




# The Professional Video SourceBook

# Section 16a

## DSP ACCELERATED PLUG-INS

Focusrite .....	1356
Solid State Logic.....	1357
TC Electronic .....	1358-1363
Universal Audio .....	1364-1371

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 For Section 16A, DSP Accelerated Plug-Ins use Quick Dial #: 91

### LIQUID MIX



*Liquid Mix is a desktop DSP processor that not only hosts 32 classic EQs and 32 vintage compressors simultaneously, it offers direct control of all plug-in parameters at your fingertips. Right out of the box each of Liquid Mix's 32 channels gives you access to high-quality vintage and modern day classics of 40 different compressors and 20 EQs. Liquid Mix's unique hybrid 7-band 'super EQ' allows you to build your own EQ out of separate classic EQ sections in every one of the 32 channels. Each of the Liquid Mix channels appears as a separate VST, AU or RTAS plug-in within your host sequencer. Using the same patented Dynamic Convolution process as Focusrite's Liquid Channel, Liquid Mix makes use of vast amounts of processing power to sample the effect of a classic processor on a series of audio pulses, at many different gain settings and frequencies. And because all of this processing is done using Liquid Mix's onboard DSP, there is hardly any impact on your host computer. Liquid Mix connects to your computer via Firewire, which also provides bus powering. An AC adapter is available for use with 4-pin FireWire connectors. The elegant design of the desktop DSP processor features comprehensive metering, a generous LCD screen, rotary controls and buttons to provide a tactile ergonomic solution for controlling the plug-ins. You can also control and automate each channel as you would any other plug-in, from within your host sequencer. An optional expansion card is available for Liquid Mix, allowing users to increase the number of available channels at higher sample rates (sold separately). The card is quick and easy to install and fits neatly into the underside of the unit.*



#### FEATURES

- ◆ Includes emulations of any Compressor and EQ in history, using dynamic convolution to provide 40 compressors and 20 EQs, with a free expanding library online.
- ◆ Onboard DSP allows you to run 32 mono channels of Liquid Mix Compression and EQs run (16 stereo), with very little hit on your host CPU.
- ◆ Software and Hardware control — EQ and Compression can be applied via the processor's hands-on control surface, or within your DAW application via a simple GUI.
- ◆ For ease of use and conformity, all of the compressor and EQ emulations share the same plug-in interface.
- ◆ Sidechain EQ provides an additional EQ band for applying to the compressor input.
- ◆ The Hybrid Super EQ creation allows you to create custom EQs. Unique 7-band super EQs can be created, constructed from separate classic EQ sections of your choosing. For example, you can choose the high-pass filter from a 430 MKII for band 1, the low-mid parametric from a Platinum emulation for band 2, a mid-band from a true vintage emulation for band 3, and so on until band 7. Plus, you can do this for EVERY one of the 32 channels.
- ◆ Desktop Metering — Large format LED bar-graphs mean ergonomic display of levels and processor impact.
- ◆ The Liquid Mix is VST and AU, as well as RTAS compatible (using the FXpansion VST2RTAS wrapper)
- ◆ Adjustable latency settings allows you to use Liquid Mix for tracking and mixing.
- ◆ The Unique Free Switch allows access to additional parameters that were not found on the original hardware compressors

#### Optional Expansion Card

- ◆ An optional DSP expansion card is available to increase the maximum channel count at higher sample rates. Without the expansion card, the number or instances of the Liquid Mix software (maximum number of channels that can be processed simultaneously) reduces as the sample rate doubles, e.g. 8 @ 88.2/96kHz and 2 @ 192kHz. With the expansion card, this number increases to 16 @ 88.2/96kHz and 8 @ 192kHz.



**Focusrite Liquid Mix** (Mfr # LIQUID MIX • B&H # FOLM) .....**CALL**  
**Focusrite Liquid Mix DSP Expansion Card** (Mfr # LIQUID MIX DSP • B&H # FODSPELM) .....**249.99**

## DUENDE Mix Your Music On An SSL



*Duende is a FireWire-based DSP processor, housed in a single 19" rack, that offers you the complete*

*SSL mix experience. Based on the digital technology behind SSL's C-Series consoles, Duende delivers powerful channel and dynamics processing in a single channel strip along with their legendary Stereo Bus Compressor. It offers complete integration into the most popular workstation environments with one simple FireWire cable connection. Duende works with host applications for Mac OS X and Windows XP. The plug-ins are available in VST and AU formats, and RTAS is supported via an FXPansion wrapper. Duende allows for up to 32 channels of processing at sample rates up to 96khz. The EQ and Dynamics Channel provides a single plug-in channel strip solution with filters, E and G series EQ and dynamics processing, in essence all the power and processing flexibility of an SSL console channel. For even greater flexibility and power SSL offers two additional plug-ins, Drumstrip and X-EQ, that are available for purchase from the SSL website.*

### EQ & Dynamics Channel Plug-In

The EQ and Dynamics Channel Strip plug-in is derived from the C200 console and includes separate high and low pass filters, a four band parametric equalizer, an independent compressor/limiter and gate/expander as well as an output gain adjustment knob.



The **Input Section** features 20db of gain and attenuation, a level meter, phase reverse switch with status LED and a Bypass All switch offering latency free by-pass of all plug-in processing.

The **Filter Section** includes a 12dB/Octave low pass filter and an 18dB/Octave high pass filter. The filters can be placed before or after the EQ, or in the sidechain of the Dynamics section.

The **Equalizer Section** is a classic, flexible four band parametric EQ that includes two distinct EQ flavors: one based on the SSL G series EQ and the other based on the latest version of SSL's legendary E series EQ. The plug-in includes high and low frequency shelving equalizers (which can be switched to peaking curves) and two overlapping equalizers with adjustable Q. Like the Filters section, the EQ section can be switched into the side chain of the Dynamics section.

The **Dynamics Section** (compressor/limiter) section has a variable compression ratio from 1:1 to Infinity:1, a variable threshold from -30dB to +10dB, auto attack time (or selectable 1ms attack time), and a variable release from 0.1 to 4 seconds. There is a choice between Peak and RMS signal detection modes.

The **Expander/Gate Section** has a variable range from 0 to 40dB, a variable threshold from -30dB to +10dB, auto attack time (switchable to 150 micro seconds), a variable hold time from 0 to four seconds and a variable release time from 0.1 to 4 seconds.

**Duende** (Mfr # 726980X1; B&H # SODUENDE) .....CALL

### Stereo Bus Compressor Plug-In

The Duende Bus Compressor delivers the punch and drive of the classic SSL Master Bus Compressor, found on the SL 4000 G Series console, it is a key element of many legendary recordings. Widely regarded as 'audio glue' for a mix, its sound is an essential component in creating a great mix. Its features include variable Threshold, Attack, and Make-Up Gain. There is a choice of variable or automatic Release time, and there are three selectable compression ratios available (2:1, 4:1 and 20:1).



## DUENDE MINI

DSP-powered SSL processing in a compact desktop format, Duende Mini



makes owning your own slice of SSL sonic magic more affordable and portable than ever. Mini is a stylish little 'one third rack width', all metal construction, desktop box that hooks up to your computer via Firewire. This compact rugged unit is ideal for small studios or laptop based DAW users. Mini makes a stack of DSP processing power available to drive up to 16 mono channels of plug-in processing (at sample rates up to 96kHz) within your host application. Relieving the plug-in processing burden on your computer's CPU, Mini ships with the 'EQ and Dynamics Channel', a plug-in developed by SSL to provide an EQ & Dynamics processing solution with all the power and processing flexibility of an SSL console channel. Duende Mini is upgradeable to 32 channels of processing power and you can run two Duende units on a single computer system for up to 64 channels of processing.

**Duende Mini** (Mfr # 726981X1 • B&H # SODM) .....795.00

### POWERCORE



### DSP Accelerating System

The PowerCore family of processors combine powerful, DSP accelerating hardware with the flexibility and total intergration of software plug-ins. PowerCore works with any DAW that supports VST, AU or RTAS environments up to 24-bit 96kHz. There are 5 different PowerCore units to choose from including two internal DSP cards: PowerCore PCI mkII and PowerCore Express; as well as PowerCore Compact; PowerCore FireWire and PowerCore X8, which are external, FireWire-based processors.

Each PowerCore systems includes 14 world class plug-ins, with the exception of the PowerCore Compact which includes 12. The impressive range of virtual processors included with each PowerCore system run without draining your host computer's resources. These plug-ins range from Reverbs, Delay and Chorus, to Mastering, Dynamics, and EQs, as well as unique sound enhancement tools. Additional plug-ins can be added at any time from a vast array of optional plug-ins from T.C. Electronic as well as third party companies. Multiple PowerCores can be used in one system.

#### PowerCore Compact



PowerCore Compact is a portable FireWire solution, well suited for desktop and laptop production environments. It is the ideal travel companion, and it takes mere

seconds to connect, giving you instant access to serious processing and production tools. PowerCore Compact comes with 12 powerful plug-ins and two x 150 MHz DSPs, giving you all the power tools you need for productions on the road and in the studio.

**PowerCore Compact** (Mfr # 946500011; B&H # TCPC) .....CALL

#### PowerCore PCI mkII and PowerCore Express

The PowerCore PCI mkII, for use with standard PCI/PCI-X slots, and the PowerCore Express, for PCI Express come with the same 14 state-of-the-art processing plug-ins and four x 150 MHz DSPs. Also available is PowerCore UnPlugged which is the exact same card as the PowerCore PCI mkII, but gives you the flexibility to choose exactly the optional PowerCore plug-ins that you want, or to add more DSP to an existing system.



**PowerCore PCI mkII** (Mfr # 946100001; B&H # TCPCIMK2).....CALL

**PowerCore Express** (Mfr # 946600001; B&H # TCPE).....CALL

**PowerCore Unplugged**.....CALL

#### PowerCore FireWire



PowerCore FireWire provides a significant amount of power, with fast DSPs and oodles of RAM. It is ideal for high-end production environments where the uppermost quality and processing capabilities is required. Designed for serious studios and professional applications, the PowerCore FireWire is sure to deliver, and it will take care of even the most demanding tasks and requirements. PowerCore FireWire comes with 14 included plug-ins, among them, the renowned Dynamic EQ plug-in as well as the DeNoise plug-in from the acclaimed Restoration Suite package.

**PowerCore FireWire** (Mfr# 946300011; B&H# TCPCFW) .....CALL

#### PowerCore X8



PowerCore X8 provides a massive amount of power, with 8 fast DSPs and oodles of RAM. It is ideal for high-end production environments where unsurpassed quality and processing capabilities are required. Designed for serious studios and professional applications, the PowerCore X8 is sure to deliver, and it will meet even the most demanding tasks and requirements. It comes with 14 included plug-ins, among them, the renowned Dynamic EQ plug-in as well as the DeNoise plug-in from the acclaimed Restoration Suite package.

**PowerCore X8** .....CALL

	PowerCore X8	PowerCore FIREWIRE	PowerCore COMPACT	PowerCore PCIe MK II
<b>DSP</b>	8 x 150 MHz	4 x 150 MHz	2 x 150 MHz	4 x 150 MHz
<b>S-Ram</b>	8 x 512 kWords	4 x 512 kWords	2 x 512 kWords	4 x 512 kWords
<b>Size</b>	19" Rack	19" Rack	Portable Design	PCI Card
<b>Use</b>	Desktop or Laptop	Desktop or Laptop	Desktop or Laptop	Desktop

## POWERCORE Included Plug-Ins

### 24/7-C Virtual Limiting Amplifier

Convincing vintage compression and limiting using one of the most desired vintage models for PowerCore. 24/7-C was inspired by one of the vintage processors synonymous with classic dynamics processing for mixing and mastering. This plug-in recreates the details of the sound and user interface of this hardware processor as closely as possible, delivering virtual vintage at its best.



### Chorus-Delay Modulation Multi-FX

Chorus-Delay provides the trademark sound. With very flexible routing recreates the 1210 Spatial Expander with images like Chorus, Flanging and Slap can adjust the delay time in BPM.

### ClassicVerb Classic Reverb Processor

Enhances the out-of-the-box reverb flexibility of PowerCore significantly. The processor adds that “other” category of warm, lush reverb effects often associated with big expensive hardware processors to the effects menu. It’s an entirely different approach from our usual reverb, and the natural sounding reverbs provided by MegaReverb.



### Dynamic EQ EQ for Mixing and Mastering



A new tool for any mixing or mastering situation. This virtual processor eliminates the shortcomings of static EQ by providing a dynamically applied equalization. Each of the up to 4 bands can work in static or dynamic mode, or even a mixture of both. The Sidechain bands are independent of the

processing bands – so the high frequency content of a mix can control the low-end, and vice versa. The pristine processing of this plug-in is all in 48-bit double precision, and may even be used in a phase linear mode. Not included with PowerCore Compact.

### EQSAT Custom Hi-Performance EQ

A very clean sounding and carefully crafted EQ-model for any application including mastering. The processor provides 5 bands with 3 parametric ones and 2 additional shelving bands. The frequency response display gives instant feedback on the applied equalization curve. And what’s more, the unique saturation emulation can be activated to create that warm, analog sound whenever desired.



### Filtroid Dual Filterbank

With its dual filters and extensive modulation capabilities, Filtroid brings the sound of analog filter banks to the PowerCore platform. The filters can be used in series or parallel for creative control and extreme filter effects. With the sidechain input it is even possible to modulate the filter from another track. Tempo Sync ensures that filter movements are always synchronized to the speed of the sequencer, and a distortion unit adds an additional edge to the sound if desired.



### Master X3 Virtual Finalizer

A knock out punch for mixes or masters, MasterX3 is a virtual incarnation of the TC Electronic Finalizer, the standard mastering processor in the pro audio field. It expedites the mastering process by integrating several phases of mastering into a single, easy to use interface. It features multiband processing with expansion, compression and limiting separately for each band, and high quality uncorrelated dithering.

### MegaReverb TC Reverb Processor

The MegaReverb plug-in comes with classic reverb features like diffusion, dense tails and realistic room impressions – six room shapes that are modeled after real rooms. Separate early reflections and tail controls, algorithms based on M5000, a high cut filter, and 100 presets are just a few of the features that MegaReverb sports. This is a tool that provides a genuine reverb solution for all PowerCore users.



### PowerCore 01 Synthesizer



PowerCore 01 is a mono-synth that delivers results similar to the famous SH-101, with some added features like velocity and drive. Punchy bass lines, synthetic percussion sounds or synth-leads – PowerCore 01 can do it all.

### PowerCore CL Channel Compressor-Limiter

High-quality compression and limiting on each channel is very hard to realize when limited to native processing only. Vintage CL delivers just that – up to 28 Vintage CLs can be run on one PowerCore card, or 7 per DSP. In spite of this efficiency, Vintage CL employs a carefully crafted algorithm, which emulates the behavior of industry-standard analog compression devices.



### POWERCORE Included Plug-ins

#### Tubifex Virtual Guitar Amp

This virtual guitar amp has 3 tube stages and a speaker simulator for convincing amp modeling. Based on classic 12AX7 tubes, the modeled speaker was created from an actual impulse response of a 2x12 cabinet, including microphone positions. The proprietary tube simulation technology provides extremely warm and analog-sounding distortion without any audible aliasing.



#### VoiceStrip Voice Channel Strip



This complete voice processing channel includes all tools required for vocal sound adjustment: Compression, De-essing, a dedicated Voice EQ, Low-Cut Filter and Gate. Compression and EQ are modeled after classic hardware devices that deliver high-end vintage tube sound, but naturally VoiceStrip can also be used for subtle processing. All modules can be run simultaneously providing

instant total recall for professional vocal sound.

#### Character Adaptive Sound-Shaping Solution

The Character plug-in is based on an Intelligent Adaptive Filtering (IAF) technology from Noveltech, and the processing affects both the frequency response and the dynamic properties of an audio source in a highly time-varying sense. Character intelligently identifies and enhances characteristics in the instrument- or vocal source, which are pleasing to the human ear. The processing is non-linear and highly dependent on the source material's original characteristics, enhancing the perceivably favored individuality derived from the original musical instrument or voice.



#### DeNoise



DeNoise removes broadband noise, from tape hiss to static environmental noise. DeNoise is fingerprint-based and offers manual adjustment for very precise and predictable processing results. Not included with PowerCore Compact.

### POWERCORE Optional Plug-ins

#### Master X5 Virtual Finalizer

MasterX5 goes beyond MasterX3 Finalizer implementation, offering 5 bands, different filter slopes and double-precision processing. It provides even more detailed access during the mastering process for CD and broadcast, is optimized for 44.1 and 48 kHz processing and is an ideal tool for optimizing material like commercials for broadcast applications; the 5 bands allow to get even more level out of the program material.



**Master X5** (Mfr # 945251101; B&H # TCMX5) .....**199.00**

#### Tube-Tech CL 1B Emulation Redefined



Based upon highly advanced component emulation technology, the Tube-Tech CL 1B brings the legendary analog sound of the CL 1B compressor/limiter to the

PowerCore platform. The CL 1B uses a carefully crafted algorithm, so efficient it allows the use of up to 2 instances in stereo at 44.1 kHz or 1 instance in stereo at 96 kHz per DSP chip on 2nd generation PowerCore hardware (Compact, FireWire, Express, PCI mkl). The CL 1B plug-in is compatible with all types of PowerCore hardware. Tube-Tech CL 1B is also available for Pro Tools HD.

**Tube-Tech CL 1B** (Mfr # 945-340101; B&H # TCCL1BPC) .....**599.00**

**Tube-Tech CL 1B for Pro Tools** (Mfr # 947-019101; B&H # TCCL1BPT) .....**799.00**

#### TC Thirty Virtual Guitar Amp Based on AC30

A virtual model of the classic British Vox amplifier from 1961. Relying completely on PowerCore for processing, it provides the characteristic sound and behavior of the "normal channel" found on that amp. There is also a treble booster option, which was conceived with the classic sound of Queen's Brian May in mind. Additional options allow expanding beyond that sound and creating other tones. A "No Latency" mode makes the plug-in fully playable at low I/O Buffer settings and an over-sampling option allows for an even better processing quality. (Mfr # 945291101; B&H # TCTCT) ..**199.00**



#### Access | Virus PowerCore

Virus PowerCore is based on the award winning Virus Engine. With 16 voices and three oscillators, two parallel multimode filters and extensive modulation matrix, the Virus PowerCore is more than just a

virtual analog synth: The effects section alone would justify calling this plug-in a multi-effects processor.

**Access | Virus PowerCore** (Mfr # 945281101; B&H # TCAV) .....**CALL**

**Access | Virus PowerCore**

**Unlimited License** (Mfr # 945281701; B&H # TCAVUU) .....**CALL**

## POWERCORE Optional Plug-ins

### Fabrik R Four TC Reverbs in One

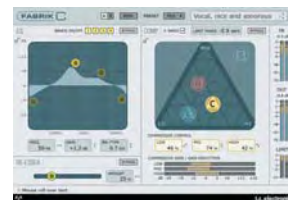
Combines four new TC algorithms in a single plug-in. Thanks to Meta Intuitive Navigation Technology (MINT) it is a breeze to find the sound you're hearing inside your head. If you want to apply a "live" vibe to your vocals and instruments, use the Live Reverb. For vocals that need an even "larger" quality, choose the Hall Reverb. For that sound of the past as well as for drums and percussion, apply the Plate Reverb. If you're working with guitars try the Club Reverb, which also works great with vocals. Within each reverb you'll find it very easy to adjust any setting to your own taste. You won't waste time with nitty-gritty preset adjustments – all you really have to worry about, is using your ears.



**Fabrik R** (Mfr # 945310101; B&H # TCPIFRM) .....CALL

### Fabrik C Channel Strip Par Excellence

A full-blown EQ, De-Esser and Compressor in a single plug-in. In short, Fabrik C has all the qualities of a channel strip. With Meta Intuitive Navigation Technology (MINT) you have total control of all the parameters, using only a few dedicated knobs. The EQ is a 4-band parametric EQ with high/low-pass filters, and a choice of 4 different filter types. The de-esser features a single slider for total control. The compressor can be used either as a three-band, intelligent compressor, or you can switch to full-band compressor mode. Use the Fabrik C as an insert on your channels – it's one of the best and most optimized tools you can use for that job.



**Fabrik C** (Mfr # 945309101; B&H # TCPIFCM) .....CALL

## Vocal Processors by T.C. Helicon

### Intonator HS Vocal Intonation Correction

Intonator HS fixes intonation problems in vocals on the fly, saving producers hours of recording and editing time. It utilizes the same intonation correction technology found in TC-Helicon's hardware products and delivers very natural sounding results. The user interface is straight-forward and easy-to-use with a real-time pitch and processing display. For creative applications, the maximum pitch correction range is  $\pm 600$  Cents, allowing you to force a melody to one note, if you like. Additionally, an innovative adaptive Low-Cut Filter removes unwanted low frequency rumble and noise – without making the voice sound thin.



**Intonator HS** (Mfr # 945-015101; B&H # TCPII) .....199.00

### Harmony4 Virtual Voices, Real Results

The demanding producer, engineer, and songwriter can save time and exercise their creative options using Harmony4 to create exciting new harmony parts after the singer has left, fatten existing harmony tracks and create memorable vocal special effects. The sonic difference lies in TC-Helicon's research into humanization algorithms and the accuracy and speed of the patent-pending pitch detection. Offering unsurpassed realism with a choice of automatic or MIDI-driven arrangement methods and extensive editing possibilities, Harmony4 creates spectacular results. Whether you require a lead plus parallel harmony or a giant multi-voice stack, Harmony4 is the essential vocal tool. Harmony4 is also available for Pro Tools HD.



**Harmony4** (Mfr # 945-320101; B&H # TCPIH4PC) .....CALL

**Harmony4 for Pro Tools HD** (Mfr # 947-015101; B&H # TCPIH4PT) .....CALL

### VoiceDoubler Virtual Voices, Real Results



With VoiceDoubler from TC-Helicon, doubling a chorus hook, an important lyric, or the whole outro can now be done instantly without the tedium of matching performances and multitracking a human singer. TC-Helicon's ultra-realistic pitch detection and humanizing algorithms make it sound convincingly real. Included in the plug-in is the  $\mu$ Mod (micromod)

block supplying pristine emulations of popular microshift, chorus, flange and pitch feedback effects that can be layered on top of the virtual doubled voices. It's easy to use too; realistic presets and master controls contribute to its time- and voice-saving benefits. VoiceDoubler is also available for Pro Tools HD.

**VoiceDoubler** (Mfr # 945-TBA; B&H # TCPIVDPC) .....CALL

**VoiceDoubler for Pro Tools HD** (Mfr # 947TBA; B&H # TCPIVDPT) .....CALL

### VoiceModeler Voice Morphing Tool



VoiceModeler utilizes TC-Helicon's unique technology to alter the sound of a voice completely. The real-time process can turn thin vocals into throaty ones – or even transform a male into a female voice. Now, one singer can have multiple Voice

Personalities – and a convincing choir sound featuring different voices can be built from one source sound. VoiceModeler's Resonance and Breath combined with the Spectral features can subtly enhance the sound of a vocal. It will make it crisper, give it slightly more body or create a breathy intimate sound – or even all at the same time.

**VoiceModeler** (Mfr # 945-040101; B&H # TCPIVM) .....199.00

### SYSTEM 6000 ALGORITHMS for PowerCore



#### VSS3 Stereo Source Reverb

VSS3 Stereo Source Reverb for PowerCore is a direct port of the reverb algorithm from TC's System 6000. The VSS3, or Virtual Space Simulation, algorithm is made up of nearly 800 parameters, all of which have been condensed into a simple user interface with clear choices at all levels. Presets and customizable focus fields from System 6000 are included to facilitate easy start-up.

What makes VSS3 unique is that it is a source reverb, which contributes more depth and distinction to the mix while at the same time adding character and definition to any given source. The use of Virtual Space Simulation recreates the natural characteristics of acoustic spaces through extensive processing. Early reflected signals are manipulated separately from the decay or reverb tail of the signal. It is these separate components that are responsible for the character, localization and spaciousness of a room.

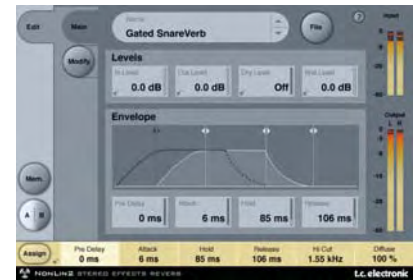
Chaotic response algorithms and sophisticated modulation patterns that add even greater realism. **VSS3 is also available for Pro Tools HD.**

- ◆ Source based design for more character and better localization
- ◆ Chaotic response like a real room
- ◆ Extremely wide editing range and "story telling capability"
- ◆ Many hundred industry standard presets available including dedicated presets available for music, film and post
- ◆ Fully mono compatible: A mix doesn't become dry in mono
- ◆ Extremely wide dynamic range
- ◆ Focus Fields for easy preset tweaking and navigation
- ◆ Built-in preset converter – import VSS3 presets from System 6000

#### NonLin2 Stereo Effects Reverb

NonLin2 Stereo Effects Reverb is the second reverb ported directly from TC's System 6000 and made available for DAWs via PowerCore. NonLin2 is capable of generating compact vocal ambience, dramatic drum sounds, percussive sounds, reverse reverbs and completely new and twisted effects. Thanks to the amplitude envelope feature, NonLin2 is especially well suited for drums and vocals. There are 20 reverb types and 20 twist types respectively. Each of the 20 reverbs have their own flavor and different features with regards to density, diffusion type, spectral response, stereo image etc. The 20 twist types determine which type of effect treatment will be used on the reverb, opening up numerous creative possibilities. **NonLin2 is also available for Pro Tools HD.**

- ◆ A true System 6000 reverb for your DAW.
- ◆ Envelope – Great flexibility, delivers gated reverbs without a trigger
- ◆ Presets – NonLin2 comes with fully customizable presets
- ◆ Focus Fields for easy preset tweaking and navigation
- ◆ Built-in preset converter – seamless import of NonLin2 presets from System 6000



#### DVR2 Digital Vintage Reverb

DVR2 is a Digital Vintage Reverb that delivers a precise emulation of the coveted EMT250 plate reverb, a reverb that is still widely used on lead vocals in studios around the world. Years of research have been put into recreating the EMT250 reverb, which makes the DVR2 perfect for situations where the sound of the reverb itself is part of the mix. The high resolution parameters allow for lower noise, extension of bandwidth, and control of the amount of chorusing. DVR2 comes with a comprehensive set of customizable presets, focus fields for tweaking and navigation, and a built-in preset converter allowing seamless import of DVR2 presets from System 6000.

**DVR2 is also available for Pro Tools HD.**

- ◆ A full scale System 6000 reverb for your DAW
- ◆ The most precise EMT250 emulation. With the Vintage Reset function you can even emulate its artifacts
- ◆ Parameter interaction and editing range are emulated from the EMT250
- ◆ High resolution parameters with lowered noise floor
- ◆ Focus Fields for easy preset tweaking and navigation
- ◆ Built-in preset converter – seamless import of DVR2 presets from System 6000

**VSS3** - (Mfr # 945305101 • B&H # TCVSS3) .....CALL

**VSS3** for Pro Tools HD - (Mfr # 947012101 • B&H # TCVSS3TDM) .....CALL

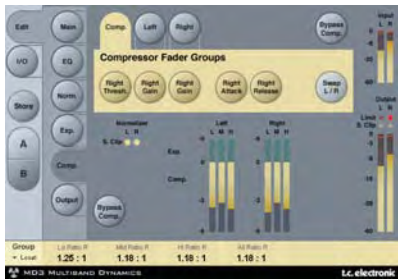
**NonLin2** - (Mfr # 945306101 • B&H # TCNL2) .....CALL

**NonLin2** for Pro Tools HD - (Mfr # 947-017101 • B&H # TCNL2TDM) .....CALL

**DVR2** - (Mfr # 945307101 • B&H # TCDVR2) .....CALL

**DVR2** for Pro Tools HD - (Mfr # 947-016101 • B&H # TCDVR2TDM) .....CALL

## SYSTEM 6000 ALGORITHMS for PowerCore



### MD3 Stereo Mastering

MD3 brings stellar production and mastering tools previously only available in System 6000 to the realm of DAWs. It includes two algorithms, MD3 Multiband Dynamics and BrickWall Limiter, utilizing a multi-band 48 bit internal resolution structure. The MD3 **Multiband** offers a 3-band compressor and expander, a 4-band parametric EQ, and a limiter in one package. It can be configured for stereo or dual mono processing, and used on single sources as well as complete stereo mixes. The multiband section has adjustable look-ahead delay for analyzing transients, while the limiter uses its own overshoot proof micro-delay to prevent output samples above the threshold set. **BrickWall Limiter** is a transparent, low distortion stereo/dual mono limiter that adapts to the signal to investigate if it may be contaminated with 0dBFS+ peaks - and to remove them if so decided.

### UnWrap Stereo to 5.1 Conversion

The world's most widely used high-resolution mastering and up-converter algorithm for music and post production, and now it is available for digital audio workstations. It facilitates smooth and fast stereo to 5.1 up-conversion when there is no time to do a conventional 5.1 mix or multitrack source material is non-existent. With an abundance of parameters to convert stereo and L/R sources to 5.1, UnWrap remains faithful to the original mix's width, timbre, spaciousness and other significant factors. Because of this approach the 5.1 output can be subsequently down-mixed to stereo again with no sonic loss of quality. UnWrap includes customized up-conversion presets for film production and music mastering, with default presets capable of time-aligning all channels with sample precision, widen or narrow the image, control the amount of center and LFE channels to be used, as well as change filters and envelopes. All preset parameters are fully editable. With double-precision processing, UnWrap can run at any sample rate between 44.1 and 96 kHz.



**MD3** (Mfr # 945303101 • B&H # TCMD3).....CALL  
**MD3 for Pro Tools HD** - (Mfr # 947010101 • B&H # TCMD3TDM) .....CALL

**UnWrap** (Mfr # 945-330101 • B&H # TCUWPC).....CALL  
**UnWrap for Pro Tools HD** (Mfr # 945-330101 • B&H # TCUWPC).....CALL

## RESTORATION SUITE for PowerCore

*Restoration Suite brings you all the key components required to restore vintage or otherwise damaged recordings, from broadband noise reduction to click or scratch removal. Restoration Suite offers five real time plug-ins: DeScratch, DeNoise, DeClick, DeCrackle and DeThump.*

**DeClick:** Repairs crackle and clicks with an extremely easy and fast user interface. Audition feature allows monitoring of the removed signal parts for optimal results. In combination with DeScratch, small and large artifacts can be reduced dramatically in just one pass.



**DeScratch:** Employs unique patented technology that eliminates clicks, scratches and even long disturbing drop outs. DeScratch is perfect for removing extreme impulsive-type errors in digital signals or scratched vinyl recordings.



**DeCrackle:** Removes artifacts ranging from 1 to 20 samples long. Crackles typically manifest themselves as constant surface noise, similar to what you would hear in the background of a record. Audition feature can be used to playback only the noise that has been removed from the signal.



**DeThump:** Eliminates low frequency pulses. DeThump targets, finds and derives waveform estimates of the thump and eliminates it by subtraction. Multiple estimates are averaged and combined using simple cross-fades. With DeThump, you can deal with strong impulsive errors of up to 12000 samples at 44.1 kHz sampling rate in length, without audible artifacts.



**DeNoise:** Removes broadband noise, from tape hiss to static environmental noise. It offers manual adjustment for very precise and predictable processing results. Included with PowerCore X8, FireWire, MKII and Express.



**Restoration Suite** (Mfr # 945-380101; B&H # TCRS2).....CALL

## UAD DSP FAMILY

### DSP Hardware and Powered Plug-Ins

The UAD DSP Family of hardware accelerators are cross-platform audio processors designed to work exclusively with Universal Audio's world-class powered plug-ins with high resolution, 32-bit floating point processing, at sample rates from 44.1 to 192kHz. Comprised of the **UAD-1** for PCI / PCI-X card, the **UAD-1e** for PCI Express, and the **UAD-Xpander** Express Card for Laptops, each card utilizes a single, unpartitioned processor allowing for larger and more sophisticated plug-in algorithms without burdening your CPU. Universal Audio offers an ever-expanding roster of plug-ins, compatible with AU, VST and RTAS hosts, including exquisitely modeled versions of some of the most sought after studio processors from the past 50 years. vintage equalizers and compressors, superior precision mastering tools, lush reverbs, guitar FX, and officially licensed classic hardware emulations from Roland and Neve.

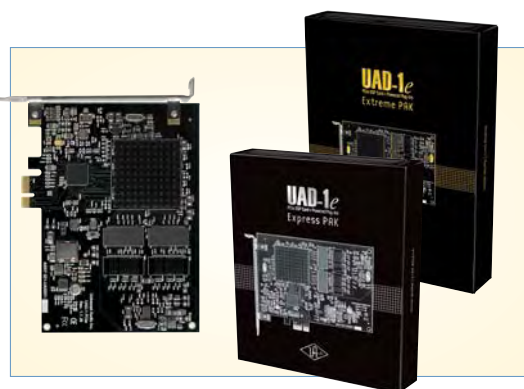
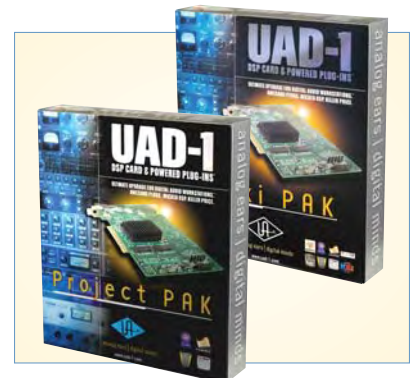
#### All UAD Systems Feature

- ◆ Use up to four UAD's per system - you can even mix and match hardware. Plug-In Licenses Valid for up to 4-cards in a system.
- ◆ World renowned Mixing & Mastering plug-ins. No-compromise audio quality.
- ◆ UltraDither hardware algorithm provides maximum signal quality
- ◆ Artifact-free smoothing on all parameters (no zipper noise).
- ◆ Distortion free, high-resolution signal path due to floating point processor
- ◆ All parameters can be automated.
- ◆ Single, unpartitioned super-computing DSP chip for optimal performance and flexibility
- ◆ Up to 32-bit, 192kHz resolutions are supported, limited only by the host application
- ◆ Floating point processor for maximum dynamic range
- ◆ Automatic DSP load balancing by driver (intelligent use of card DSP resources)

### UAD1 Systems for PCI and PCI-X

- ◆ 7" form factor (PCI short card)
- ◆ Works with Laptops via Magma Expansion Chassis
- ◆ Cross-platform (Mac/PC) - fully PCI 2.1 compliant
- ◆ Up to four cards supported with automatic load balancing

<b>UAD-1 Project PAK</b> DSP PCI Card with Plug-Ins (Mfr # UAD-1 PROJECT PAK; B&H # UNUAD1PP) .....	<b>399.00</b>
<b>UAD-1 Flexi PAK</b> DSP PCI Card with Plug-Ins and Voucher (€500 value) (Mfr # UAD-1 FLEXI PAK; B&H # UNUAD1FP) .....	<b>699.00</b>
<b>UAD-1 Ultra PAK</b> DSP PCI Card with Plug-Ins (Mfr # UAD-1 ULTRA PAK; B&H # UNUAD1UP) .....	<b>999.00</b>



### UAD1e Systems

- ◆ Cross-platform (Mac/PC) PCI Express x1 card
- ◆ Works with any combination of UADs
- ◆ Same potent DSP power as UAD-1 and UAD-Xpander
- ◆ Use up to four cards per system

<b>UAD-1e Express PAK</b> (Mfr # UAD-1E EXPRESS PAK; B&H # UNUAD1EESP) .....	<b>499.00</b>
<b>UAD-1e Expert PAK - PCIe DSP Card with Plug-Ins and Voucher (€750 Value)</b> (Mfr # UAD-1E EXPERT PAK; B&H # UNUAD1EETP) .....	<b>749.00</b>
<b>UAD-1e Extreme PAK - PCIe DSP Card with all Available UA Powered Plug-Ins</b> (Mfr # UAD-1E EXTREME PAK; B&H # UNUAD1EEXP) .....	<b>CALL</b>

## UAD DSP FAMILY

### UAD1 Xpander Systems



- ◆ The world's first ExpressCard audio DSP expansion system for Mac OS X and Windows Vista laptops. It leaves slower, USB & Firewire connections free for dongles, Audio I/O, and hard-drives while it operates at full PCI Express bandwidth.
- ◆ 44.1-192k DSP audio accelerator for laptops
- ◆ Noiseless, fanless, alumi-cool chassis design
- ◆ Ultra-fast (2.5Gbps) Expresscard 34 interface
- ◆ Same potent DSP power as UAD-1 and UAD-1e
- ◆ Each UAD-Xpander includes ExpressCard, UAD-Xpander DSP chassis, 1 meter cable, and carrying case, along with UA's base set for 14 Powered plug-ins.

#### UAD-Xpander Xpress

(Mfr # UAD XPANDER XPRESS; B&H # UNUADXXPS)  
ExpressCard/34 DSP expansion system for laptops with bundled plug-ins and voucher (\$500.00) .....**799.00**

#### UAD-Xpander Xpert

(Mfr # UAD XPANDER XPERT; B&H # UNUADXXPERT)  
ExpressCard/34 DSP expansion system for laptops with bundled plug-ins and voucher (\$1,000.00 Value) .....**999.00**

#### UAD-Xpander Xtreme

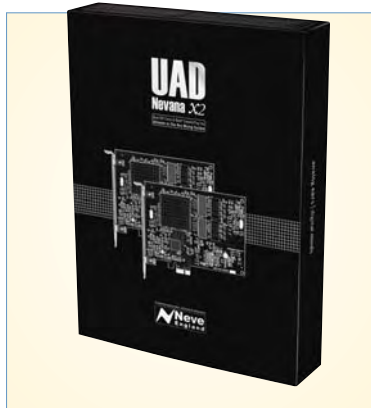
(Mfr # UAD XPANDER XTREME; B&H # UNUADXXXTREME)  
ExpressCard/34 DSP expansion system for laptops with every available UA powered plug-in .....**2199.00**

**Optional UAD-Xtenda Kit:** 3m cable and PCIe desktop adapter allows the DSP chassis to be used with a desktop machine .....**CALL**

### Plug-Ins

Each of the boxed versions of the UAD-1, UAD1e and UAD-Xpander include the following plug-ins:

- ◆ CS-1 Channel Strip with 3 separate plug-ins
- ◆ Nigel Guitar Amp Plug-in Suite with 7 separate plug-ins
  - Nigel (all of the modules in one plugin)
  - Preflex (Gate/Comp + Amp + Cabinet)
  - GateComp (Gate/Compressor)
  - Phasor
  - Mod Filter
  - TremFade (Tremolo/Fade)
  - TremModEcho
- ◆ 1176SE Compressor
- ◆ Pultec EQP-1A EQ
- ◆ RealVerb Pro Reverb



### UAD-Nevena

A joint venture between Universal Audio and AMS-Neve, UAD-Nevena X2 combines the classic sound of Neve consoles with the best solution for in-the-box mixing. It includes two PCIe DSP cards and all seven of the UA/Neve Classic Console Plug-ins including the 1073/1073SE EQ, 1081/1081SE EQ, 33609/33609SE Bus Compressor & 88RS Channel Strip in AU, VST & RTAS formats. The UAD-Nevena X2 also includes the standard 14 UA Mix-Essentials plug-ins plus a \$200 UAD voucher that can be used against any UAD plug-ins at the my.uaudio.com store.

- ◆ TWO PCIe UAD-1e DSP Cards (for Double DSP Power – 2 open PCIe slots required)
- ◆ Neve: 1073/SE, 1081/SE, 33609/SE, 88RS (7 plug-ins) & UA Mix Essentials (VST/AU/RTAS)
- ◆ UAD\$200 Voucher included to spend on any powered plug-ins at my.uaudio.com
- ◆ Create a virtual Neve 88RS console with up to 26 Mono or 18 stereo (36 channels) @ 44.1k
- ◆ Expand with UAD-1 PCI, UAD-1e PCIe or UAD-Xpander for up to 4 UADs per system

**UAD-NEVANA X2** (Mfr # UAD-NEVANA X2; B&H # UNUADNEVANAX) .....**1499.00**

### UAD DSP FAMILY Included Plug-ins

#### CS-1 Channel Strip

Provides all the tools you need for recording and mixing in one simple plug-in (using only one insert!) With a unique smoothing algorithm for all controls and DSP conserving bypass switches built-in, CS-1 packs a whopping punch into a small package. Channel Strip consists of three plug-in modules: EX-1 EQ/Compressor, DM-1 Delay Modulator, and the RS-1 Reflection Engine. Each module can be used as separate plug-in or within CS-1.



#### EX-1 Equalizer/Compressor

- ◆ Five Full Parametric Bands with Bypass Switch
- ◆ Hi & Lo Shelving
- ◆ Peak/Notch or High/Low Pass Settings
- ◆ Ultra-Smooth Compression

#### DM-1 Delay Modulator

- ◆ Chorus, Flange, Dual Delay, and Ping Pong Effects
- ◆ Multi-Phase Sine & Triangle Modulators
- ◆ Global Rate and Depth Settings
- ◆ Re-circulation and Delay-Line Damping

#### RS-1 Reflection Engine

- ◆ Multiple Room Shapes
- ◆ Adjustable Room Size from One to 99 meters
- ◆ Forward and Reverse Gates
- ◆ Echo, Ping-pong, and Multi-Tap Delay Effect



#### RealVerb Pro

What if you could put your sound right in the perfectly designed room? Based on our own unique set of algorithms, the world-class RealVerb Pro plug-in lets you design the room just as you hear it. Get beyond the barriers of simply big and small, dark or bright. RealVerb Pro gives you our trademark, distortion-free, smoothing diffusion control and ultra-long reverb tail.

Driven by the processing power of the UAD, RealVerb Pro can run eight instances simultaneously, with ease. RealVerb Pro is the most flexible and natural sounding reverb plug-in in the industry.

- ◆ Custom room shape settings
- ◆ Adjustable settings for wall material
- ◆ Select from a graphic menu of room shapes
- ◆ Control intensity & timing of early reflections and late-field reverberation
- ◆ Adjust room size from 1-99 meters
- ◆ Blend between room shapes and sizes in real time
- ◆ Adjust relative thickness of materials
- ◆ Morphing capabilities between different presets

#### Nigel

The latest guitar processing technology integrated into a complete multi-effects plug-in solution. Utilizing Universal Audio's component modeling technology and intuitive design, Nigel delivers a complete pallet of guitar tones along with most every effect a guitar player might need, with minimal latency and no load on your host computer's CPU. Additionally, Nigel's Preflex advanced guitar amp modeling technology goes beyond the usual pre-amp/amp/cabinet emulators. It delivers a wide range of classic amp tones from the "Clean & Warm" California tube sound to more metal soaked "British" tones, plus a bevy of original timbres simply not possible on any other guitar system. Preflex also offers variable morphing between any two amp presets, truly bringing creative guitar voicing to the next level.



#### 1176SE Limiting Amplifier Emulation

The 1176SE is derived from the 1176LN. Its algorithm has been revised in order to provide sonic characteristics similar to the 1176LN but with significantly less DSP usage. It is provided to allow "1176LN-like sound" when DSP resources are limited.



The 1176SE behavior is practically identical to the 1176LN. Its sound is nearly identical too, but certain compromises had to be made in order to squeeze the extra DSP performance that the 1176SE provides. At typical settings the sonic difference is negligible. At extreme (cranked) settings, nobody with "golden ears" will say it sounds exactly like the 1176LN, but it still sounds great and is very usable in most situations.

#### Pultec EQP-1A EQ Emulation

The Pultec EQP-1A Program Equalizer plug-in is a faithful electronic reproduction of the classic hardware equalizer. The Pultec EQ has long been a choice of recording and mastering engineers for its ability to bring out individual frequency ranges without significantly altering other frequencies. In addition, the Pultec is one of those magical pieces of gear that makes audio sound better - just by passing through it. The sophisticated modeling technology used in the Pultec EQP-1A plug-in captures both of these key characteristics.

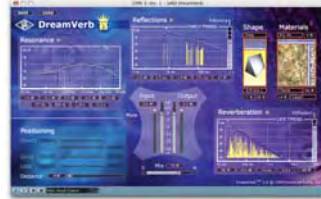


- ◆ Legendary Pultec Program EQ
- ◆ Unique simultaneous boost and cut
- ◆ Smooth, sweet top end
- ◆ Dial in dangerous amounts of boost with incredibly musical results
- ◆ Modeled after a highly prized "golden" Pultec
- ◆ Models accurate to within unit-to-unit variation

## UAD DSP FAMILY Reverb Plug-ins

### DreamVerb

DreamVerb, Universal Audio's flagship stereo reverb plug-in, draws on the unparalleled flexibility of RealVerb Pro. Its intuitive and powerful interface lets you create a room from a huge list of different materials and room shapes. These acoustic spaces can be customized further by blending or "morphing" the different room shapes and surfaces with one another, while the density of the air can be changed to simulate different ambient situations. DreamVerb features a flexible 5-band active EQ and unique level ramping for early and late reflections for ultra-realistic dynamic room simulation. And with Universal Audio's proprietary smoothing algorithm, all parameters can be adjusted in real-time with no "zipper-noise" or audible artifacts. DreamVerb also features lots of graphic feedback for the user to understand just how their choices effect the reverb. From a vibrantly dynamic room to a rich, deep cathedral, DreamVerb is the reverb of your dreams.



### Plate 140

Universal Audio "steps up to the plate", rendering another classic tool for the DAW, the Plate 140 plug-in. In 1957, EMT made a breakthrough with the release of the EMT 140, which utilized a resonating metal plate to create ambience. Nothing is quite like the wonderfully lush and distinctive tone of plate reverb that still endures as part of the fabric of modern music. However, plate reverb systems are expensive, bulky, need to be isolated from vibration and maintained regularly-therefore plates are usually found only in major studios. Universal Audio accurately recreates that unmistakable sound with the Plate 140 Plug-In. The Plate 140 replicates the sonic signature of three uniquely different EMT 140s installed at The Plant Studios in Sausalito, CA. That's nearly two thousand pounds of sound in one plug-in! The GUI is closely based on real plate system components with additional controls for DAW users. Impractical or impossible for most before, Universal Audio once again brings classic analog tools within the reach of everyone.



## UAD DSP FAMILY Compressor Plug-ins

### 1176LN Limiting Amplifier Emulation

The reputation of this analog classic is well known in the audio industry. Originally designed and built during the 1960's, the 1176LN was the first to use a field effect transistor (FET) as a voltage-controlled variable resistor, and that innovation was the key to its unique character. An in-depth analysis of the 1176LN's "personality" allowed Universal Audio to methodically reproduce those results within a plug-in architecture, and offer that same character to computer-based audio workstations.



- ◆ Ultra-fast attack time
- ◆ FET Gain Reduction Emulation
- ◆ Input & Output Gain adjustment knobs
- ◆ Custom output transformer emulation design
- ◆ Unique, analog-friendly "warm" characteristics
- ◆ Supports the popular "All Buttons Mode"
- ◆ Adjustable Attack and Release
- ◆ Full automation capabilities



### LA2A Leveling Amplifier Emulation

The Teletronix LA-2A leveling amplifier is practically the definition of vintage audio gear. The original opto-electrical attenuator circuit is responsible for the incredibly rich and magic sound embracing the tracks of so many classic recordings in circulation today. In an effort to bring this product and its character into the world of DAWs, Universal Audio studied not just the sound, but how each and every component interacted and behaved under a full range of studio conditions. The word, "emulation", hardly does this plug-in justice. It is in fact a digital copy of the LA-2A, and upholds all the classic, analog characteristics of the original with unprecedented clarity and sound quality.

- ◆ Identical look, controls, and operation of its analog cousin
- ◆ Lag-free, distortion-free optical attenuator emulation
- ◆ Frequency-dependent compression behavior
- ◆ Input Gain and Peak reduction adjustment knobs

### Fairchild 670 Compressor Emulation

The two channel Fairchild 670 is the "Holy Grail" of compressors in studio gear esoterica, not only because of its price (around \$30,000 on the vintage market), but its extreme rareness and the difficulties in maintaining such a piece. With 14 transformers, 20 vacuum tubes, a 6 rack-space encompassing girth, and weight of 65 lbs., the 670 is the heavyweight champion of compression. Modeled after Allen Side's favorite unit from Ocean Way Studios, UA went to great efforts to capture the unique and sublime sonics of this famous mu-type tube limiter. UA adds an auxiliary panel allowing access to rear access controls, common mods, and unique Universal Audio-only additions.



### UAD DSP FAMILY EQ & Roland Plug-ins

#### EQ PLUG-INS

##### Pultec Pro

Pultec-Pro combines the Pultec MEQ-5 Midrange Equalizer and the Pultec EQP-1A Program Equalizer, two of the most sought-after hardware EQs, into one plug-in that is the very essence of vintage EQ emulation. The Pultec MEQ-5 Midrange Equalizer has been out of production for some time, and is the ultimate compliment to the Pultec EQP-1A. Most studios liked to have one of each for full bandwidth vintage EQ, and the MEQ-5 section allows you to boost and cut midrange bands with the same silky smoothness and personality of the original MEQ-5 hardware. Either EQ section can be enabled or disabled separately, saving DSP power on your UAD. Like the EQP-1A, the MEQ-5 was meticulously modeled with the attention to detail you expect from Universal Audio.



- ◆ Unique simultaneous boost and cut
- ◆ Smooth, artifact-free EQ even at high boost settings

##### Helios Type 69

The Helios Type 69 is a 3-band EQ derived from the classic UK mixing console used to mix albums by such legendary rock, pop and reggae performers as the Beatles, Rolling Stones, The Who, Led Zeppelin, Jimi Hendrix, and Bob Marley. Universal Audio modeled the EQ section of the original "Type 69" console, specifically the model that was employed in London's Basing Street Studio — the one that is considered the most musical. The passive EQ design features High shelf, parametric mid-band, and a Peak Shelf Bass band. The Helios Type 69 is capable of being pushed to its most extreme boost settings while retaining openness and clarity.



- ◆ Distinct 3-band EQ with phase reverse & level adjust
- ◆ High Shelf, Parametric Mid and Bass Peak/Shelf EQ

##### Cambridge EQ

Designed to be the ultimate EQ, the Cambridge EQ offers a high-end analog console-style processor with 5 fully parametric bands with high and low cut filters offering a wide variety of filter types and curves, along with switchable shelving filters for each EQ band. It utilizes complex lattice filters and a special algorithm that delivers a warm analog sound without oversampling. An A/B function allows for quick comparison of two different settings. Cambridge also features a graphic display of the EQ curve, which has "edit handles" for click and drag control of the EQ parameters, plus editable text displays for parameter values.



- ◆ Graphical display of EQ curve with "bats" for adjustment directly on the EQ curve
- ◆ Parametric section controls emulate popular high-end analog consoles

#### ROLAND CLASSIC PLUG-INS

The Roland Classic FX plug-in bundle from combines RE-201 Space Echo, Roland Dimension D SDD-320 chorus, and BOSS CE-1 Chorus Ensemble for the ideal collection of vintage chorus, tremolo, stereo spatial modulation, tape echo and spring reverb mix effects. Each Classic FX plug-in bundle has been entrusted by Roland for accurate analog modeling. This collection of classic analog studio tools used on countless hits mixed over the past 30 years is now accessible to the DAW generation and affordable to all. This bundle is included with the PCIe-based Xtreme Pak and the UAD-Xpander Xtreme.

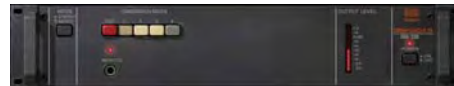
##### BOSS CE-1

Based on Boss' 1976 Chorus Ensemble pedal, UA's CE-1 delivers the same inimitable lush, wide-stereo chorus sounds for the UAD environment. The CE-1 is a secret weapon for mix engineers that has provided its unmistakable warm analog stereo chorus and vibrato to countless tracks. The CE-1 provides a choice of either chorus or true pitch shifting vibrato, with one knob dedicated to the chorus intensity, while two knobs allow manipulation of the vibrato depth and rate.



##### Roland Dimension-D

Originally designed in 1979, the Roland Dimension D is a classic bucket brigade chorus effect that adheres to the principle of doing one thing, and doing it extremely well. With a meager choice of only four settings, Dimension D offers some of the best stereo chorus with a really unique sound enhancer for adding spatial and stereo widening effects. The Dimension D has been heard on countless records, from luminaries such as Peter Gabriel, Talking Heads and INXS.



##### Roland RE-201 Space Echo

UA's RE-201 Space Echo faithfully retains all the controls and features of Roland's 1973 classic tape echo / spring reverb box. Universal Audio has re-created the highly beloved RE-201 unit, considered the best of the Space Echo line. The Space Echo can be heard on numerous recordings, from 70's space rock like Pink Floyd and David Bowie, to countless Reggae and Dub albums, to more recent bands like Portishead and Radiohead.



- ◆ Tape echo modeling, complete with saturation, wow & flutter, and splice
- ◆ Incredible tape oscillation effects and spring reverb emulation

## UAD DSP FAMILY Precision Plug-Ins

### Precision EQ

A stereo or dual mono 4-band equalizer and high-pass filter made primarily for use with program material. The Precision EQ is modeled on the behavior of real-world analog mastering filters, and uses the classic parametric controls arrangement. Precision EQ utilizes the best of traditional hardware designs while incorporating features convenient to software digital mastering. To preserve the greatest sonic detail and ensure a minimum of artifacts in the upper frequency range, the Precision Equalizer is up-sampled to 192kHz.



#### Both Channels Feature

- ◆ Four bands of filtering grouped in two overlapping pairs: Two for low frequencies, two for high frequencies.
- ◆ A  $\pm 8$ dB shelving or peak/notch filter is available for each band with five peak/notch responses per band. Each band can be enabled/disabled for auditioning and DSP savings.
- ◆ .5 dB stepped gain controls and stepped frequency controls.

#### Global Features

- ◆ The Stereo cycle button allows you to audition two separate A and B EQ configurations, while the Dual button functions in dual mono, when disparate channel adjustments are necessary.
- ◆ In Stereo mode, the left and right controls are linked – move a knob on either channel, and the corresponding channel to move.
- ◆ Stereo EQ configurations can be conveniently transferred from A to B, or B to A using parameter Copy buttons

### Precision Multiband



A specialized mastering tool that provides 5 spectral bands of dynamic range control. Compression, Expansion or Gate can be chosen separately for each of the five bands. Use for anything from complex dynamic control to simple

de-essing. Two filterbank modes offer precise linear-phase for perfectly phase-coherent results, or minimum-phase for a more “analog” sound.

### Precision Limiter

A single-band, look-ahead brick-wall limiter made primarily for use with program material. It is a colorless, transparent mastering limiter—no upsampling is used, nor does the Precision Limiter pass audio through any filters - audio remains untouched unless the compressor is working, in which case, only gain is affected.

- ◆ 100% attack within a 1.5ms look-ahead window, prevents clipping and guarantees zero overshoot performance.
- ◆ Comprehensive, high-resolution metering conforming to Bob Katz’s “K-system” metering specs allows you to see what is happening to audio with a great deal of accuracy, with simultaneous RMS and Peak metering and adjustable Peak Hold.

### Precision Maximizer

A dynamic impact processor that blends UA’s tube saturation and multi-band know-how into a versatile mix enhancement tool that injects loudness, punch and perceptible energy into a mix without destroying its dynamics.



- ◆ Maximizes mix volume with minimal gain or dynamic range change
- ◆ Enhances impact, warmth, energy and presence of a mix
- ◆ “Effect” controls perceive loudness while “Shape” contours harmonic content
- ◆ “Single” or “3-Band” select and “Limit”, allow advanced sonic control for the widest range of program material
- ◆ Input/Output controls with metering allow easy integration with other mastering plugs

### Precision De-Esser



A dynamic sibilance processor which seamlessly removes sibilance from individual audio tracks or even composite mixes via its intuitive interface and sophisticated yet transparent filter processing. This versatile mix enhancement tool injects loudness, punch and perceptible energy into a mix without destroying its dynamics.

- ◆ Dynamic Sibilance Processor for individual tracks, busses or master fader
- ◆ Modern band pass or traditional high pass de-essing for maximum flexibility
- ◆ Split mode minimizes unwanted artifacts such as darkening or lisping
- ◆ Dual-speed time constant and wide frequency range for vocals to overheads

### Precision Buss Compressor

A dual-VCA-type dynamic processor that yields modern, transparent gain reduction characteristics. It is designed to “glue”



mix elements together for a cohesive and polished sound typical of master section console compressors. Perfect for controlling the final output of your mix, it can be applied to a variety of sources from drum busses or overheads to vocal groups, or even as a channel compressor on individual track inserts. Controls include variable Threshold, Ratio, Attack and Release. The Release control includes a multi-stage Auto Release also designed for a wide variety of program material. Input and Output Gain control is offered with metering for input, output and gain reduction. A high pass Filter is offered to reduce the sensitivity of the compression to lower frequencies while retaining them in the output signal. An automatic Fade feature is included, which allows the user to set a custom fade-out or fade-in of the mix between 1 and 60 seconds long. Rounding out the feature set is a Mix control that allows the user to achieve “parallel” style dynamics control, without the need for a second buss or channel.

### UAD DSP FAMILY EQ Neve Plug-Ins

Built upon an exclusive collaboration between UA and Neve, the 1073 and 1081 classic console EQs, and 33609 stereo bus compressor / limiter plug-ins for UAD have been meticulously modeled for absolute sonic accuracy. SE versions of all three plug-ins offer DSP-optimized versions, allowing higher instance counts.

#### 1073 / 1073SE EQs

Originally designed by Neve in 1970, the Neve 1073 channel module is derived from revered Neve consoles such as the 8014. The 1073 is famous for adding otherwise unattainable sheen and clarity to music tracks. Modeling the 3-band EQ and high-pass filter with painstaking detail and thoroughness, Universal Audio's Neve 1073 EQ delivers the same sonic experience of its analog cousin with exacting detail. At no extra charge, the 1073 EQ includes a DSP optimized 1073SE EQ for high instance counts.



- ◆ Reversed 3-band "Wessex A88/8014" EQ
- ◆ High Shelving, Parametric Mid, Low Shelving & HPF
- ◆ Original RAF Cosmetics and Concentric Controls
- ◆ Most widely used EQ in popular music

#### 33609 / 33609SE Compressors



Derived from the original Neve 2254 compressor, circa 1969, the 33609 stereo bus compressor/limiter utilizes a bridged-diode gain reduction circuit and many custom

transformers. The uniquely musical character of this circuit made the 33609 a studio standard. This plug-in is the only Neve-sanctioned software recreation of the Neve 33609 (rev C). Every detail of the original unit is captured, and matches its hardware counterpart with absolute precision. The 33609 plug-in includes a DSP-optimized 33609SE which allows for higher instance counts.

- ◆ Auto-release settings offer program dependent qualities
- ◆ "Software-only" controls link, output gain, & headroom switch

#### 1081 / 1081SE EQs



The Neve 1081 channel module was first produced in 1972 by Neve, and was used to provide the mic/line

amp and EQ sections in consoles such as the Neve 8048. Vintage 8048 consoles, with 1081 modules, are still in wide use today- at classic facilities such as The Village in Los Angeles- and have been chosen by artists ranging from The Rolling Stones to The Red Hot Chili Peppers.

- ◆ 4-band 8048 console EQ
- ◆ High shelf, parametric high and low mid, low shelf and HP/LP
- ◆ Original RAF cosmetics and concentric controls
- ◆ Adjustable frequency high/low shelf, switchable to bell curve

#### Neve 88RS Channel Strip

Based on the 88 Series large-format analog console, that is considered one of the best-sounding consoles ever made by veterans of both the audio and film communities. The 88RS found a home in some of the finest rooms and scoring stages around the world, including Ocean Way, Abbey Road, AIR, The Village, Sony Pictures, 20th Century Fox and Skywalker Sound. With a rich palette of modern sound-sculpting tools, the Neve 88RS Channel Strip captures the EQ and dynamics section from Neve's flagship console.



- ◆ 12dB per octave high and low cut filters
- ◆ Highly flexible Limiter/Compressor Gate/Expander dynamics section
- ◆ Four-band parametric EQ with high and low shelf filters
- ◆ Ability to swap module order or to sidechain the EQ to the dynamics section

#### SPL Transient Designer



Universal Audio has partnered with Germany's Sound Performance Lab (SPL) to bring you the Transient Designer, a unique processing plug-in with Differential Envelope Technology for shaping the dynamic response of a sound. Two simple audio controls allow effortless reshaping of the attack and sustain characteristics. Transient Designer can be used in any number of applications to solve audio track problems: shorten or lengthen the attack and sustain of

percussive signals such as kick drum, snare or toms; easily take the bleed from open mics, or expand the room sound of overheads; amplify or reduce the picking sound of an acoustic guitar; hold the sound of strings longer, reduce the reverb time of a choir. Attack can be amplified or attenuated by up to 15dB while Sustain can be amplified or attenuated by up to 24dB. Lastly, Output allows quick gain matching with the unprocessed signal.

- ◆ Increase or decrease the transients of percussive sources for greater impact, or a softened response
- ◆ Sustain of sources can be transparently shortened or increased for greater musicality
- ◆ Reduces or increases room sound or preexisting reverb on virtually any source
- ◆ Highly useful as a gate substitute, a transparent tool for minimizing mic bleed
- ◆ Versatile mix tool endorsed by professional engineers

## UAD PACKAGES

	PCI & PCI-X			PCI Express				Express Card		
	Project Pak	Flexi Pak	Ultra Pak	Express Pak	Expert Pak	Extreme Pak	Nevana X2	Xpander Xpress	Xpander Xpert	Xpander Xtreme
<b>Compressor / Limiters</b>										
1176LN	—	—	✓	—	—	✓	—	—	—	✓
1176SE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fairchild 670	—	—	✓	—	—	✓	—	—	—	✓
LA-2A	—	—	✓	—	—	✓	—	—	—	✓
LA-3A	—	—	—	—	—	—	—	—	—	—
Neve 33609	—	—	—	—	—	✓	✓	—	—	✓
Precision Limiter	—	—	✓	—	—	✓	—	—	—	✓
Precision Multiband	—	—	—	—	—	✓	—	—	—	✓
<b>EQs</b>										
Cambridge EQ	—	—	✓	—	—	✓	—	—	—	✓
Helios Type 69 EQ	—	—	—	—	—	—	—	—	—	—
Neve 1073 EQ	—	—	—	—	—	✓	✓	—	—	✓
Neve 1081 EQ	—	—	—	—	—	✓	✓	—	—	✓
Precision EQ	—	—	✓	—	—	✓	—	—	—	✓
Pultec EQP-1A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pultec Pro	—	—	✓	—	—	✓	—	—	—	✓
<b>Reverbs</b>										
DreamVerb	—	—	✓	—	—	✓	—	—	—	✓
Plate 140	—	—	✓	—	—	✓	—	—	—	✓
RealVerb Pro	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Chorus</b>										
Boss CE-1	—	—	—	—	—	✓	—	—	—	✓
Roland Dimension D	—	—	—	—	—	✓	—	—	—	✓
<b>Channel Strips</b>										
CS-1 Plug-in Suite	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Neve 88RS	—	—	—	—	—	—	✓	—	—	—
<b>Special</b>										
Precision De-Esser	—	—	✓	—	—	—	—	—	—	—
Precision Maximizer	—	—	✓	—	—	—	—	—	—	—
<b>Delay</b>										
Roland RE-201	—	—	—	—	—	✓	—	—	—	✓
<b>Guitar</b>										
Nigel Plug-in Suite	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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## WAVES APA44-M • APA32

The APA44-M and APA32 are audio DSP accelerators that connect to your computer via ethernet, allowing you to offload Waves' more power-hungry plug-ins. The APA32 is a 1U rack-mount unit, while the APA44-M, a half-rack unit that features up to 30% more processing power and is ideal for mobile use. The APA system uses Waves' Netshell software, which is included in every new Waves bundle that contains Netshell-compatible plug-ins. An APA32 can run 6 IR-1 Reverbs, or 9 Linear Phase EQs, or 12 C4 Multiband Processors at 44.1 kHz. APA-compatible Waves plug-ins are the L3 Multi and L3 Ultra maximizers, IR-360, IR-1 and IR-L reverbs, Linear Phase Equalizer and Multiband, C4 Multiband Parametric Processor, Renaissance Reverb, Renaissance Channel, SoundShifter, Morphoder, TransX and Q-Clone. Both units include the Waves IR-L Convolution Reverb and Q-Clone plug-ins.

**APA44-M** (Mfr # NETSHELL APA 44M • B&H # WANSAPA44M).....**CALL**    **APA32** - (Mfr # NETSHELL APA 32 • B&H # WANSAPA32).....**CALL**