

Ocean Swift Synthesis Aeolian Pulsar Harp



Controls

Partials

Partial Volume: The overall maximum volume of each partial. Internally each partial fades in and out in volume based on an algorithm. The range, or depth if you will of this internal modulation is controlled by this knob.

Sway: An additional degree of randomness to the volume of each partial.

Mod Shape: A choice of a sine or triangle as the basic shape driving the volume modulation algorithm for each partial. Useful as another way to achieve variation.

Root: The root note of the instrument. Base pitch is derived from the set note. Only active when the midi button is turned off.

Tune: Detunes the base pitch by one semitone coarse increments.

FM

External: Switches the fm source from internal to external. When in external mode the freq, freq mod and freq rate knobs in the fm section are inactive. The internal source is a built in sine oscillator. Useful for varying the tone of the instrument.

Depth: FM modulation depth for the partials.

Depth Mod: Depth of modulation of the FM depth knob. The modulation source is an internal sine wave.

Depth Rate: Rate of modulation of the FM depth knob.

Freq: The static frequency of the sine fm source oscillator.

Freq Mod: Depth of modulation of the FM freq knob. The modulation source is an internal sine wave.

Freq Rate: Rate of modulation of the FM freq knob.

Bandpass

Bypass: Turns the band pass filter on or off.

Cut: The cut off point of the filter

Res: The resonance quality of the filter:

Mod: The modulation depth applied to the filter cutoff from the attached LFO.

Rate: The rate of the bandpass filter LFO when not in sync mode.

Div: The rate of the bandpass filter LFO based on BPM divisions derived from the device BPM setting. Active when sync mode is on.

Phase: The phase of the lfo. Noticeable when retrigger is turned on.

Sync: Turns on and off LFO BPM sync mode.

Retrig: Turns on and off retriggering of the LFO on incoming midi notes.

Low Pass Filter

Bypass: Turns the low pass filter on or off.

Cut: The cutoff point of the filter.

DC Kill

Bypass: Turns a highpass filter on or off. This is a simple high pass set at 20hz, useful for smoothing out the low harmonics or getting a lighter tone.

Comb Filter

Bypass: Turns the comb filter on and off.

Cut: The frequency emphasis point of the comb filter.

Res: The resonating quality of the comb. On high values produces a lot of feedback.

Damp: Damping of the feedback.

Mod: Modulation depth of the comb frequency, modulated by a built in sine oscillator.

Rate: The frequency of the sine oscillator modulating the comb filter.

Effects

Stereo Chorus: Controls for rate, depth, phase, feedback, flange and wet amount.

Stereo Delay: Syncable stereo delay with separate time and division controls for the left and right channels. Feedback and feedback damping is provided as well as the option for standard left-right operation or cross feedback. The signal can be mixed with the dry signal.

Main Controls

Midi Channel: The midi channel the device will respond to when the drone button is in the off position.

BPM: The BPM from which the bandpass lfo divider and delay divider divide from.

Drone: When turned off the device will respond to monophonic midi gate messages and play when you sustain a note. When turned on the device will play at all times. This parameter is not stored with presets.

Midi Button: When turned on the device will respond to monophonic midi notes, deriving the base pitch from incoming notes. When turned off the device will derive the base pitch from the root knob.

Distort: Mild distortion on the output.

Volume: Main volume. This parameter is not stored with presets.

Credits:

Circuit Design: Yaron Eshkar

Gui Design: Fernando Abreu

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