

# H8000FW

**Eventide®**

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The H8000FW, Eventide's most powerful Ultra-Harmonizer® effects processor ever, now features FireWire. The ultimate desert island processor, the H8000FW, offers more processing power, runs at a higher clock speed, and features Monolithic Tandem™. This intimately links both processors to produce the most complex algorithms ever, including 5.1 reverb and effects up to 96kHz. New search functionality expedites finding what you need in the Eventide Universe of nearly seventeen hundred post production and music effects preset-algorithms. Never before have Eventide's best algorithms been so easy to access. Never before has Eventide unleashed so much power for your creative endeavors.

#### CONNECTIONS GALORE

The H8000FW offers four channels of pristine analog I/O combined with twelve channels of AES/EBU, ADAT, and S/PDIF I/O. New FireWire I/O now allows direct connection to your Mac or PC so you can directly patch 24-bit audio to and from the eight inputs and outputs.

The analog inputs feature either guitar-friendly 1/4" hi impedance input jacks or XLRs. The H8000FW also offers remotely switchable true bypass.

#### DIGITAL EFFECTS WORKSTATION Create your own algorithms

With the H8000FW you will run out of ideas before you run out of DSP power. With our catalog of over 230 effects modules, you can create effects never before thought of either from the front panel or

using the supplied development tools for PC or OS X. Whether creating your own unique signature effect or dialing up one of our studio standard effects from the plethora of preset-algorithms, you will never run out of creative possibilities.

#### POST-PRODUCTION AND BROADCAST ESSENTIALS The complex made simple

The H8000FW is chock full of our best post-production effects, including: CB Radio, Cellular Phone, Long Distance, Random Dialer, Off Hook!, Real Dialer, Megaphone, Shortwave Radio, Traffic Report, Radio, Intercom, Public Address, Fries With That?, Office Intercom, Sound Truck, Talking Dashboard, Clock Radio, Bullhorn, Airplane Background, Jet Flybys, TankAttack, Mortar Shells, Stormwatch, TV in Next Room, Boom Box, plus scores of new ones.

Also included are templates for eight precision delays for multichannel video post applications, and tools specifically designed to facilitate 5.1 frame rate conversion and its associated problem of pitch correction, along with a dedicated channel for time code delay.

#### 5.1 REVERB AND EFFECTS EXTRAORDINAIRE

The H8000FW is packed with 5.1 halls, chambers, rooms, booths, ambient spaces, and plates, as well as a full tool kit of multichannel effects. Included are eight individually adjustable sets of straight delays, modulated delays, ribbon delays, reverse delays, panning delays, diatonic shifters,

flangers, EQs, phasers, tremolos, and filters.

#### AND NOW MIDI VIRTUAL RACKS Stacked effects with instant program change

The H8000FW offers twenty MIDI Virtual Rack preset-algorithms, featuring up to five full-blown effect processors ganged together. Each preset offers ten different tweaks which can be programmed, stored, and controlled in real time through MIDI. Up to forty-five different parameters can be controlled with one MIDI control message. Individually optimized for guitar, vocals, or percussion and designed with performance in mind. Single effects blocks are also offered as separated presets so that effect chains can be assembled using VSIG.

#### OODLES OF SAMPLE/DELAY MEMORY

The H8000FW offers 174 seconds of mono or 87 seconds of stereo, leaving you plenty of time for looping and flying in choruses. It can be used in conjunction with the arsenal of effects. The H8000 offers fast, precise triggering.

#### THE LONG AND THE SHORT OF IT 8 channels of time compression/expansion

Eventide's Timesqueeze® algorithm has been proven in the demanding arena of broadcast production. If you need to time compress or expand your 5.1 audio for an HD broadcast, our new phase-locked 8 channel Timesqueeze is fast, simple, and sounds great.

#### CONTROL FREAK?

The H8000FW offers everything you need to control its parameters and functions from a remote. If you are on stage, the H8000FW offers full MIDI control or analog control. 1/4" inch TRS jacks accept up to two external foot pedals, up to six external foot switches, or a combination. If you are on the mixing stage, or behind the console, Eventide's EVE/NET™ remote brings all the control and graphics display of the front panel, along with eight continuous controllers, to the sweet spot of your choice.

#### ULTRASHIFTER™ THE APEX OF PITCH MANIPULATION

The H8000FW incorporates Eventide's most advanced formant-maintaining pitch shifter optimized for the human voice. The UltraShifter's real-time adaptive resynthesis allows for unmatched modification of vocal timbre. So, if you are changing gender or going for something completely bizarre, we've got you covered.

#### CHOOSE EVENTIDE

Founded in 1971 in New York City, Eventide has developed a reputation for innovative, quality, and iconoclastic products. Eventide has defined the possibilities of digital effects with such groundbreaking products as the H910, SP2016, H3000, and DSP4000 on through the Orville™. The H8000FW is the culmination of over three decades of boundary-smashing digital effects R&D!



## KEY FEATURES

THE VERY BEST EVENTIDE PRESET-ALGORITHMS FROM THIRTY-FIVE YEARS OF EFFECTS CREATION, NEARLY SEVENTEEN HUNDRED IN ALL, INCLUDING AWARD-WINNING REVERBS, LUSH CHORUSES, FM PANNERS, SAMPLE-AND-HOLD FILTERS, VIBRATOS, MODULATING DELAYS, MULTIBAND COMPRESSION, PHASE SHIFTING, MICRO PITCH SHIFTING, VOCODING, AND MUCH MORE

OVER EIGHTY 5.1 PRESETS, INCLUDING 5.1 REVERBS, AND EFFECTS UP TO 96KHZ SAMPLING FREQUENCY

OVER FORTY VIRTUAL RACK PRESET-ALGORITHMS OFFER THE POWER OF UP TO FIVE STEREO EFFECTS DEVICES COMBINED

FIREWIRE I/O ALLOWS DIRECT CONNECTION OF UP TO 8 CHANNELS OF 24-BIT DIGITAL I/O, UP TO 96KHZ, WITH A PC OR MAC

SEARCH ENGINE FUNCTIONALITY FOR EASY PRESET SORTING

MONOLITHIC TANDEM™ ALLOWS ONE LARGE ALGORITHM TO RUN USING TWO DSP CHIPS, PROVIDING THE USER WITH MAXIMUM HORSEPOWER FOR HUGE, COMPLEX ALGORITHMS, INCLUDING 5.1 REVERBS AND EFFECTS

COMPLEX EDITING SIMPLIFIED WITH "BUILDING-BLOCK EFFECTS ARCHITECTURE"

FEATURING ULTRASHIFTER™, EVENTIDE'S MOST NATURAL-SOUNDING, FORMANT-CORRECTED PITCH CHANGER, OPTIMIZED FOR VOICE, INCLUDING AUTOMATIC PITCH CORRECTION

MIDI, BPM, AND TAP TEMPO LOCK YOUR EFFECTS IN TIME WITH THE BEAT

174-SECOND MONO SAMPLER, OR 87 SECONDS OF PHASE-LOCKED STEREO WITH ADVANCED LOOPING, EDITING, AND LAYERING CAPABILITIES

PC AND OS X GRAPHIC EDITOR / DEVELOPMENT TOOLS INCLUDED

FOUR CHANNELS OF PRISTINE ANALOG I/O, XLR S/N >110DB, PLUS FOUR 1/4" HIGH IMPEDANCE INPUTS

UNPRECEDENTED 24-BIT DIGITAL INTERCONNECTIVITY S/PDIF I/O: 4 CHANNELS  
AES/EBU I/O: 12 CHANNELS  
ADAT I/O: 8 CHANNELS (4 CHANNELS AT 96KHZ)  
FIREWIRE I/O: 8 CHANNELS (UP TO 96KHZ)  
WORD CLOCK I/O

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## SPECIFICATIONS

### Sample Rates

96kHz, 88.2kHz, 48kHz, 44.1kHz via FireWire, AES/EBU, S/PDIF, ADAT, or word clock

### Digital Inputs/Outputs

AES DB-25: 8 channels of AES 24-bit at 44.1kHz - 96kHz  
AES XLR: 4 channels of AES at 44.1kHz - 96kHz with sample rate conversion and relay bypass at power down  
Lightpipe (Toslink): 8 channels of ADAT (4 channels at 96kHz with S/MUX) or 4 channels of S/PDIF at 44.1kHz/48kHz  
FireWire: 8 channels of 24-bit at 44.1kHz - 96kHz  
FireWire thru for daisy-chain connection to other FireWire devices

### ANALOG INPUTS

4 XLR inputs  
4 high impedance 1/4" inputs

**Impedance:** 20kΩ bridging  
**Full Scale Input Level:** 26dBu  
**Dynamic Range:** >110dB  
**Signal-to-Noise Ratio:** >110dB, A-weighted  
**THD+N:** <0.0015% @ 1kHz, -3dBFS  
**Crosstalk:** <-110dB @ 20Hz to 20kHz, -1dBFS

### Frequency Response/Sample Rate

+0/-0.1dB @ sample rate  
44.1kHz: 20Hz - 20kHz  
48kHz: 20Hz - 22kHz  
88.2kHz: 20Hz - 41kHz  
96kHz: 20Hz - 44kHz

+0/-3.0dB @ sample rate  
44.1kHz: 5Hz - 21kHz  
48kHz: 5Hz - 23kHz  
88.2kHz: 5Hz - 42kHz  
96kHz: 5Hz - 45kHz

### ANALOG OUTPUTS

4 XLR OUTPUTS

**Impedance:** <50Ω, bridging  
**Full Scale Output Level:** 26dBu  
**Dynamic Range:** >110dB  
**Signal-to-Noise Ratio:** >110dB, A-weighted  
**THD+N:** <0.002% @ 1kHz, 3dBFS  
**Crosstalk:** <-110dB @ 20Hz to 20kHz, -1dBFS

### Frequency Response Sample Rate using "Thru" Preset

+0/-0.1dB @ sample rate  
44.1kHz: 10Hz - 20kHz  
48kHz: 20Hz - 22kHz  
88.2kHz: 10Hz - 26kHz  
96kHz: 10Hz - 26kHz

+0/-3.0dB @ sample rate  
44.1kHz: 5Hz - 21kHz  
48kHz: 5Hz - 23kHz  
88.2kHz: 5Hz - 43kHz  
96kHz: 5Hz - 45kHz

### Remote Control Inputs

Up to two foot pedals, or four 5V control inputs, or six foot switches, or combination

### Remote Control Outputs

2 isolated relay closures, rated at 30Vdc 1A

### MIDI Connections

5 pin DIN output and thru  
7 pin DIN input with output capability

### PCMCIA Interface

(68 pin PCMCIA 2.0/JEIDA 4.0) Supports type 1 SRAM cards up to 4MB for data storage Compact Flash supported with CF to PCMCIA adaptor (supplied)

### Factory Preset Capabilities

(at 48kHz sampling)  
**Pitch Shifting:** up to 16 channels  
**Compressor/Limiter:** up to 16 channels  
**Equalization:** up to 256 bands parametric single input, 32 bands at 8 channels  
**Sampling with time compression:** up to 174 seconds mono @ 48kHz  
**Digital Delay:** up to 87 seconds mono in addition to sampler

### Remote Control

RJ-45 for EVE/NET

### Power

90 watts, 100V - 130V  
220V - 240V, AC 50/60Hz

### Size

Inches: 3.5h x 19.0w x 12.5d  
Cm: 8.9h x 48.3w x 31.7d

### Weight

16 pounds (7.3 kg) net  
23 pounds (10.4 kg) shipping weight

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