

Waldorf Protein

Authentic Wavetable Synthesizer

Oscillators

- Two oscillators based on unique Waldorf Microwave ASIC chip.
- Internally running with 250 kHz sampling rate to match original ASIC sampling rate.
- Modeling of digital-to-analog converters for each voice (DAC).
- Unique digital noise generator based on ASIC technology.

Wavetables

- All original wavetables of Microwave 1 based on the original coding and bit-identical to original.
- Including algorithmic and speech wavetables.
- Beautiful recreation of 8-bit quantization and aliasing.
- Full waveform catalogue of original Microwave.

Filter

- Faithful modeling of CEM analogue filters.
- Adjustable de-calibration of cutoff and resonance to model detuned hardware.
- Cutoff and resonance modulations.
- Additional „Dirty“ types: Noise, crackle, click, geiger and bursts.

Modulation

- 3 Envelopes
- 2 LFOs with tempo sync and sample & hold
- 8 slot modulation matrix
- Poly-aftertouch capable
- MPE modulation sources.

Effects

- Two effect slots
- Reverb, Delay, Chorus, Phaser, Flanger, Drive, EQ, Compressor, Tremolo

Voices

- 8 voice polyphony
- 4 timbral layers
- Stacked, round robin and MIDI-split layer-modes.
- Mono & Legato modes

Performance features

- Advanced Arpeggiator
- Step-sequencer with up to 32 steps
- Chord & Scale modes
- MPE Compatible
- MIDI CC Learn

Patches

- Over 150 factory patches
- Capacity of 250 patch memory slots
- Category filter for patch list
- Import- and export of patches via MIDI Sysex

Connections

- Stereo Audio Out with 6.35 mm jacks with optional mono and TRS stereo connections
- Headphones mini TRS output
- DIN MIDI IN & Out, mini-TRS Type A (two adapters to DIN MIDI sockets included)
- USB Type C for power supply and USB MIDI connection
- Firmware updates via USB

Overall

- Sturdy metal front plate on a colorful plastic case
- Dimensions: 252 mm wide by 170 mm depth by 48 mm height (including controls)
- Weight: 0.9 kg
- Power Supply via USB (not in the box)

What's In the Box?

- Waldorf Protein Synthesizer
- Two MIDI adapters: mini TRS to DIN sockets
- USB C to C cable
- Printed Quick Start Guide