOR

PARAMETER	CC	PARAMETER	CC
Destination	105	Depth	106

### MODULATION ENVELOPE

PARAMETER	CC	PARAMETER	CC
Attack	61	Interpolation	67
Decay	62	Looping	68
Break-Point	63		
Slope	64		
Sustain Level	65		
Release	66		

### LFO

PARAMETER	CC	PARAMETER	CC
WAVEform	51		
Time	52	Delay	53
Destination 1	54	Depth 1	55
Destination 2	56	Depth 2	57

### SWEEPER

PARAMETER	CC	PARAMETER	CC
Time	71	Mode	72
Depth	73		

### DISTORTION

PARAMETER	CC	PARAMETER	CC
On/Off	111	Drive	112
Wet/Dry Mix	113	High Excite	114
Low Cut	115		

### MOD WHEEL

PARAMETER	CC	PARAMETER	CC
PWM On/Off	81	Drive	82
CUToff On/Off	83	BR On/Off	84
LFO On/Off	85	Distortion On/Off	86
Sensitivity	87		
MONO On/Off	08	RETRIGGER On/Off	09

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