

Iridium Desktop MK2

New MK2 features marked in blue.

Specification

- Compatible with the Waldorf Quantum synth engine
- Software: Waldorf Synthesis Platform OS 4.0 or later

Oscillators

3 Oscillators each capable of 6 synthesis modes:

- Wavetable
- Waveform
- Particle in Multi-Sampling and Granular mode **with extended Sample RAM**
- Resonator
- Kernels (up to 6 sub-oscillators which can be interlinked through FM, AM or Wavetable-position at audio rate)
- **Seeds: Waypoint synthesis providing timbral journeys using sub-oscillators based on various methods like Ring Modulation, FM, Wavetable, Partial and various Noise/Dirt Types.**

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, Raiser, Waldorf Nave, Largo and PPG in HP/LP/BP/Notch
- Comb filters, Bit-Crusher, various Drives, Ring-Modulation, Formant Filters

Modulators

- 6 Envelopes
- 6 LFOs
- Komplex Modulator (LFO/Envelope combination with user-definable shape and morphing)
- **Per-Note-Parameter-Locks, allowing individual parameter variations per note inspired by Aphex Twin**
- **‘Flavour’ control for micro-variations in timing, pitch, and timbre**

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
- **New polyphonic Arpeggiator modes**
- Step-sequencer with up to 64 steps for notes and parameters
- 4x4 silicon pad matrix with RGB backlights assignable to notes, scales or chords
- 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

- 16 voice polyphony
- **Multi-Timbral with 4 layers**
- **Advanced multi-timbral modes such as round-robin and random-robin**
- Mono, Legato and Unisono

Patches

- Over **1750** 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
- **6 GB sample flash memory** preloaded with 2 GB factory samples
- **‘Mutator’ patch randomizer**

Connections

- Stereo Audio Out: 2x TS jacks
- Stereo Audio In: 2x TS jacks
- Headphones TRS output with level control
- DIN MIDI In, Out & Thru
- USB Type B (device) for MIDI connection to computer
- USB Type A (host) for storage media and MIDI devices
- MIDI 2.0 compatible
- MicroSD slot
- 4 high-resolution CV Inputs which can be used as modulation sources in the Mod-Matrix
- Analog clock In & Out with clock divider settings
- Analog gate and start inputs
- Kensington® compatible lock

Overall

- Sturdy metal case with aluminum knobs
- Dimensions: 440 mm wide by 305 mm depth by 85 mm height (including controls)
- Weight: 4.8 kg
- VESA 75 receptacle on the bottom (mountable on monitor stand using the VESA standard)
- 19" rack assembly parts available
- External Power Supply: Input 100-240 V / AC 50-60 Hz, Output 12 V DC / 3 A

What's In the Box?

- Iridium Desktop MK2 Synthesizer
- Power Supply
- Printed Quick Start Guide