

There's no end to the things you can do with a DSP7000 or DSP7500. In fact, a navigation beacon simulator and stereo multiplex generator are among the more unconventional applications which have been developed using these products.

Using the unit's "Algorithm Construction Kit," you use the unit's LCD screen (or, for an expanded view, a connected PC) to select and link together the effects module building blocks. With a virtually endless array of combinations and configurations from which to choose, there's no limit to the sounds you can create. Put a pitch shift module after a reverb, or string together effects and put EQ on only the ones you want—you decide which modules talk to which. Here's where your own unique creative vision can really shine.

Many of the program presets available for the 7000 series on preset library memory cards were originally created in the field by working musicians and engineers for their own use. You can do it too.



DSP7500

**DSP7500: Even More Of A Good Thing.**

Want even more performance, and great value too? Look into our special edition DSP7500. It starts with all the 7000's performance and features and adds full function sampling and hundreds of additional presets.

**Exceptional Sampling, Built In.**

The DSP7500 puts a highly flexible 174 seconds mono (87 seconds stereo) sampler at your fingertips. With advanced stereo looping and even multiple looping capabilities, you can stack several samples and independently edit them, pitch shift and/or time compress or

expand them. Tap tempo looping adds to the versatility. You know how valuable a sampler is in producing today's music. But here's an application you may not have considered. An entire 60-second commercial spot in stereo can be time compressed with no need to deal with the hassles of varispeeding the source material.

**More Film, Radio and TV Goodies.**

Broadcast and post-production users will be especially entranced by the DSP7500's unique set of added program presets, created by sound designer Jay Rose. These instantly conjure up scores of audio environments which would otherwise take forever to achieve.

Press a button and "This is your captain speaking from the flight deck." Press again and it's the kid at the fast-food drive-up window. Another press and your words are coming from a computer chip-driven toy, or the TV in the next room, or a cellular phone. Myriad fantasy or cartoon voices, beckoning you to fairylands or to the "dark side of the force" are in there too. The odds are good that you've heard some of these Eventide production presets on TV or at the movies in the past week.

In this brochure, we've given you a taste of the versatility, creativity and audio quality you can get with the unprecedented power of the two-channel Eventide DSP7000 and DSP7500 Ultra-Harmonizer brand effects processors. To dig deeper into the feast, contact your Eventide dealer or check out our website, [www.eventide.com](http://www.eventide.com)

**EVENTIDE ULTRA-HARMONIZER® BRAND EFFECTS PROCESSOR**

# DSP7000

**SPECIFICATIONS**

**DSP7000/7500 Ultra-Harmonizer® Brand Effects Processor**

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| <p><b>Sample Rates</b><br/>96, 88.2, 48, 44.1, kHz or external</p> <p><b>Digital Inputs/Outputs</b><br/>2 AES/EBU or SPDIF at 44.1 to 96KHz</p> <p><b>ANALOG INPUT</b><br/>24 bit conversion. Any combination of 2 XLR (20k ohms, bridging) or 2 mono jacks (150kohms)</p> <p><b>Impedance</b><br/>&gt;20k ohm, Bridging</p> <p><b>Full Scale Input Level</b><br/>26dBu</p> <p><b>Dynamic Range</b><br/>&gt;105dB</p> <p><b>Signal to Noise Ratio</b><br/>&gt;105dB A-weighted</p> <p><b>THD+N</b><br/>&lt;.0025% @ 1kHz, -3dBFS</p> <p><b>Crosstalk</b><br/>&lt;-100dB @ 20Hz to 20 kHz, -3dBFS</p> <p><b>Frequency Response:</b><br/>+0/-0.1dB @ sample rate:<br/>44.1kHz: 10Hz-20kHz<br/>48kHz: 10Hz-22kHz<br/>88.2kHz: 10Hz-41kHz<br/>96kHz: 10Hz-44kHz</p> <p><b>Remote Control Inputs</b><br/>Up to 2 foot pedals (or 5V control inputs) or 6 footswitches or combination</p> | <p><b>ANALOG OUTPUT</b><br/>XLR balanced</p> <p><b>Impedance</b><br/>&lt;50Ohm</p> <p><b>Full Scale Output Level</b><br/>26dBu</p> <p><b>Dynamic Range</b><br/>&gt;105dB</p> <p><b>Signal to Noise Ratio</b><br/>&gt;105dB A-weighted</p> <p><b>THD+N</b><br/>&lt;.0025% @ 1kHz, -3dBFS</p> <p><b>Crosstalk</b><br/>&lt;-100dB @ 20Hz to 20 kHz, -1dBFS</p> <p><b>Frequency Response:</b><br/>+0/-0.1dB @ sample rate:<br/>44.1kHz: 10Hz-20kHz<br/>48kHz: 10Hz-22kHz<br/>88.2kHz: 10Hz-41kHz<br/>96kHz: 10Hz-44kHz</p> <p><b>Bypass Relay</b><br/>AES and AUDIO signals bypassed at power down</p> <p><b>Remote Control Outputs</b><br/>2 isolated relay closures, rated 1A at 30VDC</p> <p><b>MIDI Connections</b><br/>5 pin DIN Output and Thru<br/>7 pin DIN Input with Output capability</p> <p><b>Memory Card Interface</b><br/>68 pin PCMCIA 2.0/JEIDA 4.0 supports type 1 SRAM cards up to 4MB for data storage</p> <p><b>Sampling with time compression/expansion (48K)</b><br/>Up to 174 seconds mono (DSP 7500 only)</p> <p><b>Power</b><br/>100 watts, 100-130V, 220-240V, 50-60Hz</p> <p><b>Size</b><br/>Inches: 3.5Hh x 19w x 12.5d<br/>cm: 8.9h x 48.3w x 31.7d</p> <p><b>Weight</b><br/>12 pounds (5.5Kg) net<br/>17 pounds (8Kg) shipping</p> <p>*Specifications subject to change without notice or obligation.</p> |
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Eventide Inc  
One Alsan Way  
Little Ferry, NJ 07643  
USA  
Tel: 201.641.1200  
Fax: 201.641.1640  
email: [audio@eventide.com](mailto:audio@eventide.com)  
web: [www.eventide.com](http://www.eventide.com)

**THE PEAK OF PERFORMANCE IN STEREO EFFECTS PROCESSING.**



# EVENTIDE'S DSP7000 SERIES. ITS AWESOME PROCESSING POWER GIVES YOU TOTAL CREATIVE POWER.

Eventide Harmonizer® effects processors have always been considered “classics” by musicians and the professional audio community. One reason is that Eventide doesn't believe in planned obsolescence or “annual model changeovers.” We introduce a new model only when the state-of-the-art advances to the point that we can provide a major leap in performance over existing products. Now is that time and the Eventide DSP7000 is that product.

The DSP7000 series builds on the heritage of Eventide's world-class DSP4000 series, but with several major enhancements. And one blockbuster! With up to four times the processing power of the DSP4000, the Eventide DSP7000 is the most powerful two-channel effects processor you can buy.

With all that power on board, the DSP7000 can run bigger, more complex effects algorithms than ever before. You get more capabilities and better performance—the densest reverbs, lush choruses, higher quality pitch change. We've also enhanced the user interface, so the DSP7000 is even faster and easier to use, in the studio or on the road.

For those who want even more than the standard DSP7000 capabilities, Eventide has created the DSP7500, featuring full-function sampling and hundreds of additional presets. Whichever model you choose, your first session with the DSP7000 or DSP7500 Ultra-Harmonizer unit will convince you that Eventide has approached perfection in two-channel effects processing.

## UltraShifter: Unequaled Pitch Change Performance.

For some people, UltraShifter™ alone is reason enough to own a DSP7000 model. This natural-sounding vocal pitch shifter is the best vocal shifter ever. In the studio or in live performance, it's a tool you'll reach for again and again. Songwriters and arrangers often use UltraShifter to develop or arrange material ahead of the session, so time and money aren't wasted in the studio. The auto pitch correction preset using UltraShifter can turn a near-great performance with some off notes into a great performance, period. In the studio, UltraShifter adds perfect harmonies when a backup singer isn't available (or isn't in the budget).

UltraShifter gives you more creative options—you can choose and change backup singers easily. From a big-booming guy to a petite-sounding girl singer, they're all in there, just waiting for you to call them up. Because you don't always want “pretty,” there's even a robot voice lurking inside UltraShifter...perfect for your next B movie or inventive rap track.

UltraShifter can even change the voice of that “confidential anonymous news source” into a different, but realistic and clearly understandable other person for TV investigative journalism. Hide the face, and change the voice with UltraShifter.

## Reverb Paradise.

Eventide is best known for pitch shifting prowess, but now our reverberation programs are taking center stage as well. World-class reverb lives and breathes in the DSP7000 and DSP7500. Stereo versions of

the reverbs that earned our Orville™ multi-channel processor the coveted “best reverb” award from Studio Sound magazine are in the 7000 series models. Small spaces, big halls, plates, arenas, rooms, chambers and even the “impossible” reverb we call “black hole” are to be found in the 7000 series. Not since the “Stereo Room” program of Eventide's pioneering SP2016 have you heard reverbs like this. They aren't the same few reverb algorithms tweaked every which way like some other effects boxes. In the 7000 series, every reverb is a unique collection of algorithm modules, thanks to Eventide's revolutionary “building block” effects architecture, first introduced in our 4000 series, and further enhanced in the DSP7000 and DSP7500. Whether it's pretty or funky or “pretty funky,” there's a reverb for every musical groove and every post-production requirement in the 7000 series.

## Get With The Programs.

Eventide has packed so many unique and eminently useful program presets into the 7000 series that this brochure can't detail them all. But here are a few of the reasons why nothing else sounds like or works like a DSP7000 or DSP7500 Eventide Harmonizer effects processor.

Considering a separate mastering processor? Save your money. With the Eventide 7000 series, you have superb mastering tools built right in, including 16 or 32 band stereo EQs and 3 or 4 band Stereo Multiband Compression. There is also a Mastering Suite preset bank. The “Radio Compress” preset gives you that early taste of how your song is going to sound when

it's played on the air and heard on typical radios, stereos and boom boxes. Make no mistake; these are real tools—the clarity and definition of our mastering and dynamic program presets are stunning.

Think MIDI programs are all the same? Take a look at the DSP7000's bank of MIDI clock presets, and think again. They're a remixer's dream come true. Have a blast with sample and hold filters, FM panners, tremolos, choruses and vibratos that easily lock to an incoming MIDI clock. And if your MIDI clock isn't ticking, just use your finger. All the same effects can be found in the “Tap Tempo” bank. Bang a button or tap a tempo to keep your effects in the groove.

Speaking of remixes, a bank of “Filter” presets gives you all the important tools to make your tracks sound sweeter (or more grating, which sometimes can be sweeter). Filtering is one of the hotter effects in the live and studio remix worlds. These filters make you the gatekeeper of your audio domain—only the frequencies you want get through.

## Powerful, Yet Sensitive.

Eventide doesn't create in a vacuum. Working musicians, producers, engineers and artists play a big part in defining and

### DSP7000 Effects:

- Reverb
- Delay
- Pitch Shift
- UltraShifter™
- Equalization
- Phasing
- Multiband Compression
- Noise gating
- Tap Tempo
- Mastering Tools
- Flanging
- Diatonic Shift
- Chorus
- Dynamic Processing
- And more!

evolving the algorithms, programs and presets you'll find in the DSP7000 and DSP7500. In fact, some of the world's leading musicians find inspiration using their Eventide Harmonizer effects processors to create entirely new compositions. They actually list their Eventide processors among the instruments credited on their recordings. Yes, an “instrument,” not just a piece of equipment.

Case in point: The 7000 series of “Modulating Delays” shows how many new twists can be applied to even the most familiar effects, such as flanging and chorusing. With 31 presets in this bank, you'll never run out of options...from your favorite chorus and flanger to entirely new tacks, from subtle to bizarre, this bank will enhance—or mutilate, if you wish—your mix. It's your choice. It's never just a vanilla or chocolate world when you have 31 flavors of modulating delays from which to choose. And one more thing—when it comes to effects, the small details can make a big difference. A real choir takes a moment for everyone to hit the same pitch. So does the Eventide chorus, if you want it to.

For those times when one great effect is not enough, the DSP7000 and DSP7500 feature a bank of “Multi-effects”. Combine a stereo phaser with reverb or a stereo delay with compression and filtering. Or how about using the “Waterized” preset, a combination of pitch, chorusing and reverb that is absolutely the best underwater reverb available (how's that for a claim!).

Creativity runneth over with our multi-effects program presets. Just don't confuse these with ordinary multi-effects boxes. Lots of boxes generate some semblance of multi-

effects that sound good on paper but sound just terrible to the ear. It takes the massive processing power of the DSP7000 and DSP7500 to deliver great sounding multiple effects. There are no shortcuts.

What's more, we haven't neglected the classic Eventide effects that make audio pros covet even the oldest Eventide boxes. The 7000 series units include practically every one of the many wonderful, classic Eventide effects we've created over the past three decades. Each in a variety of flavors, all in a single box.

## Professional Tools Have To “Feel Right” Too.

The easiest-to-use front panel controls in the industry, the largest LCD display with no indecipherable icons, the famous Eventide knob and keyboard for easy program selection and parameter input. All these may not affect the sound, but they sure make a difference in usability. We started with the DSP4000's well-regarded user interface and then evaluated many comments from Eventide owners to make the operation of the 7000 series even easier and more intuitive.

Digital and analog I/O and preset storage on removable memory cards give you maximum flexibility. And yes, your DSP4000 series memory card presets and program libraries will work on the 7000, with few exceptions. And 24-bit conversion at 96kHz assures flawless audio performance.

## An Architecture You Can Build On.

Eventide's “Effects Modules” building block architecture has been proven to be the most successful approach for creating unique, complex effects.

Ordinary processors have a limited number of fixed processing algorithms, and all their programs and presets can only be variations of that limited repertoire.

In sharp contrast, each of the over 500 factory program and presets in the DSP7000 (and over a hundred more in the DSP7500) are created from a wide array of onboard effects module building blocks – over 150 in all. In effect, each preset is its own unique algorithm. Another key advantage to the Eventide approach is that it makes it possible and practical for users to create their own, totally new and unique effects programs.

DSP7000 Front Panel

