

# Solaris Synthesizer

This document explains the advanced features of Solaris Synthesizer.

The screenshot displays the Solaris Synthesizer interface with the following sections:

- BROWSER:** Shows 'Init Patch' with navigation icons.
- OSCILLATORS:** Five channels (1-5) with parameters: WAVE, INDEX, LEVEL, PAN, SEMI, FINE, SOURCE, AMOUNT, and DEST.
- ADSR / OUTPUT:** Controls for AMP and FLTR with parameters: ATK, DEC, CRV, SUS, REL, VEL, and LEVEL/GLIDE.
- FILTER:** Includes FILTER TYPE (LP24), CUTOFF (100.0), and DRIVE (PRE, 30.0) with sub-controls for CUTOFF, RESO, ENV, and KEY.
- SOURCE:** A table of source parameters for each channel.
- EFFECTS:** Controls for FLANGE (AMT, DELAY, FDBK, RATE, DEPTH) and REVERB (AMT, DECAY, PRE).
- MATRIX:** A table for routing sources to destinations.

Channel	ATK	DEC	SUS	REL	RTE	WF	PHA	RTG
1	0	60	0	40	4/4	TRI	0	OFF
2	0	60	0	40	4/4	TRI	0	OFF
3	0	60	0	40	4/4	TRI	0	OFF
4	0	60	0	40	4/4	TRI	0	OFF
5	0	60	0	40	4/4	TRI	0	OFF

SOURCE	AMOUNT	DEST
CONSTANT	0	OFF
CONSTANT	0	OFF
CONSTANT	0	OFF
CONSTANT	0	OFF

## **OSCILLATORS:**

Each oscillator in Solaris has a selection of 9 samples, and 14 wavetables.

SA = Sample

WT = WaveTable

SA PIANO CHOIR

SA MULTI PIANO

SA EPIC PAD

SA BRASS

SA COOL SAX

A NOISE LOOP

SA DIDJERIDU

SA BELL

SA STRINGS

WT RETRO NOISE

WT VOWEL

WT SYNC

WT SAW

WT STEPPED

WT SQUARE

WT SAW OCT

WT ORGAN

WT BITREDUX

WT STRING

WT DISTORT

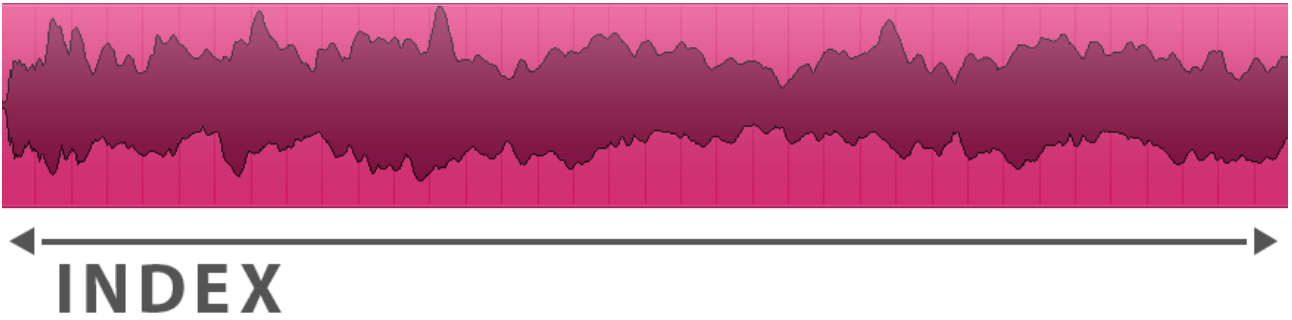
WT DIGITAL

WT UNISON

WT SUB

**Oscillator controls are:**

*Level, Pan, Semi, Fine Index.*



The *Index* value controls the start position of either a selected Sample(SA), or Wavetable(WT).

Each oscillator also features their own *Modulation Matrix*. Therefore modulation settings made on *Oscillator 1* only affects that oscillator.

**Sources available are:**

Constant - Send a constant ( from -100 to +100) value to a destination.

Keytrack

Velocity

Mod wheel

LFO 1

LFO 2

LFO 3

LFO 4

ADSR 1

ADSR 2

ADSR 3

ADSR 4

**Destinations available are:**

Off

Level

Pan

Pitch

Index

Cutoff

Resonance

### **Amp and Filter ADCSR:**

The Amp and Filter envelopes consists of the controls:

Attack, Decay, Curve, Sustain, Release.

The Curve knob controls the slope of the Decay curve.

### **MATRIX:**

The **Matrix section** features four (4) global *Modulation Matrices*. These affects all the oscillators simultaneously (OSC 1/2/3/4/5).

The Global Matrix has all of the same sources and destinations available as found on the individual oscillators.

### **SOURCE:**

In the **Mod Source** section we find the Envelope and LFO controls.

LFO (1/2/3/4) Controls:

Rate, Waveform, Phase, Retrig(On/Off)

ADSR (1/2/3/4) Controls:

Attack, Decay, Sustain. Release.

### **EFFECTS:**

Solaris has a Flanger and Reverb unit.

Audio is routed in the order: Flanger -> Reverb.

### ***Flip the Rack:***

On the back of Solaris we have three controls.

*Global Quality*

*Global Octave*

*Polyphony settings*