

## Electrons Synthesizer | Skrock Music



- 3 oscillators with its own unison / wave shift module. Up to 6 voices per note with a total of 48 voices per patch.
- 3 Band key-tracked per voice EQ with modulation capabilities for sound shaping and patch equalizing.
- Waveshaper with pre / post routing capabilities and three curve types, Clip, Sine, Tanh.
- Three fully featured multimode filters (one per oscillator) for advanced sound design.
- Global Filter control for fast editing of the three filter modules.
- 3 sixteen step Sequencers with drawable displays.
- 3 Envelopes with Curve, Scale and Rate controls.
- 3 LFOs with 7 shapes. Sine, Triangle, Square, Saw, Exp Saw, Random and Drift.
- Key-track, Unipolar and Gate controls on each LFO.
- Matrix module with up to eight modulations and CV inputs.
- Ability to target each matrix slot to different sections: Global, Osc 1, Osc 2, or Osc 3.
- Glide Delay feature. Times the interval between notes and applies Glide automatically.
- Phase retrigger and sound image (width) controls.
- FX sections with Bitcrush, Unison Delay (delays the unison voices), Delay and Chorus.

## Oscillator Module



### Osc Controls

Waveform Select	15 categorized waveforms
Octave	
Semi	
Cent (Fine Tune)	

### Unison Controls

Unison On	Adds a second voice to the oscillator
Width	Spreads the two voices left and right
Detune	Detunes the two voices
Shift	Alters and offsets the waveform shape

### Summary

The waveforms are categorized in five sections: Basic, Mixed, Blocks, Harmonics, Digital Noise. The Shift control alters each waveform in different ways, when in Unison mode, the Shift control offsets the waveform shape between the two voices, creating completely new waveforms, or maximizing the stereo sound image.

## 3 Band EQ Module



### EQ Controls

Band 1 Peak Width

Band 2 Peak Width

Band 3 Peak Width

Band 1 Gain

Band 2 Gain

Band 3 Gain

EQ Shift

Shifts the frequency of all 3 bands simultaneously

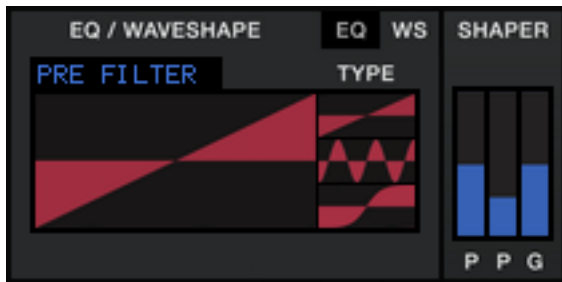
Band Space

Alters the frequency spacing between each band

### Summary

The 3 Band EQ can change the timbre of your sound, act as an equalizer to further improve a patch, create formant style sounds, and beyond. The EQ Shift can also be controlled via the Matrix and its modulation sources.

## Wave Shaper Module



### Shaper Controls

On / Off and Routing	Disable the shaper or route it pre / post the Filter Module
Shaper Type	Clip, Sine, Tanh
Pre Filter Shaper Drive	
Post Filter Shaper Drive	
Shaper Gain	Controls the overall shaper output

### Summary

The sound can be altered dramatically depending on the selected shaper curve type, how the shaper is routed, and how much drive is applied. Post filter mode also includes being post the 3 Band EQ.

## Filter Module



### Filter 1 Controls

**These controls only affects Oscillator 1**

Filter 1 Filter Mode

LP24, LP18, LP12, LP6, BP, HP

Filter 1 Frequency

Controls the frequency (20Hz - 20kHz)

Filter 1 Resonance

Filter 1 High-Pass

Key-tracked High-Pass for sound shaping

Filter 1 Low-Pass

Key-tracked Low-Pass for sound shaping

Filter 1 KBD

Filter frequency key-track amount

### Filter 2 Controls

**These controls only affects Oscillator 2**

\*same controls as above but affects Oscillator 2

### Filter 3 Controls

**These controls only affects Oscillator 3**

\*same controls as above but affects Oscillator 3

### Global

The global filter panel has two controls.

Frequency

Offsets Filter 1 / 2 / 3 Frequency

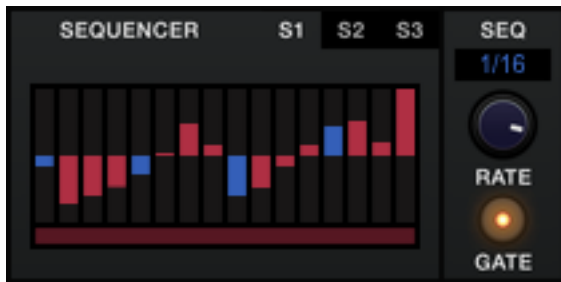
Resonance

Offsets Filter 1 / 2 / 3 Resonance

### Summary

All three oscillators has its own fully featured filter, this opens up for advanced sound design. The global filter controls allows for a more traditional filter experience, while also acting as offsets to Filter 1 / 2 / 3 when going deeper in per oscillator filter editing.

## Sequencer Module



### Sequencer Controls

3 sequencers available

Display with 16 drawable steps

Sequencer play length control

Synced Rate control

Gate on / off (Retrigger)

## Modulation Matrix

MODULATION MATRIX			M1	M2
SOURCE	AMT	DESTINATION	TARGET	
Sequencer 1	57	EQ Shift		
Sequencer 1	100	Filter Freq	Osc 1	
LFO 1	45	Filter Freq		
Envelope 2	100	LFO 1 Rate	Osc 3	

### Modulation Matrix

8 modulation slots split into two pages

Modulate modulation sources (Env to LFO rate)

CV inputs available as modulation source

Target each modulation to the entire synth, or to specific oscillators

## Voice / Phase / Image Module



### Voice / Phase / Image Controls

Glide Mode	On / Auto (Legato)
Glide Delay	Times the interval between notes and applies Glide automatically
Poly/Mono Mode	
Osc Phase Retrigger	Retriggers the phase of the oscillator waveforms
Bend-Range	Pitch Wheel bend range from 1-24 semitones
Width	Controls the width of the sound image, from 0 - 150 %
Pan	Global Pan control

Glide Delay is an experimental feature, the timing between notes does not follow the tempo of the open project song. Adjust the amount manually to your liking.

*Video of Glide Delay on the Skrock Music Youtube Channel:*

<https://youtu.be/qDHOaerm8Fw>