

Iridium Core

Specification

- Compatible with the Waldorf Quantum synth engine
- Software: Waldorf Synthesis Platform OS

Oscillators

3 Oscillators each capable of 5 synthesis modes:

- Wavetable
- Waveform (VA)
- Particle (Sampling and Granular Sampling)
- Resonator
- Kernels (up to 6 sub-oscillators which can be interlinked through FM, AM or Wavetable-position at audio rate)

Dual Stereo Filters per voice

True stereo path Dual Digital Filter with independent modes:

- 12/24dB LP/HP/BP in all combinations
- Nave, Largo, PPG, Quantum and StateVariable models
- Analyzer displayed in Filter view
- Filter curve animation when modulated (optional)
- Sophisticated filter routing options with modulatable panning and levels

Digital Former

- Filter models like State Variable, Waldorf Nave, Largo and PPG in HP/LP/BP/Notch
- Comb filters, Bit-Crusher, various Drives, Ring-Modulation

Modulators

- 6 Envelopes
- 6 LFOs
- Komplex Modulator (LFO/Envelope combination with user-definable shape and morphing)

Mod Matrix

- 40 slots
- Fast assign mode
- One additional control amount per slot
- Identical Sources and Destinations can be used multiple times until the matrix is full

Effects

- 5 slots per layer
- Various parallel and sequential routing options
- Reverb, Delay, Chorus, Phaser, Flanger, Drive, EQ, Compressor, Tremolo

Performance features

- Advanced Arpeggiator
- Step-sequencer with up to 64 steps for notes and parameters
- 2x4 button pads assignable to notes or chords
- 4 user-assignable potentiometers
- 6 user-configurable macro buttons
- Favourites screen for quick patch recall
- XY control on touchscreen
- Wheels touchscreen for MIDI controls like mod wheel, pitch bend, aftertouch and velocity
- MPE capable

Screen

- Industrial-grade highly responsive touch screen with Brightness control
- 1024x600 pixels

Voices

- 12 voice polyphony
- Duo-timbral
- Mono, Legato and Unisono modes

Patches

- Over 1700 factory patches
- Capacity of 7000 patch memory slots (numbers 0000-9999 can be used)
- Patches from Quantum and other Iridium variants can be loaded and vice-versa
- Category filter for patch list
- 2.6 GB sample flash memory preloaded with 2 GB factory samples

Connections

- Stereo Audio Out: 2x TS jacks
- Stereo Audio In: 2x TS jacks
- Headphones TRS output with level control
- DIN MIDI IN & Out, mini-TRS Type A (two adapters to DIN MIDI sockets included)
- USB Type B (device) for MIDI connection to computer
- USB Type A (host) for storage media and MIDI devices
- MicroSD slot
- 2 high-resolution CV Inputs which can be used as modulation sources in the Mod-Matrix
- Analog clock In & Out with clock divider settings

Overall

- Sturdy metal case
- Dimensions: 346 mm wide by 200 mm depth by 64 mm height (including controls)
- Weight: 2.2 kg
- External Power Supply: Input 100-240 V / AC 50-60 Hz, Output 12 V DC / 3 A

What's In the Box?

- Iridium Core Synthesizer
- Two MIDI adapters: mini TRS to DIN sockets
- Power Supply
- Printed Quick Start Guide