TerraTec Productinfo

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The microWAVE PC.

The world's first real "wavetable" synthesizer for the PC!

State-of-the-art sound technology from Waldorf combined with the outstanding features of TerraTec's EWS64 XL PC Audio System - the new microWAVE PC. The microWAVE PC is a 5¼" module ("CD-ROM size") that fits into the drive bay of your computer. It replaces the front panel module that comes with the EWS64 XL and adds powerful synthesizer features based on Waldorf's innovative microWAVE II wavetable synthesizer.

The user interface is an easy to understand piece of software for Windows 95/98 with the look and feel of the newly released Waldorf microWAVE XT synthesizer: 44 adjustable "knobs" for the manipulation of sounds and several advantages like sound library, multiple undo and much more. All edits can be recorded in realtime via MIDI with your favorite sequencer.

Don't forget: the microWAVE PC is an "add on" to your AudioSystem EWS64 L/XL. This means that you can still use all the features of this superior synthesizer in addition to the AudioSystem: sampling, effects processing, hard disk recording, digital and analog I/O and much more!

Technical data - overview.

- latest DSP based wavetable synthesis from Waldorf
- 10 voices polyphonic
- Multi mode with 8 individual instruments and 3 effects
- 64 ROM wavetables
- 32 RAM wavetables
- 64 waves per wavetable
- 500 waves
- arpeggiator, syncable to MIDI Clock
- programmable arpeggiator rhythm pattern per sound
- all parameters real time controllable through MIDI continous controller

- Easy to use software for Windows 95 / 98
- Look and feel like microWAVE II or microWAVE XT with 44 software knobs for realtime control
- User friendly features like multiple undo, soundlibrary, etc.
- Extended EWS driver functions with additional 16 MIDI channels
- (16 EWS sampler plus 16 microWAVE; 8 channels available in Multi Mode)
- 1 stereo output or
- 2 stereo digital outputs (S/PDIF, coax)
- External Digital Input (S/PDIF, coax) (The microWAVE PC uses the outputs of your AudioSystem EWS64 L/XL)

Software.

- Look and feel like microWAVE II or microWAVE XT with 44 software knobs for realtime control
- User friendly features like multiple undo, soundlibrary, audio routing, etc.
- Extended EWS driver functions with additional 16 MIDI channels (16 EWS sampler plus 16 microWAVE; up to 8 channels available in Multi Mode)
- User friendly installation / de-installation, no additional system files needed

Frontmodule.

- 5¼" frontmodule in exclusive design
- 2 x MIDI IN / MIDI OUT
- 1 digital IN (opt. and coax)
- 2 digital OUT
- Headphone jack
- "Wavetable" connector ("WaveBlaster compatible", note: cannot be used together with microWAVE PC)
- Made in Germany.

Features per voice.

- 2 oscillators
- 2 wave generators
- noise generator
- ring modulator
- mixer, all levels (Wave 1, Wave 2, Noise, Ring Modulation, External IN)
- modulatable with high resolution
- 2 multi mode filters, connected serially

Filter 1.

- low pass 12dB
- low pass 24dB
- band pass 12dB
- parallel low pass / band pass 12dB
- high pass 12dB
- wave shaper
- sinus (wave-) shaper with low pass filter 12dB
- sample-and-hold in front of 12dB low pass
- low pass 12dB with frequency modulation

Filter 2.

- low pass 6dB
- high pass 6dB

Effects processor.

- 3 effects available in multimode
- Chorus
- Flanger 1 + 2
- AutoWha with low pass
- AutoWha with band pass
- Overdrive
- Amplitude modulation
- Tempo delay
- Stereo tempo delay
- Modulation tempo delay

Modulators.

- stereo amplifier, fully modulatable
- 8-time/level wave envelope with loop function, "one shot" mode, times and levels modulatable
- ADSR filter envelope, each phase modulatable separately
- ADSR amplifier envelope, each phase modulatable separately
- 4-time/level free envelope, bipolar, one shot mode, times and levels modulatable
- all envelopes work with separate trigger- and voice-modes, either monophonic or polyphonic:
- single trigger with zero return
- single trigger with return to last level
- retrigger with zero return
- retrigger with return to last level
- dual mode (two voices per note)
- unisono (all free voices at once)
- two LFOs, each with different shapes,
- syncable to MIDI clock, LFO 2 can be synced to LFO 1
- modulation matrix with 16 slots
- freely usable modifiers

Contents.

- microWAVE PC-5¼" frontmodule
- 2 ribboncables
- installation manual
- synthesizer manual
- software for Windows 95 / 98
- actual Windows- drivers and applications for EWS64 L/XL
- warranty card and serial number
- 12 month warranty

The Concept.

The microWAVE PC frontmodule attaches to the EWS64 L/XL by two ribbon cables which connect directly to the soundcard. Included with the microWAVE PC is driver version 2.16 (or higher), which will automatically detect the new frontmodule during the installation process. The operating system (firmware) of the microWAVE PC, the sounds and wavetables are stored in it's own RAM. The initialization and download of the more than 250 different instruments is done automatically by the microEd!t software.

You can play the new synthesizer through a standard MIDI controller or the PC-keyboard. Instrument changes can accessed by a mouse, MIDI keyboard or by the arrow keys.

There are two methods of using the microWAVE PC with your favorite sequencer under windows (e.g. Cakewalk, Cubase VST, Logic, etc.). First, by using the EWS MIDI-1 or MIDI-2 driver which will access the sounds of the microWAVE PC without launching the microEd!t software. Second, by using the EWS Virtual-MIDI-devices together with microEd!t and this will enable you to record the movements of each of the 44 "knobs" in realtime.