





# The Professional Video SourceBook

# Section 16

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 For Section 16, Computer Audio Plug-Ins use Quick Dial #: 91

## AUTOTUNE 5

### Professional Pitch Correction Plug-in

*Auto-Tune is the multi-platform pitch detection and correction plug-in for Mac and PC considered to be the "Holy Grail of recording" by Recording magazine. Auto-Tune allows you to correct pitch and intonation problems on voice and solo instruments without distortion or artifacts. It is 88.2/96kHz compatible and works on mono and stereo files. Two modes of operation include Automatic where pitch is continuously compared to a user selected scale and Graphical mode which offers more precise control so you can draw specific target pitches. New features include a redesigned GUI with a larger pitch edit display, improved pitch detection algorithm designed to work with noisy audio material, a Humanize function that prevents correction from being too perfect, realtime vibrato adjustment, and much more. Available for TDM, or Native (VST, RTAS and Audio Units) on the Mac (Universal Binaries) and TDM, or Native (VST, RTAS) on the PC.*

- ◆ In Automatic Mode the input pitch is continuously compared to a user-selected Scale and then corrected to the Scale note closest to the detected input pitch
- ◆ Graphical Mode displays the pitch envelope of the audio to be corrected along with a selection of graphical tools that allow precise manipulation of the performance's pitch
- ◆ An Input Type control allows you to choose an appropriate input source algorithm: Soprano Voice, Alto/Tenor Voice, Baritone/Bass Voice, Instrument, and Bass Instrument, ensuring the fastest and most accurate pitch detection and correction
- ◆ Bass Mode allows pitch detection/correction down to 25Hz to accommodate low frequency instruments such as fretless bass

#### Automatic Mode

- ◆ Select any key and scale - minor, major or chromatic as well as 26 historical and microtonal scales.
- ◆ The Retune knob controls how rapidly (in ms) the pitch correction is applied.
- ◆ The Tracking knob controls how much variation in the incoming audio is allowed — useful with difficult to track sounds, such as a breathy or growling voice.
- ◆ Individual notes can be removed from a scale or bypassed. Bypassed notes passed along without correction.
- ◆ Apply pitch correction to a single note in a scale by bypassing all of the notes in the scale except for the problem note.
- ◆ Scales can be de-tuned to any desired pitch.
- ◆ The Humanize function allows you to set a fast retune speed for short notes, while still allowing natural variation in held notes.
- ◆ The Vibrato section allows you to control the depth, rate and onset delay of a performance.
- ◆ The Change meter shows how much the pitch is being changed, measured in cents.
- ◆ The Target Notes Via MIDI button allows Auto-Tune to track pitch in real-time via a MIDI keyboard or sequencer track.
- ◆ The Learn Scale From MIDI function allows you to play a line from a MIDI keyboard or sequencer and let Auto-Tune 3 construct a custom scale containing only those notes that appear in the line.



#### Graphical Mode

- ◆ Graphic mode begins with Tracking mode where an amplitude waveform overview and a pitch graph referenced to the scale selected in Automatic Mode are created across a timeline delegated by the length of the sound file. Once tracking is completed and Tracking mode is disengaged, an amplitude waveform and a detected pitch are displayed.
- ◆ The next step is Correct Pitch mode which provides a number of graphic tools that allow you to actually draw your target pitches across the zoomable timeline. After editing, play the sound file and Auto-Tune will recognize the changes.
- ◆ Horizontal line and curve tools are provided as well as cut, copy, paste and undo functions.
- ◆ Includes Retune and Tracking functions identical to that in Automatic mode.
- ◆ A memory (RAM) buffer allows you to allocate the necessary amount of time to process the sound file in realtime.
- ◆ Auto-Curve function creates an editable curve directly over the detected pitch curve. This allows very precise pitch correction without having to draw each line and curve freehand.
- ◆ NEW in V 5: Sync to host transport (host dependent) allows correction curves to maintain sync with the host program, no matter where a track is played back from.



## AVOX

## Vocal Toolkit

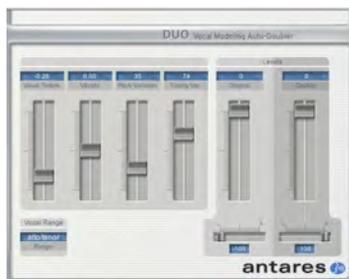
Antares has combined five state-of-the-art vocal processing modules to give you the power you need to create stunning vocal tracks in any musical style as well as design unique vocal effects for audio post-production applications. The Antares Vocal Toolkit for Macintosh and PC includes a suite of five plug-ins: **Throat** Physical Modeling Vocal Designer; **Duo** Vocal Modeling Auto-Doubler; **Choir** Vocal Multiplier; **Punch** Vocal Impact Enhancer; and **Sybil** Variable Frequency Enhancer. AVOX combines five vocal processing plug-ins to give musicians, producers and engineers the power to enhance vocal tracks in any musical style as well as design unique vocal effects for audio post-production applications. AVOX is available for RTAS (Mac OSX and PC), VST (Mac OSX and PC) and Audio Units (Mac OS X).

## THROAT Physical Modeling Vocal Designer

- ◆ THROAT allows you to process a vocal through a physical model of the human vocal tract. This processing can be used to create subtle changes to a voice's quality to extreme effects that go well beyond the limits of physical human anatomy.
- ◆ THROAT works by neutralizing the effect of the original singer's vocal tract and then gives you the ability to specify the characteristics of the modeled vocal tract.
- ◆ Controls allow the modification the voice's glottal waveform as well as the ability to globally stretch, shorten, widen or constrict the modeled vocal tract.
- ◆ The graphical Throat Shaping display lets you adjust the position and width of five points in the vocal tract model, from the vocal cords, through the throat, mouth and out to the lips.
- ◆ The Breathiness controls allow the addition of variable frequency noise to the model, resulting in a range of vocal effects from subtle breathiness, to raspiness, to a full whisper.



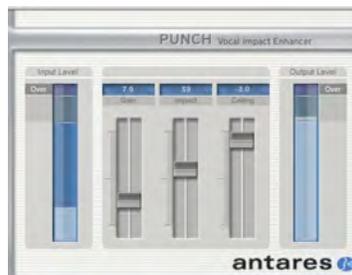
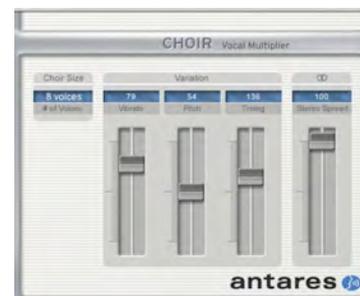
## DUO Vocal Modeling Auto-Doubler



- ◆ Automatically generates a doubled vocal part from any existing monophonic vocal.
- ◆ Unique vocal modeling and vibrato processing technologies create a doubled part that actually sounds like a second singer.
- ◆ Programmable pitch, timing and vibrato depth.
- ◆ A simplified version of THROAT's vocal modeling provides timbral variation for the doubled part.
- ◆ Independent control of the level and stereo position of the original and doubled voices.

CHOIR  
Vocal Multiplier

- ◆ Turns a single voice into 4, 8, 16, or 32 distinct individual unison voices, each with its own pitch, timing and vibrato variations.
- ◆ Each voice can be spread across the stereo spectrum.
- ◆ Multiple instances can be assigned to individual harmony parts, resulting in a larger vocal ensemble.

PUNCH Vocal  
Impact Enhancer

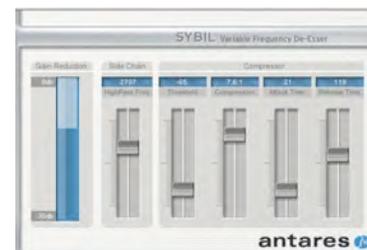
- ◆ PUNCH uses a combination of compression, gain, limiting, and overload protection to add more dynamic impact to a vocal, thus allowing it to cut through a dense mix with greater clarity and power.

- ◆ The intuitive user interface is designed for speed and simplicity.

## SIBYL

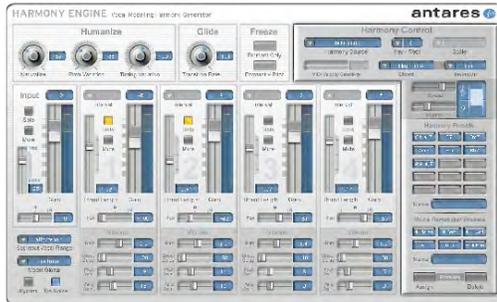
## Variable Frequency De-Esser

- ◆ SYBIL is modeled after the classical vocal de-esser.
- ◆ It employs a compressor with variable threshold, ratio, attack and decay controls as well as a variable highpass frequency sidechain filter to tame unwanted sibilance.



## HARMONY ENGINE

### Vocal Modeling Harmony Generator



*Harmony Engine is an easy-to-use, real-time harmony generating plug-in that gives you total control of up to four independent harmony voices, with professional quality results. Harmony Engine offers a variety of powerful harmony generating modes, allowing anyone from singer/songwriters to experienced, engineers, producers and arrangers create lush, expressive harmonies. Realtime humanization parameters ensure natural sounding performances. Harmony Engine logically thought out tools allow you to quickly and easily produce professional vocal arrangements in virtually any style. Harmony Engine is available for*

*Audio Units, VST, RTAS (Mac OSX), and VST, RTAS (PC, including Vista).*

- ◆ Four high-quality, formant-corrected harmony voices with independent vocal character, vibrato, and pan settings.
- ◆ Antares Throat Modeling technology processes each harmony voice through a physical model of the human vocal tract.
- ◆ There are a variety of innovative Harmony Control modes, from fully automatic to individual control of every note:
  - Fixed or Scale Intervals** - Simply set the key and harmony voice intervals and let Harmony Engine do the rest.
  - Scale Degree or Chord Name** - Define harmony chord-by-chord, complete with inversions and variable vocal ranges.
  - Chord by MIDI** - Define harmony in real time via a MIDI controller or MIDI track.
  - MIDI Omni** - Play the four harmony voices as if they were voices of a synth or sampler.
  - MIDI Channel** - Use four separate MIDI channels for absolute control over each note of a vocal arrangement.
- ◆ Spread and Register controls allow you to quickly and intuitively set the pitch range and harmony style of the vocal arrangement.
- ◆ Humanize functions that provide selectable amounts of variation to each harmony voice for realistic, natural sounding results
- ◆ The Freeze function allows a unique variety of backup vocal effects by making it possible to instantly freeze pitch and/or formant articulation at any point.
- ◆ The Harmony Preset matrix allows the creation of up to 15 complete harmony settings and the ability to instantaneously recall them, in real-time or via automation
- ◆ A Voice Parameter Preset matrix that allows the creation and instantly recall up to 6 different "vocal groups".
- ◆ Five-channel output capability (host dependent) makes it possible to assign or export the original input and each of the four harmony voices to their own channels for further processing.

## ANTARES PRICING

**AutoTune 5 - Native** (Mfr # 24005; B&H # ANAT5) .....CALL  
**AutoTune 5 - TDM** (Mfr # 23005; B&H # ANAT5TDM) .....CALL  
**AVOX Vocal Toolkit** (Mfr # 35000; B&H # ANAVB) .....CALL  
**Harmony Engine** (Mfr # 25001; B&H # ANHE) .....CALL

**AVOX / AutoTune 5 Bundle** (Mfr # 36000; B&H # ANAVATB)  
 For Native applications .....CALL  
**AVOX / AutoTune 5 Bundle** (Mfr # 37000; B&H # ANAVAT5TDM)  
 For TDM systems .....CALL

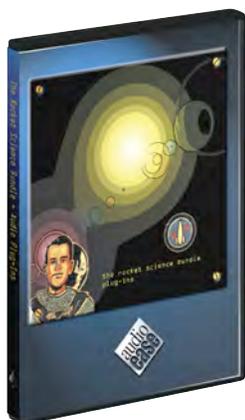


## BBE SONIC MAXIMIZER VST and DirectX Plugin

BBE's world-renowned Sonic Maximizer technology is now available as a VST (Mac and PC) and DirectX (PC) plug-in. Based on the same 4th Generation Processing Engine as BBE's analog processors, the all-digital Sonic Maximizer plug-in delivers detail and punch with high definition sparkle to any audio material. It allows unlimited user-definable presets, real-time preset changes, and takes full advantage of your host sequencers MIDI capabilities. The plug-ins GUI is based on the graphics of BBE's 482i and 882i models with three simple controls: Lo Contour, for regulating the amount of phase corrected bass frequencies; Process, for regulating the amount of phase corrected treble frequencies; and Output Level. A bypass button is also provided for easy A/B comparison. And the

ability to load multiple instances of the plug-in is like having a rack full of Sonic Maximizers at your disposal. (Mfr # BBE2; B&H # BBSMP) .....CALL

## ROCKET SCIENCE BUNDLE



### Roger / Follo / Orbit

Rocket Science Bundle for OSX (Mac G3 and up) consists of three midi-controllable and automatable audio plug-ins for RTAS, HTDM, MAS, Audio Unit and VST, supporting high sample rates and channel configurations from mono-mono up to surround formats.

**Roger** allows you to apply human vowel filters to your audio. Use the vowel bar at the bottom to click through the vowels and click the portrait to select one of the Roger family members. Features include portamento, automation, midi control and rhythmic talk-nonsense mode.

**Follo** dynamically adjusts the peak of a resonating bandpass filter according to the level of the incoming audio. Applications of Follo include an auto wah on a guitar, and a thumping resonating bass generator.

**Orbit** lets you control the virtual position of your sound source. It accurately calculates the sound source's reflections of the walls of a virtual 'outer room', using the exact amount of delay and attenuation for the direct sound and all reflections alike. Use it as a physically correct panner, select from preset source trajectories, or create them yourself via live midi control or parameter automation.

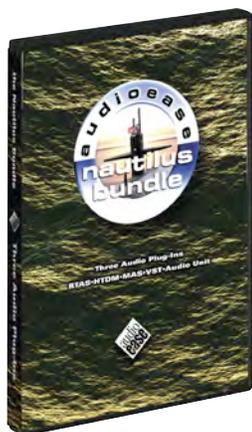


**Rocket Science Bundle** (Mfr # RS; B&H # AURS) .....199.00

**Nautilus Bundle** (Mfr # NB; B&H # AUNB) .....255.00

## NAUTILUS BUNDLE

### RiverRun / PeriScope / Deep Phase Nine



The Nautilus Bundle for OSX (Mac G4 or G5) consists of three Midi controllable and automatable audio Plug-ins for RTAS, HTDM, MAS, Audio Unit and VST, supporting high sample rates and channel configurations from mono-mono up to surround formats.

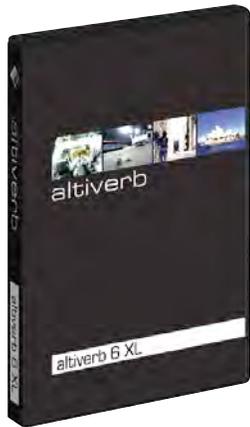
**RiverRun** is a Granular Soundscape Synthesizer capable of oozing immense sonic oceans of tiny particles taken from your original audio. It can build rhythmic textures, wide harmonic soundscapes, and it can zoom in on your fragment by stretching it by a factor of up to 200.

**PeriScope** allows you to look at the audio spectrum via the real-time animating spectroscope, or graphic analyzer, and grab faders where you see the audio happening. Phase Correct EQ, with surgical precision, and unprecedented low frequency resolution. Edit modes range from fluent to massively steep.

**Deep Phase Nine** is a true phaser that offers unprecedented control and visual feedback. Up to 24 notches per channel, beat locked sample and hold, one-shots, a true phaser (not a flanger!) done the Audio Ease way.



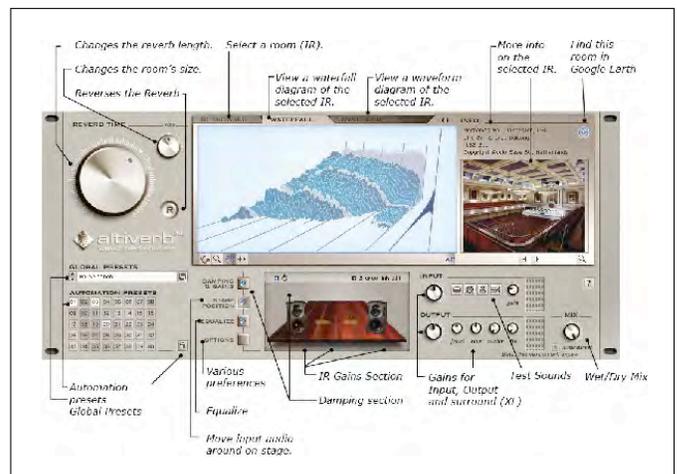
## ALTIverb 6



### Convolution Reverb

*Altiverb 6 is a convolution reverb plug-in for Mac OS X and Windows that uses actual samples of actual acoustic spaces as well as classic hardware processors, known as impulse responses, to offer unprecedented realism. Audio Ease's long history of working with their Altiverb convolution reverb means that you get the greatest number and highest quality impulse responses. These impulse responses range from the Sydney Opera House to the cockpit of a 747 Jumbo Jet. And Audio Ease releases new impulse response, free of charge for Altiverb users, every couple of weeks. Reverbs are available in mono, stereo and even 5.1 surround. Altiverb 6 offers an exhaustive set of editing parameters with full automation capabilities. It supports all professional plug-in formats*

*including AU, MAS, VST and RTAS. Altiverb 6 XL adds protocols TDM compatibility on the Mac. Mac users also have the ability to sample their own spaces to create custom impulse responses. Altiverb 6 has been designed to offer the widest range of options, and the best sound quality while at the same time being efficient on your cpu. Altiverb 6 (Regular) is the Mac and Windows industry standard stereo convolution reverb in post- and music production. Altiverb 6 XL adds Pro Tools TDM support on the Mac, surround reverb and sample rates higher than 96 kHz.*



### Altiverb 6 Regular

- ◆ Windows: VST, RTAS and Audio Suite.
- ◆ Mac OS X: MAS, Audio Unit, RTAS and Audio Suite, Universal Binaries for both Power PC and Mac-Intel Power PC VST.
- ◆ The Full Altiverb Impulse Response library; with new impulse responses available every couple of weeks.
- ◆ 30 automation preset memories for total-recall along with a wide set of automatable parameters.
- ◆ An impulse response browser that replaces the impulse response popup menu.
- ◆ mono to mono, mono to stereo, and stereo to stereo channel configurations.
- ◆ Supported sample rates up to and including 96 kHz.
- ◆ 40 automation preset memories for total-recall via parameter automation.
- ◆ iLok or Challenge-Response authorization.
- ◆ Sample your own spaces or gear (Mac only).
- ◆ Altiverb's main window allows you to quickly browse through the available impulse IRs, view the waveform of the selected IR, and it also offers a 3 dimensional waterfall diagram of the IR that you can use to visualize adjustments made to the IR's early reflection delay, reverb tail, EQ and dampening parameters. When in autofocus mode, the waterfall diagram automatically spins and zooms in or out depending on the parameter being adjusted.
- ◆ On the right side of the Altiverb window you will see a photo or diagram of the space where the currently loaded IR was sampled. You can open up the photos for more detailed viewing as well as view a QTVR movie from the space.
- ◆ You can even approach all venues in Google Earth right from the Altiverb 6 interface.

### Altiverb 6 XL Adds

- ◆ Channel configurations up to 5.1 surround.
- ◆ TDM support, on Mac OS X Pro Tools | HD Accel DSP chips. (support for regular HD chips scheduled for a later release). TDM sample rates supported: 44.1 kHz, 48 kHz, 88.2 kHz and 96 kHz
- ◆ Zero TDM latency at 44.1 kHz and 48 kHz. At 96 kHz sample rate 2 milliseconds latency (0.002 seconds or 200 samples)
- ◆ Supported sample rates for RTAS, VST, AU, MAS and Audio Suite up to and including 384 kHz.

**Altiverb 6** (Mfr # AV; B&H # AUAV): Convolution Reverb Plug-In for Applications Supporting RTAS, Audio Units, MAS and AudioSuite for Mac OS X, RTAS and VST for Windows XP .....**520.00**

**Altiverb 6 XL** (Mfr # AVXL; B&H # AUAVXL): Convolution Reverb Plug-In for Applications Supporting TDM, RTAS, Audio Units, MAS and AudioSuite for Mac OS X, RTAS and VST for Windows XP.....**899.00**

## SPEAKERPHONE



### Speakers Of All Sizes And Their Environments

A speaker simulator plug-in for Mac and PC, Speakerphone is a must have for anyone doing post production audio work or music, and provides authentic speakers of any size along with their natural environments. This could be anything from a GSM-based cellphone on a busy street corner with a bad connection, to a bullhorn with feedback and a helicopter overhead, or a 1952 rockabilly guitar amp in a recording studio live room. Powered by Altiverb, it combines a wide range of tweakable effects including a convolution engine that uses actual samples of hundreds of original speakers, a radio receiver tuning dial, record player scratch and static generator, GSM cellphone data compression, and much more. There's even a full blown convolution reverb for placing the speaker models into real spaces. A 5GB library of samples allows you to add authentic sound fx, ambiences, such as crowd noise, and even music into your productions.

### FEATURES

- ◆ 270 speaker impulse responses powered by Altiverb, 30 Altiverb rooms, 5GB of ambiences and sound FX, conveniently presented to you in 500 presets.

#### Speaker Module

- ◆ At the heart of the speaker simulator is a library of Impulse Responses, or IR's, that are essentially recordings of different speakers.
- ◆ Speaker categories include: guitar amplifiers and cabinets; radios; megaphones and walkie-talkies; phones; and record players; as well as selection of miscellaneous devices.
- ◆ When you click on the speaker category icon, a browser window appears allowing you to select a speaker from the many available categories.
- ◆ The Impulse Responses capture many characteristics, in frequency and time, of the sampled speaker.

#### Room

- ◆ The Room module is a convolution reverb powered by Altiverb. It features IR's from actual spaces ranging from a railway station to the cockpit of a mig fighter plane. Samples of artificial reverbs, such as springs and plates are also provided.

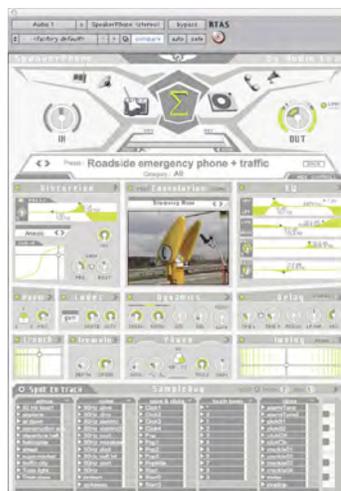
#### Preset Selector and Wet/Dry Slider

- ◆ 500 presets available from the preset browser that appears when you select the preset bar.
- ◆ The horizontal wet/dry control intelligently moves between the wet and dry signals seamlessly, allowing for a gradual morphing between the processed and unprocessed (bypassed) sounds.

#### Sample Bay

- ◆ Several gigabytes of samples and music to build complete environments for speakers. Sample Bay offers 5 tables, each with 12 samples, that are accessible at any time via mouse click or MIDI.
- ◆ The samples range from car doors, and telephone operators to ambiences and music. For example, you can take a studio recorded voice and make it sound like coming from a cellphone, with a bad connection, from the side of a busy highway.

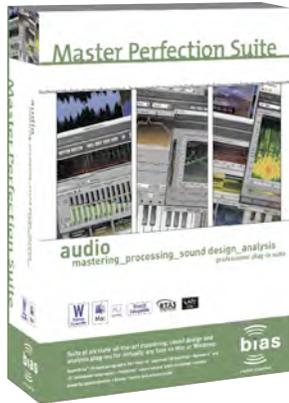
**Speakerphone** (Mfr # SP; B&H # AUSP).....**450.00**



#### Additional Effects

- ◆ The **Distortion** module includes distortion models and waveshapers with variable pre EQ (parametric and a lowpass filter); pre and post Gain; as well as a pre/post selector and a mix control.
- ◆ The **EQ** module offers five types of frequency filters including: Low and High shelving filters; High pass and Low pass filters; and 2 bands of parametric EQ with adjustable Q.
- ◆ The **Gate** and **Compression** module is provided for both utilitarian purposes as well as special effects such as making a connection seem to drop out.
- ◆ **Crush** allows you to reduce word length, from 32-bit to 2-bit, as well as sampling rate.
- ◆ **Phono** is a gramophone effects simulator that adds clicks and pops as well as the 'Wow' effect of an off-center hole.
- ◆ **Mod** (or modulation) offers five types of classic modulation: Tremolo; Chorus; Phaser; Flanger; and Vibrato. Each type has variable depth and speed controls and can be set to either free or sync to host.
- ◆ **Codec** offers a variety of emulations from cellphone connections to whispering and robotic / synth effects.
- ◆ **Mono and stereo feedback** is available with a High and Low pass filter. The delay can be synced to your host.
- ◆ **Tuning** simulates the effects of a radio receiver dial with an X/Y interface the controls intermodulation side tones (vertical) and reception quality (horizontal).

## MASTER PERFECTION SUITE



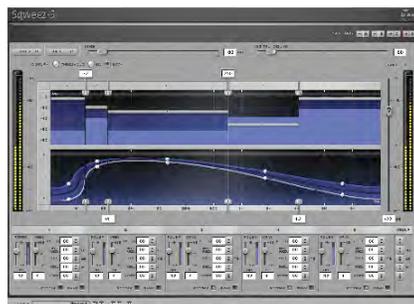
### Six Uniquely Powerful Audio Plug-Ins

*Master Perfection Suite is a powerful ensemble of six professional audio processing plug-ins for both Compatible Audio Units (PPC or Intel Mac only), RTAS/AudioSuite, or VST host (Mac or Windows). The Master Perfection Suite is designed for use by musicians, recording and mastering engineers, audio and video editors, sound designers and other audio professionals. This value-packed bundle, which was once exclusively available and still included as part of Peak Pro XT 5, all you need to perfect your final mix and more. The included plug-ins are includes: Repli-Q (spectral matching), PitchCraft (pitch correction/manipulation), Reveal (analysis), Sqweez-3 & -5 (multi-band dynamic processing), SuperFreq (paragraphic EQ), and GateEx (gate/expander). For today's users of cutting-edge DAW systems, the Master Perfection Suite would be a valuable addition to their arsenal of audio processing tools.*

#### EQ Matching with Repli-Q

Repli-Q's primary goal is to match the spectral characteristics of one source to another target signal. However, Repli-Q offers even greater flexibility by allowing you to decide the smoothness and degree that the spectral characteristics are matched. EQ profiles may be easily edited, allowing greater customization and flexibility. You can use Repli-Q for a wide variety of utilitarian and creative applications. It offers the ability to improve an improperly equalized track. Repli-Q's spectral matching capabilities can assist with mastering for different delivery targets, and can also help ensure equally optimized playback in multiple listening environments, such as MP4 (AAC), CD or DVD. Audio post professionals and broadcasters can use Repli-Q for voice-over matching where an original take recorded in one environment and an overdub recorded in a different environment need to match. Repli-Q's use of a linear phase equalization algorithm ensure optimum results, without distortion or other artifacts. There is also a gain compensation feature that compensates for loudness variations through equalization, and a soft clip button offers limiting to avoid signal clipping.

- ◆ "Learn" Frequency Spectrum Function.
- ◆ Save & Load Learned Frequency Spectrums.
- ◆ User-selectable Reference Frequency Spectrum.
- ◆ Save & Load EQ Function.
- ◆ Spectrum Frequency Matching and Smoothing.
- ◆ Gain Control.
- ◆ Automatic Gain Compensation and Soft Clip.
- ◆ High-Precision Graph With Profile & EQ Spectrum Display.



#### Multi-band Compression with Sqweez-3 and Sqweez-5

There are two powerful multi-band compressor/limiter/expander plug-ins included with The Master Perfection Suite: Sqweez-3 (3 band) and Sqweez-5 (5 band). Like Repli-Q, both Sqweez-3 and Sqweez-5 incorporate advanced linear phase equalization algorithms from BIAS. Sqweez-3 and Sqweez-5 both offer graphic per-band viewing/editing of threshold and EQ. Each band may be soloed and/or bypassed individually, and a convenient "auto gain" button compensates for loudness variations due to compression. Additionally, a variable "digital ceiling" slider controls the clipping headroom of the integrated soft clip function.

- ◆ Automatic Gain Compensation and Soft Clip.
- ◆ User-selectable Digital Ceiling.
- ◆ Integrated Spectrograph Display.
- ◆ High-Precision Input/Output Level Meters and Graphic Display with EQ / Threshold / Both View.
- ◆ Global and per band Gain control.
- ◆ Threshold, Ratio, Attack, and Release controls as well as Maximum Reduction and User-Adjustable Knee.
- ◆ Individual Band Bypass and Solo.
- ◆ Ratio / Max Reduction / Attack / Release / Knee Parameter Grouping.

**Master Perfection Suite** (Mfr # 667100011963; B&H # BIMPS): Mastering and Sound Design plug-in bundle for Mac OS X .....**CALL**

## MASTER PERFECTION SUITE



### SuperFreq: 4, 6, 8, and 10-band Paraphrastic Equalization

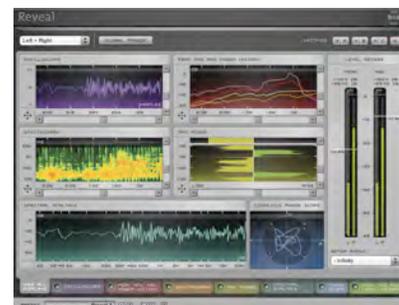
There are four plug-in configurations (4, 6, 8 and 10-band) of the SuperFreq paraphrastic EQ. Each variant is of mastering-quality and includes everything for professional caliber equalization, including  $\pm 24$ dB Gain Values; 0.1 to 30 "Q" (bandwidth) values; sweepable frequencies from 20Hz to 20kHz; individual band bypass buttons, -24dB stereo input/output meters, A/B/C/D Compare Snapshots and filters including Peak, Notch, High Shelf, Low Shelf, High Cut, and Low Cut. Use SuperFreq's knobs to tune settings, or enter numerical values.

- ◆ Peak, High Shelf, Low Shelf, High Cut, and Low Cut filters with  $\pm 24$ dB gain values; 1 to 30 Q values; 20Hz to 20kHz frequency values; and individual band bypass.
- ◆  $\pm 24$  dB logarithmic output level control.
- ◆ -24dB logarithmic meters.
- ◆ A/B/C/D compare snapshots.
- ◆ Numerical value entry fields.
- ◆ Keyboard parameter nudging.

### Professional Audio Analysis with Reveal

Reveal combines seven powerful tools in a single plug-in interface to significantly advance the paradigm of audio analysis tools. These analysis tools include an Oscilloscope, Peak and RMS Power History, Spectrogram, Pan Power, Spectral Analysis, Lissajous Phase Scope and Peak and RMS Level Meters. Each tool can be viewed individually or viewed together in a single window. You can select any tool as desired via a tab style interface, or simply click on a tool to expand its view. Individual tools can be enabled or disabled as desired. There is also a global freeze display feature.

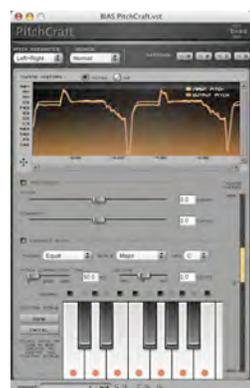
- ◆ User-selectable input source and level meter range.
- ◆ A/B/C/D compare snapshots.
- ◆ Global and individual tool display modes.
- ◆ Global freeze for all displays.
- ◆ Numerical value entry fields.
- ◆ Keyboard parameter nudging.



### Advanced Pitch Correction and More with PitchCraft

PitchCraft is a multipurpose plug-in that can be used for real-time pitch correction/transposition, harmony creation as well as a number of creative effects. PitchCraft's powerful pitch-shifting algorithm allows you to fix out-of-tune vocals or other single voice instruments easily and with minimal artifacts. The GUI offers intuitive controls with a useful graph that displays the original pitch over time against the corrected signal. You can create your own custom scales directly or via a MIDI controller keyboard. A handy tuning meter helps provide feedback during parameter adjustment. Transposition can be made independently of correction, and an independent formant shifting slider is also included to transform voice genders, with or without pitch correction.

- ◆ User-selectable Reference Source; Pitch Range; Pitch Correction Tuning; Pitch Correction Scale; Pitch Correction Key; Pitch Correction Time; and Detuning.
- ◆ Formant Modification and automatic Formant Preservation.
- ◆ High-precision graph with Tuning History Display.
- ◆ Custom Tuning Scale.
- ◆ Tuning meter.
- ◆ A/B/C/D compare snapshots.
- ◆ Numerical value entry fields.
- ◆ Keyboard parameter nudging.



### Gate and Downward Expand with GateEx

GateEx is a professional quality Gate/Expander plug-in featuring waveform and graph displays and a suite of advanced parameter controls that effectively removes signals below an assignable threshold while the integrated downward expander helps reduce residual unwanted content. For anything from gating snare drum hits, or areas of near silence between vocal or instrument passages, GateEx is an excellent compliment to the high-end Master Perfection Suite.

- ◆ High-precision input/output level meters.
- ◆ Controls include Threshold; Attack; Release; Depth; Hold; Hysteresis; Lookahead; Ratio; and Gain.
- ◆ Waveform display with Integrated Gate Threshold.
- ◆ High-precision graph display.
- ◆ A/B/C/D compare snapshots.
- ◆ Numerical value entry fields.
- ◆ Keyboard parameter nudging.



## SoundSoap 2 & SoundSoap Pro



### Audio Noise Reduction

*Sound Soap is an easy-to-use, professional-quality noise reduction software designed for videographers, multimedia & web developers, music & audio enthusiasts & others. By simply adjusting just two knobs, anyone can remove unwanted hiss, room noise, rumble, electrical hum, and other background noise from almost any digital media file. These include digital video (DV), PowerPoint, Flash and digital audio workstation tracks, as well as cassette or other analog tape recordings that have been transferred to a computer. Sound Soap works by removing "broadband" noise (such as room noise, tape hiss, road noise from a moving vehicle, or noise from air conditioners). It also removes low-frequency rumble, as well as hum - the 50 and 60Hz electrical "buzzing" sound common in many audio recordings. It can even learn the difference between the noise and the desired audio - achieving amazingly effective results. With moderate or subtle noise problems, Sound Soap can make the difference between a project that sounds amateurish and one that sounds professional. Sound Soap can even salvage otherwise unusable audio files.*

- ◆ Reduces clicks and crackles, hiss, hum & buzzing, rumble and most other noise while preserving the quality of the original audio.
- ◆ The ideal audio companion for almost any digital camcorder; video editing software; audio CD burning software; digital audio workstation; audio enabled website; presentation software; or other multimedia application.
- ◆ Runs as a standalone application, or as a plug-in with any compatible Audio Units, DirectX, RTAS or VST host.
- ◆ Easy and intuitive GUI makes cleaning audio a snap.
- ◆ Standalone version works with most QuickTime or Windows Media compatible audio or video file (AVI, DV, .WAV, SDII, AIFF, MP3, MP4 and many more.)

### SoundSoap Pro Adds

- ◆ Fastest, most advanced noise reduction and audio restoration solution available.
- ◆ Unsurpassed combination of performance, speed, and control — all with minimal unwanted sonic artifacts.
- ◆ Integrated approach offers four noise reduction & audio restoration tools in a single plug-in; interface suggests order of operations to achieve optimal results.
- ◆ Total store/recall of all parameters.
- ◆ ABCD Compare function offers instant comparison of up to four different settings.
- ◆ Real-time spectrogram provides constant, global visual monitoring of spectral noise; color coding lets users discern problem areas & make required adjustments, while listening to & watching the immediate results.
- ◆ Bypass function bypasses processing either globally or for each tool.
- ◆ Thumbnail view shows each tool's parameters with a minimum of screen real estate.

### The SoundSoap 2 Interface At A Glance

The Noise Tuner control helps you manually "tune in" the noise you want to remove.

The unique Wash Window lets you watch and listen to SoundSoap 2 work.

Manually adjust the amount of noise reduction.

Enhance slider for additional tone control

Virtually eliminate low frequency noise, or "rumble" such as turntable motor noise, an idling truck, or any noise below 40 Hertz.

60 Hz or 50 Hz Hum removal (typically introduced by electrical interference).

The one-step Learn Noise button automatically reduces unwanted noise. Manual control is also available for more advanced applications.

Noise Only mode lets you listen only to the noise being removed — ideal for fine-tuning SoundSoap 2's controls.

Preserve Voice button helps reduce noise (and other audio) outside of the range of the human voice.

A single slider removes pops, clicks and crackles without affecting the audio you want to keep!

**SoundSoap 2** (Mfr # 667100009670; B&H # BISS2) .....**99.00**

**SoundSoap Pro** (Mfr # 667100008949; B&H # BISSP) .....**CALL**



# SoundSoap Pro

**Hum & Rumble** tool effectively eliminates buzzing & hum from RFI, EMI and other sources; 20 - 500 Hz with Q (Hum & Rumble), and up to 9 harmonics (Hum); also reduces low-frequency and subsonic rumble. The Hum Frequency Slider allows you to reduce a specific frequency.

**Click & Crackle** tool is ideal for digital transfers of vinyl records; also a great problem solver for pops and other brief, transient problems.



Noise Gate



Broadband

**Noise Gate** effectively silences noise that falls between desired program material; also useful for creating a variety of extreme special effects.

	SOUNDSOAP PRO	SOUNDSOAP 2
Advanced Broadband Noise Reduction	✓ (512 bands; 12 T/R sliders)	—
Basic Broadband Noise Reduction	—	✓ (512 bands; 2 T/R knobs)
Automated Attack/Release Settings	—	✓
Variable Attack/Release Settings	✓	—
Advanced Hum & Rumble Removal	✓	—
Basic Hum & Rumble Removal	—	✓
Advanced Click & Crackle Removal	✓	—
Basic Click & Crackle Removal	—	✓
Advanced Noise Gate	✓	—
Standalone Operation	—	✓
Plug-In Host Formats Supported	VST, RTAS, AU, DirectX	VST, RTAS, AU, DirectX
Basic visual display of noise	—	✓ ("Wash Window")
Advanced visual display of noise	✓ (Professional Spectrogram)	—
Platforms	Mac OS X, Windows XP	Mac OS X, Windows XP

**Broadband** provides deep, sonically transparent elimination or suppression of tape hiss, tire noise, wind, HVAC noise, fluorescent lighting noise & other continuous broadband problems. It operates across 512 distinct audio bands (controlled by 12 Threshold & reduction sliders with grouping capability). It also features variable attack, release, and tilt for even greater control.

# CHANDLER



## EMI TG12413 Limiter Pack

An emulation of the compressor/limiter from the legendary EMI TG12345 mixing console, which was used on many classic recordings such as The Beatles' Abbey Road and Pink Floyd's Dark Side of the Moon. There are two plug-ins included in the TG Limiter Pack: the 1969 version is modelled on the original design of the TG12345 console, and the '2005' module, which is based on Chandler Limited's TG1 compressor / limiter. The '1969' is ideally suited to more subtle limiting applications, while the '2005' plug-in offers extra gain that hits much harder. The plug-ins function as a 2:1 compressor or as a limiter with up to 20dB of gain reduction. In addition, they can be used in multi-channel configurations, supporting up to 7.1 surround operation. The TG12413 Limiter Pack is available for Pro Tools HD, LE, and M-Powered systems as well as VST and AU.

**EMI TG12413 TDM** (Mfr # EMITG12413; B&H # CHEMITG).....**279.95**

**EMI TG12413 Native**.....**CALL**

## EMI TG12412 Mastering EQ & EMI TG12414 Presense Filter

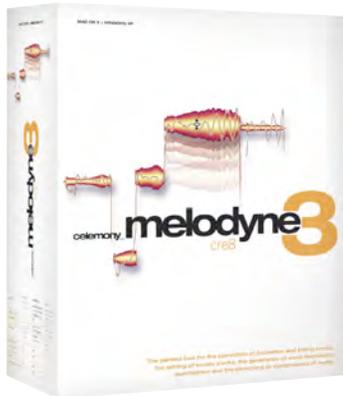
The TG Mastering Pack contains emulations of EQ and filter modules from the original EMI TG12410 transfer console. These consoles have been the centerpiece of Abbey Road's mastering rooms for more than thirty years. They were never sold commercially and were only available to EMI studios. The console's Tone Control and Filter modules have been secret weapons of Abbey Road mastering engineers and these were studied and modelled to create the TG Mastering Pack. The plug-ins bring the warm, musical sound of the original hardware to the Pro Tools environment. The TG12412 is a four-band, semi-parametric EQ with selectable frequencies and curve shapes on each band. The Shape control provides the shelving and variable bell curves from the original module. The TG12414 provides a presence section and low- and high-pass filters. The presence section is the same as the presence EQ on the legendary TG12345 console.



**TG Mastering Pack TDM**.....**CALL**

**TG Mastering Pack Native**.....**CALL**

## Melodyne PITCH SHIFTING AND TIME STRETCHING SOFTWARE



Available as a standalone application for Windows and Mac OS X, and now a plug-in, Melodyne allows you to pitch shift and time stretch audio with extraordinarily natural results. The Melodyne range of software is the ideal tool for correcting intonation, quantizing audio, and building harmonies as well as remanipulating the melody, tempo or timing of your recordings. There are three standalone versions of Melodyne: **Melodyne Uno**, which offers monophonic (one track) audio editing; **Melodyne cre8**, with support for up to 8 audio tracks; and **Melodyne Studio**, which supports unlimited tracks, and manipulation of polyphonic audio data allowing you to edit entire songs. Each of the three standalone versions are ReWire compliant, allowing you to integrate them with any of the major computer-based DAWs. Additionally, Melodyne CRE8 and Studio can be seamlessly integrated into your DAW system via the Melodyne Bridge, an effect plug-in (VST, AU, RTAS, DXi) that gets loaded into your host sequencer, thus allowing audio from the host to be routed to Melodyne for processing, and then routed back again to the host. **Melodyne Plugin**, integrates the Melodyne's most important capabilities directly into your host sequencer. Melodyne Plugin supports VTS, AU and RTAS and provides the fastest way of accessing the power of Melodyne from within your DAW.

### Melodyne Uno

- ◆ Mono pitch-shifting and time-stretching of mono or stereo audio files for vocal production, editing melodies and grooves, and for correcting audio recordings.
- ◆ A simple yet effective tool for fine-tuning vocals and reshaping melodies.

#### Easy and Intuitive User Interface

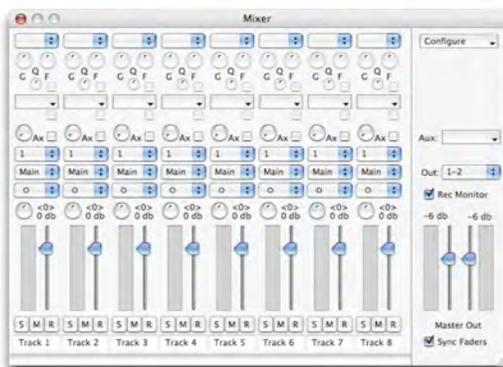
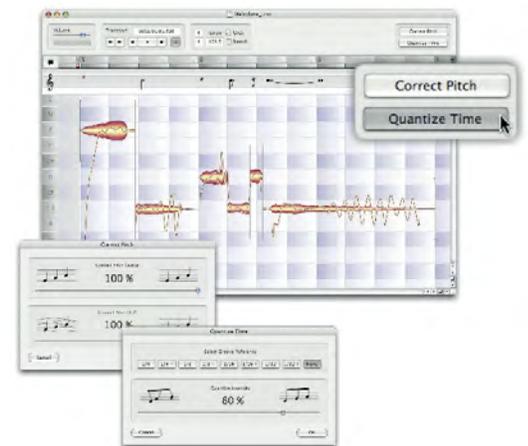
- ◆ Can be used as a straight-up standalone application or can be integrated with your host sequencer via ReWire.

#### 'Correct Pitch' and 'Quantize Time' Macros

- ◆ The Correct Pitch macro allows you to correct the pitch of out-of-tune notes and eliminate ugly pitch drift from a recording with two mouse clicks.
- ◆ The Quantize Time macro offers a quick and convenient way of correcting timing and duration errors.

#### Melodyne Uno

(Mfr # 1011014; B&H # CEMU) .....CALL



The Melodyne Mixer (OS X) used in Melodyne cre8 and Studio

#### Melodyne cre8

(Mfr # 1011024; B&H # CEMC83) .....CALL

### Melodyne cre8

#### Melodyne cre8 adds—

- ◆ Complete multi-track arrangements (up to eight audio tracks).
- ◆ Can import Liquid Instruments and Melodyne Sound Library.
- ◆ MelodyneBridge and ReWire integration.
- ◆ Melody Manager file browser lets you navigate efficiently through your library by displaying the musical contents of your audio files and audition select parts of the files.

#### Audio-to-MIDI function

- ◆ The pitch, dynamics, tempo & phrasing can be accurately from an audio performance and converted into MIDI data, where it can be played back via a software instrument. For instant gratification a simple comes installed.
- ◆ The data generated with audio-to-MIDI can be exported as a MIDI file for further editing in your host sequencer.
- ◆ Additionally, Melodyne parameters can be controlled remotely via MIDI and automated.

# CELEMONY

## Melodyne PITCH SHIFTING AND TIME STRETCHING SOFTWARE

### Melodyne Studio



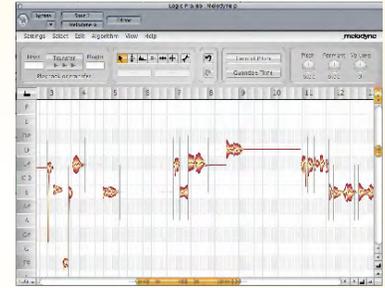
#### Melodyne Studio Adds—

- ◆ Support for unlimited audio tracks with a resolution of up to 32-bit / 192kHz.
- ◆ Powerful editing algorithm supports polyphonic audio material including chords or entire song mixes — A remixer's dream come true!

**Melodyne Studio** (Mfr # 1011025; B&H # CEM3).....CALL

### Melodyne Plugin

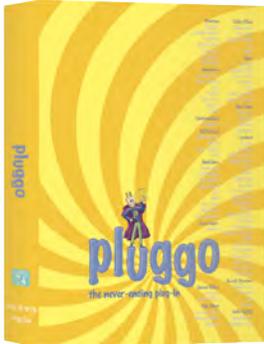
- ◆ Runs as plug-in (VST, AU, RTAS) in your host sequencer.
- ◆ Ideal for the correction and optimization of vocals.
- ◆ Suitable also for single-voice instruments, drum loops and percussion.
- ◆ Intuitive note-based editing.
- ◆ Control of pitch, time, length, volume and formants of each note.
- ◆ Best quality pitch-shifting and time-stretching.
- ◆ Swift operation, scale snap, multi-level Undo function.
- ◆ Realtime control and automation for pitch, formants and volume.



**Melodyne Plugin** (Mfr # 1011043; B&H # CEMPI) .....249.95

	Uno	Plugin	cre8	Studio
Main differences	One-track audio editor	Plug-in	Multitrack (up to 8 tracks)	Multitrack (no limit)
Manual editing and correction of pitch and timing of notes	✓	✓	✓	✓
Automatic correction of pitch and timing	✓	✓	✓	✓
Restructuring of melody and phrasing	✓	✓	✓	✓
Rearranging (cut/copy/paste)	✓	—	✓	✓
Adapting audio tracks to different tempo	✓	✓	✓	✓
Quantize to a reference track	—	—	✓	✓
Generation of multiple parts (e.g. vocal harmonies) from one part	—	—	✓	✓
Remote control of parameters	—	MIDI/automation via host	MIDI	MIDI
Import of Melodyne Sound Library	—	—	✓	✓
Audio-to-MIDI	—	—	✓	✓
Platform/OS	Win XP, Mac OS X			
Universal Binary	✓	✓	✓	✓
Number of tracks	1	1 per instance	8	Unlimited
Integration in host programs	ReWire	VST, AU, RTAS	VST, AU, RTAS, DXi (via MelodyneBridge) ReWire	VST, AU, RTAS, DXi (via MelodyneBridge) ReWire
Source material	WAV, AIFF, SD2, mono and stereo, melodic, rhythmic	WAV, AIFF, SD2, mono and stereo, melodic, rhythmic	WAV, AIFF, SD2, mono and stereo, melodic, rhythmic	WAV, AIFF, SD2, mono and stereo, melodic, rhythmic chords, full stereo mixes
Max. resolution and sample rate (bit/kHz)	24/96	32/192	24/96	32/192

## PLUGGO 3.5

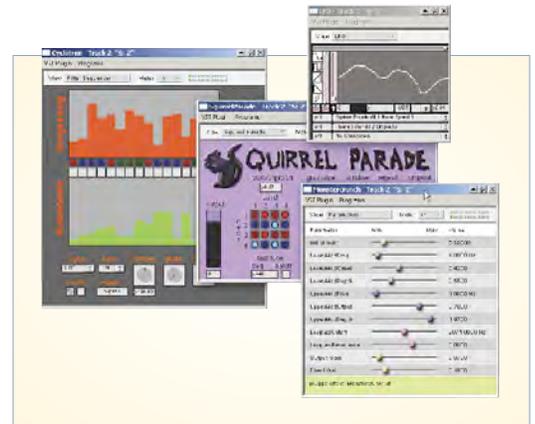


### The Never Ending Plug-in

*Pluggo 3.5 is a collection of more than one hundred audio plug-in effects and instruments that were designed using the MAX/MSP audio programming environment. Pluggo's vast array of plug-ins includes Synthesizers, Delay Effects, Filters, Filter/Delay, Pitch Effects, Distortion, Granulation, Spectral Effects, Audio Routing, multichannel, Modulators, Reverb/Dynamics, Synchronization and more. Pluggo will work with any host application that supports Audio Unit, VST, and RTAS plug-in formats. Pluggo Version 3.5 is available for Windows XP and Mac OS X.*

- ◆ Virtual instruments cover a wide range of synthesis types including subtractive and additive synths, analog-modeling drum and percussion synths, sampling, granular synthesis, FM synthesis, and waveshaping.
- ◆ Combine instruments with Pluggo effects plug-ins and modulator plug-ins for a never ending supply of sonic possibilities.
- ◆ MIDI support and host synchronization for Audio Units, VST, and RTAS host applications. Pluggo plug-ins support beat-synchronized parameter changes, sample-accurate tempo sync for a plug-in's modulating LFOs, and tempo-relative settings for plug-in parameters such as delay time.
- ◆ Max/MSP developers can develop their own MIDI processor plug-ins and virtual MIDI instruments.

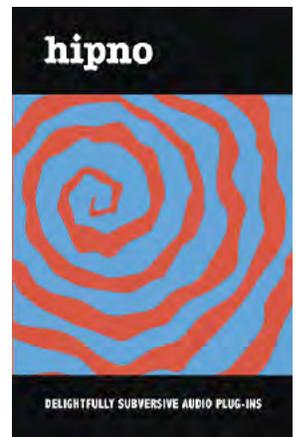
**Pluggo** (Mfr # PLUGGO\_PKG; B&H # CYSWP): For Mac OS X and Windows XP .....**149.95**



## HIPNO Delightfully Subversive Audio Plugins

*Hipno is a suite of over forty effects and instrument plug-ins for VST and RTAS (Mac and PC), and AU (Mac only) host applications. Hipno features a mix of granular, spectral, and filter/delay-based plug-ins featuring the unique Hipnoscope GUI which allows you to create, control, and explore complex preset morphs and interpolations with a flick of the wrist.*

*In fact, the Hipnoscope Interpolator allows you to morph between up to eight presets (or "snapshots") at a time. Also included is a set of processors that utilize live video input as a control source, such as your webcam. Additional modulator plug-ins allow you to manipulate other plug-ins using alternate control sources such as a USB game controller. Bus plug-ins such as Bus.Xover and Bus.Envelope, which work in the background of your host, make it possible to create individual chains of audio processed based on the frequency content or volume level of a track. Hipno also supports sync capabilities with your host sequencer. Hipno's XML-based Import and Export feature allows you to share presets made within one DAW to be used in others.*



**Hipno** (Mfr # HIPNO\_PKG; B&H # CYSWH): For Mac OS X and Windows XP .....**162.50**

## OCTIRAMA 5.1 Dynamics Processing for Pro Tools TDM



Octirama is a full-featured dynamics processor for 5.1 surround mastering for the Digidesign TDM environment. Octirama incorporates sophisticated four- and five-band processing for each of five channels plus sophisticated bass management for precise control of peaks and loudness. Developed by Plantronics Volume Logic Group using patented techniques to provide DSP efficiencies allowing a full-featured dynamics processor to run on a single 56000 chip. Features for each of the 5 surround channels include an input AGC (Automatic Gain Control), four- or five-band dynamics processor, five in-band peak limiters, band mixing, and a final peak limiter. Over 40 simultaneous meters provide detailed information on gain reduction, downward expansion, and output levels. Unlike other multi-channel dynamics processors, Octirama's processing algorithm preserves the surround image. Mac OS 10.3 or later running Pro Tools 6.4 or later. Pro Tools HD system with HD Accel card.



Octirama (Mfr # OCTIRAMA\_PKG; B&H # CYSWO): For Digidesign Pro Tools HD Systems, Mac OS X 10.3 or later.....**403.95**

Octirama (Mfr # OCTIRAMA\_PKG; B&H # CYSWO): For Digidesign Pro Tools HD Systems, Mac OS X 10.3 or later.....**403.95**



## UpMix

### Stereo to 5.1 Audio Conversion Tools

UpMix has been developed and tested by a team of surround sound professionals and utilizes proprietary algorithms to convert stereo audio into an immersive 6-channel mix suitable for film, DVD, HD broadcast and music surround formats. UpMix is compatible with VST, RTAS and AU hosts and it provides the tools you need to create professional surround mixes from stereo source material. Additional utility plug-ins complement UpMix with useful surround mixing features such as image rotation and LFE enhancement.

UpMix (Mfr # UPMIX\_PKG; B&H # CYSWUM): For Mac OS X and Windows XP .....**379.95**

#### The UpMix Plug-ins

In addition to the UpMix repurposing plug-in, additional plug-ins are provided for common surround tasks required by professionals:

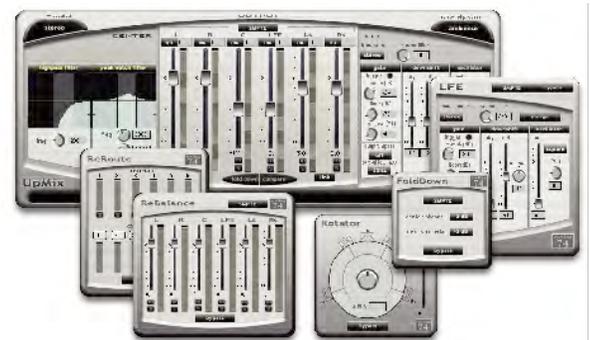
**Rotator** offers a means to move a 6-channel mix in a circular fashion — allowing the point of view to follow the on-screen action.

**ReRoute** lets you change the output channels of your audio to match your system's internal routing.

**ReBalance** is a simple set of faders for each of the surround channels.

**FoldDown** allows you to quickly check your surround mix in stereo, with center channel and surround channel gain reduction.

**LFE-6chan** is a low-frequency generator/adjustor.



#### Features

- ◆ Stereo-to-5.1 upmixing with integrated mixer, ambience generation, LFE generation and enhancement.
- ◆ Folddown button allows you to check surround mix in stereo.
- ◆ Mirror button lets you hear stereo source doubled in surround channels.
- ◆ Compare button lets you switch between original and immersive mix.

UpMix (Mfr # UPMIX\_PKG; B&H # CYSWUM): For Mac OS X and Windows XP .....**379.95**

### CLOCKWORKS LEGACY The Five Original Eventide Processors



The Clockworks Legacy collection consists of five plug-ins, based on legendary Eventide hardware processors for Digidesign Pro Tools TDM systems: the H910 harmonizer, Omnipressor, Instant Phaser, Instant Flanger, and H949 harmonizer. Each plug-in has been meticulously rendered by the Eventide engineers to faithfully recreate, the unique characteristics of the original hardware. Each plug-in allows full automation and MIDI control, and control surface support to take full advantage of the power and flexibility of Pro Tools.

The **Omnipressor (1971-1984)** is a compressor with an attitude. The Omnipressor simultaneously compresses and expands, and was widely used on hit records throughout the last thirty years.

The **Instant Phaser (1971-1977)** is based on the very first phaser, a single function analog processor featuring a sweeping filter bank. Led Zeppelin used it on their legendary song "Kashmir".

The **H910 (1975-1984)** is the plug-in recreation of the very first Harmonizer effects processor used by such luminaries as David Bowie producer Tony Visconti and guitarist composer Frank Zappa.

The **Instant Flanger (1976-1984)** is the plug-in recreation of one of the first hardware products to recreate "flanging." The plug-in provides the ability to choose or combine modulation sources together including the LFO, or input signal (envelope follower), or manual sweep which can be controlled by MIDI.

The **H949 (1977-1984)** took pitch changing even further. The plug-in recreates the unique random feature which creates slight variations in delay resulting in a less "mechanical" sound. The original can be heard on countless hit records of the last twenty five years.

**Clockworks Legacy** (Mfr # CLOCKWORKSLE; B&H # EVCL): For Mac OS X .....**495.00**

### ANTHOLOGY II The Complete Collection of Eventide Plug-ins

The next generation of Eventide's most comprehensive plug-in bundle for TDM platform. Anthology II features fifteen plug-ins, including the entire Clockworks Legacy collection, giving artists and engineers unprecedented production capabilities in one package. It includes everything you need for your next production including complete channels strips, 48-bit double precision vintage EQs, Reverb, multi effects, and of course Eventide's legendary harmonizers.

#### Anthology II contains all of the Clockworks Legacy plug-ins PLUS:

**E-Channel** is a configurable channel strip with gate, compressor/limiter with sidechain, and 5-band 48-bit double precision parametric EQ.

**EQ45 Parametric Equalizer** is a vintage 48-bit double precision 4-band equalization with high and low cut 12dB/octave filters.

**EQ65 Filter Set** is a vintage 48-bit double precision high and low cut 18dB/octave filters, plus 2-band reject or band pass filters.

**Eventide Reverb** offers 9 room types from the H8000 with 3-band parametric EQ (pre- and post-reverberator), a compressor and stereo delays.

**H3000 Band Delays** offer eight voices of delay with modulating filters; includes the Function Generator with 19 waveshapes.

**H3000 Factory** allows you to patch together any combination of 18 effects; includes the Function Generator with 19 waveshapes.

**Octavox** is an eight-voice diatonic Harmonizer pitch shifter.

**Precision Time Align** is a track phase alignment tool.

**Quadravox** is a four-voice diatonic Harmonizer pitch shifter.

**Ultra-Channel** is a configurable channel strip with gate, compressor/limiter with sidechain, Omnipressor dynamics processor, 5-band 48-bit double precision parametric equalization, micropitch shifting and stereo delays.

**Anthology II** (Mfr # ANTHOLOGYII; B&H # EVANTHOLOGY2): For Mac OS 9 and X, Windows XP .....**995.00**



H3000 Band Delays

EQ45 - Parametric EQ

**REVERB**



**Multi-Effects Plug-in for Pro Tools TDM**

*Reverb is a multi-effects plug-in for Pro Tools TDM that brings the best reverbs from their flagship Orville processor to the computer-based DAW. The Eventide Reverb plug-in provides the desktop community with the same flexibility and tone shaping capability that high-end studios have enjoyed for generations using Eventide's legendary hardware processors. The single graphical user interface features all of the plug-ins tools in a single window. The unique snapshot feature provides an intuitive way to capture or recall parameter settings with a single mouse click. The Eventide Reverb plug-in uses the highest quality reverb algorithms from the hardware-based Orville, including halls, chambers, plates, rooms, and Lo-Fi effects. Each reverb type offers three-band stereo parametric equalization both before and after the reverb, reverb contour for built-in tone shaping, a pair of delay lines with filters, and a high-quality compressor.*

**Reverb** (Mfr # REVERB2016PI; B&H # EVER): For Digidesign Pro Tools TDM Systems running under Mac OS 9.2.2 and OS X 2.4 and greater.....**699.00**



**OVER LOUD**

**BREVERB** Algorithmic Reverb Plug-In

*Breverb is a high-end algorithmic reverberation plug-in which faithfully recreates the sound of revered hardware reverbs while keeping the CPU load very low. Breverb combines a hardware-like user interface with the flexibility of a well thought-out software plug-in and uncompromising sound quality, offering much more flexibility than a convolution reverb. It includes*

*four algorithms, Hall, Room, Plate, and Inverse, each one accurately engineered and developed using advanced research methods. The processing algorithms offer the same astounding sound in terms of color and detail that distinguished high-end outboard reverberation units from software plug-ins. Breverb features the same kind of control and feel users can get from top notch hardware reverberation units, giving them effortless and immediate control over all of the parameters. It allows the user to dynamically map parameters to six assignable controllers and to store, recall, and automate presets in any way he or she wants.*



- ◆ Four main algorithms: Hall, Room, Plate and Inverse.
- ◆ Modeled after the most sought-after hardware units.
- ◆ Full EQ section to tailor Breverb's frequency response.
- ◆ Extended Nonlinear section to forge reverberation shape.
- ◆ "Motion" controls add life and musicality.
- ◆ Two different user interface modes: compact and hardware-like.

- ◆ Six fully-assignable hardware-like faders.
- ◆ Full automation capability through host sequencers.
- ◆ Very low CPU usage: up to eighty stereo instances can be opened on a Pentium 4 3GHz processor.
- ◆ Host-sync of all rates and times.

**Breverb** (Mfr # OL-BRE; B&H # OVBREVERB)  
For Mac OS X 3.9 or later, and Windows XP.....**379.00**

## AmpliTube 2 Guitar Amp Modeling and Effects Plug-In



A complete guitar amp and effects processing plug-in that includes everything needed to create an infinite palette of exquisitely modeled guitar tones. It offers a comprehensive collection of modern and vintage guitar Amp and Effects, with 14 Preamps and 14 Amp EQs, 7 Power Amps, 16 Cabinets, 6 Mic models with 4 placement options each, 21 Stomp Effects, 11 Rack Effects and more! All this with 5 separate, neatly organized, modules: Tuner, Stomp, Amp Head, Mic'd Cabinet and Rack Effects, on 2 series/parallel guitar rigs. Dynamic Saturation Modeling technology offers the capability to accurately model real sonic qualities of hardware gear to provide superior tones. Over 80 guitar gear emulations with popular amp models based on Fender, Vox, Marshall, THD, Supro and more. You also get rare vintage gear sounds with Stomp Box effects. When you add it all up, you can mix and match amp components to build your own custom amp within 20,000 amp combinations. And there are over 400 different programmed guitar Amp and Effects preset combinations covering virtually any famous signature guitar tone you may dream of.

### Five Separate Modules: Tuner + Stomp + Amp + Cabinet & Mic + Rack



- ◆ You can have two complete guitar rig chains that include 2 separate sets of Stomps, Amp-Heads, Cabinets+Mics and Rack effects.
- ◆ DSM, or Dynamic Saturation Modeling, offers spot-on emulations of analog circuitry in order to bring out all of the dynamic nuances that a guitarist expects.

- ◆ Includes VST, RTAS and AU plug-Ins as well as a standalone version.
- ◆ Both Stomp and Rack effects can be freely arranged in the available slots for super flexible routing.

**AmpliTube 2** (Mfr # AT-200-HCD-IN; B&H # IKAT2PI)  
For Mac OS X and Windows XP / Vista .....**CALL**

## Ampeg SVX Bass Amp Modeling Plug-In

IK Multimedia and the legendary bass amp manufacturer Ampeg have conspired to develop Ampeg SVX: a virtual studio solution for bass amp modeling and effects. Ampeg SVX makes 20 bass-amps instantly available to computer musicians and allows you to mix and match between amps and cabinets of the most sought-after Ampeg bass amps including SVT Classic, SVT 5 PRO, BA500 and B15R. Ampeg SVX also includes a fully configurable 6-stompbox pedalboard with 10 different effects, all designed specifically for bass. Ampeg SVX allows two parallel signal paths for separate direct bass sounds to be mixed with a different processed and amped sound on the other channel for an instant top quality studio sound. Ampeg SVX ships with a massive selection of presets, allowing fast access to bass tones.



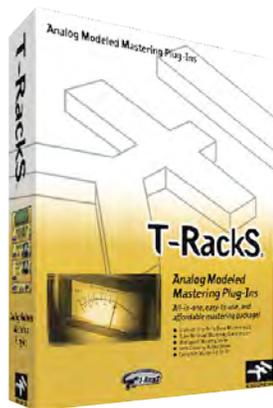
- ◆ 4 Modules: Tuner, Stomp, Amp, Cabinet+Mic selection and placement
- ◆ Four signature bass amps and five cabinets modeled to create 20 combinations
- ◆ 10 analog-modeled stomps (EQ, Delay, Filter, Modulation, Distortion and Compression).

**Ampeg SVX** (Mfr # AP-PLUG-HCD-IN; B&H # IKASVXPI)  
For Mac OS X and Windows XP .....**CALL**

**Ampeg SVX Crossgrade** (Mfr # AP-PLUG-USL-IN; B&H # IKASVXPICG) : For registered owners of AmpliTube 1, 1 LE/SE, 1 Live and AmpliTube 2 .....**CALL**

## T-RACKS • T-RACKS 24

### All-in-One Analog Modeled Mastering Plug-in and Application



*T-RackS has everything you need to create superb, tube-toned masters on your desktop. Its rich, warm sound starts with algorithms based on true analog circuitry. Its familiar interface makes it easy to control five powerful processors: a state-of-the-art EQ, a classic tube modeled compressor, a multi-band master limiter, soft-clipping output stage, and a complete mastering suite. Enhances mix frequencies, stereo images, dynamic range and gives your audio a seamless, top notch sound. With separate processors and ease-of-use, you'll be putting a polish on your tracks*



*you may have never thought possible. All this, while adding the beautiful warmth and space of the tube devices it emulates. No other plug-in offers this kind of dedicated environment. T-RackS is also available as a standalone mastering suite (T-RackS 24).*

Five sound processors essential for creating final masters: analog-modeled EQ, Compressor, Limiter and a Soft-clipping output stage. And not only does it sound analog, it acts analog, with an interface that resembles a typical rack of hardware with analog controls.

#### Equalizer

- ◆ State-of-the-art six band parametric EQ modeled on classic top quality analog gear.
- ◆ 4th order parametric, High and Low pass filters.
- ◆ Parametric EQ Controls: Low-shelving; Lo-mid with Low or High "Q"; Hi-mid with Low or High "Q"; High-shelving.

#### Limiter

- ◆ Multiband stereo limiter.
- ◆ Ultra fast peak detection.
- ◆ Overload for accurate control of limiting and saturation.
- ◆ Soft clipping feature for warm analog emulation.
- ◆ Comprehensive gain reduction VU.
- ◆ Very accurate peak LED indicators at the outputs.

#### Compressor

- ◆ Vintage-style, classic tube stereo compressor/ leveler.
- ◆ Classic warm "in-your-face" sound of old tube levelers.
- ◆ Very-soft knee compression with no threshold point.
- ◆ Stereo-image width control.
- ◆ Mastering-oriented variable time constants.
- ◆ Comprehensive and accurate gain-reduction VU.
- ◆ Ratio control.

#### Soft-Clipping Stage

- ◆ Astoundingly musical and smooth performance. with variable clipping shape (from hard clip to ultra-soft).
- ◆ Increase gain with no limiting or compression artifacts.
- ◆ Create warm, saturated mastering effects.

#### Professional Metering and Monitoring

- ◆ Responsive analog VU's.
- ◆ Ultra-fast and accurate popup digital peak meter with hardware-like performance.
- ◆ x10 switch on the peak meter makes very easy to evaluate the level in the "critical zone".
- ◆ "Over" LED precisely shows when the master has "overs".
- ◆ Mono, stereo and difference monitoring to check the master for mono compatibility and stereo image coherence, like in high-end consoles.

#### Additional Features

- ◆ High quality real time preview and processing.
- ◆ Supports 24-bit AIFF, Wav and SDII files for importing and exporting.
- ◆ High order 32-bit internal resolution with 32-bit floating point resolution, T-RackS uses the best possible method to physically model analog components, resulting in an amazingly real tube sound — without the noise.
- ◆ Analog modeled animated interface.
- ◆ Time-line markers facilitate the instant recall of mixes.
- ◆ Use snapshots to recall entire set-ups with just one click.
- ◆ Presets included. Drag-and-drop text parameter list can easily change the default architecture to achieve the finest special settings.
- ◆ 8 amazing "vintage" skins.
- ◆ Fade-in/fade out, loop and scrollable preview

**T-RackS Mastering Suite Plug-In** (Mfr # TR-PLUG-HCD-IN; B&H # IKTRPI)  
For RTAS, VST, Audio Units (Mac) and DX (PC) .....CALL

**T-RackS 24 Stand-Alone Mastering Suite**  
(Mfr # TR-200-HCD-IN; B&H # IKTR): For Mac and Windows.....CALL

## CSR Classik Studio Reverb



CSR is a complete suite of 4 high-end studio-quality reverb plugins modeled after popular outboard classics. The independent Hall, Room, Ambience and Inverse plug-ins are each designed to emulate the sounds of revered high-quality hardware processors. The ability to edit each plug-in in either easy or advanced modes makes CSR suitable for beginners and pros alike. Simply put, Easy Mode offers the six most important controls right on the front panel of the plug-in, while Pro Mode gives you access to more than 100 editing parameters.

- ◆ Suite of 4 separate reverb units: Plate, Room, Hall, and Inverse with state-of-the-art DSP based reverb algorithms and parameters list unique to each unit.
- ◆ Easy Mode provides access to the six most important parameters: Mix, Diffusion, Reverb Time, Low Frequency Gain, High Frequency Cutoff, and High Frequency Dampening.
- ◆ Advanced Mode gives full access to more than 100 editing parameters.
- ◆ Adjustable input and output reverb width.
- ◆ High quality reverb filtering.
- ◆ A/B comparison allows you to quickly compare between two reverb settings in a snap.
- ◆ The 8x8 Modulation Matrix allows you to control up to 8 destinations with 8 different modulation sources, such as applying an envelope to a reverb tail or controlling the reverb imaging with an LFO.
- ◆ Two internal LFOs and two internal envelope generators per unit.
- ◆ 4 assignable Macros per unit allow complex you to make subtle to dramatic changes to a Reverb's effects, using a singular control.
- ◆ Full automation through your host sequencer.
- ◆ Smooth parameter morphing capabilities.



Classik Room



Classik Plate



Classik Inverse

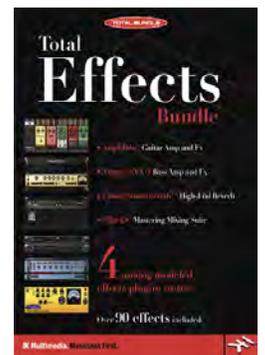


Classik Hall

**Classik Studio Reverb** (Mfr # CS-PLUG-HCD-IN; B&H # IKCSR): Plug-In Mac OS X and Windows 2000/XP .....**CALL**

## TOTAL EFFECTS BUNDLE

The Total Effects Bundle includes four different plug-in signal processing suites, to deliver a professional signal processing package designed to provide a complete everything you need for tracking bass and guitar, as well as mixing and mastering. The Total Effects Bundle feature award-winning analog modeled effects including: Ampeg SVX complete bass-rig with signature Ampeg sound; AmpliTube 2 complete guitar amp and effects modeling solution; Classik Studio Reverb 4 high end reverbs modeled on classic outboards; along with T-RackS analog modeled mixing and mastering suite. In all there are over 90 DSP effects included.

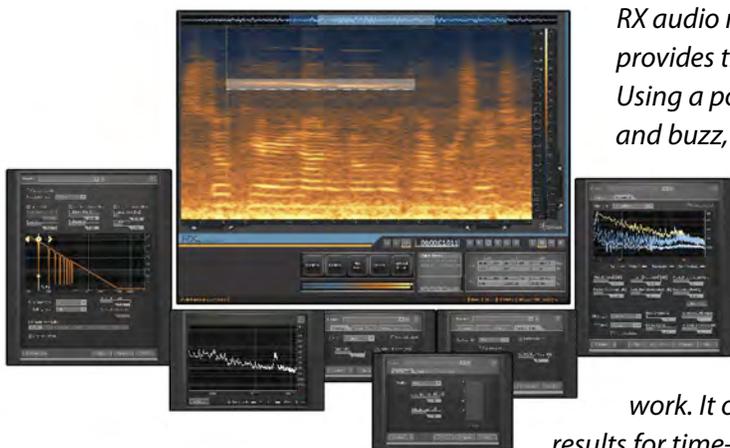


- ◆ Includes 4 award-winning effect plug-in suites for guitar, bass, mixing and mastering, all modeled after the most sought-after hardware gear.
- ◆ Largest range of analog modeled effects in one package with 90 ultra accurate DSP emulations.
- ◆ A bundle covering every studio need, including guitar and bass recording, a comprehensive selection of studio reverbs, and high-end mixing and mastering tools.

**Total Effects Bundle** (Mfr # IK-BOXEB-HCD-IN; B&H # IKTEB): Four effect plug-in suites for Mac OS X and Windows XP .....**CALL**

**Total Effects Bundle Upgrade** (Mfr # IK-BOXEB-UPG-IN; B&H # IKUTEB)  
For all registered IK users and all IK users with registered IK products bundled in third-party hardware and software .....**CALL**

## RX • RX ADVANCED Audio Restoration Software



*RX audio restoration software is a standalone application that provides the essential tools required for cleaning and restoring audio. Using a powerful technology developed by iZotope, RX removes hiss and buzz, eliminates clicks and crackles, and repairs overload distortion in audio. Intelligent spectral repair algorithms can even analyze and fill gaps in audio files to restore previously unusable recordings. RX is ideal for any application that demands spotless audio, including post production for film, video or music. RX's unique interface is designed specifically for audio restoration work. It offers a number of preset modules that will ensure quick results for time-sensitive applications such as broadcasting, podcasting,*

*video production, and studio recording. Advanced features allow a level of control needed in critical applications such as forensics, audio remastering and archiving. RX Advanced extends the level of control for professionals, and features a greater number of delivery options and advanced processing capabilities.*

### Denoiser Module

- ◆ Suppress broadband and tonal noise, such as tape hiss, environmental background noise, camera motor noise, buzz and more, independently without harsh artifacts.
- ◆ It can be trained with a sample of noise, or it can run in automatic mode.
- ◆ Uses techniques based on image processing technology to achieve natural sounding results with a minimum of artifacts.

### Spectral Repair Module

- ◆ Remove hard to fix intermittent noises and fix gaps and corrupted audio using advanced re-synthesis.
- ◆ Learn from the audio surrounding a selection and resynthesize missing audio, even if the content includes changes in pitch, vibrato and harmonics.

### Declipper Module

- ◆ Saves previously unusable recordings by removing both analog and digital clipping.
- ◆ Advanced multiband processing actually rebuilds damaged peaks in clipped audio.

### Hum Removal Module

- ◆ Cleans up hum caused by poor wiring and other electrical problems. It uses precise filtering to isolate electrical hum as well as any resulting harmonics.
- ◆ In addition to 50Hz and 60Hz hum removal, a Free mode allows for hum removal at other frequencies.

### Declicker Module

- ◆ Removing analog and digital impulse noises from old recordings.
- ◆ Automatically suppress clicks, crackles and pops. A manual mode isolates and repairs hard to fix problems.

### Advanced Spectrogram

- ◆ The most advanced spectrogram display available can represent audio with an incredible level of detail and sharpness. This technology attains the greatest time and frequency resolution available.
- ◆ You can use the spectrogram display to identify clipping, buzz, intermittent noises and other problems at a quick glance.

### Other Features

- ◆ **Selective Processing** allows you to select audio by time and frequency to isolate and repair noise with surgical precision.
- ◆ **Compare Settings window** can send multiple settings of a module to the queue, then audition them side by side to choose the best result.
- ◆ **Batch Processing** can automate processing on a single file or on multiple files using different modules and tools within RX.
- ◆ **Undo History** keeps track of the changes you've made, and allows you to easily revert to earlier states.

### RX Advanced

- ◆ Includes iZotope's critically acclaimed 64-bit SRC sample rate conversion and MBIT+ dither for professionals who want finer control over processing and delivery.
- ◆ Advanced manual declipping.
- ◆ Multi-resolution declipping.
- ◆ Multi-resolution spectral repair modes.
- ◆ Advanced denoiser parameters.

## Applications

**Video Production** - For cleaning up dialog, removing unwanted background noises.

**Broadcasting and Podcasting** - Clean up location recordings, phone interviews, studio background noise and more.

**Recording and Music Production** - Eliminate hum, hiss and environmental noise from studio and live recordings.

**Restoration & Archiving** - Remove clicks, crackles, mechanical noise, hum. Repairs gaps.

**Forensics** - Advanced noise reduction for superior voice intelligibility, multiresolution spectrogram shows more detail for improved visual analysis.

## Ozone 3 Complete 64-bit Mastering System



A 64-bit mastering plug-in that offers seven processing stages essential for creating commercial sounding masters. The seven modules include: Paragraphic Equalizer, Mastering Reverb, Multiband Dynamics, Multiband Harmonic Exciter, Multiband Stereo Imaging, Loudness Maximizer, and Dithering. Each processing stage offers fully automatable parameters and a wide range of audio and visual feedback. Analog modeling algorithms ensure a smooth and musical sound, such as the soft limiting associated with vintage tube processors. Additionally, linear phase equalization and filters are provided for times when surgical precision is required. Because all processing is performed at 64-bit precision, a level of accuracy is achieved that would be unobtainable by chaining together individual plug-ins. Ozone 3 ships with a wide array of professionally designed presets for many mastering situations. Izotope's acclaimed *Ozone Mastering Guide* is included to walk you step by step through making commercially ready masters.

### 7 Plug-ins in 1 Integrated Interface

- ◆ In lieu of employing a separate plug-in for each mastering stage, all processors are combined in a single unified plug-in. This integration offers an optimized interface, with a logical workflow and superior sound quality that is unobtainable with a chain of independent plug-ins.
- ◆ The Paragraphic Equalizer section offers the choice of analog modeled and linear phase EQ with up to 16,000 bands of precision. There are 8 fully adjustable filters, using peaking, high or low-pass, high or low shelf filters, and a spectrum overlay for instant feedback. Spectrum snapshots of recordings can be utilized to create matched EQ curves.
- ◆ The Mastering Reverb section offers plate and room reverb algorithms, a vectorscope and phase correlation meter, options for mono, phase flip and channel reverse, solo processed signal as well as graphic control over cutoffs room size, damping and width.
- ◆ The Loudness Maximizer section helps maintain uniform levels with less distortion. There is a character control for more, or less, transparent limiting, and you can visualize your changes with the level histogram and gain reduction meter.
- ◆ The Multiband Harmonic Exciter offers up to 4 bands of harmonic excitation, switchable between analog modeled or digital crossover filters, with controls for amount, mix and delay
- ◆ The Multiband Dynamics sections offers 4 bands of limiting, compression and expansion, with analog modeled and linear phase crossover filters, gain reduction meters, level histogram and spectrum analyzer for visual feedback.
- ◆ Multiband Stereo Imaging with up to 4 bands of stereo widening vectorscope and phase correlation meter options for mono, phase flip and channel reverse.
- ◆ The Dither section features proprietary MBIT+ noise-shaped dither with a DC offset filter, auto-blanking, peak limiting and harmonic suppression. The bit meter and DC offset meter offer visual feedback for troubleshooting your mix.

### Analog Modeling / Digital Precision

- ◆ Ozone offers the option of using analog modeling algorithms for its compression, equalization, and harmonic excitation sections. Analog processing has certain nonlinear aspects that a mathematician would consider "wrong" but sound better musically. This includes such anomalies as the slight phase delays found in an analog equalizer. These anomalies are where many of the analog characteristics of warmth, sparkle and depth are found.
- ◆ Conversely, while analog modeling can provide a pleasant character or "colorization" to the sound, some situations require more precise or transparent signal processing. For those applications that require surgical precision, without colorization, Ozone allows you to choose digital, linear phase equalizers and crossover filters. For example, you may choose a linear phase EQ to equalize or notch out a frequency without introducing the phase delay inherent in analog filters.



Paragraphic Equalizer



Multiband Dynamics



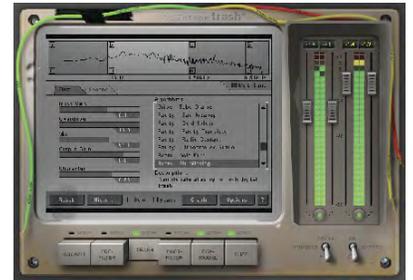
Multiband Stereo Imaging

**Ozone 3** (Mfr # 9910-40703-00; B&H # IZO3)  
64-bit mastering software with analog modeling.....**CALL**

## Trash Complete 64-bit Distortion Processor



A distortion and amp modeling plug-in with a range of 64-bit box, cabinet, and speaker models, multiband distortion algorithms, fully sweepable and triggerable filters, and a unique delay module. Each processing stage offers a full range of parameters to sculpt the perfect sound. Trash offers unlimited creative flexibility with a high degree of interactivity between the various processing stages — you can even change the order of each stage. Although creating killer guitar and bass sounds is Trash's obvious application, it's multiband tools, extensive box modeling library and delays are ideal for crafting massive drum tracks, adding interest to static synth sounds, as well as discovering unique sound design capabilities.



- ◆ 48 distortion types ranging from tube overdrive to the fuzz of germanium transistors.
- ◆ You can chain pairs of distortions together, or split the signal into multiple bands and apply distortion independently to individual frequencies — all with 64-bit precision.
- ◆ There are 85 models of amp cabinets and speakers to choose from including many classics, combos, boutique models, stacks.
- ◆ 36 filters available, pre and post distortion, ranging from synth filters, resonant filters, classic analog filters and more. The pre-filter offers LFO and envelope modulation for wah effects, while the multiband post-filter lets you tighten up the final sound.
- ◆ Multiband dynamics and gating allow you to control the peaks and tame the noise independently for up to 4 frequency bands.
- ◆ The Buzz module offers a selection of classic lo-fi delays including tape delay with saturation and nonlinear tape machine artifacts, tape-tube delay with added tube saturation modeling, classic analog delay with analog degradation and lo-fi digital delay with quantization noise and aliasing.
- ◆ Also features an integrated preset manager, History and Undo lists, frequency spectrums and meters and complete host automation.

**Trash** (Mfr # 9910-40701-00; B&H # IZT): For Mac and PC in RTAS, AudioSuite, HTDM, VST, MAS, Audio Unit, and DirectX formats .....**CALL**



## SPECTRON 64-bit Spectral Effect Processor

A sound design plug-in, built around the Spectron Engine, that splits audio into thousands of frequency bands, applies independent delay, morph, filter and pan effects, and resynthesizes the processed audio into an entirely new sound. Ideal for creating atmospheric soundscapes and custom sound design for film, video and games. It's interface lets you control groups of frequency bands with virtually unlimited options for sweeping and triggering.

Effects are manipulated by Nodes, not unlike the nodes of a parametric EQ with control over frequency, amount, bandwidth, and shape. Use Spectron Nodes with LFOs and envelope triggers to open up new levels up creativity. The immersive, easy to use graphic user interface allows extremely flexible editing including the ability to manipulate individual frequencies.



- ◆ Morph module for effects reminiscent of a vocoder but with frequency-selective amount control.
- ◆ Spectral delay with independent delay and feedback control for each frequency band.
- ◆ Spectral-based stereo panning.
- ◆ Filter module for frequency-selective attenuation.
- ◆ The Smear module includes 4 independent delay lines with flanger-style LFO for smoothing output of the Spectron Engine.
- ◆ Integrated preset manager.
- ◆ Innovative interface allows virtually unlimited sweeping and triggering options, includes advanced LFO settings with amplitude, frequency and pulse-width modulation.
- ◆ A filter graph allows you to rearrange the different Spectron modules.

**Spectron** (Mfr # 9910-40705-00; B&H # IZS): For Mac and PC in RTAS/AudioSuite/HTDM, VST, MAS, Audio Unit, and DirectX formats .....**CALL**

## FILTERBANK High-End EQ/Filter Plug-in



*FilterBank is a high-end EQ/Filter plug-in designed to emulate the sound of vintage and modern equalizers/filters. But FilterBank isn't just another great sounding EQ - it's every EQ ever made in one plug-in. FilterBank does this through its unique design philosophy: give the user maximum control.*

*All critical equalizer and filter design parameters are totally user adjustable. FilterBank can emulate any EQ: tube driven or solid-state, vintage or modern, fat or thin. Or create a distinct custom EQ.*

*FilterBank is 10 plug-ins consisting of 2, 4, and*

*6 band configurations of EQs and filters, in mono and stereo versions.*



### FILTERBANK IS TEN PLUG-INS, AVAILABLE IN MONO AND STEREO VERSIONS:

**E2 / E4 / E6:** High and Low Shelving EQ: Independent control of frequency, gain, peak, slope, and dip. No other EQ gives you so much control and flexibility of shelving EQ.

**P2 / P4 / P6:** Parametric EQ: Frequency control range that covers nearly the entire audible spectrum (20 - 21000 Hz). The parametric bell is up to 5 octaves wide! Gain is  $\pm 12$  dB. Constant-Q technology closely models analog parametric responses.

**F1 / F2 / F3:** Low and High Pass Filters: Adjustable slope and resonant peak greater than 24 dB.

**B1:** Band Pass and Band Reject Filters: Frequency control range that covers nearly the entire audible spectrum (20Hz-21kHz). The Q range is 0.2 - 12.0.

**FilterBank HD** (Mfr # M-PI-FB; B&H # MCP1FB): For Mac OS X and Windows XP in TDM, AudioSuite, and RTAS formats.....**449.00**

### Additional Features

- ◆ FilterBank can emulate any EQ: tube driven or solid state, vintage or modern. Or FilterBank can be used to create a distinct custom EQ.
- ◆ Double precision arithmetic keeps the noise floor at -138 dB.
- ◆ Analog saturation modeling in each EQ/filter band prevents digital clipping.



## COMPRESSORBANK The Complete Compressor

*CompressorBank gives you complete control of dynamic compression, with 48-bit double precision processing.*

*Standard controls include Output (make-up gain), Threshold, Compression (Ratio), Attack, and Release.*

*Non-standard Knee and Bite controls allow unique and unprecedented articulation of compression*

*characteristics. Multiple peak detection circuit types*

*provide flexibility only previously achieved by owning different hardware units.*

*Side chain support, side chain or in-line pre-filtering, and a static/dynamic EQ section (post compression) are also provided.*



- ◆ Multiple peak detection circuits: Type1 - pure peak detection; Type2 - pure peak detection with adaptive release times plus a secondary release control; Auto - signal levels are automatically tracked.
- ◆ Compression curve modeling with Knee and Bite controls.
- ◆ Static and Dynamic EQ allows signal enhancement, noise reduction, and harmonic distortion. Side chain and in-line pre-filtering (high / low / band pass, and parametric EQ).
- ◆ Analog saturation modeling on each band prevents digital clipping.

### 4 PLUG-INS, AVAILABLE IN MONO AND STEREO

**CB1:** Basic compression    **CB2:** Compression with pre-filtering

**CB3:** Compression with pre-filtering and static/dynamic EQ

**CB4:** Emulations of six of the world's most popular compressors. These emulations include the Teletronix LA2A, the dbx 165, the Neve 2254E/33609, the UREI 1176LN (blackface, including the '44' setting), and other classic high-end compressors and limiters.

**CompressorBank HD** (Mfr # M-PI-CB; B&H # MCP1CB) .....**449.00**

## CHANNEL G The Ultimate Console



A suite of plug-ins offering original formulations and true-to-life emulations of the compression, limiting, expansion, gating, filtering and equalization capabilities of the worlds most popular high-end mixing consoles. Four plug-ins make up Channel G: G Dynamics, G Equalizer, G Console (a channel strip), and G Surround Compressor. The Surround Compressor Limiter is equipped with a unique channel matrix for separate key listening and channel linking. Each plug-in's layout is mapped for seamless integration with Digidesign's Icon control surface. Channel G delivers big board sound with unprecedented flexibility.



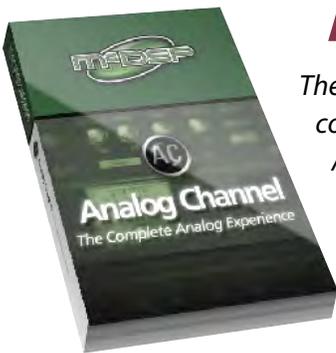
- ◆ Analog Saturation Modeling
- ◆ Double precision processing
- ◆ Ultra low latency
- ◆ Mono, stereo, and 5.1 versions

### CHANNEL G IS FOUR PLUG-INS AVAILABLE IN MONO, STEREO AND 5.1

- ◆ G Dynamics – a fully featured console style dynamics section with an Expander / Gate, Compressor / Limiter, and a versatile filter section.
- ◆ G Console – a combination of the G Dynamics and G Equalizer configurations.
- ◆ G Equalizer – a five-band professional grade console style EQ with a versatile filter section.
- ◆ G Surround Compressor – an elegant Compressor / Limiter solution with compressor 'sets' (LR, C, LsRs, LFE).

**Channel G HD** (Mfr # M-PI-CG; B&H # MCPICG): Supports TDM, RTAS and AudioSuite formats for Mac OS X and Windows XP .....**899.00**

## ANALOG CHANNEL The Analog Experience



The Analog Channel plug-in includes two different devices: the AC1 for emulating analog mixing console channels, and the AC2, which emulates analog tape and analog tape machines.

AC1 - Pure digital tracks can suffer from harsh digital clipping. Analog channel acts as a 'digital pre-amp' allowing even excessive amounts of gain without digital distortion.



A drive control sets up how close to the saturation-region the audio is processed, and even the attack and release times of the distortion character are adjustable. And AC1 is the most efficient McDSP plug-in ever - up to 24 mono channels or 16 stereo channels on a single MIX dsp chip.

The AC1 configuration acts as a digital pre-amp allowing even excessive amounts of gain without digital distortion. A drive control determines where the audio "sits" in the saturation/compression region, and even the attack and release times of the distortion character are adjustable.

The AC2 configuration emulates analog tape machines. In addition to standard tape machine parameters such as bias, playback speed, and IEC1/2 equalization, AC2 offers controls well beyond the limits of the reel-world devices including adjustable low frequency roll off and head bump - independent of playback speed. The user can select from several playback head types, tape formulations, and even control the tape saturation recovery time.

- ◆ Library of presets emulating analog mixing systems
- ◆ Real-time display of saturation curves and calibrations
- ◆ Analog Saturation Modeling
- ◆ Double precision processing
- ◆ Ultra low latency
- ◆ Mono and stereo versions
- Analog Channel HD** (Mfr # M-PI-AC • B&H # MCPAC) Supports TDM, RTAS and AudioSuite formats for Mac OS X and Windows XP .....**449.00**

## REVOLVER Flexible Convolution Reverb



A high-powered convolution reverb that provides total impulse response control, dedicated and routable EQ, two sync-able delay lines, a reverb decay crossover network, and specialized stereo imaging for unprecedented flexibility. Revolver provides the most compelling impulse library to date, with hundreds of sounds from rare holy grail out of production reverbs and acoustic spaces. Additional acoustic spaces and outboard gear can be modeled in a few minutes with Revolver and Revolver impulse response tools. Controls for the total reverb time (in percent and RT60 values), wet and dry levels are always displayed. The remainder of the Revolver plug-in interface is separated into several control pages and views. Graphical representations of signal flow, impulse response data, EQ responses, and even images of the impulse response source are available. All parameter adjustments are heard immediately, and the outputs are not muted during any control updates. The user does not need to wait while the reverb is re-rendered. Revolver is what convolution reverb was always meant to be.



- ◆ Huge library of presets of out of production reverbs, rare vintage reverbs, and acoustic spaces.
- ◆ Total impulse response manipulation.
- ◆ Pre-delay (positive or negative).
- ◆ Two-band dedicated reverb EQ.
- ◆ Three-band routable EQ.

- ◆ Two sync-able delay lines.
- ◆ Tools for creating custom impulse responses.
- ◆ Reverb decay crossover network.
- ◆ Low latency.

- ◆ Double precision processing.
- ◆ Mono and stereo versions.
- ◆ Revolver v1.1 supports sampling rates up to 48kHz.

**Revolver** (Mfr # M-PI-RN; B&H # MCP1RN)

Supports AudioSuite and RTAS formats for Mac OS X and Windows XP .....**349.95**



## CHROME TONE Guitar Amp & Modeling Effects

Chrome Tone brings the world of custom guitar amps, boutique outboard gear, and pedal effects inside your audio workstation. The Chrome Tone Amp configuration includes ultra flexible distortion, compressor and sustain circuits, gating, 3-band EQ, spring reverb, a pre-amp simulator, and several guitar cabinet models. Each Chrome Tone modulation configuration (Chorus, Wah, Trem) has



a 'Dynamic' envelope follower and 'Auto' LFO to modulate the effect itself or the incoming audio.

### Chrome Tone is five plug-ins:

**Amp:** Flexible guitar amp modeling

**Wah:** Multi-mode filters configured as traditional 'wah' effects

**Chorus:** Frequency modulation effects

**Trem:** Volume modulation effects

**Stack:** Combination of Amp, Wah, Chorus and Trem effects, plus tape delay

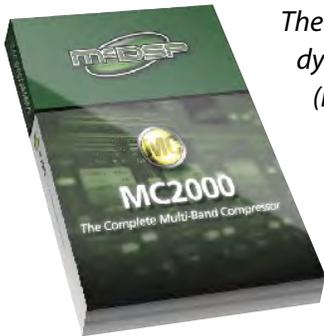
- ◆ Guitar amp modeling.
- ◆ Chorus, Flange, Wah, Tape Delay, Spring Reverb.
- ◆ Multiple Wah filter types (14 total including band pass, low pass, high pass, and phasor / filter combinations).

- ◆ Analog Saturation Modeling.
- ◆ Double precision processing.
- ◆ Ultra low latency.
- ◆ Mono, mono-to-stereo, and stereo versions.

**Chrome Tone HD** (Mfr # M-PI-CT; B&H # MCP1CT)

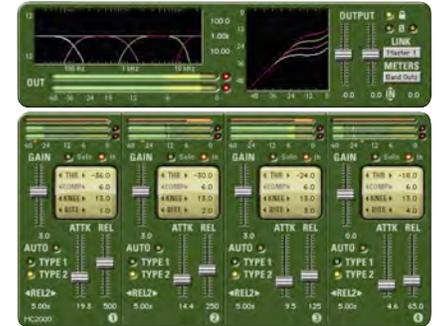
For Mac OS X and Windows XP in TDM, AudioSuite, and RTAS formats .....**449.00**

## MC2000 The Complete Multi-Band Compressor



The MC2000 gives the user complete control of multi-band dynamic compression. Common controls such as output (make-up gain), threshold, compression (ratio), attack, and release are provided. Non-standard Knee and BITE controls allow unique and unprecedented articulation of compression characteristics.

Multiple peak detection circuit types provide flexibility only previously achieved by owning several compression units. Steep 24 dB/Oct crossover filters minimize signal leakage into adjacent compression bands.



### MC2000 is 3 plug-ins:

- MC2** – two-band compression
- MC3** – three-band compression
- MC4** – four-band compression

- ◆ Emulates the sounds of vintage and modern compressors.
- ◆ Compression curve modeling
- ◆ Multiple peak detection circuits
- ◆ Adjustable crossover filters
- ◆ Multi-band control linking
- ◆ Analog Saturation Modeling
- ◆ Double precision processing
- ◆ Ultra low latency
- ◆ Mono and stereo versions

**MC2000** (Mfr # M-PI-MC; B&H # MCPIMC) ..... **449.00**

## ML4000 The Essential Mastering Solution



The ML4000 is a mastering suite that is designed for music, mastering, post, and live sound.

It provides outstanding results with an intuitive user interface, flexible design, and powerful set of algorithms. It is broken down into two plug-ins: the ML1 high-resolution brick-wall look-ahead limiter, and the ML4 which feeds a multi-band dynamics processor into a ML1 limiter. The ML1 mastering limiter uses a flexible brick wall look-ahead design coupled with multiple stages of limiting for superior peak processing. The unique Knee and Mode controls allow the ML1 to handle any kind of material

with a variety of responses ranging from transparent to aggressive.



The ML4 multi-band dynamics processor includes a 4-band Gate, Expander (upwards or downwards), and Compressor fed into the same limiter algorithm found in the ML1. Each band's Gate, Expander, and Compressor can be configured separately or linked together. Steep 24 dB/Oct crossover filters minimize signal leakage into adjacent bands. Multiple real-time metering options in each band allow quick visualization of all signal dynamics.

- ◆ 48-bit double precision processing
- ◆ Low latency
- ◆ Mono and stereo versions

### ML1

- ◆ Brick wall look-ahead limiter
- ◆ Multi-stage peak detection and limiting
- ◆ Unique limiter Knee and Mode controls

### ML4

- ◆ Integrates the ML1 with a Multi-band Gate, Expander (up/down), Compressor
- ◆ Simultaneous display of Gate, Expander, and Compressor dynamic curves in every band

- ◆ Multiple real-time metering options
- ◆ Adjustable crossover filters
- ◆ Multi-band control linking
- ◆ Analog Saturation Modeling

**ML4000 HD** (Mfr # M-PI-L4; B&H # MCPIL4): For Mac OS X and Windows XP ..... **449.00**

**ML4000 Native** (Mfr # M-U-MLLE-MLN; B&H # MCFM4000LE): For Mac OS X and Windows XP ..... **179.00**

## PROJECT STUDIO

### Native Pro Tools Plug-In Bundle



The most comprehensive LE plug-in bundle ever, featuring light versions of McDSP's award winning equalizers, filters, and compressors, plus a sound synthesizer, guitar amp modeler, convolution reverb, mastering limiter, and analog tape machine simulator. The perfect addition to Pro Tools LE or M-Powered. Includes

a pre-programmed McDSP green iLok for copy protection.

**Analog Channel LE** – features the Playback Head control from the original Analog Channel.

**Chrome Tone LE** – Chrome Tone Amp configuration includes gating, distortion, compression, EQ, pre amp modeling, a cabinet simulator and spring/room reverb.

**CompressorBank LE** – The CB4 is a bundle in itself, with emulations of eight of the worlds most sought after classic compressors.

**FilterBank LE** – Includes E4, P4, and F1 FilterBank configurations made up of powerful variable Q parametric EQ, shelving EQ, with unique peak, slope and dip controls, and resonant peak filters.

**ML4000 LE** – A high-resolution limiter designed for music, mastering, post, and live sound.

**Revolver LE** – A high-powered convolution reverb with hundreds of sounds from acoustic spaces to rare holy grail out of production reverbs. Revolver LE provides the most compelling impulse library to date.

**Synthesizer One LE** – All of the sound quality of the original in a straightforward interface. Controls are provided for the most often adjusted parameters, and presets from top programmers are included.

**Project Studio** (Mfr # M-B-PS; B&H # MCBPSLE) .....**279.00**

## CLASSIC PACK

### TDM and Native Pro Tools Plug-In Bundles

The Classic Pack contain's McDSP's full features versions of the Analog Channel, CompressorBank, FilterBank and MC2000 plug-ins, as well as a 194 page printed manual and a pre-programmed McDSP Green iLok. a pre-programmed McDSP green iLok for copy protection.



**Analog Channel** – gives the user complete control of analog gain staging acting as a 'digital pre-amp' (AC1), and analog tape and tape machines (AC2).

**CompressorBank** – The best from the old and the new, delivering complete dynamic range control with Multiple Peak Detection Circuits, pre-filtering, static/dynamic EQ and compression curve modeling.

**FilterBank** – is designed to emulate any EQ: tube driven or solid-state, vintage or modern with unique and powerful features such as Peak, Slope, Dip controls and variable Q modes.

**MC2000** – is a multi-band compressor plug-in designed to emulate the sounds of vintage and modern compressors in two, three, and four band configurations.

**Classic Pack Native Bundle** (Mfr # M-BCPN; B&H # MCBPCN) .....**CALL**

**Classic Pack HD Bundle** (Mfr # M-B-CP; B&H # MCBPCP) .....**CALL**



## EMERALD PACK

### TDM and Native Pro Tools Plug-In Bundles

A plug-in bundle that includes every high-end, full version McDSP plug-in ever made, including full versions of Analog Channel, Channel G, Chrome Tone, CompressorBank, FilterBank, MC2000, Revolver, Synthesizer One and ML4000 for Digidesign's Pro Tools HD and/or Native Systems. Like the Project and Classic packs, the Emerald Pack also contains a printed manual and a pre-programmed McDSP Green iLok, and is ready to plug and play right out of the box.

**Emerald Pack Native Bundle**  
(Mfr # M-B-EPN; B&H # MCBEPN) .....**1399.00**

**Emerald Pack HD Bundle**  
(Mfr # M-B-EP; B&H # MCBEP) .....**CALL**

## Pitch 'n Time Pro 2.4



### Time Stretching and Pitch Shifting

A high quality time stretching and pitch-shifting AudioSuite software plug-in that will work with all versions of Pro Tools on the Mac and PC, from Pro Tools free to Pro Tools HD.

Traditionally pitch/time manipulating application used math to either remove or add samples, or change sample rates to achieve the desired result. Some program material would respond well, while others had artifacts introduced— rendering the processed files useless. Serato decided that the output of the process must sound the same as the input, just faster or slower. In other words the problem isn't about waveforms or kilohertz - it's all about hearing. So Serato developed a sophisticated model of the human auditory system that "listens" to the music, performing a sophisticated auditory scene analysis and deciding how best to treat the source

material. The ranges of transformation within Pitch 'n Time 2 are 50% to 200% for time compression / expansion, and  $\pm 12$  semitones for pitch shifting. Both functions each have three interchangeable panels, ranging from simple fixed ratios to complex tempo and pitch alterations that vary over time.

#### FEATURES

- ◆ Modify tempo from 50% to 200% of original and simultaneously pitch shift by  $\pm 12$  semitones:
  - Time stretch by tempo change, length change, target length, or target BPM
  - Pitch shift by frequency change or semitone shift.
  - Preview changes in real time
- ◆ Integrates perfectly with Pro Tools (Mac and Windows) as well as other DAWs and applications that support AudioSuite.
- ◆ Works with all bit depths, and sample rates and audio file formats available within an AudioSuite compatible application — can even be used to change the sample rate of your sample without losing quality.
- ◆ Preserves sample accurate timing while at the same time maintaining sonic integrity
- ◆ Works as well on solo instruments and drums as it does on a complete mix.
- ◆ Process stereo tracks without phasing
- ◆ Multi-Channel Mode - allows you to process up to 48 tracks together while maintaining their original phase coherency.
- ◆ Time-Morph allows you to drop a marker at an event and move it anywhere; the audio flexes before and after to allow you to stretch out a single note, or even change the timing of a loop.

Draw the tempo map you require directly on the screen

Quickly set a tempo change numerically, with the slider or using the BPM calculator

Drop a marker at an event, and move it anywhere; the audio flexes before and after, letting you stretch out a single note, or even change the timing of a loop.

Classic pitch panel for when you need straight, high quality transposition

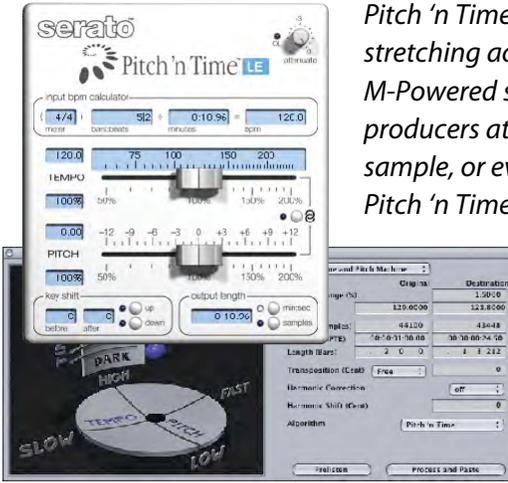
Whatever the tempo does, the pitch follows. Create an accurate tape stop, or even use it as the best resampler around.

Pitch-correct individual notes, remove or create pitch slides, even make a realistic record scratch sound

- ◆ Variable Pitch Mapping lets you pitch-correct individual notes, remove or create pitch slides, or even make a realistic record scratch sound.
- ◆ Variable Tempo Mapping gives you the power to create variable tempo maps and changes over the length of your sample.
- ◆ Waveform Overview means you can actually see the effects of your tempo map as it is applied directly to the waveform.
- ◆ Supports all SMPTE time code formats: 30 fps, 29.97 fps (Drop/Non-Drop Frame), 25 fps (EBU) and 24 fp. Just select your desired end time position time code, and it calculates the required time stretch.
- ◆ Time Stretching from one Time Code frame rate to another.
- ◆ A quick and easy BPM calculator for loops determines the tempo of a selection against the number of bars and beats selected.

**Pitch 'n Time Pro** (Mfr # PITCHTIMEPR; B&H # SEPNTP): Supports TDM, LE and M-Powered formats for Mac OS X 10.3.9 and Windows XP.....**519.95**

### Pitch 'n Time LE Time Stretching and Pitch Shifting



*Pitch 'n Time LE is a plug-in that makes professional quality pitch shifting and time stretching accessible to anyone using Logic Pro, as well as Pro Tools TDM, LE and M-Powered systems. It gives you the same high quality output enjoyed by engineers and producers at an affordable price, and allows you to make dramatic alterations to a sample, or even to a completed mix, to produce a result that you have to hear to believe. Pitch 'n Time LE is perfect for re-pitching backing vocals, nailing the timing of a 30 second spot, adjusting the pitch or tempo of a loop so it fits into any song, or even changing the key of a whole piece of music. You can also use it to create unique sounds design for film, video and music.*

- ◆ Modify tempo independent of pitch and pitch independent of tempo.
- ◆ No loss of timing accuracy.
- ◆ Unique patented time compression/expansion & pitch-shifting algorithm.
- ◆ Process stereo tracks without phasing.
- ◆ Process Dolby matrix encoded tracks without losing surround information.

#### Pro Tools only features

- ◆ Perfect Pro Tools integration using the Pro Tools time trimmer tool (Pro Tools 7.2).
- ◆ Time stretch by tempo change, length change, target length, or target BPM.
- ◆ Modify tempo from 50% to 200% of original and simultaneously pitch shift by ±12 semitones.
- ◆ Select pitch shift by frequency change or semitone shift.
- ◆ Preview changes in real time.

#### Logic Pro only features

- ◆ Modify tempo from 1/8 to 8x of original and simultaneously pitch shift by ±36 semitones.
- ◆ Time stretch by tempo change, length change, target length, target BPM, target time code and bars and beats.
- ◆ Select pitch shift by cents.
- ◆ Integrates into Logic's Time Machine.

**Pitch 'n Time LE** (Mfr # PITCHNTIMELE; B&H # SEPNTLE): For Pro Tools running under Mac OS X and Windows XP; and Logic Pro running under Mac OS X. Includes authorized iLok key.....**259.95**

**Pitch 'n Time LE** (Mfr # PITCHNTIMELE; B&H # SEPNTLEI): Same as above, but includes authorized iLok key.....**285.95**

### RANE SERIES Dynamics & EQ Processors

*Rane Series Dynamics consists of 2 TDM plug-ins for the Digidesign Pro Tools HD or VENUE platforms: the Rane Series Compressor and the Rane Series Gate. It combines the pristine sound quality and excellent features of Rane's top-of-the-line hardware, the C4 Compressor and G4 Gate, with the ease of a functional graphical user interface.*

*The **Rane Series Compressor** is a fully featured compressor/limiter that gives you the ability to create a wide range of effects from the smooth and subtle to the squashed and extreme. In compressor mode you can key from a fully adjustable parametric EQ on the side chain. Alternatively you can use dynamic EQ mode for de-essing or selectively compressing any frequency relative to the rest of your mix.*

*A comprehensive Gate, Ducker and Expander, the **Rane Series Gate** allows you to achieve impressive clarity and headroom from your mixes. Look-ahead delay and program-dependant pre-ramping provides you not only with click free gating but you'll never miss another transient. The Gate provides everything from subtle and transparent dynamic control to total on/off noise gating.*



**Rane Series Dynamics** (Mfr # DYNAMICS • B&H # SED).....**454.95**      **Additional Licenses** (Mfr # DYNAMICSEL • B&H # SEDEL) .....**337.95**

**RANE SERIES**



**Graphic EQ for TDM**

The Rane Series Graphic EQ is a TDM plug-in for Digidesign Pro Tools HD or VENUE platforms. It combines the pristine sound quality and excellent features of Rane’s top-of-the-line hardware, the DEQ 60/60L, with the ease of a functional graphical user interface.

The problem with traditional graphic equalizers is band interaction; you move one slider and all surrounding bands are affected.

The Graphic EQ eliminates this problem, with Rane’s patented Perfect-Q technology, previously only available in their award winning hardware. The Graphic EQ forces the response curve to pass through every slider so the response follows exactly the slider positions on screen, giving you the ability to notch out a single frequency or create the exact curve you want.

The Graphic EQ features 31 bands of equalization, 3 simple overall tone controls and a low- and high-cut filter pair to help shape your sound without sacrificing a filter band. It also includes a color coded response graph to display the overall gain and phase change so you can see at a glance the overall effect your settings are having on the audio.

**Rane Series Graphic EQ** (Mfr # GRAPHICEQ; B&H # SEGEQ)

For Digidesign Pro Tools HD and Venue systems running under Mac OS X and Windows XP .....**454.95**

**RANE SERIES**

**Parametric EQ for TDM**

The Rane Series Parametric EQ is a TDM plug-in for the Digidesign Pro Tools HD or VENUE platforms. It combines the pristine sound quality and excellent features of Rane’s top-of-the-line hardware, the PEQ 55, with the ease of a functional graphical user interface.

The Rane Series Parametric EQ is a very comprehensive EQ. Not only does it provide an incredibly clean and natural sound even at the extremes beyond the point where most parametric EQs would start to sound grainy, but it is the most flexible parametric EQ with ten bands that can each be moved from 12.5Hz to 20kHz and are all independently switchable between high or low shelf and bell filters.

The Parametric EQ includes a color coded response graph to display the overall gain and phase change so you can see at a glance the overall effect your settings are having on the audio.



**Rane Series Dynamics** (Mfr # PARAMETRICEQ; B&H # SEPEQ)

For Digidesign Pro Tools HD and Venue systems running under Mac OS X and Windows XP .....**454.95**

## Essentials

### SV Range of Plug-ins

The award-winning SV range of plug-ins are an essential part of any studio. Providing processing solutions for the routine tasks of compression, equalization and gating, these products are anything but regular. Using proprietary Sonalksis 'state-space' technology, these plug-ins are physically modeled to provide the ultimate in high-quality analog sound.

#### SV-315 MK2 Compressor



The Sonalksis SV-315 Mk2 Compressor is an analog-modeled dynamics processor developed for professional audio applications and employs physical modeling technology to provide a classic compressor/limiter with true analog characteristics, but offers a flexibility that can only be obtained from a digital processor.

Due to its flexibility, the SV-315 is suitable both for tracking and mastering environments, and imparts character and warmth on programmed material through its essentially analog design.

Whether you want to gently smooth a vocal, totally crush some drums, or compress an entire mix, this processor will do it with superior polish. However, although this compressor may be used for subtle applications, the SV-315 is definitely not transparent in operation, rather it deliberately imparts character and warmth on programmed material.

Both classic and contemporary compression responses can be obtained, with simple switches enabling the selection of an appropriate style. Several independently selectable level-detection, side-chain-filter and transient-characteristic circuits are provided within the compressor model.

#### SV-517 MK2 Compressor



The Sonalksis SV-517 EQ is a seven band tonal equalizer developed for professional audio sound sculpting. In keeping with the other plug-ins in the SV Series, it uses its unique design to provide a tone control with true 'analog' characteristics, while offering a flexibility that can only be obtained by a digital processor. The SV-517 EQ is not an 'esoteric' processor. Rather it aspires to the highest quality ideals. However, as part of the 'SV' range of products from Sonalksis, it follows a design philosophy that aims to maintain traditional analogue processing qualities.

Whether you need to add some air to a vocal track, or sweeten an entire mix, the SV-517 EQ is suitable for both mixing and mastering environments. A variety of filter styles are offered, modelling many classic and contemporary analogue responses, and simple switches enable selection of the appropriate style for your programme material.

The SV-517 EQ provides variable-slope high and low cut filters, as well as 5 bands of parametric control with switchable low and high shelving sections. Additionally, three styles of band-pass and three two styles of shelving filter are globally selectable, each with a switchable asymmetrical cut/boost characteristic. Thus in combination 14 different styles of filter are offered, across 7 filter bands. Each style provides a unique characteristic, and has been carefully chosen for its particular sonic aesthetic. While some styles are based on traditional designs, others present unique and innovative new models.

#### SV-719 Analogue Gate



In keeping with the other Sonalksis 'SV' series plug-ins, this analogue-modelled dynamics processor employs a unique design to provide a gate/expander with true 'Analogue' characteristics. To achieve this, it uses a sophisticated 'state-space' modelling technology. This enables analogue signal path characteristics to be captured in a digital design. The SV-719 is the most extensively featured gate/expander available. Aside from all the standard gate parameters, it features external side-chain inputs, multiple band side-chain filtering, midi triggering capability, and independent left/right channel triggering possibilities. In addition, a hybrid analogue/digital signal chain path allows look-ahead processing if required.

## CQ1 & DQ1

### Multi-Band Dynamics Plug-ins

The CQ1 and DQ1 belong to a new family of audio processors whose lineage extends from both dynamics and frequency based signal processing, creating hybrids with extended flexibility in applications, and enabling new possibilities in precision sound sculpting. The CQ1 and DQ1 provide opposing approaches to this 'dynamic equalization', thus complimenting each other perfectly.



#### CQ1 Multi-Band Compressor

The Sonalksis CQ1 is a multi-band frequency-selective dynamics processor, allowing independent compression or expansion of four freely-adjustable filter bands. Unlike typical multi-band compressors that are designed primarily to master composite program material, the CQ1 uses the principle of 'dynamic equalization' and is therefore suitable for a much broader range of applications.

The 'frequency-selective' processing employed by the CQ1 is far more sophisticated than standard 'frequency-conscious' multi-band compression. The CQ1 greatly extends the possibilities of dynamics

processors with the ability to refine specific frequency compression or expansion with unparalleled accuracy. Although it uses the same dynamic-EQ principle as the DQ1, the CQ1 is designed primarily to provide gentle or aggressive shaping of the signal dynamics in explicit frequency bands, rather than the subtle frequency sculpting of the DQ1.

In addition to general program compression/expansion, the CQ1 will find uses in applications that may otherwise present difficulties for less flexible processors, including Multi-source separation, High/Low frequency enhancement, Transient enhancement and De-essing or Pop/Squeak reduction.

- ◆ 4 independent bands of sophisticated yet intuitive frequency-selective compression or expansion
- ◆ Selectable above or below threshold (upwards or downwards) operation
- ◆ Sonalksis 'State-space' physical model ensures 'true analog' response
- ◆ Definable side-chain filtering ensures any frequency can act as a trigger
- ◆ Zero latency: absolutely no internal delay whatsoever
- ◆ 64-bit floating point internal precision throughout
- ◆ Ultra efficient processing, with specific optimisations for native processors
- ◆ Up to 192 kHz support
- ◆ Support for most formats on Mac & PC platforms

#### DQ1 Dynamic Equalizer

The DQ1 dynamic-equalizer is an extremely versatile processing tool that can be used for precision sculpting, creative moulding, ambient enhancement or restoration – maintaining the same unparalleled audio quality expected from Sonalksis products and making the DQ1 a unique and indispensable addition to any audio processing toolbox.

Dynamic equalization allows frequency sculpting beyond the limits of standard 'static' equalizers, by linking the user-defined frequency response to the audio signal level; thus frequency imbalances can be corrected psychacoustically, altering an equalization curve dynamically on the basis of programmed loudness. This makes the DQ1 extremely flexible and suitable for a variety of sound design roles, working as a perfect compliment alongside the Sonalksis SV-517 multi-style (static) EQ.

The DQ1 is a frequency-sculpting processor first and foremost, appropriate more for dynamic-filtering purposes than frequency-selective dynamics, and although these two applications are to some extent interchangeable, the DQ1 will be more at home providing gentle but precise sculpting of the audio spectrum. If greater dynamic impact is required it can be achieved with the Sonalksis CQ1, the sister product of the DQ1, which is designed primarily as a frequency-selective compressor/expander, providing a means to aggressively shape the signal dynamics of explicit frequency bands.

- ◆ 4 independent bands of sophisticated yet intuitive dynamic filter control.
- ◆ High quality minimum phase 'true analog' filters using Sonalksis 'State-space' physical model.
- ◆ Zero latency: absolutely no internal delay whatsoever.
- ◆ Each band is switchable between dynamic or standard 'static' mode.
- ◆ 64-bit floating point internal precision throughout.
- ◆ Ultra efficient processing, with specific optimisations for native processors.
- ◆ Up to 192 kHz support.
- ◆ Support for most formats on Mac & PC platforms.



## NATIVE EFFECTS BUNDLE



The SoundToys Native Effects bundle brings RTAS, AudioSuite and Au compatible DAW users the high quality analog emulation of classic effects, plus professional pitch and time manipulation. With its six full-scale plug-ins this bundle delivers endless creative possibilities for any music or sound design applications. Featuring the acclaimed **EchoBoy**, with 30 echo/delay emulations, 3 band EQ with decay shaping, and a realistic analog sound and response. **FilterFreak**, analog sounding single or dual resonant filter with six modulation modes including programmable rhythms. **PhaseMistress**, emulations of classic and modern phase shifters with the same extensive modulation of FilterFreak. **Tremolator**, classic tremolo emulations, dynamic control and Rhythm Mode for extreme auto-gated rhythmic effects. **Crystallizer**, Retro pitch-shifting, reverse granular echo with MIDI sync and tone control. **SPEED** (AudioSuite only), tempo/time control and pitch-shifting with Simple, Graphic, and Calculator modes.

### EchoBoy – The Ultimate Echo Plug-In

Originally available for Pro Tools TDM systems, EchoBoy was designed to provide more analog-style warmth than existing delay plug-ins, yet not as dark as guitar pedal echos. And now it has become a permanent fixture on the aux faders of hundreds of top mixers and engineers. EchoBoy was meant to be abused, just like real analog gear: cranking the gain adds more analog fatness, plus you can choose the amount and type of analog saturation, dial in the amount of tape wobble, and even reverb-style diffusion control. It's easy to switch between Dual Echo or Ping-Pong modes for powerful stereo echo effects; or use Rhythm mode's remarkably easy-to-use 16-tap rhythmic delay. Rounding things out is a 3-band parametric EQ is available with control over echo decay and tone.



- ◆ Delay times can be specified in milliseconds or musical note values, and it will also lock to your host sequencer.
- ◆ Find an echo tone that fits your mix by choosing one of the 30 built-in echo styles modeled after SoundToys collection of vintage echos.
- ◆ EchoBoy's chorus emulates the CE-2 chorus, considered a holy-grail of guitar chorus pedals.
- ◆ Get instant access to a whole range of classics, including "Studio Tape", modeled after SoundToys' ATR-102 half-inch two-track machine, EchoPlex, Space Echo, Memory Man, DM-2, and the TelRay oilcan delay.
- ◆ Using the Groove, Accent and Feel controls you can fine-tune the echo's rhythm using, and dial in a musical sound that fits your style.



### FilterFreak – Resonant Analog Filter

FilterFreak is a Resonant Analog Filter that is FAT and warm. You can select emulations of different filter types to get a wide range of classic sounds. From funky envelope followers like Mutron, to subtractive synth style reshaping with ADSR, to old Morley WahWah pedals and big resonant LFO sweeps like the Sherman Filterbank. A unique Rhythm Mode allows you to create cool custom patterns that lock to MIDI. All the fat and the flexibility of a whole closet full of filters and beyond. With the Analog Mode switched on and the

input / output gains cranked, you can easily add Dirt, Pump, Shred or Fat to the sound — just like you can with hardware.

- ◆ The Rhythm Mode gets you moving with the music. Flip the MIDI switch, select 1/4 notes and a sine wave, instant auto wah. The Rhythm Editor and create a custom pattern that fits your tune. Patterns can even be saved and used in PhaseMistress, Tremolator, or EchoBoy.
- ◆ The Groove knob lets you dial in swing or shuffle to drop the groove in the pocket. **FilterFreak2** utilizes two fat analog filters that you can run in serial or parallel. Each can select from Low/High Pass, Band Pass and Band Reject. As well as, 2, 4, 6, or 8 pole filters. Bass, guitar, synths, vocals, anything you want to put through it and anyway you want it.

## NATIVE EFFECTS BUNDLE

### Phase Mistress - Analog Phaser

Phase Mistress is an Analog Phase Shifter that offers emulations of numerous classic and coveted hardware units including the Bi-Phase, Boss Super Phaser, Phase 90, to the Moogerfooger 12 stage, Small Stone, Trine and many more. Through thier thorough analysis, SoundToys was able to nail all of the rich, warm, silky analog sounds of these coveted devices. And in order to take Phase Mistress to another level, they added a bunch of additional modern and forward thinking features such as MIDI sync, custom rhythmic patterns and a large preset library. Modulation sources include LFO, Envelope follower, Random, ADSR as well as SoundToys' unique Rhythm Mode. You can put Phase Mistress on individual tracks or even entire mixes with stellar results. Designed with ease of use in mind, Phase Mistress allows you to find the sound you're after fast, no-matter how sonically deep and complex.



### Tremolator - Tremolo and Auto-Gate

Tremolator emulates the tremolo effect of classic guitar amps and electric pianos with modern features including, dynamic control of speed and depth, and MIDI sync to lock in your tempo. And like most of the other SoundToys effects, there is also a programmable Rhythm Editor that let's you write custom patterns and turns this amazing tremolo into a outrageous rhythmic auto-gate. Tremolator is at home for traditional guitar-based effects, or for creating trance-inducing dance rhythms for remixing.



Analog mode recreates the sounds going in and out of a piece of analog hardware. You can switch the smooth tremolo waveforms over to a sharp squarewave for syncable auto-gate effects. You can lock it to MIDI with the flip of a switch, then select 1/8th notes, 16th notes or whatever fits the rhythm you need. If straight note pulses isn't what you need, use the Rhythm Editor to write your own cool groove (You can even pull a groove from the included library). Add some swing or shuffle, accents, and analog mode. You can even use the Waveshape Editor to tighten or loosen the gate time. The Tweak menu is where you will find the Dynamics controls. These parameters let your playing control the speed and/or depth of the modulation. You can create cool speed ups or slow downs based on how loud or soft you play. You can create smooth increases in depth as your cords fade out, or heavy tremolo that fades away. Plus there are already some great presets in our Dynamics folder that you can "tweak" to fit your needs.

### Crystallizer - Reverse Echo Effects

Inspired by the Crystal Echoes preset in the Eventide H3000, Crystallizer combines granular reverse echo slicing and retro pitch processing to create a huge range of radical sonic manipulations and classics with a twist. You can use Crystallizer to create synth-like textures from simple acoustic guitar rhythms, lush detuned echos, or completely psychedelic pitch-shifted reverse echo effects. Great for drums, guitar, bass, sound design, electronic music, and just about anything else - Crystallizer is a truly unique and creative effects processor. The modern incarnation of the Crystallizer algorithm includes many breakthroughs including MIDI sync — you can even MIDI sync revers delays. A built-in Gate/Duck control, and high-cut and low-cut filters help tame unruly effects. Crystallizer uses old school pitch-shifting techniques, based on the Eventide H910 Harmonizer, which used a resample and cross-fade technique that introduced audible 'glitches' in the pitch-shifted audio. There are numerous presets to get you started, and like all of SoundToys plug-ins, Crystallizer is fully automatable.



### Speed - Time Compression/Expansion for AudioSuite



Speed is an AudioSuite plug-in that allows you to change the tempo of audio tracks without affecting pitch, transpose pitch without affecting tempo or even alter tempo and pitch simultaneously. Speed works equally well on drum tracks, single instruments and even entire mixes — processed audio tracks are free from unwanted artifacts while transients and rhythmic consistency are preserved. Speed is perfect for time conforming commercial spots and is the ideal tempo and pitch matching utility for today's loop-based music productions.

**SoundToys TDM Effects - Plug-In Bundle for Mac OS X and Windows XP/Vista** (Mfr # SOUNDTOYSTDM • B&H # SOSTETDM3).....**995.00**

**SoundToys Native Effects - Plug-In Bundle for Mac OS X and Windows XP/Vista** (Mfr # SOUNDTOYSNATIVE • B&H # SOSTEN3).....**395.00**

## Musicians Bundle I & II Native



Created specifically for the Native DAW environment, the Musicians I and II bundles each bring the power, clarity and intuitive control of Waves tools within reach of anyone. These award winning plug-ins will allow you to create tracks with presence, punch, and a unique sonic signature. Both bundles include two intelligent compressor/expander/gate dynamics tools optimized for guitars and vocals; the Renaissance Axx and Renaissance Vox, along with time domain effects including Doubler and SuperTap. The Musicians I bundle also offers Meta Flanger, for flanging, phaser and chorus effects, while the Musicians II bundle features the stellar Renaissance EQ and compressor plug-ins. Both bundles include compatibility with RTAS, AudioSuite, Audio Units, VST, MAS, and DirectX on their respective Mac and PC platforms.

### Both Bundles Include:

Doubler – Double Tracking  
Super Tap – Multi-Tap Delay  
Renaissance Axx – Instrument Compressor  
Renaissance Vox – Vocal Compressor

### Musicians I Bundle Only:

MetaFlanger – Flanger

### Musicians II Bundle Only:

Renaissance EQ – EQ  
Renaissance Compressor – Compressor

## Doubler Double Tracking



The Doubler is an automatic double-tracking device that will make any instrument or vocal larger than life, adding depth and dimension to the sound. Employing an innovative combination of delay and pitch modulation, the Waves Doubler delivers a wide range of time-domain doubling effects. Unlike other delay and pitch modulation processors Doubler specializes in the double tracking sound that is great on polyphonic instruments and full mixes. Doubler offers a choice of two and four voices, and is available in both mono and stereo versions. Each voice has Detune, Pan, Delay, EQ and Volume. With a Detune range of 100 cents and a modulation range of 200 cents for modulation, Doubler provides control over an array of creative doubling effects. The LFOs have re-set and sync for synchronization to the beat or start of the sound for repeatable effects.

## SuperTap Multi-Tap Delay

SuperTap is a six-tap delay with up to six seconds of mono or true stereo delay. There's a dedicated Eq/Filter section for each tap derived from the acclaimed Q10 as well as Global LFO and a feedback section capable of overmodulation and positive gain feedback loops capable of some serious distortion. SuperTap can produce a wide range of creative rhythm effects and loops and includes 19 factory presets covering a broad range of multi-tap delay effects, including analog and tape delays, slapback echo, chorusing and more. To conserve processing power, SuperTap allows you to choose between 2 or 6 tap plug-ins, in mono or stereo, with or without modulation.



## MetaFlanger



MetaFlanger is a plug-in for creating unlimited flanging, phaser and chorusing effects including classic tape flanging effects and other mutations of vintage modulation effects. It can emulate traditional analog flangers, fill out a simple sound, create intricate harmonic textures and even generate small rough reverbs and effects. The Filter section allows you to affect only the upper or lower frequency ranges, while phase inversion allows even greater, more dynamic effects control. Has an extensive library of factory presets.

## Musicians Bundle I & II Native

### Renaissance VOX



This may be one of the ultimate “one-knob” compressor limiters in pro audio history. Actually it has two controls because it also has a gate. Renaissance VOX is optimized for vocal tracks, featuring a simple interface with only two controls and two meters. The elegant display controls a compressor, gate, and precision limiter with automatic gain staging for clip-free maximization of vocals. The Energy control adjusts the threshold of the multi-stage downward expander, and the Compression control adjusts the amount of compression and limiting while automatically providing output gain boost. This greatly simplifies voiceover or vocal track production by giving the user a single-control adjustment for the most-needed compression and maximization of such tracks.

### Renaissance Axx

The Renaissance Axx is a compressor ideal for optimizing level and dynamics of any track especially Guitars, Bass and other instruments. The Renaissance Axx Incorporates a limiter at the output so that you don’t create digital clipping. The Renaissance Axx has a fixed ratio curve and automatic release control. Using just 3 simple controls you can get the dynamics and level that you want. The idea behind the control of Renaissance Axx is to have the musician and more hobbyist sound engineer in mind and provide something that fast setting and yet very effective with the sound quality of a true pro audio quality.



### Renaissance EQ



Renaissance EQ is a 2, 4 and 6-band audiophile quality EQ. Its Q10 style functionality includes separate Gain, Frequency Q and Filter Type controls for each band that can be controlled via dedicated buttons or graphically using the intuitive Frequency Response Graph. The various filter-curves, based on the theoretical designs of renowned engineers emulate the warm, sweet sounds of vintage-style EQ filters including prized Pultec EQs.

- ◆ 2, 4, and 6 band versions with controls for Gain; Frequency (16Hz to 21,357Hz); Q Factor
- ◆ Filter-curves based on vintage analog equalizers
- ◆ Double precision bit resolution processing
- ◆ Filter Types Asymmetric Bell, Resonant Hi/Low Shelf, Hi/Low Pass per band
- ◆ Frequency Band Marker Graphic control over Frequency and Gain per band

### Renaissance Compressor

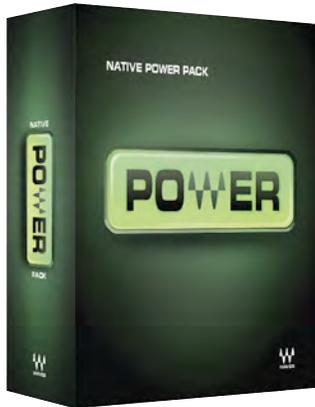
The Renaissance Compressor is a vintage style compressor/expander with a barebones, no nonsense interface. The five standard compressor controls — threshold, ratio, attack, release and gain are enhanced with Mode, Character and Behavior controls that let you choose between manual or auto-release functionality, analog warmth or an uncolored sound, and Electro or Opto circuit emulation. A diverse range of factory presets for use in mastering, voiceovers, vocals, drums, guitar and bass, transient restoring expanders as well as aggressive pumping effect, provide a starting off point to get you going.

- ◆ Vintage Opto and modern Electro compression modes
- ◆ Internal brickwall limiting for clip-free output
- ◆ ARC Auto Release Control for increased RMS levels.
- ◆ Double precision bit resolution processing
- ◆ Up to 24bit 192kHz resolution
- ◆ Mono and Stereo components
- ◆ PC and Mac compatible



**Waves Musicians Native Bundle** (Mfr # MUSNA • B&H # WAMNBQ) .....CALL     **Waves Musicians II Native Bundle** (Mfr # MUS2NA • B&H # WAM2NB) .....CALL

## NATIVE POWER PACK



### Native Plug-in Bundle For Mac and PC

Waves' Native Power Pack is a complete software bundle of audio processing essentials. It includes everything you need for, mixing, mastering, and sound design for music and film. With a total of 10 plug-ins, from reverb, delay, and equalization to compression, limiting, and level maximization, the Native Power Pack delivers the perfect way to take the processing capabilities of your native DAW system to a higher level. The high-quality plug-ins bundled in the Native Power Pack include the famous TrueVerb virtual-space reverb, the Q10 "Swiss-army knife" equalizer, C1-compressor and C1-gate, the S1-Stereo Imager, and of course, the essential L1-UltraMaximizer mastering peak limiter. Together, they let you shape your audio with precision and creativeness. The Native Power Pack supports RTAS, AudioSuite, VST, and Audio Units formats on Mac and Windows with

sample rates up to 96kHz or 192kHz, depending on the plug-in. An upgrade path is available from the Native Power Pack to the Gold or Platinum Native Bundles.

Bundle  
Includes

**TrueVerb** (up to 96kHz)\*

**IR-L** Convolution Reverb (up to 96kHz)\*

**L1** Ultramaximizer (up to 192kHz)\*

**Q10** Paragrophic EQ (up to 192kHz)\*

**C1** Parametric Componder (up to 192kHz for Comp and Gate and up to 96kHz for comp-gate and comp-sc)\*

**SuperTap 2-Tap** Delay (up to 192kHz)\*

**Doubler** (up to 192kHz)\*

**DeEsser** (up to 192kHz)

**S1** Stereo Imager (up to 192kHz)\*

**Renaissance Axx** (up to 192kHz)\*

\*Maximum Supported Sample Rate

### L1 Ultramaximizer



The L1 is a mastering level brickwall limiter that combines state-of-the-art peak-limiting with proprietary word length reduction that maximizes audio levels and resolution while minimizing quantization noise — create 16-bit files with 19-bit perceived resolution. Use L1 to maximize audio levels for CD's and multimedia and as as the final audio processor in mastering. The L1 installs two separate plug-ins into your host application: L1 limiter, a mono/stereo wideband limiter without IDR, best used as a track insert for voice, instruments or effects. L1-Ultramaximizer, the "full" mastering plug-in with limiter and all IDR options.

- ◆ Peak limiting interface consists of input attenuation, threshold, output ceiling, release time controls and a gain reduction meter.
- ◆ As the Threshold is lowered below the level indicated by the peak threshold meters, the output level is increased but only to the maximum set by the output ceiling control
- ◆ Release time controls how fast the L1 recovers to the constant gain after a peak is encountered
- ◆ Lookahead peak limiter for maximum level
- ◆ 48-bit internal resolution for TDM and 64-bit on Native systems allows dithering back to 24-bit output for DVD authoring and high-resolution mastering
- ◆ Although your audio may not exceed the digital maximum set by the out ceiling control, it may clip when converted to an analog, especially if an inferior A-D converter is used. To combat this, choose Analog Domain for your final mastering ceiling out reference and this will prevent sample from going over when converted to analog.

### IDR (Increased Digital Resolution)

- ◆ Waves' proprietary word length reduction system, IDR implements Quantize, Dither and Noise-Shaping to ensure maximum digital resolution when reducing the number of bits in your audio.
- ◆ Quantize allows you to chose the final bit depth output (8-, 16-, 20-, 24-bit). The L1 works at 48-bit resolution, and is dithered back to 24-bit when this option is chosen.
- ◆ Dither controls the type of dithering process to be used:
  - Type 1 yields lower distortion but adds about 5 dB to the noise floor.
  - Type 2 yields lower dither level without increasing noise floor.
- ◆ Noise-shaping options include Moderate, Normal, Ultra or non and can be applied to suit your preference for each application.

## NATIVE POWER PACK

### C1 Parametric Compunder



The C1 consists of three independent stereo processing modules: Compressor/expander, Gate/expander, and Filter/equalization. The EQ mode of the Compressor/expander may be chosen independently of each other. For example, you can combine a wideband compressor with a high frequency gate. The Threshold/GateOpen, Attack, Release, EQ Mode controls of the two dynamics modules can be operated simultaneously. The EQ Mode switch has three modes. Wideband mode operates as a conventional expander/gate or compressor, Sidechain mode passes the desired sidechain audio signal used to control the dynamics through the filters in the EQ module so that the dynamics respond only to a defined frequency band. Split mode not only filters the sidechain audio signal, it also separates the main signal into two bands: an active band which will be processed and a passive band which is not processed. The Filter module allows you to designate frequency bands for use with the Sidechain EQ and Band split modes.

C1 consists of six component plug-ins based on the three available processor modules allowing you need without wasting DSP power. Each component plug-in has its own factory and user presets.

**C1comp** – Wideband compressor/expander with no sidechain, for use as a basic track insert

**C1gate** – Wideband downward expander/gate with no sidechain

**C1c/sc** – Compressor with sidechain or split-band compression can be used as a high or low frequency limiter, de-esser, de-popper, sidechain drum gate, standard limiter/compressor/ expander or no-pump sidechain mastering compressor

**C1comp/gate** – Wideband compressor and gate combo with no sidechain for general use outboard track insert

**C1c/g+** – The “full” plug-in, with compressor, gate, sidechain EQ, and IDR for use as a precision multi-function, multi-band mastering processor; as a wideband compressor with high frequency gate; simultaneous compression and upward presence enhancer

**C1c/g** – Same as +C1c/g without IDR

### Compunder/Expander Module

- ◆ Provides basic soft knee variable-ratio compression, expansion and limiting using the following controls.
- ◆ Toggle between two reference modes to control how the Makeup Gain stage will react to gain reduction.
- ◆ Standard controls include Makeup Gain, Threshold, Ratio (variable from 0.5:1 (Expansion) to 50:1 (Limiting), Attack time, Release time.
- ◆ Program Dependent Release can apply a short release time to transient signals while at the same time maintains a more relaxed release time for normal dynamic material.

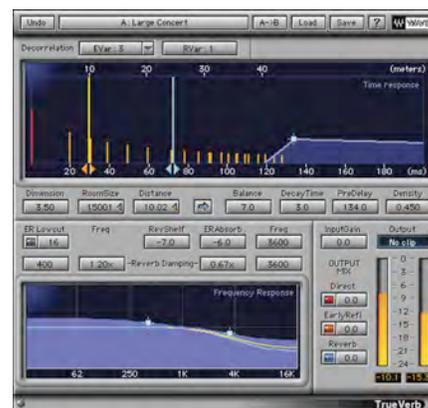
### Gate/Expander Module

- ◆ Full range of adjustments independent of those in the Comp/Exp module. However, some of the controls of the two modules may be linked together for ease and speed of adjustment.
- ◆ Controls include: Floor sets the lowest level that a sound will be taken to when gated or expanded, GateOpen, GateClose, Attack time, Release time, and Hold.
- ◆ Control level meter shows the level of the wideband or sidechain EQ signal controlling the processor. The meter time constants match the Gate/Exp attack and release times.

### TrueVerb Reverb/Room Simulator

TrueVerb is a room emulator/reverb processor that uses separate early reflection and reverb algorithms to generate compelling virtual spaces. Control the Room size, its decay time and frequency characteristics as well as the Distance between the sound source and listener.

- ◆ Create natural sounding rooms without distorting the original stereo image
- ◆ True Stereo compatibility
- ◆ Two user modes: Send mode or Thru Mode where TrueVerb is inserted on a stereo submix or master outputs to create a virtual room for groups of instruments or an entire mix
- ◆ Constant Perceived Level ensures a consistent overall mix as you tweak TrueVerb's parameters
- ◆ Extensive setup library with dozens of presets, many tailored specifically for either Send or Thru mode usage
- ◆ Separate editable graphic Time Response and Frequency Response displays



## NATIVE POWER PACK

### Q10 ParaGraphic EQ

The Swiss-army knife of equalizers, the Q10 provides up to 10-bands of precision mono or stereo EQ. An extensive Setup Library includes 200+ presets, from gentle sweetening EQs for mastering to extreme filters for hum removal and creative effects, suitable for every aspect of audio production.

- ◆ 7 Plug-in Components 1, 2, 3, 4, 6, 8 and 10 bands, each available in mono and stereo.
- ◆ Advanced noise-shaping for optimum fidelity.
- ◆ Filter Type Band Pass, Low Shelf, High Shelf, Low Pass and High Pass per band
- ◆ Gain -18dB to +18dB per band
- ◆ Frequency 16Hz to 21,357Hz per band
- ◆ Q 0.5 to 100 per band
- ◆ Separate or Linked processing and parameter control.
- ◆ Presets for Multimedia, Pseudo-stereo, Band Limiting, Comb Filtering, Crossovers, Hum Removal, and More
- ◆ Frequency Curve Graph and Value Windows provide interactive control over Frequency, Gain and Q
- ◆ Up to 24bit 192kHz resolution



### S1 Stereo Imager



S1 combines a number of stereo processing techniques, based on recognized engineering principles, with an intuitive user interface. Four component plug-ins, S1 provides powerful stereo enhancing and rebalancing tools for use in mixing, mastering and digital editing without adding unwanted tonal, phase coloration and with a high level of mono compatibility with minimal side effects. Supports 88.2/96kHz native host applications as well as 48-bit double precision resolution for TDM.

#### Four S1 component plug-ins let you select the amount of audio processing you need.

- S1 Shuffler is the full plug-in, with all controls, for mastering, fixing off-center or unbalanced mixes, precision image adjustment, changing wideband width or expanding the low frequency image as well as Rotating true stereo sources without narrowing the stereo stage
- S1 Shuffler (48) is the full mastering plug-in for TDM users with 48-bit double precision resolution dithered to a 24-bit output
- S1 Imager is less processor intensive than S1 Shuffler with Width, Rotation, and Asymmetry controls for enhancing stereo mixes or Rotating stereo-mic and submixes into place)
- S1 MS converts left-right input into Mid/Side stereo (MS) output or vice versa.

### De-Esser High Frequency Dynamics Processor

Equipped with only a few simple controls, De-Esser provides fast and easy de-essing and High Frequency limiting that can be applied to a wide variety of sources especially singing and voice-overs to remove sibilant 'esses' and 'sshs'. A choice of Wideband and SideChain mode allows you to use De-Esser as a high frequency dynamics processor or as a straightforward compressor/limiter.

- ◆ Sharp side-chain filters
- ◆ Wide-band or Split compression modes
- ◆ Audio or Sidechain monitoring
- ◆ Up to 24bit 192kHz resolution
- ◆ Mono and Stereo components
- ◆ Supports RTAS, Audio Suite, VST, AU
- ◆ Frequency 2,000Hz to 16,000Hz Cutoff frequency for the sidechain filter.
- ◆ Audio Split or Wideband modes.
- ◆ Sidechain Filter Type High Pass or Band Pass.
- ◆ Monitor Audio or Sidechain.
- ◆ Threshold -80dB to 0dB integrated with the Input Energy Meter.
- ◆ Attenuation Meter -30dB to 0dB with peak hold indicator.
- ◆ Output Meter -30dB to 0dB with peak hold indicator.



# NATIVE POWER PACK

## IRL Convolution Reverb

IR-L is Waves' "light" convolution reverb, offering the same great sound and impulse responses as IR-1 but with fewer controls for simpler, more efficient operation. The entry level plug-in is IR-L, which uses the same convolution engine and samples but with a more basic feature set. It can be upgraded to either the IR-1 or IR-360. IR-L is available in two versions: Native and HTDM. Controls include Reverb Time with a ratio of 1:0.25; Convolution Start/Length controls; Direct in/out; Global pre-delay to all IR components; Latency display and Dry delay; Dry/wet control; Crosstalk; Output; and graphical display of IR properties.

- ◆ Convolution Start Control lets you trim the beginning of an impulse response to eliminate unwanted pre-delay.
- ◆ Extensive Library of Impulse Response Samples with Different Micing Options.
- ◆ Dynamic Preset Handling. Adding or removing presets is now easier, with the preset menu reflecting the impulse response samples contained in the presets folder.
- ◆ 96 kHz support for high resolution.
- ◆ Reverb Time RT60. Unlike existing products, IR-L uses unique impulse response (IR) manipulation techniques to allow shortening (times 4) of the reverb time while maintaining acoustic coherence and preserving the natural envelope and frequency content.
- ◆ CPU Usage Control. Special Efficient-Stereo components requiring less processing power; A "low CPU" mode utilizing intelligent algorithms that require less CPU usage while preserving high sound quality and definition.



- ◆ Convolution Length Control. This allows control over the length of the actual real-time convolution. Therefore the CPU load can be reduced if desired by using a shorter convolution length while maintaining the RT60.

**Native Power Pack** (Mfr # NPP • B&H # WANPP): Includes L1 Ultramaximizer, C1 Parametric Compressor, TrueVerb Reverb/Room Simulator, Q10 ParaGraphic EQ, S1 Stereo Imager, De-Esser High Frequency Dynamics Processor, IRL Convolution Reverb .....**CALL**



## Q-Clone Native & TDM Hardware EQ Snap-Shot Capture Plug-In

*Q-Clone is a revolutionary product utilizing unique (patent-pending) technology that lets you use your outboard hardware equalizer in a completely new way. By capturing the sound of your own gear, Q-Clone allows you to use that sound freely throughout your session, adjusting the sound of each track just as you would if you had dozens of that same hardware equalizer.*

- ◆ 2 plug-in components: Q-Clone and Q-Capture
- ◆ Double precision bit resolution processing
- ◆ Up to 24bit 96kHz resolution
- ◆ Mono and stereo components
- ◆ Supports RTAS, Audio Suite, VST, AU
- ◆ PC and Mac compatible

### Q-Capture

- ◆ Receiving and Transmitting Meters Shows Impulse Status
- ◆ In/Out Meters -50dB to 0dB with peak hold indicators and a clip indicator
- ◆ Headroom Fader -32dB to 0dB

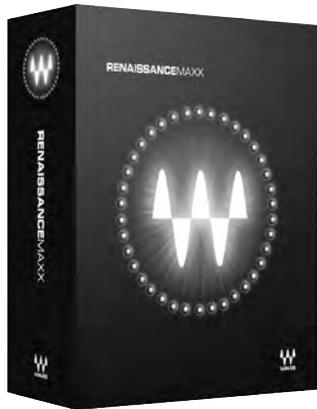
### Q-Clone

- ◆ Graph Scale 16dB or 30dB; Frequency/Gain Response Graph 25Hz to 16kHz, 30dB to +30dB
- ◆ Mode control buttons Capture, Hold and Add
- ◆ Output Gain (-48dB to +12dB); Output Meter -50dB to 0dB; and Trim Output adjustment



**Q-Clone** (Mfr # QCNTDM • B&H # WAQCNTDM) .....**CALL**

## Renaissance Maxx Bundle Native or TDM



### Classic Sound — Complete Control

Available for Native and TDM platforms, Renaissance Maxx offers seven of Waves' most acclaimed audio processors in one bundle to provide the MAXXimum in flexibility, efficiency and intuitive control. Renaissance Maxx features vintage-modeled equalization, dynamics, and reverb plus a powerful vocal processor, a new de-esser, Renaissance Bass, and the new plug-in that tips the scale — Renaissance Channel— the ultimate channel insert processor. Renaissance VOX combines compressor, limiter and gate functions to bring vocals and solo instruments to the front of the mix while pushing out unwanted noise. Renaissance Bass refines Waves' popular MaxxBass technology to allow bass frequency extension through speakers with limited low frequency response. Renaissance DeEsser is the next generation DeEsser, and Renaissance Channel is a true channel insert with EQ, comp/limiter, gating, and more incorporated from other award-winning Renaissance plug-ins.

#### Renaissance Maxx Bundle (Native or TDM) Includes –

- ◆ Renaissance Axx
- ◆ Renaissance Bass
- ◆ Renaissance Channel
- ◆ Renaissance Compressor
- ◆ Renaissance DeEsser
- ◆ Renaissance Equalizer
- ◆ Renaissance Reverb
- ◆ Renaissance Vox
- ◆ IR-L Convolution Reverb
- ◆ Waves Tune LT

## Renaissance Reverberator

The Renaissance Reverberator is a high end, classic sounding reverb processor that recreate the warm sound qualities and simple operation of classic hardware in the digital domain. Designed to be musical, not technical, the Renaissance Reverberator processors has a clean and simple interface with just a few straightforward controls. It features rich reverb tails, plus a second generation early reflection system, providing density and texture.

Reverb Types include: Hall1, Hall2, Room, Chamber, Church, Plate1, Plate2, Reverse, Gated, Non-Linear, EchoVerb and ResoVerb. Adjustable reverb parameters include: Time (from 0.1s to 20s); Size (1 to 100); Diffusion (0 to 100); and Decay (0.04 to linear). Additionally, the De-correlation parameter provides subtle early reflections changes and fine tuning. The Output section offers wet dry mix control along with gain controls for the dry, reverb and early reflection signals. A wide range of filtering options are also provided.

- ◆ 12 reverb types
- ◆ De-correlation for subtle early reflections changes and fine tuning
- ◆ Negative Predelay value delays the dry signal
- ◆ Up to 24bit 96kHz resolution (TDM 24/96 Compact component only)



## Renaissance Bass

Waves developed the MaxxBass technology to allow audio engineers to selectively add harmonics which significantly enhance the bass perception by the listener, and most importantly, beyond the range of the speaker's conventional frequency response. Renaissance Bass takes the MaxxBass algorithm to greater effectiveness and simpler operation. The process has been refined and is even more effective than the original processor. In addition, a simplified user interface helps achieve top-quality sound with quick adjustment, whether in post, mixing, mastering, or multimedia.

- ◆ Extends perceived bass response by up to 1.5 octaves.
- ◆ Delivers bigger bass for any system.
- ◆ Clip-free performance.
- ◆ Up to 24bit 192kHz resolution.
- ◆ Controls include: Frequency Cutoff; In/Out Adds or removes the original bass from the output signal, Original Bass Meter; Harmonic Intensity; Harmonics Meter; Output Gain Fader; and Output Meter.

**Renaissance Maxx Native** (Mfr # RXNA • B&H # WARXNA).....CALL

**Renaissance Maxx TDM** (Mfr # RXTDM • B&H # WARXTDM) .....CALL

**Renaissance Maxx Native (Upgrade)** For Owners of Musicians Native Bundle (Mfr # MUNRXUP • B&H # WAMUNRXUP) .....CALL

**Renaissance Maxx TDM (Upgrade)** For Owners of Gold TDM Bundle (Mfr # R4TXUP • B&H # WAR4TXUP) .....CALL

**Renaissance Maxx Native (Upgrade)** For Owners of Gold Native Bundle (Mfr # R4NXUP • B&H # WAR4NXUP) .....CALL

## Renaissance Maxx Native or TDM

### Renaissance DeEsser

Renaissance DeEsser is a state-of-the-art sibilance attenuator which reduces undesirable high frequencies while preserving the integrity of your source. With a variety of presets for both male and female voices, Renaissance DeEsser makes it simple to zero in on the problem spots and clean them up with accuracy and ease. Renaissance DeEsser relies on technologies used in Waves C4, DeEsser and Renaissance VOX plus it has along with proprietary features that make it better than other DeEssers including Waves own DeEsser.

- ◆ Threshold is not the normal “absolute value” threshold that you usually have. Dynamically adapting to the input signal in order to provide a more unified DeEssing effect yielding more natural sounding results.
- ◆ Phase compensated crossover helps avoid undesirable coloration to the sound and to eliminate phase modulation that would otherwise occur as an artifact of the amplitude modulation applied by the compressor.
- ◆ Specify the maximum desired gain reduction for better control of the DeEssing effect.
- ◆ As the DeEsser works only on part of the spectral range of the input, the graphic user interface incorporates a graph that lets you see what you hear.



### Renaissance Channel

Renaissance Channel is a complete channel processor with true double precision operation for maximum fidelity and artifact-free audio. It includes vintage modeled EQ and compression inherited from the critically acclaimed Renaissance EQ and Compressor, selectable EQ/Dynamics ordering, and independent sidechain configuration of routing and filtering for compression and gating. In addition, it includes overload protection and stereo rotation, taking the concept of channel insert to the limit.

The EQ features consistent filter response over the entire audio range, with two user-selectable compression curves – one taken from the Renaissance Compressor, and the other from the Renaissance VOX processor. With true double precision processing, the internal processing bus always has the definition required to handle any input signal without artifacts or internal distortion, while overload protection ensures there is no output clipping. The entire stereo stage can be rotated, controlling the level balance without affecting center channel sound. In addition, sidechain routing and filtering can be configured independently for the gating and compression components of the processor.

- ◆ 4 processors in 1
- ◆ Independent Gate and Compression
- ◆ Selectable EQ/Dynamics signal flow
- ◆ Double precision bit resolution
- ◆ EQ with consistent filter response over the whole frequency range
- ◆ Setting of sidechain routing and filtering for gating and compression
- ◆ Stereo Rotation control
- ◆ Overload protection - no output clipping
- ◆ Up to 192kHz sample rate (TDM up to 96kHz)
- ◆ Mono. Mono-to-Stereo and Stereo components



### Waves Tune LT

Waves Tune LT is a special edition of Waves Tune pitch correction plug-in. It is included with selected Waves bundles including the Renaissance Maxx Bundle. It delivers the same great sound as Waves Tune, using an intuitive interface, and simplified controls.

- ◆ Operates in sync and controls host transport using ReWire.
- ◆ Pitch Edit Graph with Waveform Overview, Timeline, Piano Roll and Pitch Editor.
- ◆ Three timeline modes including bars/beats, minutes/seconds and samples.
- ◆ Selectable scale types with 43 presets.
- ◆ Formant correction.
- ◆ Up to 24bit 96kHz resolution.
- ◆ Mono and Stereo components.
- ◆ Supports RTAS, Audio Suite, VST, AU
- ◆ PC and Mac compatible

## Gold Bundle Native or TDM

### Professional Tools for Production, Mastering, Tracking and Multimedia



Whether you've exhausted your old plug-ins or have simply been waiting for the right all-in-one audio toolbox to come along, the Waves Gold Bundle is simply everything you need, with several daily tools, sweetening and mastering processors, and sound design mindbenders. A near-flawless, must-have plug-in suite, Waves Gold includes a total of 19 plug-ins — enough tools to round out any plug-ins menu — or replace it all together. From the original Q10 and L1 to the Renaissance series, over 300 setups and processors provide exacting control of the highest-resolution tools, for musicians, mastering, remix, restoration, multimedia, film, web, games, everything audio. In fact, the Gold Bundle can handle hundreds of jobs—yet the whole collection falls into tight formation, thanks to its consistent interface design and expansive compatibility.

#### Gold Bundle (Native or TDM) Includes –

L1 Ultramaximizer	S1 Renaissance Axx	C1 Renaissance Compressor	DeEsser	Doubler
UltraPitch	Renaissance Equalizer	PS22**	Paz Psychoacoustic Analyzer	Doppler
MaxxBass	Renaissance Reverb	MetaFlanger	Enigma	Q10 Paragraphic Equalizer
TrueVerb		MondoMod	SuperTap	AudioTrack
			IR-L*	Waves Tune LT*

\*Native Only \*\*TDM Only



## C4

### Multiband Parametric Processor

The C4 Multiband Parametric Processor harnesses the compression design from the award-winning Renaissance Compressor including the ARC Electro and Opto bands. Key features of the C4 include transparent cross-over design with global adjustable Q; true parametric control including independent threshold, range, gain, attack, release and bandwidth per band; flexible design allows compression; expansion or EQ independent of the functions of the other bands; adjustable global knee control; bit precision dithered to a 24 bit output.

## UltraPitch

UltraPitch provides up to 6 voices of formant corrected pitch shifting each with independent level, pan and delay control for each voice. It allows you to raise or lower the pitch, of each voice, up or down one octave by semitone or with 5 cent resolution. Variable formant-corrected pitch shifting prevents chipmunk effects and is excellent for gender bending. With fast pitch detection and completely variable stereo panning and rotation for each output, UltraPitch can create huge and thick stereo chorusing, doubling, parallel harmonies, slapback effects and more. Includes three separate component plug-ins; single voice, 3-voice harmony maker and 6-voice harmony maker, that can be used in either mono or stereo.



## AudioTrack Channel Insert

AudioTrack is a channel insert with 4-band, fully parametric EQ, compressor, and gate, all in one space-saving window, 88.2/96kHz-ready for many native platforms. Unbelievably efficient on any system, with undeniable quality, it is ideal for multimedia producers, voiceover, project studios, and more. The EQ is a true fully parametric 4-band EQ, with bell, shelf, and highpass/lowpass filters, all taken from Wave's Q10 design. The compressor includes expander ratios, plus a "one-hand" Autogain feature. The noise-gate removes background noise from voiceovers and more.

## Gold Bundle Native or TDM

### MaxxBass



MaxxBass provides a virtual subwoofer by extending the perceived bass response on any speakers. Whether for mastering enhancements or site-specific mixing, your ears will perceive an amazing low end. Using patented technology, MaxxBass takes your bass to the maximum by adding a series of harmonics to the signal. These harmonics stimulate a psychoacoustic bass-enhancing effect – a phenomenon that small speakers rely on to play audible bass. MaxxBass simply maximizes this known acoustical phenomenon. Thus bass frequencies are greatly enhanced without traditional EQ or bass compression. Taken to the extreme, you can actually remove the original bass signal completely and the ear will still “capture” the fundamental from the added harmonics. Employing dynamic graphics and a simple user interface, MaxxBass allows you to creatively add specific harmonics to bass signals.

### MondoMod

MondoMod combines an AM (Amplitude Modulation) section, FM (Frequency Modulation) section, and a Rotation Section into a single plug-in, with a built-in tempo syncable LFO and the ability to modulate from a sidechain source. It is able to create bizarre and unexpected effects, both destructive and subtle. The AM section features a depth and phase controls for creating tremolo effects. The FM section uses Dpeth and Phase controls for creating vibrato effects. The Rotator offers a range and center offset controls for creating panning effects. The rate of change for all three effects are controlled by an LFO (Low Frequency Oscillator) with 5 different waveforms and a variable tempo adjustable by Hz (frequency) and BPM (Beats per Minute). Simple On/Off buttons allow you to use the three effects together or individually. The output stage offers variable gain and wet / dry mix capability.



### Enigma

Enigma uses a unique combination of filters, short delay feedback loops, reverb, LFO modulation, and more to create radical, never-before-heard sonic textures. Three processing blocks Notch, Modulator and Feedback, plus a global mix section, combine to create totally unique effects for vocal and instrumental leads, re-mixing/re-processing, sound design, subtle ghosting of effects, treatment of reverb sends, and more. The Notch Section is the “enigma processor”. It offers from one to six pairs of filter notches, polarity reverse, along with depth and stereo width controls. A graphic display allows you to the low and high frequency parameters, while the Modulator Section offers an multi waveform LFO with switchable tempo sync. The switchable Feedback Section provides 10ms to 5000ms of decay, polarity revers and up to 200ms delay. Finally, the Global Section offers Gain, Mix, Wet and PreDelay controls.

### Doppler

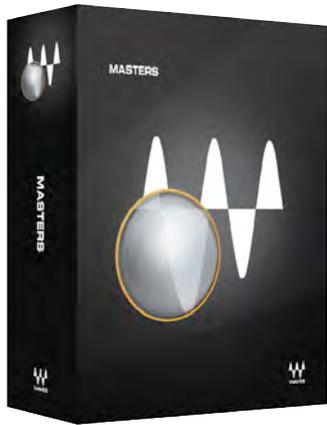
Doppler is the effect heard when a sound source, such as a car or train, passes by, and the pitch changes. Pitch sounds higher as the sound approaches, and sounds lower as it goes away. Easy to operate, Waves’ Doppler processor lets you create realistic and unusual Doppler effects with full control over pitch, path curve and high frequency damping, gain, reverb and start/stop points. Waves’ Doppler is based “on reality”—some controls behave according to the laws of physics (air damping, gain hanging with distance). However you can set the values of Doppler to work well outside those laws; it is said there is reality, and there is “Hollywood”, when it comes to effects and the appropriate perception of them. Sometimes what an audience would expect is not based on the laws of physics at all!



**Gold Native Bundle** (Mfr # GNB • B&H # WAGNB) .....CALL    **Gold TDM Bundle** (Mfr # GTDM • B&H # WAGTDMB) .....CALL

**Gold Bundle Upgrades** for owners of 3.x TDM /TDM II, Pro FX Bundle or Gold Native Bundle (Mfr # GBUP • B&H # WAGTDMBU); for owners of Musicians Native (Mfr # MUNGUP • B&H # WAMUNGBUP); for owners of Digidesign’s 002 Free Renaissance Collection (Mfr # GNU002 • B&H # WAGNU002); for owners of Renaissance Native Pack (Mfr # GNBUP1 • B&H # WAGNBUP1); for owners of Native Power Pack, Native Pro FX Bundle (Mfr # GNBUP • B&H # WAGNB) .....CALL

## Masters Bundle Native or TDM



### Precision Mastering Tools

Setting the standard for mastering applications with higher sonic capability plus a greater degree of functionality, the Masters bundle includes the award-winning L2 Ultramaximizer as well as innovative linear phase equalization and multiband processing which result in absolutely no phase distortion created by previous software and hardware tools. The sound is more transparent with better musical balance. Audio mastering professionals are continually looking for methods to deliver more pristine audio quality in their recordings. In direct response to their demands to eliminate phase distortions from their work, Waves has developed the Linear Phase Equalizer and Linear Phase Multiband. The Linear Phase Equalizer utilizes an innovative FIR (Finite Impulse Response) filter implementation that introduces no phase distortions. This innovative design also overcomes the variable latency of traditional IIR (Infinite Impulse Response) filter implementation that add phase distortions, while offering a user-friendly tool with a user interface similar to Waves popular Renaissance Equalizer. The Linear Phase Multiband supports independent gain and dynamics (compression, EQ, and limiting) on five user defined frequency ranges, while adding linear phase crossovers. The Linear Phase Multiband extends Waves award-winning C4 Multiband Parametric Processor to an even higher quality standard for purist mastering on full range mixes. In addition, Waves award winning limiter, the

L2 Ultramaximizer is included in the Masters bundle. The L2 adds ARC (Automatic Release Control) to provide extra gain during mixing.

- ◆ Up to 24bit 96kHz resolution (TDM 24/96 Accel mono only)
- ◆ Mono and Stereo components
- ◆ PC and Mac compatible
- ◆ Supports TDM, RTAS, Audio Suite, VST, AU
- ◆ Double precision bit resolution processing

### Linear Phase Equalizer

Innovative phase linear filters eliminate your phase distortions to provide you more transparent sound that better preserves the musical balance. Linear Phase EQ includes a broadband component with 5 general bands and one LF band and a more surgical LF component. Uses the familiar Q10 and Renaissance EQ type interface. Hear what you have been missing.

- ◆ 2 Plug-in Components: Lowband component and Broadband component
- ◆ Nine linear phase filter types
- ◆ Five bands of parabolic equalization, plus dedicated low frequency band
- ◆  $\pm 30$  dB per band gain change range



### L2 Ultramaximizer

The L2 is the next step in peak limiting with ARC (Automatic Gain Control) to add the extra gain you need to master your projects. IDR and ninth order filters maintain the highest quality. Designed exclusively for mastering.

- ◆ Manual and ARC Automatic Release Control
- ◆ IDR Increased Digital Resolution with double precision bit re-quantization and dither with 9th-order noise shaping filter



### Linear Phase Multiband

Linear Phase Multiband supports independent gain and dynamics (compression, EQ and limiting) on five bands with linear phase crossovers. It includes Adaptive Thresholds, Automatic Makeup and Gain Trimm It uses the familiar C4 type interface and is ideal for purist mastering on full range mixes.

- ◆ 5 discrete bands
- ◆ ARC Automatic Release Control

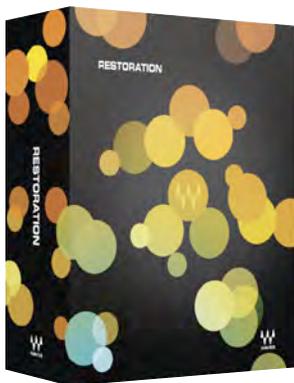


**Masters TDM Bundle** (Mfr # MATDM • B&H # WAMTDMB) .....CALL  
**Masters Native Bundle** (Mfr # MANA • B&H # WAMNB) .....CALL

**Masters TDM Bundle Upgrade for Owners of L2 Plug-In for Mac**  
 (Mfr # LUMAT • B&H # WAL2UM) .....CALL

## Restoration Bundle Native or TDM

### Audio Restoration and Noise Reduction



Removal of unwanted background noise and disturbing signal transients without affecting the original sound has always been a major challenge in audio postproduction, remastering, broadcasting, video, film and forensics. Waves' Restoration bundle has addressed the increasing demand for real-time noise and transient elimination tools. It establishes a new standard for quality and simplicity in software based noise reduction and sound restoration tools for post-production, remastering, and forensics applications. Fast and incredibly simple to use, it provides feedback through audio output, audio difference and intuitive graphics. Quality is comparable to reference hardware costing up to 10 times more.

The Restoration bundle includes four plug-ins: X-Noise, X-Click, X-Crackle, and X-Hum. X-Noise intelligently learns from a section of noise, and then applies a broadband noise reduction to eliminate background noise from any source. X-Click effectively removes clicks from 78's or vinyl records, as well as spikes arising from digital switching or crosstalk. X-Crackle is the second stage in the restoration of old records eliminating crackles and surface noise left after the X-Click process. X-Hum attenuates steady pitched low frequency disturbances, such as ground loop hum and its harmonics. It is also intended to reduce rumbles, microphone pops, and DC-offset.

- ◆ Up to 24bit 96kHz resolution
- ◆ Mono and Stereo components
- ◆ Supports TDM, RTAS, Audio Suite, VST, AU
- ◆ PC and Mac compatible

#### X-Noise

A powerhouse for cleaning practically all types of noise, X-Noise intelligently learns from a section of noise, and then applies a broadband noise reduction to eliminate background noise from any source. Primary controls are similar to classic dynamic processors. Eliminates learning curve. Even stores noise profiles for future use.



- ◆ Real-time parameter control and monitoring
- ◆ Learn mode for Noise Profile creation
- ◆ Frequency-based spectral display
- ◆ Audio and Difference output monitoring

#### X-Crackle

X-Crackle is the second stage in record restoration eliminating crackles and surface noise from old vinyl or magnetic tapes. Simple and effective.



- ◆ Audio and Difference output monitoring
- ◆ Frequency-based Visual Scope display
- ◆ Real-time track insert capability
- ◆ Double precision bit resolution processing (Native)

#### X-Click

Offers high quality click removal. X-Click eliminates analog or digital clicks with the provided presets. Effectively remove clicks from 78's or vinyl records, as well as spikes arising from digital switching or crosstalk. Operates fully automated or manual click removal.



- ◆ Visual Scope displays intensity of clicks
- ◆ Audio and Difference monitoring
- ◆ Real-time track insert capability
- ◆ Double precision bit resolution processing (Native)

#### X-Hum

Perfect for high quality hum removal. Eight harmonically linked notch filters attenuate ground loop hum by up to -60dB with very narrow Q. Removes 60 Hz power in a snap. High pass filter options remove rumble, mic pop and DC-offset.



- ◆ 8 Harmonic Notch Filters
- ◆ Hi-Frequency and Amplitude attenuation display
- ◆ Frequency and Amplitude attenuation display
- ◆ Audio and Inverse monitoring

**Waves Restoration (Native)** (Mfr # RST • B&H # WARB) .....639.95

**Waves Restoration (TDM)** (Mfr # RSTDM • B&H # WARSTDM).....CALL

## Broadcast & Production Bundle Native or TDM

Complete production solution for all your audio signal processing needs



Featuring Waves critically acclaimed Renaissance Maxx, Masters, and Restoration processors, this bundle includes limiters, compressors, EQ's, filters, noise removal, reverb, bass enhancement, de-essing & voice processing. You will be able to clean up audio, get killer voice overs, easily create both common and signature audio effects, fatten the sound, have the best level control available, and create superior feeds & mixes. These are the world-class standard processors used in Hollywood and in audio and music production the world over.

### Broadcast & Production Bundle (Native or TDM) includes:

#### Renaissance Maxx—

Renaissance EQ, Renaissance Compressor, Renaissance Reverberator, Renaissance Bass, Renaissance VOX, Renaissance De-Esser, and Renaissance Channel

#### Restoration —

X-Noise, X-Click, X-Hum, and X-Crackle

#### Masters Bundle—

L2 Ultramaximizer, Linear Phase EQ, Linear Phase Multiband

#### Broadcast and Production TDM Bundle

(Mfr # BPTDM • B&H # WABPTDM) .....CALL

#### Broadcast and Production Native Bundle

(Mfr # BPNA • B&H # WABPNA) .....CALL

#### Broadcast and Production TDM Bundle Upgrade for Owners of

Restoration TDM Bundle (Mfr # TBUR • B&H # WATBUR) .....CALL

#### Broadcast and Production TDM Bundle Upgrade for Owners of

Masters TDM Bundle (Mfr # TBUM • B&H # WATBUM) .....CALL

#### Broadcast and Production TDM Bundle Upgrade for Owners of

Renaissance Maxx TDM Bundle (Mfr # TBUX • B&H # WATBUX) .....CALL

#### Broadcast and Production Native Bundle Upgrade for Owners of

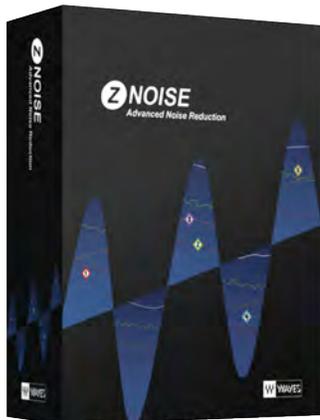
Renaissance Maxx Native Bundle (Mfr # NBUX • B&H # WANBUX) .....CALL

#### Broadcast and Production Native Bundle Upgrade for Owners of

Restoration Native Bundle (Mfr # NBUR • B&H # WANBUR) .....CALL

#### Broadcast and Production Native Bundle Upgrade for Owners of

Masters Native Bundle (Mfr # NBUM • B&H # WANBUM) .....CALL



## Z-Noise Native or TDM

Z-Noise is a noise reduction processor uses a revolutionary algorithm that is more advanced, more accurate, and better sounding. Z-Noise's breakthrough features include dynamic noise profiling, innovative transient preservation and increased low frequency resolution. Z-Noise employs a "musical" algorithm, which delivers unparalleled low-frequency resolution and unsurpassed time sensitivity, without causing the audio smearing artifacts of lesser products. Z-Noise is ideal for removing tape hiss, ground hum and computer noise, and includes an array of features that make it Waves' most comprehensive noise reduction tool ever. It gives you the power to shape their results with pinpoint accuracy, using a familiar 5-band EQ interface. Real-time operation means that you can fine tune the Z-Noise parameters and hear their changes on the fly.



Plus, it features advanced adjustable transient detection and enhancement which removes noise

while retaining all the power and punch of the source recordings. Additionally, Z-Noise features an exclusive Extract mode which eliminates the need for pre-analysis of the noise file, as well as an innovative Adaptive mode which specializes in reducing noise that changes over time.

- ◆ 5-Band Noise Profile EQ
- ◆ Enhanced low-frequency resolution and time sensitivity
- ◆ Monitor the entire output or just the noise

- ◆ Exclusive Extract mode creates noise profile from sources containing signal and noise
- ◆ Adaptive dynamic detection for noise that changes over time

- ◆ Up to 24bit 96kHz resolution
- ◆ Mono and Stereo components
- ◆ Supports RTAS, Audio Suite, VST, AU
- ◆ PC and Mac compatible

**Z-Noise** (Mfr # ZNONA • B&H # WAZNONA) .....CALL

**Z-Noise Upgrade** - for Owners of Restoration, Broadcast and Production or Diamond Native Bundles (Mfr # ZNOUP • B&H # WAZNOUP) .....CALL



## The V-Series Bundle Native or TDM



With the V-Series plug-ins Waves has taken another step forward by modeling three classic British analog audio components in painstaking detail. The V-Series consists of the V-COMP Compressor/Limiter, the V-EQ4 4-Band Equalizer and the V-EQ3 3-Band EQ. The original modules, which date from the early 1970s, possess qualities and subtleties that have never been more accurately modeled. Extensive measurement and listening tests confirm that the V-Series plug-ins successfully emulate the originals in every detail. The V-COMP is a classic British-design feedback-based stereo compressor/limiter design with de-esser. The equalizers feature a silky-smooth and crystal-clear HF sound even at high levels of boost, and round, fat low end, while the mids can be used to add presence and fine-tune without harshness.

**V-Comp:** With its fixed nominal output gain and time constants, the V-Comp recreates the incomparable sound of the vintage 2254 hardware compressor. This super-responsive dynamics processor packs a recognizable musical punch heard on countless hit records.

### Global Controls

- ◆ Input and Output controls with  $\pm 12$ dB gain range each
- ◆ Analog-style Meter display switchable between Input; Output or Gain Reduction
- ◆ The analog switch controls the amount of analogue modeling.

### Compressor

- ◆ Compressor on / off switch, De-Esser switch turns the compressor into a de-esser.
- ◆ The Ratio control with 5 settings: 1.5:1, 2:1, 3:1, 4:1, 6:1
- ◆ Release control with 4 settings: 400ms, 800ms, 1.5s, Auto.

### Limiter

- ◆ Limiter on / off switch
- ◆ The Threshold is adjustable from +4 dBu to +12 dBu
- ◆ Attack is switchable between Fast (1  $\mu$ second) and Slow (1 ms)
- ◆ Release control with 4 settings: 100 ms, 200 ms, 800 ms, Auto



**V-EQ3:** Bringing together the best of two world-renowned console modules, the 1073 and 1066, this 3-Band EQ, with classic cutoff points and an adjustable High Pass Filter, is ideal for mastering and mixing. When you need the unique sound signature of an analog legend, the V-EQ3 delivers.

- ◆ High Pass Filter gain and cutoff. Gain: up to -18 dB/octave. 7 cutoff points (Hz): 45, 50, 70, 80, 160, 300, 360
- ◆ Equalizer on/off, Phase Reverse, and Analog modeling on/off switches
- ◆ The LF features a variable gain of  $\pm 18$  dB and 5 cutoff points: 35, 60, 100, 110, 220, and a slope of  $\pm 18$  dB per octave (Hz).
- ◆ HF features a variable gain of  $\pm 18$  dB at 10 kHz or 12 kHz.
- ◆ The MF features a variable gain of  $\pm 18$  dB and 9 cutoff points 0.36, 0.70, 1.2, 1.6, 3.2, 3.8, 4.8, 7.0, 7.2 kHz
- ◆ Output control with a  $\pm 18$ dB gain range.
- ◆ Resettable analog-style meter.

**V-EQ4:** Modeled on the highly sought-after 1081 console module, this classic 4-band equalizer features detailed high frequency boosts plus High Pass and Low Pass Filters. For the classic sound of analog with the limitless flexibility and versatility of digital, the V-EQ4 is unsurpassed.



- ◆ Equalizer on/off, Phase Reverse, and Analog modeling on/off switches
- ◆ Output control with a  $\pm 18$ dB gain range. Resettable analog-style meter
- ◆ Selectable Lowpass or Highpass filter, each with five cutoff points: 27, 47, 82, 150, 270. 5 Hz (HP); 15, 12, 8.7, 5.6, 3.9 kHz (LP)
- ◆ LF - with variable gain range of  $\pm 18$  dB, 5 cutoff points 33, 56, 100, 180, 300 Hz and a slope  $\pm 18$  dB per octave
- ◆ LMF - features a variable gain range of  $\pm 18$  dB and ten cutoff points: 220, 270, 330, 390, 470, 560, 680, 820, 1000, 1200 (Hz).
- ◆ HMF features a variable gain range of  $\pm 18$  dB and 9 cutoff points: 1.5, 1.8, 2.2, 2.7, 3.3, 3.9, 4.7, 5.6, 8.2 (kHz)
- ◆ HF features a variable gain  $\pm 18$  dB and 5 cutoff points: 3.3, 4.7, 6.8, 10, 15 (kHz)
- ◆ Shelf / Bell switches set the LF and HF curve shapes. HiQ switches set the LMF or HMF bell curves to a higher Q ( $\pm 18$ dB)

**V-Series Native Bundle** (Mfr # VTGNA • B&H # WAVSNB) .....CALL      **V-Series TDM Bundle** (Mfr # VTGDM • B&H # WAVSTDMB) .....CALL

## SSL 4000 Collection



### Native or TDM

Developed under license from Solid State Logic, The Waves SSL 4000 Collection includes three meticulously modeled plug-ins based on the legendary SSL 4000 Series: the SSL E-Channel, the SSL G-Master Buss Compressor, and the SSL G-Equalizer. Waves engineers spent more than a year analyzing and modeling the distinctive sonic characteristics of SL 4000 factory reference consoles and components provided by Solid State Logic. These plug-ins sound so close to the original consoles, even experts who work with SSL boards day in and day out can't tell the difference.

#### G-Equalizer

The SSL G-Equalizer is modeled on the SSL G Series EQ292, the engineer's

choice for creative sound shaping. This four-band equalizer offers greater gain change than the E-Series EQ, and a slightly different curve. The SSL G-Equalizer delivers the original's pre-boost dip and pre-cut rise which contribute to its characteristic sonic signature, in addition to a broad Q for extreme equalization.



- ◆ **High Pass Filter** 18dB/octave, 16Hz – 350Hz. Filter on/off switch.
- ◆ The four EQ sections are comprised of **High** and **Low Shelving** bands with  $\pm 17$ dB boost/cut and frequency ranges of 30Hz – 450Hz (Low) and 1.5kHz – 16kHz (high); and **High** and **Low Medium Frequency** bands, with variable Q, and boost and cut ranges from  $\pm 15$ dB to  $\pm 20$ dB, depending on the Q settings.
- ◆ Other controls include the **EQ In** bypass switch, Phase Reverse, -24 / +12 dB Master Output, and a Trim button that indicates the amount of headroom before digital clipping.



**E-Channel:** The SSL E-Channel consists of two sections that deliver the characteristic sound of the original. The equalization section is based on the renowned Black Knob equalizer, developed in 1983 by SSL in association with legendary producer George Martin. It features a steeper high pass filter for tighter low frequency control and enhanced cut and boost ranges, with a smoother EQ curve and flexible routing. The dynamics section features a soft-knee compressor/limiter and an expander/gate modeled on the SSL LS611E. Like its hardware counterpart, it includes a soft-knee compressor/limiter and powerful expander/gate, as well as automatic makeup gain for steady output levels.

The **Equalization** section features **Low** and **High Pass Filters** with 18dB/octave slopes. The **High (HF)** and **Low (LF)** bands are each switchable between shelf ( $\pm 16.5$ dB) or bell shape ( $\pm 18$ dB) with a fixed Q of 2.5. Range is from 1.5 to 16 kHz and 30 to 400 Hz respectively. The **High** and **Low Mid** each have an adjustable Q from 0.1 to 3.5. Gain varies from  $\pm 15$ dB when Q is set to 0.1 to  $\pm 18$ dB when Q is set to 3.5. Range is from 600Hz to 7kHz and 200Hz to 2.5kHz respectively.

#### G-Master Buss Compressor

The Waves SSL G-Master Buss Compressor captures the unique sound of the SL 4000 G console's renowned master buss center compressor, including its IC input and twin VCA gain-reduction amplifier design. This compressor has long been prized by top engineers for its ability to "glue together" tracks, and is considered by many to be the ultimate finalizer that transforms a mix into a finished record. It's also ideal for taming piano dynamics or adding punch to drums and percussion.



- ◆ Continuously variable **Threshold** ( $\pm 15$ dB), and **Make Up Gain** (-5dB to +15dB).
- ◆ Six switchable **Attack** rates (0.1; 0.3; 1; 3; 10 and 30 ms), and switchable **Ratio** between 2:1, 4:1 and 10:1.
- ◆ **Release** time is switchable between 0.1, 0.3, 0.6 and 1.2 seconds or to automatic.
- ◆ The **Analog** switch disables analog emulation; **In** serves as a bypass button; and **Rate-S** sets the Autofade duration, from 1 to 60 secs.

Waves SSL 4000 Collection (Native) (Mfr# SSLNAT • B&H# WASSLNB).....589.00

Waves SSL 4000 Collection (TDM) (Mfr# SSLTDM • B&H# WASSLTD).....CALL

## THE API COLLECTION Native or TDM



Developed in association with API (Automated Processes Incorporated), The API Collection is a line of modeled plug-ins which deliver the sound of classic consoles and components. Following in the footsteps of the phenomenally successful Waves SSL 4000 Collection and the V-Series, The API Collection is a remarkable set of precision-engineered plug-ins that capture every nuance of the original analog gear. The API Collection features four processors, painstakingly modeled on the most renowned and popular API modules: the 550A 3-band equalizer, 550B 4-band EQ, the 560 graphic equalizer and the 2500 stereo compressor. API modules are known the world over for their unique sonic signatures. These processors were meticulously captured and recreated by the Waves engineering team, and they are the only plug-ins that truly recreate the actual sound of API modules, according to the creators of the original hardware. It is available separately and as part of Waves Mercury bundle.

### API 550A 3-band EQ

The 550A was developed in the late 1960s and has been a firm favorite ever since. It provides reciprocal, repeatable EQ at 15 points in five steps of up to 12 dB boost/cut divided into 3 overlapping ranges (five frequency centers per band). HF and LF can be set to either peaking or shelving and there is an additional bandpass filter that can be adjusted independently of the main EQ. "Proportional Q" narrows the Q at extreme settings. The unit has exceptional headroom with a +30 dB clip level.



### API 550B 3-band EQ

The 550B is an equalizer with four overlapping bands and seven switchable filter frequencies spanning up to five octaves per band, with up to 12 dB boost/cut. "Proportional Q" narrows the bandwidth at extreme settings and widens it a minimal settings. The 550B allows the undoing, affecting, or even reversing of previous modifications. It's a versatile EQ for all kinds of processing requirements.



### API 560 10-band Graphic EQ

The 560, based on the API classic from 1967, is a 10-band octave-based graphic equalizer with 12 dB boost/cut per band. Its precision filtering and high headroom (+28 dB) make it ideal for signal enhancement and room tuning. It also features "Proportional Q" along with an unmatched curve shaping ability. Boost and cut capabilities are identical, making undo easy.



**Waves API Collection TDM** (Mfr # APITDM • B&H # WAAPITDMB) .....CALL  
**Waves API Collection Native** (Mfr # APINA • B&H # WAAPIN) .....CALL

### API 2500 Stereo Compressor

The API 2500 stereo compressor is a versatile processor that has become a studio standard for shaping the punch and tone of a mix with unparalleled finesse. Use it either in stereo or as two independent mono channels for maximum flexibility. The 2500 includes auto gain make-up allowing changes in threshold and ratio to be made without affecting the overall output level. It features both feedback and feedforward compression and an incredibly musical sound that has made it a favorite for many years. The unit includes a switchable 3-position Thrust HPF, three Variable Link filter types, soft/medium/hard knee, and six release settings including one continuous.



## Studio Classics Collection SSL • V-Series • API



When it comes to audio hardware modeling, Waves sets the standard to which others aspire. Waves plug-ins don't just mimic components and circuit schematics; they recreate every last nuance of actual hardware behavior. Now, Waves has captured the most respected recording consoles in the world. The consoles that made music history.

### Includes

- |  |                                |                   |
|--|--------------------------------|-------------------|
| <b>Studio Classics Collection (Native)</b> (Mfr # SCCNA • B&H # WASCCNA)..... <b>1785.00</b> | ◆ API 550A                     | ◆ API 550B        |
|  | ◆ API 560                      | ◆ API 2500        |
|  | ◆ V-EQ3                        | ◆ V-EQ4           |
| <b>Studio Classics Collection (TDM)</b> (Mfr # SCTTDM • B&H # WASCTDM)..... <b>3570.00</b>   | ◆ V-Comp                       | ◆ SSL G-Equalizer |
|  | ◆ SSL G-Master Buss Compressor |                   |
|  | ◆ SSL E-Channel                |                   |

## Vocal Bundle



### Native or TDM

The Waves Vocal Bundle is a comprehensive vocal toolkit made up of three Waves classics and two brand new processors destined to become industry standards: Waves Tune, which delivers a new level of sound quality and ease in pitch correction and melody transformation; and DeBreath, a Waves exclusive which removes unwanted breath sounds automatically. In addition, Waves Vocal Bundle features Renaissance Channel, the acclaimed virtual channel strip that gives you EQ, compression, gating and limiting in one convenient plug-in; Renaissance DeEsser, perfect for removing excess sibilance; and Doubler, for superior double-tracked effects.

### Tune

Waves Tune performs pitch correction of vocals and other instruments with a new level of transparency. In addition, Waves Tune allows you to change individual notes or entire melodies as easily as manipulating MIDI notes, while Waves Tune's formant correction provides completely natural-sounding results. Waves Tune features a familiar "piano-roll" interface which displays the original pitch, the corrected pitch and individual notes, offering intuitive and flexible operation.

- ◆ Work in perfect sync with your host and do all your editing from within the Waves Tune interface without being bound to a specific section of your track.
- ◆ ReWire lets you listen to your edits in real-time, together with the rest of your tracks, starting playback from any timeline position.
- ◆ Formant corrected pitch processing results in natural sound, with an astonishing new level of transparency and no audible phase shift.
- ◆ Waves Tune features powerful yet extremely easy-to-use editing tools and a totally intuitive piano-roll screen.
- ◆ The large, user-friendly display is easy to use and navigate and the superior Zoom Tool lets you know exactly where you are at all times.
- ◆ Tweak Natural Vibrato for maximum realism or fine tune Synth Vibrato to transform your sound.
- ◆ All edits are non-destructive and saved with your session.



- ◆ Export MIDI files to double your vocal parts using your favorite synth or sampler, or to create note-for-note transcriptions.
- ◆ Choose from dozens of standard and exotic scales, or set and save custom scales with amazing flexibility.
- ◆ Waves Tune is completely compatible with multiple hosts, so you don't need more than one version.

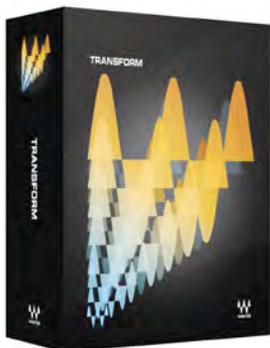


### DeBreath

DeBreath is a revolutionary plug-in that automatically reduces or removes breath sounds on vocal tracks. DeBreath employs a unique template-matching algorithm that detects breath segments and separates them from the main vocal, so breath sounds can be reduced or eliminated without affecting the rest of the signal. The sound of a vocalist breathing is inevitably picked up during recording, and DeBreath lets you not only eliminate those breaths, but also lets you turn them in your favor, using them for new creative effects. Because DeBreath can be used to separate a vocal track into two elements, one containing only voice and the other only breaths, each can be processed differently, for the emotional effects of breathing to be enhanced with additional processing if desired. In addition to cleaning up singers' tracks, DeBreath is also an effective time-saving tool for engineers working with voice-over and spoken-word recordings.

**Vocal Bundle** - Native Vocal Toolkit (Mfr # VOCNA • B&H # WAVNB) ..... **CALL**  
**Vocal Native Bundle Upgrade** for Owners of Tune-LT (Mfr # VBUP • B&H # WAVBUP) ..... **CALL**  
**Vocal Native Bundle Upgrade** for Owners of Tune (Mfr # VBUP • B&H # WAVBUP) ..... **CALL**

## Transform Bundle



### Native or TDM

The Transform Bundle is a powerful collection of novel and exciting new sound transformation tools. The four plug-ins that comprise the package are Sound Shifter, Doubler, TransX, and Morphoder, supporting sample rates up to 96 kHz. All of the Transform Bundle processors include comprehensive, intuitive graphic-based displays and superbly-crafted virtual control surfaces that make experimentation fast and fun while allowing rapid access to frequently-used effects from the user's own palette of sounds and presets.

**Bundle Includes:** TransX — Transient Shaper, SoundShifter, Morphoder, Doubler, Renaissance Axx

### SoundShifter

Sound Shifter allows shaping of time and pitch with the ability to pitch shift over an octave with a time ratio of 50-200%, enabling you to fit music to any duration while maintaining fidelity, punch, groove, and transients without smearing. An extensive preset library provides presets for most common (like NTSC/PAL conversions) and some unusual time- and pitch-related applications.



- ◆ 3 Components: Parametric, Graphic, and Real-time
- ◆ Punchy, smooth, transient, and sync modes
- ◆ Multiple link, display, and control options
- ◆ Time, Tempo, Bars, Samples, SMPTE, Feet & Frames, Pitch, Interval, and Frequency controls support Pro Tools TCE
- ◆ Up to 24bit 96 kHz resolution

### Doubler

The Doubler adds dimension and fattens up tracks with double-tracking, exciter-style, and harmonization-type effects. Two- and four-voice doubling are provided with 100 cent detune range plus one octave downshift, and up to 200 cents of pitch modulation, providing a vast range of effects with maximum control including independent gain, pan, delay, feedback, detune, and modulation settings for each voice.



- ◆ 2 Plug-in Components: Two-Voice and Four-Voice.
- ◆ Up to 24bit 192kHz resolution (TDM 24/96 2-Voice M and M-to-S only).
- ◆ Mono, Mono-to-Stereo and Stereo components.

**Transform Native Plug-In Bundle** (Mfr # TRNA • B&H # WATRNA) .....CALL  
**Transform Native Plug-In Bundle Upgrade** for Owners of Soundshifter Native Plug-In (Mfr # TRANA • B&H # WATRANA) .....CALL

### Trans-X

TransX is the cutting-edge tool for shaping attacks and transients, controlling and shaping dynamics for the punch you need to get your sound across — without the artifacts or cliché “over-squashed” sound. TransX includes wideband and multiband transient contour shaping, automatic transient detection, and control over transient sensitivity, balance, release, and threshold. The result is unparalleled control of dynamics at a level impossible to experience with regular compressors. Users will achieve a better mix without sacrificing dynamics and add life, bite, and punch to a track without surrendering balance.



- ◆ 2 Components: Trans-X Multi (4-Band) and Trans-X Wide (Wide Band).
- ◆ Adds punch, softens edges, highlights sustain.
- ◆ Multi features individual Range and Sensitivity for each band.

### Morphoder

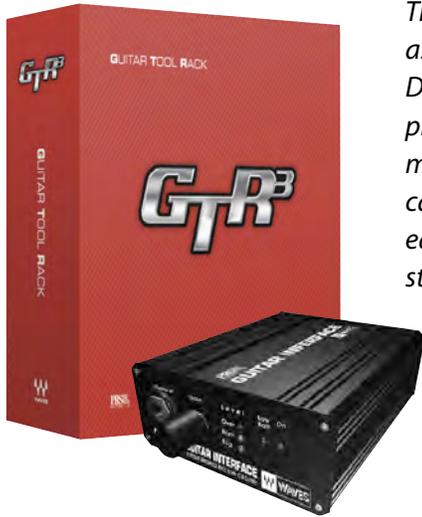
The Morphoder takes the concept of the vocoder and expands the possibilities. It will create the classic voice effects of traditional vocoders, generate modern electronic rhythm tracks, and more. Offering clean and crisp vocoding, the Morphoder adds unique features such as formant shifting and compressor-enhanced filter release dynamics, among others. It's incredibly fun to use and experiment with, generating unique and innumerable new effects.



- ◆ 8-Voice stereo synthesizer
- ◆ Modulator with Linear Phase EQ
- ◆ Formant control
- ◆ MIDI control

**Transform TDM Plug-In Bundle** (Mfr # TRTDM • B&H # WATRDM) .....CALL  
**Transform TDM Plug-In Bundle Upgrade** for Owners of Soundshifter Native Plug-In (Mfr # TRATD • B&H # WATRATD) .....CALL

## GTR 3.0 Native or TDM



The GTR3 is a virtual guitar amplifier and effects processor, designed by Waves in association with Paul Reed Smith, that can run as a standalone application or as a DAW plug-in. Each amp and effect plug-in was meticulously engineered to meet the professional needs of engineers, producers, and session guitarists. GTR3 includes 26 models of the world's finest classic and contemporary amplifiers, and a choice of 22 cabinets. You can run signal through two different amp and cabinet combinations, each with its own microphone type and placement. On the effects side, there are 26 stomp box effects from Delay, Distortion, and Doubler to Phaser, Flanger, Fuzz, Compression, EQ, Filters and more. Effects are plugged into a virtual pedalboard that can hold up to six Stomps, and the signal path can be rearranged by simply dragging the effects into the right order. The Stomps and pedalboard can be fully automated via either DAW automation or MIDI. GTR3 includes three onboard tuner variations — standard, chromatic, and alternate, that provide the user total instrument tuning accuracy. Included with GTR3 is the Waves/GTR Guitar Interface hardware that delivers for optimal impedance-matching, transparency and dynamic range.



19 Guitar Amps • 7 Bass Amps • 16 Guitar Cabinets • 6 Bass Cabinets  
Multiple Mics and Mic Settings

- ◆ Waves developed sampling technology captures the unique sonic characteristics of the world's finest guitar amps, cabinets, microphone placements and effects, with realistic dynamic response.
- ◆ The 19 guitar amps cover three categories, Clean, Drive and Hi Gain, based on legendary Marshall, Fender, and Vox models to name a few, along with many sought after boutique models.
- ◆ The 7 bass amps cover DI's to renowned amps from Ampeg, Hartke and others.
- ◆ The cabinet sounds were taken from vintage speaker boxes recorded with classic microphones using the placement of engineers known for their superior guitar tracks.
- ◆ A new level of accuracy was achieved by using advanced capturing techniques originally developed for Waves' award-winning IR-1 Reverb.



26 Stomps with Sync-to-Host BPM Effects

## Expert Presets and FX Chains

- ◆ The PedalBoard is offered in Mono, Mono to Stereo and Stereo channel configurations.
- ◆ Drag-and-Drop Stomps directly to the pedalBoard.
- ◆ Effects are syncable to your host, where applicable
- ◆ The PedalBoard and Stomps are fully automatable, letting you create dramatic effects that change over time.
- ◆ You can also use an outboard MIDI controller such as an expression pedal for real time control of any Stomp parameter.
- ◆ The Tuner can be set to Chromatic or Alternate tunings. A lit arrow lets you know which way to tune, while a highlighted note tells you which note you're tuning to. The tuning reference can be adjusted plus or minus 6 Hertz from 440.



26 Stomps

## Custom Hardware Interface

- ◆ Extremely transparent preamplifier circuitry allows levels to be matched to a wide range of inputs, and pickups, from high output humbuckers to low output single coils.
- ◆ Studio-grade jacks and superior wiring maintains tone where it counts.
- ◆ Balanced XLR mic / 1/4" unbalanced line outputs.
- ◆ A 3-LED indicator shows signal present, nominal level when lit occasionally (showing that the best balance between level and S/N ratio is being delivered) and over.
- ◆ Standalone and DAW-Ready plug-in versions (TDM, RTAS, VST, AU)

GTR3 (Native) (Mfr # GTRNA • B&H # WAGTRNA) .....CALL  
GTR3 (TDM) (Mfr # GTRTDM • B&H # WAGTRTDM) .....CALL

GTR3 (NATIVE) w/o Hardware (Mfr # GTRSONA • B&H # WAGTRSONA) .....285.00  
GTR3 (TDM) w/o Hardware (Mfr # GTRSOTDM • B&H # WAGTRSOTDM) .....360.00

## IR-1 v2 • IR-360 Native



The IR Convolution Reverb plug-in series consists three products: the IR-1 version 2, IR-360 multi-channel surround sound reverb, and IR-L “Light” convolution reverb.

**IR-1 version 2** is a sampling reverb that offers traditional reverb controls that affect the impulse response sample itself rather than just filtering the resulting sound. This approach retains the sample's signature sound but allows much more flexible use than with conventional convolution reverbs.

The **IR-360** offers surround sound capabilities by adding extra modules to IR-1. It is the ideal reverb processor to use in sound for picture applications from music, to mixing and sound design.

The **IR-L** is an entry level plug-in included with the IR-1 and IR-360 packages, along with other Waves Bundles. Controls include Reverb Time with a ratio of 1:0.25; Convolution Start/Length controls; Direct in/out; Global pre-delay to all IR components; Latency display and Dry delay; Dry/wet control; Crosstalk; Output; and graphical display of IR properties.

### IR-1

The IR1 Version 2 offers options to shape the decay envelope, change the reverb density, analyze the frequency response and derive the room nodes, use de-correlation to optimize the stereophonic character of the reverb, and add gain and pre-delay to each portion of the reverb curve. Filtering techniques enable the damping to be precisely controlled, while a 4-band parametric EQ allows tone adjustment of the reverberation. Additional features include a Convolution Start Control that allows you to trim the beginning of a sample to eliminate unwanted pre-delay; an ER (Early Reflections) Buildup Control for adjusting the buildup slope of early reflections to control the attack sound of the transients; and a Dry Gain Mode that offers adjustment of the wet and dry signal gains separately.



IR-1

### IR-360

Surround configurations for IR-360 include mono and stereo to 5-channel Discrete Surround (doing 4 or 5 convolutions); mono to 5-channel Sound Field (3 convolutions); efficient stereo to 5-channel Sound Field (3 convolutions); and full stereo to 5-channel Sound Field (6 convolutions). In addition, two surround-to-surround options -- Sound Field Surround to Surround (6 convolutions) and Efficient Discrete Surround to Surround (4 convolutions) employ mixdown techniques to deliver the maximum practical benefit and efficiency. Both components offer 5 to 5 and 5.1 to 5.1 with LFE passed to the output without additional processing.



IR-360

### Additional Features

- ◆ Both the IR-360 and IR-1 Version 2 allow you to capture the sound of acoustic spaces and hardware devices by playing an included sweep signal into an acoustic space or through an outboard processor and recording the result. The software then allows you to import the recording to create a custom impulse response that's ready to use.
- ◆ The setting of each environmental parameter can generally be varied from 0.25 to 4 times its natural value. For example, the user can vary the RT60 (reverberation time) of an actual sampled space, and change the size of that space.
- ◆ Samples of actual environments in the preset library employ a unique combination of microphone array, including ORTF, and Soundfield microphones mounted on a computer-controlled turntable, for accuracy and realism.
- ◆ Venues include well-known spaces such as the Sydney Opera House, Rome's Santa Cecilia Concert Hall, Manhattan's Birdland jazz club, and many more.
- ◆ Each space was sampled from multiple locations, at 96 kHz and 32-bit floating point for maximum resolution, dynamic range, and SNR.

<b>IR1</b> Convolution Reverb Plug-In for Mac and Windows (Mfr # IR1NA • B&H # WAIR1CR) .....	<b>CALL</b>
<b>IR-360</b> Surround Convolution Reverb Plug-In (Mfr # IR360 • B&H # WAIR360) .....	<b>CALL</b>
<b>IR-360 Native Plug-in Upgrade</b> for Owners of IR-1 (Mfr # IR1NS • B&H # WAIR1NS) .....	<b>CALL</b>

## 360° Surround Tools Native or TDM



When sound engineers for major motion pictures need a comprehensive set of processors for mixing 5.1 Surround sound, they turn to Waves 360° Surround Tools. Conceived and created especially for Surround production, 360° Surround Tools includes compression, limiting, reverb, spatial enhancement, and much more. For the creation of sophisticated, accurate Surround mixes for today's multi-channel listening environments, absolutely nothing compares.

### Included 360° Surround Tools Plug-Ins

C360 – Surround Compressor	IDR360 – Surround Bit Re-Quantizer	M360 – Surround Manager
L360 – Surround Limiter	R360 – Surround Reverb	S360 – Surround Imager
LFE360 – Low Pass Filter	M360 – Surround Mixdown	S360 – Surround Panner

### M360° Surround Mixdown

The Waves M360° Surround Mixdown is a specialized audio plugin which derives Quad, LCR, Stereo and Mono mixes directly from a Surround mix. In addition, the M360° will output a stereo-compatible mix from the very same session. Part of the Waves 360° Surround Tools Bundle, the Waves M360° Surround Mixdown is essential to any comprehensive Surround mixing or mastering system.

- ◆ ITU standard Mixdown matrices.
- ◆ 10 Mixdown formats: No Mixdown, Mono (ITU), Stereo (ITU), Stereo (ITU-3dB surrounds), Stereo (Wide), LCR (ITU), LCR (ITU S-3dB), LCR (Wide), LCRS (ITU), LCRS (ITU S-3dB) and 5.0.
- ◆ 5.1/5.0 Surround Components.
- ◆ Supports TDM, RTAS, Audio Suite, VST up to 24-bit / 192kHz.
- ◆ Derives Quad, LCR, Stereo and Mono mixes from Surround.



### S360° Surround Imager

S360° Surround Imager enables precise manipulation of audio imaging and distance panning for Surround sound projects. It generates early reflections and uses shuffling to increase low frequency width, supporting sample rates of up to 192 kHz. With its incomparable spatial enhancement capabilities, the Waves S360° is an essential part of any 5.1 channel or Surround production.

- ◆ Pair-wise or Triple-wise Rotation calculation.
- ◆ Center image and LFE Send controls.
- ◆ Mono-to-Stereo, Stereo to Surround and Surround components.
- ◆ Supports TDM, RTAS, Audio Suite, VST.
- ◆ Up to 24bit 192kHz resolution Native.
- ◆ Up to 24bit 96kHz resolution TDM (5.1 to 5.1 24/48 only).

### C360° Surround Compressor

Introducing the Waves C360°, THE Surround Compressor for 5 or 5.1 channel productions. Waves is proud to bring its highly acclaimed audio compression technology to a plugin engineered especially for Surround sound. With its flexible channel coupling and grouping, the Waves C360° dynamics processor delivers state-of-the-art soft knee compression to any Surround mixing or mastering environment.

- ◆ Individual output ceiling limiter on each channel.
- ◆ 5 interchangeable Link modes.
- ◆ Threshold look-ahead with Negative attack time.
- ◆ ARC Auto Release Control.
- ◆ Auto-makeup peak reference compression.
- ◆ Preserves cross-channel balance, phantom imaging, and channel offset.
- ◆ Up to 24bit, 96kHz resolution.
- ◆ Mono, Stereo, and Surround components.



**360 Surround Toolkit Bundle** TDM and Native for Steinberg's Cubase and Nuendo (Mfr # SUTDM • B&H # WASUTDM) .....**CALL**

**360 Surround Tools Native Bundle** for Cubase SX 3 and Nuendo (Mfr # SURNA • B&H # WASURNA) .....**CALL**

## 360° Surround Tools Native or TDM



- ◆ Intuitive graphic display.
- ◆ Complements the S360 Surround Imager.
- ◆ Up to 24bit 96 kHz resolution.

### R360° Surround Reverb

Engineered especially for Surround sound, R360° Surround Reverb is a state-of-the-art acoustic modeling plug-in for 5 and 5.1 mixing environments. It supports sample rates of up to 96 kHz, and provides six channels of perfectly de-correlated reverberation with special front and rear Surround controls. The R360° delivers rich, smooth room simulations for your Surround projects.

- ◆ Mono-to-Stereo, Stereo to Surround and Surround components.
- ◆ Supports TDM, RTAS, Audio Suite, VST.

### S360° Surround Panner



S360° provides complete control over panning and imaging in the Surround mixing environment. Supporting sample rates of up to 192 kHz, it is an indispensable spatial enhancement tool, delivering image placement with unsurpassed Waves quality and a user-friendly interface. The S360° allows you to define the width and rotation of any audio input based on a 360° Surround stage.

### M360° Surround Manager

The M360° Surround Manager is a Surround management tool for 5 or 5.1 channel mixing environments, especially designed for studio monitoring calibration and bass management in Surround sound productions. The M360° allows monitoring on satellite and subwoofer systems with flexible control of the subwoofer feed as well as individual channel gain and delay settings.

- ◆ ITU standard Mixdown matrices.
- ◆ 10 Mixdown formats.
- ◆ Subwoofer feed control.
- ◆ Speaker angle and center level adjustment controls.
- ◆ LFE gain offset adjustment.
- ◆ 2-band bass-split crossover.



- ◆ Send Angles for connectivity with other panners and imagers.
- ◆ Derives Quad, LCR, Stereo and Mono mixes from Surround.
- ◆ Up to 24bit 192kHz resolution.
- ◆ 5.1/5.0 Surround Components.

### LFE360° Low-Pass Filter



LFE360° was conceived and created especially for Surround and 5.1 mixing applications. Designed to filter and enhance the audio on the LFE channel, the LFE360° boasts an impressive 60 db per octave roll-off.



- ◆ ARC Automatic Release Control
- ◆ IDR Increased Digital Resolution with double precision bit re-quantization and dither with 9th-order noise shaping filter
- ◆ Flexible channel coupling, grouping, and parameter linking

### L360° Surround Limiter

The L360° Surround Limiter is the ultimate level maximizer for 5 or 5.1 channel audio. Based on the legendary Waves L1 and L2 UltraMaximizers, the L360° provides brick wall peak limiting, dithering and noise shaping for multi-channel digital audio at sample rates of up to 96kHz. Other features include flexible channel coupling and grouping.

- ◆ Threshold look-ahead with Negative attack time
- ◆ Global threshold, ceiling and limiter controls for offset preservation
- ◆ Up to 24-bit, 96kHz resolution
- ◆ Mono, Stereo, and Surround components

### IDR360° Bit Re-Quantizer



The IDR360° Bit Requantizer uses patented psychoacoustic technology to deliver unparalleled results when reducing the bit-depth of Multichannel and Surround audio material. It incorporates dithering and noise shaping to optimize output, producing clean and accurate audio processing with minimal data loss for your Surround projects.

## L3 Native or TDM



The L3 Multimaximizer is the world's first auto-summing multi-band limiter for all-in-one mastering. The key to the L3's power is its Peak Limiting Mixer (PLMixer) engine, which offers user-definable linear phase crossover filters to divide the audio spectrum into five bands. The L3 then uses psychoacoustic criteria to intelligently decide how much attenuation to apply to each band so that all available headroom is used. A 12dB boost or cut available for each band functions exactly like a pre-limiter Linear Phase EQ, making the L3 an all-in-one final mastering tool. The Priority control allows you to control the relative limiting of each band, and thereby adjust the tonal character of the L3 over a wide range, while maintaining brick-wall limiting. The Master Release alters the L3's Adaptive Release Control (ARC), offering a Warm, Scaled, Aggressive, and Manual tonal options in addition to the standard ARC setting. Waves' acclaimed IDR dithering and noise shaping section is also provided, delivering the highest perceived quality of sound after quantizing. The L3 comes with three additional plug-ins: the Ultramaximizer, which uses the same PLMixer but offers limited controls, along with the L3LL Maximizer and the L3LL Ultramaximizer, that offer Low Latency processing, making them ideal for use on individual tracks. Presets can be shared between the LL versions and their non-LL counterparts. Each plugin is provided in both mono and stereo, and support TDM, RTAS, Audio Suite, VST and AU, on both Mac and PC.

### L3 Multimaximizer

- ◆ PLMixer Peak Limiting Mixer Technology
- ◆ Linear Phase EQ for sweet highs and punchy lows
- ◆ IDR (Increased Digital Resolution) with double precision bit re-quantization and dither with 9th-order noise shaping filter
- ◆ Master and Individual ARC Automatic Release Controls
- ◆ Also includes the L3 Ultramaximizer
- ◆ Up to 24bit 96kHz resolution (TDM 24/96 Accel only)



### Clockwise From Top Left:

- L3 Multimaximizer
- L3 Ultramaximizer, with limited controls
- L3LL Ultramaximizer
- L3LL Multimaximizer

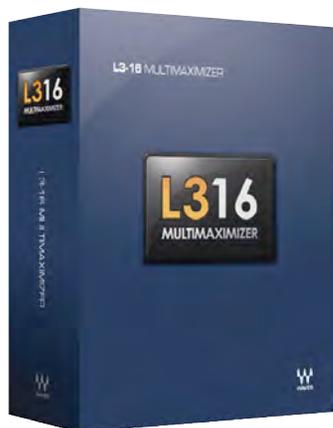
**L3 Multimaximizer Native** (Mfr # L3NA • B&H # WAL3NA).....CALL

**L3 Multimaximizer TDM** (Mfr # L3TDM • B&H # WAL3TDM).....CALL

**L3 Multimaximizer Native Upgrade** for owners of the L3 Ultramaximizer Native (Mfr # L3NUP • B&H # WAL3NUP).....CALL

**L3 Multimaximizer TDM Upgrade** for Owners of the L3 Ultramaximizer TDM (Mfr # L3TUP • B&H # WAL3TUP).....CALL

## L3 16 Multimaximizer



The L3-16 Multimaximizer is a 16 band peak limiter that delivers unparalleled loudness with unprecedented control. Powered by Waves patented PLMixer Peak Limiting Mixer technology, the L3-16 maximizes your sound with pinpoint precision and breathtaking detail. It features a unique EQ-style 6-band interface offering envelope control of both Gain and Priority. With precise and breathtakingly transparent results, the L3-16 delivers the punch and impressive, clear sound you need to stay competitive in today's music marketplace, from internet streaming and downloads to CD and radio. The L3-16's wide range of sonic flavors — from analog warm to digital cool — enable your mixes, irrespective of genre, to stand out from the crowd in quality, loud and clear. The entire L3 Multimaximizer bundle is included within the L3-16 package, giving you the widest possible variety of brick wall limiting options from tracking, to mixing, and mastering.



**L3-16 Multimaximizer Native** (Mfr # L316NA • B&H # WAL316N).....CALL

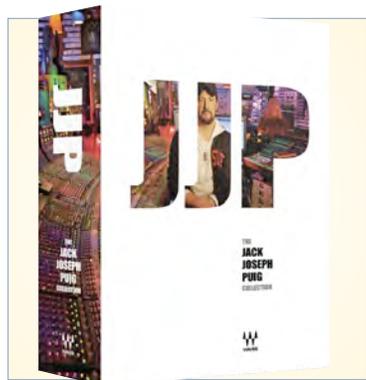
**L3-16 Multimaximizer Native Upgrade** for Owners of L3 Multimaximizer TDM/Native (Mfr # L316NUP • B&H # WAL316NUP).....CALL

**L3-16 Multimaximizer TDM** (Mfr # L316TDM • B&H # WAL316TDM).....CALL

**L3-16 Multimaximizer TDM Upgrade** for Owners of L3 Multimaximizer TDM/Native (Mfr # L316TUP • B&H # WAL316TUP).....CALL



## The Jack Joseph Puig Collection Native or TDM



Connoisseurs of vintage recording equipment know that no two units of the same make and model sound exactly alike. Tubes, capacitors and other components (not to mention wear-and-tear over time) work together to give each piece its own unique personality. So when Waves decided to model the rarest of rare studio hardware (the Fairchild 670, the Pultec EQP-1A, and the Pultec MEQ-5), there was only one logical choice of whom they should work with to bring to market a pedigree collection of vintage processors: Jack Joseph Puig. The Fairchild 670, the Pultec EQP-1A, and the Pultec MEQ-5 are among the most sought-after pieces of gear in audio history. Jack Joseph Puig is among the most sought-after producers and mixing engineers in the music industry. When JJP requires the perfect sound, he turns to these studio legends. Now, Waves has precision-modeled these rare pieces and captured every detail of their rich harmonic complexity.

### The PuigChild 660 & 670 Compressor/Limiter

Throughout the vinyl era, the original Fairchild stereo 670 compressor and its mono counterpart the 660 were ubiquitous. From the recording studio to the record lathe, the Fairchild was renowned for its advanced compression techniques and incomparable sound. With the PuigChild 660 & 670 Compressor/Limiter, Waves has captured every distinctive nuance of Jack Joseph Puig's Fairchild 670, along with every detail of its rich harmonic complexity.

- ◆ Lateral Vertical Mode (MS Compression) for Optimal Stereo Imaging
- ◆ Linked and Unlinked Modes
- ◆ Mono and Stereo Components
- ◆ Supports TDM, RTAS, VST, AU up to 24bit, 192kHz Resolution

- ◆ Key controls include: Input Gain -20 to 0; Threshold 0 to 10 (0.1 steps); Time Constant 1, 2, 3, 4, 5, 6; On/Off; Mains Off, 50Hz, 60Hz; Link Left/Right, Linked, Lateral/Vertical; Output -18dB to 18dB (0.1 steps).



### The PuigTec EQP-1A Program Equalizer

The Pultec EQP-1A is renowned its warm and round low frequency equalization and its beautiful high frequency boost; it also has the unique ability to boost and cut the same frequencies simultaneously, thereby creating a resonant shelf. Conceived and created for broadband equalization, the original EQP-1A features four low boost/cut frequencies, three high-cut frequencies and seven HF boost points, along with a bandwidth control for shaping

the high boost curve. Waves' PuigTec EQP-1A is a remarkable replication of Jack Joseph Puig's original handcrafted unit, heard on dozens of popular recordings from artists including Weezer, Black Crowes and Panic at the Disco.

- ◆ Unique resonant low shelf boost
- ◆ Up to 24bit, 96kHz resolution
- ◆ Mono and Stereo components
- ◆ TDM, RTAS, VST, AU support
- ◆ Key controls include: Low Band Boost and Low Band Attenuation (18 dB cut, 0.1 steps); Low Band frequency 20Hz, 30Hz, 60Hz, 100Hz; High Bell Boost (18 dB boost, 0.1 steps); High Bell Bandwidth (Q) (0=sharp 11=wide, 0.1 steps); High Bell Frequency 3kHz, 4kHz, 5kHz, 8kHz, 10kHz, 12kHz, 16kHz; High Shelf Attenuation (18 dB cut, 0.1 steps); High Shelf Frequency (Atten Sel) 5kHz, 10kHz, 20kHz; Output -18dB to 18dB (0.1 steps)

### The PuigTec MEQ-5

The distinctive tonal characteristics of the MEQ-5 have made the original Pultec hardware a mainstay at high-end studios for decades. The midrange PuigTec MEQ-5 and the broadband PuigTec EQP-1A together constitute one of the best-known equalization chains in audio history.

- ◆ Midrange complement to EQP-1A
- ◆ Up to 24bit, 96kHz resolution
- ◆ Mono and Stereo components
- ◆ TDM, RTAS, VST, AU support
- ◆ PC and Mac compatibility.
- ◆ Key controls include: Low Mid Frequency 200Hz, 300Hz, 500Hz, 700Hz, 1000Hz; Low Mid Peak 0 to 11 (10dB boost, 0.1 steps); Mid Frequency 200Hz, 300Hz, 500Hz, 700Hz, 1000Hz, 1.5kHz, 2kHz, 3kHz, 4kHz, 5kHz, 7kHz; Mid Dip 0 to 11 (10dB cut, 0.1 steps); High Mid Frequency 1.5kHz, 2kHz, 3kHz, 4kHz, 5kHz; High Mid Peak 0 to 11 (10dB boost 0.1 steps); In/Out; Output -18dB to 18dB (0.1 steps); Mains Off, 50 Hz, 60 Hz.



## PLATINUM BUNDLE



### Native or TDM

Waves' Platinum bundle is an extraordinary collection of signal processing tools. From dynamics, equalization, and reverb to pitch correction, spatial imaging, and beyond, Platinum is ideal for tracking, mixing, mastering, and sound design. With over 30 plug-ins, including Waves Tune LT, L3 Ultramaximizer, L3-LL Ultramaximizer, and IR-L Convolution Reverb, as well as all the plug-ins found in the Gold, Masters, and Renaissance Maxx bundles, Platinum is a powerful production arsenal for any studio.

#### Platinum Bundle (Native or TDM) Adds from the Gold Bundle—

L2 Ultramaximizer  
L3 Ultramaximizer

L3-LL Ultramaximizer  
UltraPitch

Linear Phase Equalizer  
Linear Phase Multiband

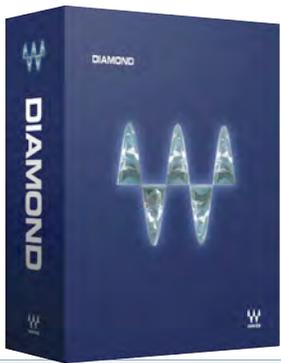
Renaissance Bass  
Renaissance Channel

Renaissance DeEsser  
Renaissance Vox

**Platinum Native Bundle** (Mfr # NPNA • B&H # WAPNB).....CALL    **Platinum TDM Bundle** (Mfr # WPTA • B&H # WAPBTD) .....**2659.95**

#### Platinum Bundle Upgrades:

For Owners of the L2 TDM Plug-In (Mfr # PTUPLT • B&H # WAPTUPLT); For Owners of the Gold TDM Bundle, Renaissance 2 TDM Collection and L2 Plug-In (Mfr # TPU4A • B&H # WATPU4A); For Owners of the Gold TDM Bundle and L2 Plug-In (Mfr # TPU3A • B&H # WATPU3A); For Owners of the Gold TDM Bundle and Renaissance 2 TDM Collection (Mfr # TPU2A • B&H # WATPU2A); For Owners of the Gold TDM Bundle (Mfr # TPU1A • B&H # WATPU1A); For Owners of the Gold Native Bundle and Renaissance 2 Collection (Mfr # NPN2A • B&H # WANPN2A); For Owners of the Gold Native Bundle (Mfr # NPN1A • B&H # WANPN1A).....CALL



## DIAMOND BUNDLE Native or TDM

The Diamond Bundle is an awesome collection of audio processing tools. It includes Q-Clone, Waves Tune LT, L3 Multimaximizer, and IR-L Convolution Reverb as well as all the plug-ins found in Waves Platinum, Restoration, and Transform bundles—a total of 40 essential processors. Diamond brings unparalleled signal processing power to your studio, for tracking, mixing, mastering, creative sound design, and audio restoration. From dynamics processing, equalization, and reverb to pitch correction, spatial imaging, and beyond, Waves Diamond Bundle is a must-have for every serious studio.

#### Diamond Bundle (Native or TDM) Adds from the Platinum Bundle—

L3-LL Multi  
Q-Clone

SoundShifter  
X-Click

X-Crackle  
X-Hum

X-Noise  
Morphoder

TransX  
Transient Shaper

**Diamond Native Plug-In Bundle** (Mfr # DANA • B&H # WADNB).....CALL    **Diamond TDM Plug-In Bundle** (Mfr # DATDM • B&H # WADATDM) .....**4374.95**

#### Diamond TDM and Native Bundle Upgrades:

For Owners of Platinum Native Bundle and Transform Native Bundle (Mfr # DNU4A • B&H # WADNU4A); for Owners of the Transform Native Bundle (Mfr # DNU2A • B&H # WADNU2A); for Owners of Platinum Native Bundle (Mfr # DNU1A • B&H # WADNU1A); for Owners of Restoration Native Bundle (Mfr # DNU3A • B&H # WADNU3A); for Owners of the Transform TDM Bundle - Mac and Windows (Mfr # DTU2A • B&H # WADTU2A); for Owners of Platinum Native Bundle and Restoration Native Bundle (Mfr # DNU5A • B&H # WADNU5A); for Owners of the Restoration TDM Bundle (Mfr # DTU3A • B&H # WADTU3A); for Owners of the Restoration TDM Bundle and Platinum TDM Bundle (Mfr # DTU5A • B&H # WADTU5A); for Owners of Broadcast and Production Native Bundle (Mfr # DNUPBP • B&H # WADNUPBP); for Owners of the Transform TDM Bundle and Platinum TDM Bundle (Mfr # DTU4A • B&H # WADTU4A); for Owners of the Gold TDM Bundle and Renaissance Maxx TDM Bundle (Mfr # DTUPGRX • B&H # WADTUPGRX); for Owners of Diamond Native Bundle (Mfr # TDMUPD • B&H # WADTDMUPD).....CALL

## MaxxVolume Native or TDM

### Four-Way Dynamics Processing

The very first plug-in of its kind, MaxxVolume performs all essential dynamics processes in one convenient tool. Combining technologies from Waves' acclaimed L2 Ultramaximizer, C1 Parametric Compressor, Renaissance Vox, and Renaissance Compressor, MaxxVolume is ideal for mixing and mastering as well as broadcast and post-production. Featuring both high and low level compression, gating, and leveling (auto gain control), MaxxVolume is perfect for voiceovers, vocals, and instrumental tracks. When time is of the essence, turn to MaxxVolume, and turn it up.



**Energy Meter** — Displays the audio signal's level after the Leveler's processing function. Range: 0 to -96dB

**Leveler** — Sets both the threshold above which leveling is applied, and the target to which the audio signal is leveled. Range: 0 to -48dB

**Low Level Compression - Comp** — Controls the maximum amount of gain makeup applied to the signal below the Threshold. Range: 0 to -48dB

**High Level Compression - Comp** — Controls the compressor threshold, setting the amount of potential dynamic range compression, displayed by a hairline indicator on the Energy Meter. Range: 0 to -48dB

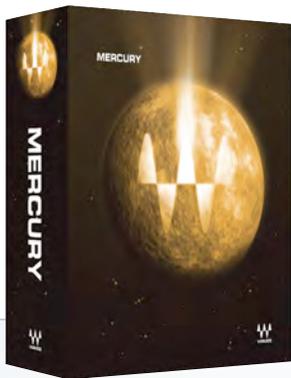
**Low Level Compression - Threshold** — Sets the threshold below which low level soft-knee compression starts, displayed by a hairline indicator on the Energy Meter. Range: 0 to -96dB

**High Level Compression - Output** — Controls the maximum output level. Range: 0 to -48dB

**Gate** — Sets the level below which gating (downward expansion) is applied. Range: 0 to -96dB

**MaxxVolume Native** (Mfr # MXVLNA • B&H # WAMVN) .....CALL

**MaxxVolume TDM** (Mfr # MXVLTDM • B&H # WAMVTDM) .....CALL



## MERCURY BUNDLE Native or TDM

### The World Of Waves In One Collection

From time-domain effects to equalizers, from dynamics control to noise reduction, from guitar sound modeling to the sound of classic analog components, there has never been such a comprehensive collection as this. The Mercury Collection offers more effects, more channel components, more mixdown tools, more processors than ever before in one place.

#### Mercury Bundle (Native or TDM) Adds from the Diamond Bundle—

API 550A API 550B API 560 API 2500 C360 Surround Compressor DeBreath GTR3 - Waves Amp GTR3 - Waves Stomp	GTR3 - Waves Tuner IDR360° Bit Re-quantizer IR1 Parametric Convolution Reverb IR360° Surround Convolution Reverb Jack Joseph Puig Collection LFE360° Low-Pass Filter	L360° Surround Limiter Linear Phase Equalizer Broadband Linear Phase Equalizer Lowband Linear Phase MultiBand M360° Surround Manager M360° Surround Mixdown MaxxBass MaxxVolume	R360° Surround Reverb S360° Surround Imager S360° Surround Panner TransX MultiBand TransX WideBand V-Comp V-EQ3, V-EQ4 Waves Tune
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**Mercury TDM** (Mfr # MERTDM • B&H # WAMBTDM) .....CALL

**Mercury Native** (Mfr # MERNAT • B&H # WAMBN) .....CALL

**TDM Upgrades:** For Owners of Diamond TDM Bundle and IR1 or IR360 (Mfr # MTU4A • B&H # WAUTDMDIRM); for Owners of Diamond TDM Bundle and GTR TDM 2.0 (Mfr # MTU3A • B&H # WAUTDMDGM); for Owners of Diamond TDM Bundle and Surround Tools (Mfr # MTU2A • B&H # WAUTDMDSM); for Owners of Platinum TDM Bundle and Surround Tools (Mfr # MTUPP360 • B&H # WAMTUPP360); for Owners of Diamond TDM Bundle (Mfr # MTU1A • B&H # WAUTDMDM) .....CALL

**Native Upgrades:** For Owners of Diamond Native Bundle and GTR 2.0 (Mfr # MNU3A • B&H # WAUNDGM); for Owners of Diamond Native Bundle and Surround Tools (Mfr # MNU2A • B&H # WAUNDISM); for Owners of Diamond Native Bundle (Mfr # MNU1A • B&H # WAUNDIM); for Owners of Diamond Native Bundle and IR1 or IR360 (Mfr # MNU4A • B&H # WAUNDIRM) .....CALL

	Z-Noise	Musicians II	Musicians I	Native Power Pack	IR-1	IR-360	Vocal	360° Tools	GTR3	JJP Collection	V-Series	API Collection	SSL 4000 Collection	Studio Classics	L3-16 Multimaximizer	Restoration	Masters	Transform	Renaissance Maxx	Broadcast & Production	Gold	Platinum	Diamond	Mercury
V-Comp											■			■										■
V-EQ3/V-EQ4											■			■										■
MaxxVolume																								■
L3-16 Multimaximizer															■									■
L3-LL Multimaximizer															■								■	■
L3-LL Ultramaximizer															■								■	■
L1 Ultramaximizer				■																		■	■	■
L2 Ultramaximizer																	■				■	■	■	■
L3 Ultramaximizer																						■	■	■
L3 Multimaximizer																						■	■	■
Q10 Paragrophic EQ																						■	■	■
SoundShifter																						■	■	■
Doubler		■	■	■			■															■	■	■
Morphoder																						■	■	■
TransX																						■	■	■
Renaissance Channel							■															■	■	■
Renaissance Reverb																						■	■	■
Renaissance EQ		■																				■	■	■
Renaissance Compressor		■																				■	■	■
Renaissance Vox		■	■																			■	■	■
Renaissance Bass																						■	■	■
Renaissance DeEsser							■															■	■	■
Renaissance Axx		■	■	■			■															■	■	■
Linear Phase EQ																	■					■	■	■
Linear Phase Multiband																	■					■	■	■
C1 Parametric Compander				■																		■	■	■
C4 Multiband Processor																						■	■	■
DeEsser				■																		■	■	■
MaxxBass																						■	■	■
Enigma																						■	■	■
Doppler																						■	■	■
SuperTap 6-Tap		■	■																			■	■	■
SuperTap 2-Tap		■	■	■																		■	■	■
MetaFlanger			■																			■	■	■
UltraPitch																						■	■	■
MondoMod																						■	■	■
Audio Track																						■	■	■
PAZ PsychoAcoustic Analyzer																						■	■	■
PS22 Stereo Maker																						■	■	■
TrueVerb				■																		■	■	■
S1 Stereo Imager				■																		■	■	■
X-Noise																■						■	■	■
X-Click																■						■	■	■
X-Crackle																■						■	■	■
X-Hum																■						■	■	■
DeBreath							■																■	■
Q-Clone																							■	■
M360 Surround Manager								■																■
S360 Surround Panner								■																■
S360 Surround Imager								■																■
R360 Surround Reverb								■																■
IR-L Convolution Reverb				■				■																■
M360 Surround Mixdown								■																■
LFE360 Low-Pass Filter								■																■
IDR360 Bit Requantizer								■																■
Waves Amp									■															■
Waves Stomp									■															■
Waves Tuner									■															■
IR1 Convolution Reverb					■	■																		■
IR360 Convolution Reverb						■																		■
IR-L Convolution Reverb					■	■													■	■	■	■	■	■
Z-Noise	■																							■
Waves Tune							■																	■
Waves Tune LT																			■	■	■	■	■	■
SSI G-Master Buss Compressor													■	■										■
SSL G-Equalizer													■	■										■
SSL E-Channel													■	■										■
API 550A													■	■										■
API 550B													■	■										■
API 560													■	■										■
API 2500													■	■										■
PuigChild 660/670										■				■										■
PuigTec EQP-1A										■				■										■
PuigTec MEQ-5										■				■										■

■ - Native & TDM ■ Native Only ■ TDM Only

