

# Touring & Install

## Hardware

EQ Station  
X024  
Reverb 4000  
Reverb 6000  
M 3000  
M-One XL  
D-Two  
C300  
C400XL  
M350

## Software

VSS3  
DVR2  
Master X3  
NonLin2  
MD3 Stereo Mastering



# The TC Heritage

TC Electronic was founded in 1976 with the objective of developing, designing and marketing first class audio products that provide lasting user value for audio professionals and musicians. TC users include some of the most demanding customers in pro audio, e.g. top artists, world class recording studios, the largest TV and radio stations, computer game developers, the most prominent theaters, operas and other installations and public address companies.

Over 80 percent of all sound processing today uses TC Electronic products in some way, shape or form. TC Electronic's position at the forefront of the industry for more than three decades is a result of our genuine passion for making the best audio products possible and some of our finest products are delivered to the touring and install circuit. From our EQ Station, Virtual EQ and MotoFader 64 to the XO 24 speaker management system TC Electronic helps shape the professional live circuit.

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# EQ Station – The Ultimate Live EQ

## The New Benchmark in Live EQ

More than a decade ago TC Electronic introduced the multi-awardwinning TC 1128/6032 EQ. It became the benchmark for digitally controlled Graphic EQs. Now TC Electronic provides a digital EQ using cutting edge 48 bit DSP processing and superb ADA conversion technology – the result is EQ Station, the next generation of EQ solutions for the most demanding live-sound applications.

## When Time and Control matter

With EQ Station's intuitive user interface you will be up and running within minutes! You no longer have to choose between ease of operation and a full set of features. The layout of the user interface is designed to fit the live sound requirement for instant access to all major control functions.



**EQ STATION**

## Features

▶ Superior QVGA color TFT display (320 x 240 pixel resolution) ▶ Separate views and bypassing for graphic, parametric and dynamic EQs ▶ Individual frequency, bandwidth and gain encoders ▶ Store/recall of settings (250 user presets) ▶ Linkable channels for stereo and in-ear monitor applications ▶ Takes up less rack space than most other solutions ▶ 4 channel analog (optional: upgrade to 8 channel digital AES) ▶ 8 channel analog (optional: upgrade to 8 channel digital AES) ▶ 8 channel digital AES

## Simultaneous Processing per Channel:

▶ 6 band parametric EQ ▶ 29 band graphic EQ with 4 different types of EQ ▶ 3 band dynamic EQ or 2 band paradyamic EQ  
▶ Delay (600ms) ▶ Peak limiter

## VirtualEQ Station PC Application

During sound check you have more time and freedom to get the job done. With a tablet PC or laptop, you'll have full access to all parameters and the freedom to remotely control the EQ Station from the stage to the stands, and everywhere in between. Standard TCP/IP network protocol – and even optional wireless LAN – is easily set up, and full two-way communication gives you the reliability and freedom you need.

## Easy and Instant Access with MotoFader 64

The 4U fader remote gives access to 64 channels of graphic EQ that are within instant reach and will respond immediately at the touch of a finger. With 29 motorized faders, a display that shows the channel name and number, combined with access-buttons for 64 channels of graphic EQs, it is a breeze to enter, monitor and adjust a large number of channels with the MotoFader 64.



VirtualEQ Station



MotoFader 64

# XO24 – GPS for Your Audio

## Improve your Audio in an Instant

The TC Electronic XO24 digital speaker management controller is a compact and powerful DSP based audio processing unit that will improve the quality of your audio. It's so easy to use that you'll be up and running in an instant and you'll always know where you are - it's GPS for your audio.

## Easy Access to Loads of Features

Ideally suited for fixed and live applications, the XO24 is loaded with features designed to optimize your loudspeaker system, all accessible via the "one-click" architecture of the front panel. Incorporating the unique routing engine, the XO24 can be configured as a 2-, 3- or 4-way speaker management system.

## EQ in, EQ out

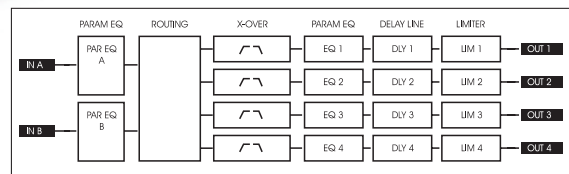
In addition each input offers a 4 band parametric EQ that can be used to compensate for the ill effects of poor room acoustics. Bands 1 and 4 can be set for a LF & HF shelving response. Four additional bands of parametric EQ can be found on each output as well, providing a precision tool for final speaker tuning.

## Renowned TC Quality

Limiting, independent delay lines and the flexibility of selecting infinitely variable x-overs on each channel are staple features, and behind it all lays renowned TC Electronic quality. Whether it's channel distribution, room equalization or speaker management, the XO24 combines the functions of multiple products in a 1 RU configuration.



The unique routing engine allows any input to be routed to any output allowing maximum flexibility of the XO24.



## Features

- ▶ Intuitive user interface based on signal-flow
- ▶ 4 band parametric EQ per input for room compensation
- ▶ Route any input to any output – 2 in, 4 out
- ▶ 2, 3, & 4-way crossover (Butterworth, Bessel and Linkwitz-Riley type filters) on all outs
- ▶ 4 band parametric EQ per output for speaker tuning
- ▶ Independent speaker alignment delay (200 ms per channel) on all outs
- ▶ Independent digital limiter on all outs
- ▶ Factory and user presets

# Reverb 4000 – The Offspring of a Giant!

## The Stereo Incarnation of System 6000

Reverb 4000 is the first new technology main stereo reverb in a decade. Its broad palette spans from new state-of-the-art reverbs to world-renowned classics, and includes the best stereo reverbs and presets from System 6000 and M5000.

## Studio Reverb Par Excellence

The quest for depth, localization, spaciousness and character is paramount when working with music. Reverb 4000 gives pro studios a definite reverb and spatial advantage and complements any large-scale mixing console. For the first time it is truly possible to process a composite stereo source or to render credible spaces onto two discrete sources.

## The Ease of Reverb – At the Venue

From the front panel you have instant access to key parameters – locating presets from System 6000, M5000 and vintage devices is a breeze with the dedicated search function. Never before has a main Reverb provided so many colors on the palette – switch between Character, Glory and Vintage Reverb effects at the push of a button.



Control the Reverb 4000 directly from the USB port of your Mac or PC with the included TC Icon software.

## Features

- ▶ True stereo reverbs from the System 6000 ▶ New pristine stereo reverb ▶ Favorite presets and algorithms from the M5000
- ▶ Realistic environments from a closet to a canyon ▶ VSS-4, source-based reverb providing rooms with character ▶ Classic reverbs providing polished sustain ▶ Vintage reverb emulations including EMT 250 ▶ Instant access user interface ▶ 44.1 to 96kHz sample rates and 24 bit processing ▶ One engine, massive SRAM, no compromise design ▶ Digital and analog wide dynamic range design
- ▶ PC/Mac ICON editor program included ▶ 24 bit AES/EBU, TOS-Link, S/PDIF, ADAT and Analog I/O

# Reverb 6000 – Halls of Fame

Containing the entire Reverb and Delay palette of TC Electronic, Reverb 6000 is a four engine monster for professional film and music production. It delivers the finest, wildest and most research-intensive spatial effects of the audio industry today. Reverb 6000 contains the entire family of award winning VSS reverbs for mono, stereo, LtRt, 5.1 and 6.1 formats, the best algorithms and presets from M3000 and M5000 plus unique Reverb 6000 preset banks such as Halls of Fame and the Skywalker Sound Collection. Presets can be further adjusted with numerous parameters to make them just the right fit for any sound image you may be working on.

As a part of a continuous and free upgrade path, new effect reverbs have recently been added, as well as wild delay and boundary effects for any format up to 6.1. Reverb 6000 even runs 16 independent mono Reverbs in real-time – your insurance of complete flexibility.

Reverb 6000 can be controlled from a TC Icon Remote, a Mac or PC. Network it, share it, automate it against time code, or use the automation built into a workstation.

## REVERB 6000



### Multichannel Reverb

This license includes everything from the Stereo Reverb license – plus all LtRt, Quad Mono, 5.1 and 6.1 reverb and delay algorithms from TC. It also gives access to SpacePan, and every reverb and delay preset in the machine, including the complete Halls of Fame bank and the Skywalker Sound Collection. Please refer to the Stereo Reverb section for a description of the Stereo Reverb license.



### Stereo reverb

The license includes the best stereo and dual source Reverbs and Delays from TC – for example VSS3, VSS4, Nonlinz and Reflector – plus access to hundreds of film and music presets, as well as the stereo section of Halls of Fame.



## Dual Effects Processor - Truly Flexible Reverbs and Effects

### Flexibility without Compromising Sound

Use the M•One XL to run two of the best sounding reverbs or other quality effects simultaneously. Individualize your sound with the vast number of possible settings. Bring new life to your mixes with TC's unique compressor and limiter algorithms. You can add incredible delays, wide chorus or enhance the details of your source material with the parametric equalizers.

### Reverbs Especially Suited for Live Applications

The XL reverb technology benefits from the TC reverb heritage and takes advantage of both complex early reflection patterns and dense Reverb decays in order to bring more natural reverbs to all applications.

### Ease of Use

M•One XL is incredibly easy to use. With the four set-up buttons, every function is just a few taps away. The factory presets can be edited quickly to achieve any desired outcome.



### Features

- ▶ Enhanced early reflections & reverb tails ▶ Astonishing reverb density ▶ Natural small rooms for ambience ▶ 25 incredible TC effects: XL reverbs, chorus, tremolo, pitch, delay, dynamics and more ▶ Dual Balanced I/O (XLR) ▶ Analog-style user interface
- ▶ Presets: 200 factory/100 user ▶ Dual-engine™ design ▶ 24 bit A/D-D/A converters ▶ 24 bit S/PDIF digital I/O, 44.1-48kHz
- ▶ 24 bit Internal processing

## M3000 – Reverberation Taken to a Higher Level

### Reverb with a Story to Tell

M3000 is a pristine, dual-engine reverberator and room simulator, and much more than just a sustain effect. It can tell stories. It lets you add room with a distinctive character. It lets you position a source in a room. Polished decay reverb is available as well, for the times where you haven't got more to say.

### VSS<sub>3</sub>™

The groundbreaking VSS<sub>3</sub>™ algorithm in M3000, with more than 20 man-years of development behind it, ensures ultimate realism, accurate early reflections, smooth decay and pitch accuracy. Furthermore, the technology has the ability to keep the signal 100% free of deteriorating modulation, yet still provides modulation as an option.



### Features

- ▶ VSS<sub>3</sub>™ / VSS<sub>3</sub>™ FP technology ▶ 600 high-grade factory presets: Halls, Rooms, Ambience, Plates, Springs, Post Small/Large, Post Indoor/ Outdoor and Post Specials ▶ Up to 300 User presets ▶ Intuitive user interface with instant preset recall ▶ compressor/expander, de-esser, chorus & flanger, tremolo, phaser, delay, pitch shift, parametric EQ ▶ 24 bit A/D – D/A converters
- ▶ AES/EBU, S/PDIF, Optical TOS-Link & ADAT digital I/O

**TEC**  
WINNER  
**M3000**  
STUDIO REVERB PROCESSOR

# D-Two – Multitap Rhythm Delay – The Best Delay Available!

## Delay Benchmark

When TC Electronic introduced the TC 2290, the Professional Audio Industry was given an exceptional tool for creating stunning delay effects. Since the introduction of the TC 2290, digital delay processors have been built on the same basic principle. With the introduction of the D-Two Rhythm Delay TC once again revolutionizes the concept of delay effects processing by adding the possibility of actually creating rhythm delay patterns. The Rhythm Delay feature makes the D-Two the most unique dedicated delay unit – ever!

## Rhythm Tap

TC introduces the truly musical Rhythm Tap feature: Not only tempo, but actual rhythm patterns can be tapped directly – or quantized according to a specific tempo and subdivision. The delays and rhythm patterns can be up to 10 seconds each. Control the exact number of repeats with Absolute Repeat Control.

## Six Unique Direct-Access Features

- ▶ **Spatial** – extra wide Delay
- ▶ **Ping-Pong** – Pick any of five patterns and set the relationship between Panning speed and Delay tempo
- ▶ **Reverse** – Reverse Delay
- ▶ **Dynamic** – Set Release Time and Threshold to let the Input signal control the level of Delay
- ▶ **Chorus – Or Flanger?** Hit one key and you have instantly added it to your Delay
- ▶ **Filter** – Increase filtering as repeats decay



## Features

- ▶ Multitap Rhythm Delay ▶ Absolute Repeat Control ▶ Up to 10 seconds of Delay ▶ Pingpong, Reverse & Dynamic delay ▶ Modulation, Filtering and Spatial post processing ▶ Presets: 50 Factory/100 User ▶ 24 bit A/D-D/A Converters ▶ 24 bit S/PDIF digital I/O, 44.1-48kHz ▶ TRS balanced 1/4" Jacks stereo I/O ▶ 24 bit Internal Processing



## C300 – Compression beyond limits

### Dual Stereo Gate/Compressor with the Sound of TC

C300 is a dual engine dynamics processor that gives you superior compression/limiting and gate/expansion. C300's new source-based architecture takes the drudgery out of compression and lets the box do the work for you in state-of-the-art TC quality with an extremely intuitive and straightforward user interface.

### New Style Compression

Based on parallel compression technology you get a completely new approach to working with compression. Take a compressed signal and mix it with a dry signal and enhance all details in the music.

### Optimized presets

The C300 gives you source-based presets that are tailor-made for various types of sources. Depending on the preset you select you have access to intelligent TC full-band- or multi-band technology.

The C300's multi-band processing is built on a state-of-the-art TC algorithm that bases its calculations on the incoming source, and that's why it's called source-based. A multi-band compressor, as opposed to a full band compressor, acts differently on different frequency bands. This means that each frequency band actually has its own little compressor working on it, with unique settings like threshold, ratio, attack and release. If you for instance prefer a steep compression on the lower frequencies, a soft compression on the mid frequencies, and a bright and light compression on the higher frequencies, you should use a multi-band compressor.

The C300 comes with several presets that are fully optimized for this kind of compression and you'll be surprised just how easy multi-band compression can be.



**C300**  
DUAL STEREO GATE | COMPRESSOR

### Features

Dual engine compressor or gate ▶ 16 source specific compression & gate presets ▶ Multi band compressor – for maximum transparency ▶ Precision gating – ultra fast and click free ▶ Brickwall limiting for peak stop and hot levels ▶ Instant operation – select preset and go! ▶ Digital S/PDIF I/O – for digital console connection ▶ Parallel compression – for that extra punch in your drumsound ▶ High resolution input and gain reduction metering ▶ True dual mono, stereo or serial operation

# C400XL – Source-based Gate | Compressor

## Crucial tasks faster

The C400XL is a supreme Dual Gate | Compressor specially designed for audio professionals on the road as well as in the studio. Combining award-winning multiband compression technology with an extremely fast and intuitive user interface as well as a super silent click free gate, the C400XL is made for the uncompromising sound engineer.

## Multiband dynamics technology

The C400XL uses advanced TC Electronic multiband dynamics technology to compress and adapt to any source - from vocals and percussion to guitars and even keyboards. The inherent transparency of the multiband compressor brings out the qualities of the source material, yet secures a firm and consistent level at all times. The optimized and super-fast gate offers a click free and high precision gating of any source.

## Three strikes and you're in

The C400XL stands out in three distinct areas that make it the ideal unit for demanding live and studio use. First there is the sound quality – this quality is ensured by source-based multiband compression and ultra fast gating. Another great aspect of the C400XL is its versatility – adapt to any source, analog or digital, decide on gate, compression or a combination, and C400XL is up for the task at hand. And finally there is the intuitive, fast use of C400XL – source-based compression, intuitive user interface and a mix knob for parallel compression makes for a fast, professional unit.

## Intuitive – yet advanced

C400XL features a TC Electronic exclusive 'Mix' knob allowing parallel compression without complicated routing schemes. The unique Parallel compression will lift hidden details in every vocal or drumkit track. To assure smooth operation, C400XL is equipped with high resolution input, gain reduction metering and threshold LED indication. Choose between true dual mono for superior channel separation, stereo or serial operation. C400XL features brickwall limiting for peak stop and hot levels prevention.

## Analog and digital connectors

C400XL is the ideal choice for parallel compression, gating and/or compressor applications. A C400XL channel transforms from multiband compressor to ultra fast gate and back at a flick of a switch. Gate and compressor functions can be serial or parallel at the choice of the engineer, thus allowing e.g. awesome combinations of compressor and gate on a snare drum giving that tight and snappy impact sound. Balanced Analog (XLR) and Digital AES/EBU (XLR) connectors make C400XL the perfect solution for any pro sound engineer looking for high-end compression/gates to complement his analog or digital setup.



## Features

- ▶ Balanced analog XLR ▶ Balanced digital (AES/EBU) ▶ Sourcebased Multiband compression ▶ 'Mix' knob for direct parallel compression ▶ Precision gating - ultra fast and click free ▶ De-essing ▶ Dual engine compressor or gate ▶ High resolution input and gain reduction metering ▶ Threshold LED indication ▶ True dual mono, stereo or serial operation ▶ Brickwall limiting for peak stop and hot levels ▶ Dual band expansion for non-percussive sources

# M350 – Depth & Perspective Redefined

## Reverbs & Effects with seamless DAW integration

With the VST compatible software editor, M350 offers seamless control and editing integration with your favorite DAW system. Through the included editor, parameters and preset recalls may be fully automated or real-time controlled at your convenience. In addition to the perfect studio fit, M350 features a front panel user interface that is optimized for speedy operation, giving you total and easy control during live performances. The effects combinations of the two engines are endless, and the dual input mode even allows individual input and utilization of the two effects engines.

## Hands-on design with helpful auto sensing

You have direct and easy access to all important parameters and a simple yet highly effective preset display gives you instant overview of your current selection. The M350 comes with TC quality converters and processing in 48 kHz 24-bit, and a digital auto sensing features ensures seamless integration with digital inputs, and there's even an internal auto sensing power supply that eradicates the need for clumsy wallwarts.



## 15 TC Quality Reverbs

- ▶ TC Classic Hall ▶ Cathedral ▶ Vocal Reverb Live Vocal ▶ Hall Acoustic ▶ Drum Ambience ▶ Drum Room ▶ Ambience ▶ Living Room ▶ Nearfield ▶ Damped Room ▶ Silver Plate ▶ Gold Plate ▶ Spring Vintage ▶ Live Stage

## Legendary TC Effects

- ▶ Comp ▶ Hard Comp ▶ De-Esser ▶ Smooth Chorus ▶ Lush Chorus ▶ Inst. Flanger ▶ Tremolo ▶ Vintage Phaser ▶ Smooth Phaser Delay ▶ Slapback ▶ Delay Pingpong ▶ Soft Delay ▶ Triplets Delay ▶ Studio Delay ▶ Dynamic Delay

## Features

- ▶ Full DAW integration through VST compatible editor ▶ 15 true and stunning stereo reverbs ▶ 15 legendary effects ▶ 5 seconds of delay ▶ 256 multi-effect/reverb presets + 99 user preset locations, a total of 355 presets ▶ Internal power supply – no wall-wart! ▶ Dual send/return & serial style setups ▶ Auto-sensing 24 bit S/PDIF digital I/O, 44.1-48kHz ▶ 24 bit A/D-D/A converters ▶ 24 bit internal processing ▶ Preset display ▶ Tap tempo ▶ MIDI In/Out ▶ MIDI clock tempo sync



With the included software editor, parameters and preset recalls may be fully automated or real-time controlled.

## VSS3 Stereo Source Reverb

SYSTEM 6000 ALGORITHM

96 kHz

OPTIONAL



POWERCORE PRO TOOLS | HD

VSS3 is the reverb that finally brought the effect out of the 1980's. The algorithm was researched and fine-tuned by TC engineers over a period of several years, and represents a true technology breakthrough. With its great sound, new possibilities and wide editing range, VSS3 has become an industry standard in demanding production, and can be heard on thousands of albums and films.

In this version, the algorithm takes Pro Tools | HD hardware to the limit to gain unprecedented control over image depth, localization and spatialization. Similar to the chaotic response of a natural room, the VSS3 is not causal, and you will soon appreciate the authentic feel it adds to a mix. When you become an addict, use several instances of VSS3 to create truly stunning sound images by taking advantage of source based processing on individual instruments and voices. Perfect imaging for your audio sources, perfect integration with Pro Tools.

## DVR2 Digital Vintage Reverb

SYSTEM 6000 ALGORITHM

96 kHz

OPTIONAL



POWERCORE PRO TOOLS | HD

DVR2 is a pristine legacy reverb with a true and genuine vintage flavor. It is extremely well-suited for mixes where the reverb itself cries out to be part of the mix.

DVR2 is the most precise EMT250 emulator to date, perfect for both studio and live use. It presents fine-tuned qualities of the original processor such as sweet modulation, spectral balance, spaciousness and saturation. It also emulates its predecessor in the way parameters interact for different settings.

Using the Vintage Reset function, your sound will be close to a well preserved EMT250. Engaging the High resolution parameters, you can lower the noise, extend the bandwidth, and exaggerate or back off the amount of chorusing.

## Master X3 – virtual finalizer™

DYNAMICS

96 kHz

INCLUDED\*



POWERCORE PRO TOOLS | HD

The knock out punch for any mixes or masters. MasterX3 is the virtual incarnation of the TC Electronic Finalizer™, the standard mastering processor in the pro audio field. MasterX3 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. High quality uncorrelated dithering is included as well.

\* Note: Available separately for Pro Tools HD

## NonLin2 Stereo Effects Reverb

SYSTEM 6000 ALGORITHM

96 kHz

OPTIONAL

NonLin2 is an effects reverb, which differs from the traditional natural sounding TC reverbs. NonLin2 is capable of generating compact vocal ambience, percussive and dramatic drum sounds, reverse reverbs and completely new “twisted” effects.

Featuring an amplitude envelope that is capable of rendering an untriggered gated reverb and a ‘twist’ parameter, which can radically alter the sound, this plug-in offers you a serious advantage over other gated reverbs.

The easy-to-tailor and compact room-feel that this reverb adds to any lead vocal will set your mixes apart. As a producer or studio engineer, you’ll be delighted by the creative power that this master tool delivers and it won’t be long before you wonder how you coped without it.



POWERCORE PRO TOOLS HD

## MD3 Stereo Mastering

SYSTEM 6000 ALGORITHM

96 kHz

OPTIONAL

The MD3 Stereo Mastering package includes two algorithms, MD3 Multiband Dynamics and BrickWall Limiter, and allows the PowerCore and TDM user to take advantage of multiband processing and precision limiting at its best. For stereo and single sources, this package brings professional production and mastering possibilities to the realm of DAWs, and integrates smoothly with serious music and film editing applications.

### MD3 Multiband Dynamics

MD3 is a high-end mastering tool that offers dual mono and stereo dynamics processing in three frequency bands. By offering a true side-chain split structure, MD3 is also capable of demanding mono material compression/limiting on two separate channels, not found in other multi-band dynamics processors. In fact, M and S components of a stereo signal can be processed separately and provide even more control making full use of the Spectral Stereo Enhancer.



POWERCORE PRO TOOLS HD

### Brickwall Limiter

BrickWall Limiter is a stereo/dual mono limiter with new features and technology. Today, clipping and maximizing in production and mastering are being exploited to an extent where most rock and pop releases generate early listening fatigue. Distortion is generated in CD players and data reduction codecs because of mediocre processing and level control. The BrickWall Limiter is designed to adapt to the signal, investigate if the signal will create downstream distortion problems – and to remove this hazard if so decided.



POWERCORE PRO TOOLS HD



8 channel balanced analog I/O on XLR connectors

Optional AES/EBU I/O on 25 pin D-Sub connector and word clock Input on BNC connector



Ethernet "Input" for PC-editor control. On Neutrik® EtherCon RJ45 connector

Ethernet "Output" passive HUB for network link of multiple EQ Stations. On Neutrik® EtherCon RJ45 connector

MIDI In, Out

Remote connection for Motofader on 9-Pin D-Sub connector

Power Input

<b>Analog Inputs and Outputs</b>		MotoFader-64 remote:	Custom serial interface (9-pin D-Sub connector)
Connectors:	XLR balanced (pin 2+, pin 3-)	<b>General</b>	
Input Impedance:	11/4 kOhm (Balanced/unbalanced)	Display:	Color TFT, QVGA 320x240 pixels
Output Impedance:	40/20 Ohm (Balanced/unbalanced)	Finish:	450 cd/m2 Luminance Anodized aluminum face and side plates
Max Input Level:	+15 to +30 dBu with analog domain scaling	Dimensions:	Plated and painted steel chassis 19" x 3.50" x 11" (483 mm x 89 mm x 274 mm)
Max Output Level:	+15 to +24 dBu with analog domain scaling	Weight:	11.95 lbs. (5.4 kg.)
Dynamic Range:	> 110 dB (unweighted), BW: 20-20 kHz	Mains voltage:	100 to 240 VAC, 50 to 60 Hz (auto-select)
THD:	< -100 dB @ BW: 20-20 kHz	Power consumption:	< 45W
Frequency Response, +0/-0.1 dB:	12 Hz - 20 kHz	<b>EMC</b>	
Crosstalk:	< -110 dB, 20 Hz to 20 kHz	Complies with:	EN 55103-1 and EN 55103-2 FCC part 15, Class B CISPR 22, Class B
AD and DA Conversion:	24 bit (Dual bit delta sigma sampling at 6.1 MHz)	<b>Safety</b>	
AD and DA + Processing Delay Total:		Certified to:	IEC 60065, EN 60065, UL 6500 and CSA E65 (CSA File#LR108093)
<b>DSP</b>	1.54 ms	<b>Environment</b>	
Internal sample rate:		Operating/Storage Temperature:	0° C to 50° C ( 32° F to 122° F)
Internal processing:	48 kHz, high performance low jitter clock circuit	Humidity:	-30° C to 70° C (-22° F to 167° F)
DSP power:	Routing and processing 48 bit fixed point throughout 600 Million Instructions Per Second	Warranty Parts and Labor:	Max. 90% non-condensing 1 year
<b>Control Interface</b>			
Ethernet:	10/100 Mbits/s, Base-T (RJ45 XLR-housed EtherCon connector)		
Ethernet passive HUB for network:	10/100 Mbits/s, Base-T (RJ45 XLR-housed EtherCon connector)		
MIDI:	In/Out (5-pin DIN connector)		



Balanced Inputs on XLR for channels A/B. Use channel A for mono Input.

Balanced Outputs 1-4 on XLR.

Digital S/PDIF In and Thru on RCA phono.

Com port for data transfer. NO user application.

Power Input. The internal switchmode powersupply accepts from 100 to 240 VAC.

<b>Inputs</b>		<b>Other</b>	
Connectors	3 pin XLR (pin 2 hot)	EMC	EN-55103-1 and EN 55103-2, FCC part 15, Class B, CISPR 22, Class B
Impedance	Balanced: 21 kOhm, Unbalanced: > 10 kOhm	Safety	IEC 60065, EN 60065, UL6500, and CSA E60065 CSA File#108093
Max. Input Level	24 dBu	<b>Environment</b>	
Sensitivity Range @ full scale	0 dBu to 24 dBu	Operating Temperature	32 F to 122 F (0 C to 50 C)
<b>Outputs</b>		Storage Temperature	-22 F to 167 F (-30 C to 70 C)
Connectors	3 pin XLR (pin 2 hot)	Humidity	Max 90% non-condensing
Impedance	40 Ohm	<b>Control Interface</b>	
Max. Output Level	Balanced: 20 dBu / Unbalanced: 14 dBu	Finish	Anodized aluminum front. Plated and painted steel chassis
Output Ranges	Balanced: 20/14/8/2 dBu / Unbalanced: 14/8/2 dBu	Display Dimensions	2x16 character back light LCD
Max. Load	1200 Ohm @ Output Level > 14 dBu, 600 Ohm @ Output local < 14 dBu	Mains Voltage	100 to 240 VAC, 50 to 60 Hz (auto-select)
<b>Performance</b>		Power Consumption	< 15W
Conversion	24 bit (1 bit, 128 times oversampling)	Warranty	1 year warranty
Conversion Delay alone	1.38 ms		
Dynamic Range (#)	Typ. > 102 dB, 20 Hz – 20 kHz		
THD	Typ. < -90 dB (0.0032%) @ 1 kHz, BW: 20 - 20 kHz		
Frequency Response	20Hz to 20kHz: +0/-0.7 dB		
Crosstalk	Typ. < -95 dB, BW: 20 - 20 kHz		



REVERB4000



Power Input 100 - 240V Power Switch

Balanced Analog Inputs XLR

Balanced Analog Outputs XLR

Optical ADAT & TosLink

Word-Clock RCA

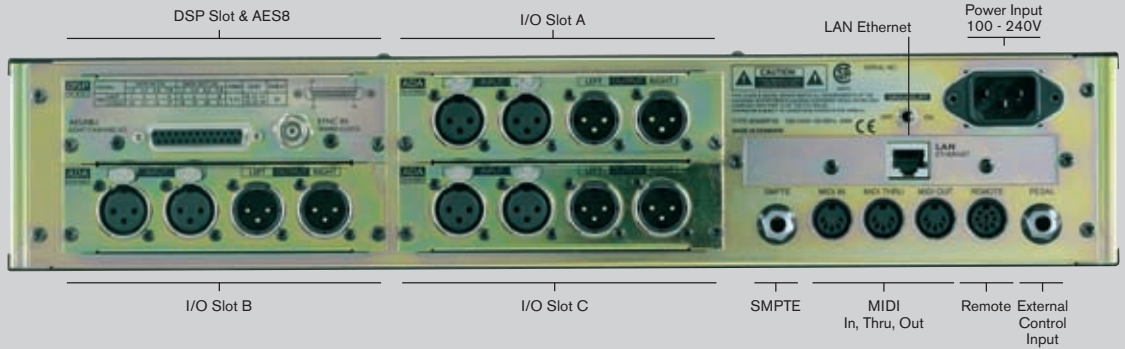
AES/EBU Input/Output

S/PDIF Input/Output

MIDI In/Out/Thru

USB

<b>Digital Inputs and Outputs</b>		Dynamic Range:	>+100 dB (unweighted, BW = 22KHz), >+104 dB(A)
Connectors:	XLR (AES/EBU) RCA Phono (S/PDIF) Optical (Tos-link, ADAT)	THD:	-82 dB (0.008 %) @ 1 kHz, -6 dBFS (FS @ +16 dBu)
Formats:	AES/EBU (24 bit), S/PDIF (24 bit), EIAJ CP-340, IEC 958, EIAJ Optical (Tos-link), ADAT Lite pipe (24 bit)	Frequency Response:	10 Hz to 20 kHz : +0/-0.5 dB @ 48 kHz 10 Hz to 45 kHz : +0/-3 dB @ 96 kHz
Output Dither:	HPF/TPDF dither 8-20 bit, independent dithered Output	Crosstalk:	<-60 dB, 10 Hz to 20 kHz typical -90 dB @ 1 kHz
Word Clock Input:	RCA Phono, 75 Ohm, 0.6 to 10 Vpp	<b>EMC</b>	
Sample Rates:	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz	Complies with:	EN 55103-1 and EN 55103-2 FCC part 15, Class B CISPR 22, Class B
Processing Delay:	0.2 ms @ 48 kHz	<b>Safety</b>	
Frequency Response DIO:	DC to 23.9 kHz ± 0.01 dB @ 48 kHz DC to 47.9 kHz ± 0.01 dB @ 96 kHz	Certified to:	IEC 60065, EN 60065, UL 6500 and CSA E65 CSA File#LR108093
<b>Analog Inputs</b>		<b>Environment</b>	
Connectors:	XLR balanced (pin 2 hot)	Operating Temperature:	32° F to 122° F (0° C to 50° C)
Impedance:	20 kOhm	Storage Temperature:	-22° F to 167° F (-30° C to 70° C)
Max. Input Level:	+22 dBu (balanced)	Humidity:	Max. 90 % non-condensing
Min. Input Level (for 0 dBFS):	-10 dBu	<b>PCMCIA Interface</b>	
Sensitivity:	@ 12 dB headroom: -22 dBu to +10 dBu	Connector:	PC Card, 68 pin type 1 cards
A to D Conversion:	24 bit (6.144 MHz delta sigma @ 48/96 kHz)	Standards:	PCMCIA 2.0, JEIDA 4.0
A to D Delay:	0.8 ms @ 48 kHz, 0.4 ms @ 96 kHz.	Card Format:	Supports up to 2 MB SRAM
Dynamic Range:	>103 dB (unweighted, BW = 22 kHz), >106 dB(A)	<b>Control Interface</b>	
THD:	-95 dB (0.0018 %) @ 1 kHz, -6 dBFS (FS @ +16 dBu)	MIDI:	In/Out/Thru: 5 Pin DIN
Frequency Response:	10 Hz to 20 kHz : +0/-0.2 dB @ 48 kHz 10 Hz to 45 kHz : +0/-1 dB @ 96 kHz	GPI, Pedal, Fader:	1/4" phone jack
Crosstalk:	<-80 dB, 10 Hz to 20 kHz typical -100 dB @ 1 kHz	<b>General</b>	
<b>Analog Outputs</b>		Finish:	Anodized aluminum front Plated and painted steel chassis
Connectors:	XLR balanced (pin 2 hot)	Display:	56 x 128 dot graphic LCD
Impedance:	100 Ohm (active transformer)	Dimensions:	19" x 1.75" x 8.2" (483 x 44 x 208 mm)
Max. Output Level:	+22 dBu (balanced)	Weight:	5.2 lb. (2.35 kg)
Full Scale Output Range:	-10 dBu to +22 dBu	Mains Voltage:	100 to 240 VAC, 50 to 60 Hz (auto-select)
D to A Conversion:	24 bit (6.144 MHz delta sigma @ 48/96 kHz)	Power Consumption:	<20 W
D to A Delay:	0.57 ms @ 48 kHz, 0.28 ms @ 96 kHz	Backup Battery Life:	>10 years
		Warranty parts and labor:	1 year



<b>Digital Inputs and Outputs</b>		Frequency Response DIO:	DC to 23.9 kHz +- 0.01 dB @ 48 kHz, DC to 47.9 kHz +- 0.01 dB @ 96 kHz
Connectors:	D-SUB, 25 pole (8 channels AES/EBU I/Out)	<b>PCMCIA Interface</b>	
Formats:	AES/EBU (24 bit)	Connector:	PC Card, 68 pin type 1 cards
Word Clock Input:	BNC, 75 Ohm or Hi-Z, 0.6 to 10 Vpp	Standards:	PCMCIA 2.0, JEIDA 4.0
Internal Sample Rate:	96 kHz, 88.2 kHz, 48.0 kHz, 44.1 kHz	Floppy Drive:	DOS compatible, 3 1/2", 1.44 Mb
Internal Clock Precision:	+/- 30 ppm	<b>Control Interface</b>	
Jitterrejection at External		MIDI:	In/Out/Thru: 5 Pin DIN
Sample Rates:	30 to 34 kHz, 42.5 to 45.5 kHz, 46.5 to 48.5 kHz, 85 to 91 kHz and 93 to 97 kHz	GPIO, Pedal, Fader:	Phone jack, 0 Ohm to 50 kOhm
Rejection Filter (4th order):	< -3 dB @ 50 Hz < -65 dB @ 500 Hz < -100 dB @ 1.4 kHz	Remote:	Custom MIDI In & Out
Rejection Filter Peak (jitter gain):	< 1 dB @ 2 Hz	SMPTE:	Input for Cuelist Management
Intrinsic Interface Jitter:	< 1 ns peak, BW : 700 Hz to 100 kHz	Ethernet:	10/100 Mbits/s, Base-T
Digital Output Phase:	< 3 % of sample period	<b>General</b>	
Input variation before		Dimensions:	3 1/2 x 19 x 12 inches
Sample Slip:	+27 % / -73 % of sample period	Weight:	19 lbs. (8.6 kg)
Output Dither:	HPF/TPDF dither 8-24 bit, mono, stereo, inverted	Mains Voltage:	100 to 240 VAC, 50 to 60 Hz (auto-select)
Processing Delay:	0.15 ms + 0.21 ms per engine @ 48 kHz, 0.07 ms + 0.1 ms per engine @ 96 kHz	Power Consumption:	45 watts
		Warranty parts and Labor:	1 year



**ADA 24/96 Analog I/O**

<b>Analog Input</b>		Impedance Balance:	> 60 dB, @ 20-20kHz
Connectors:	XLR balanced (pin 2+, pin 3-)	Signal Balance:	> 40 dB, @ 20-20kHz
Impedance:	10/3 kohm (Balanced/unbalanced):	Selectable Full Scale Output level:	6/0, 12/6, 18/12, 24/18 dBu (Balanced/unbalanced)
Selectable Full Scale Input level:	6, 12, 18, 24, 30 dBu	Dynamic Range (A-Out: 18, 24 dBu):	> 113 dB (unweighted), BW: 20-20kHz
Dynamic Range (A-In: 12, 18, 24, 30 dBu):	> 113 dB (unweighted), BW: 20-20kHz	THD+N:	< -95 dB @ 1 kHz, -3 dBFS
THD+N:	< -105 dB @ 1 kHz, -3 dBFS	Frequency Response, (*with linear filter):	Input Sample Rate: @32 kHz @44.1 kHz @48 kHz @96 kHz
Frequency Response, (*with linear filter):	Output Sample Rate: @32 kHz @44.1 kHz @48 kHz @96 kHz	+0/-0.3 dB:	4.6 Hz - 14.8 kHz 4.6 Hz - 19 kHz 4.6 Hz - 19 kHz 4.6 Hz - 19 kHz
+0/-0.1 dB:	1.2 Hz - 14.8 kHz 1.2 Hz - 19.9 kHz 1.2 Hz - 20.3 kHz 1.2 Hz - 44.4 kHz	+0/-3 dB:	0.7 Hz - 15.6 kHz 0.7 Hz - 20.5 kHz 0.7 Hz - 21.2 kHz 0.7 Hz - 44 kHz
+0/-3 dB:	0.2 Hz - 15.6 kHz 0.2 Hz - 20.6 kHz 0.2 Hz - 21.2 kHz 0.2 Hz - 46.8 kHz	Crosstalk:	< -110 dB, 20 Hz to 20 kHz
Crosstalk:	< -120 dB, 20 Hz to 20 kHz	D to A Conversion:	24 bit (Multi-bit delta sigma sampling at 4.1/5.6/6.1/6.1 MHz)
CMRR (A-In: 24 dBu, Rs: 2 x 20 ohm):	> 80 dB @ 50/60 Hz & > 90 dB @ 1 kHz	<b>Selectable Sample Conversion Filters</b>	
A to D Conversion:	24 bit (Dual bit delta sigma sampling at 4.1/5.6/6.1/6.1 MHz)	In/Out Sample Rate 32/96 kHz:	Fixed filter
<b>Analog Output</b>		In/Out Sample Rate 44.1/48 kHz:	Filter choices: Linear, Natural, Vintage, Bright & Standard
Connectors:	XLR balanced (pin 2+, pin 3-)		
Impedance:	40/20 ohm (Balanced/unbalanced)		



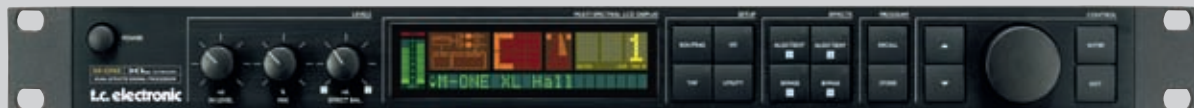
**M3000**  
STUDIO REVERB PROCESSOR



Main Power Switch    Power Input 100 - 240V    Balanced XLR Analog Inputs    Balanced XLR Analog Outputs    Digital In/Out ADAT Tos-link    Word-clock RCA    Digital In/Out AES/EBU S/PDIF    MIDI In,Thru,Out    External Control Input

<b>Digital Inputs and Outputs</b>			
Connectors:	XLR (AES/EBU), RCA Phono (S/PDIF) Optical (Toslink, ADAT)	Dynamic Range:	>100 dB (unweighted), >104 dB(A)
Formats:	AES/EBU (24 bit), S/PDIF (20 bit), EIAJ CP-340, IEC 958, EIAJ Optical (Toslink), ADAT Lite pipe	THD:	-86 dB (0.005%) @ 1 kHz, -6 dBFS (FS @ +16 dBu)
Output Dither:	HPF/TPDF dither 8-24 bit	Frequency Response:	10 Hz to 20 kHz: +0/-0.5 dB
Word Clock Input:	RCA Phono, 75 Ohm, 0.6 to 10 Vpp	Crosstalk:	<-60 dB, 10 Hz to 20 kHz typical -90 dB @ 1 kHz
Sample Rates:	44.1 kHz, 48 kHz	<b>EMC</b>	
Processing Delay:	0.2 ms @ 48 kHz	Complies with:	EN 55103-1 and EN 55103-2, FCC part 15, Class B, CISPR 22, Class B
Frequency Response DIO:	20 Hz to 23.9 kHz +0,01/-0,1 dB @ 48 kHz	Safety	
<b>Analog Inputs</b>		Certified to:	IEC 65, EN 60065, UL 1419, CSA E65
Connectors:	XLR balanced (pin 2 hot)	<b>Environment</b>	
Impedance:	20 kOhm	Operating Temperature:	32° F to 122° F (0° C to 50° C)
Max. Input Level:	+22 dBu (balanced)	Storage Temperature:	-22° F to 167° F (-30° C to 70° C)
Min. Input Level (for 0 dBFS):	-10 dBu	Humidity:	Max. 90% non-condensing
Sensitivity:	@ 12 dB headroom: -22 dBu to +10 dBu	<b>PCMCIA Interface</b>	
A to D Conversion:	24 bit (1 bit, 128 times oversampling)	Connector:	PC card, 68 pin type 1 cards
A to D Delay:	0.8 ms @ 48 kHz	Standards:	PCMCIA 2.0, JEIDA 4.0
Dynamic Range:	>103 dB (unweighted), >106 dB (A)	Card Format:	Supports up to 2 MB SRAM
THD:	-95 dB (0.0018 %) @ 1kHz, -6 dBFS (FS @ +16 dBu)	<b>Control Interface</b>	
Frequency Response:	10 Hz to 20 kHz: +0/-0.2 dB	MIDI:	In/Out/Thru: 5 Pin DIN
Crosstalk:	<-80 dB, 10 Hz to 20 kHz typical -100 dB @ 1 kHz	GPI, Pedal, Fader:	1/4" phone jack, 0 Ohm to 50 kOhm
<b>Analog Outputs</b>		<b>General</b>	
Connectors:	XLR balanced (pin 2 hot)	Finish:	Anodized aluminum front. Plated & painted steel chassis.
Impedance:	100 Ohm (active transformer)	Dimensions:	19" x 1.75" x 8.2" (483 x 44 x 208 mm)
Max. Output Level:	+22 dBu (balanced)	Weight:	5.2 lb. (2.35 kg)
Full Scale Output Range:	-10 dBu to +22 dBu	Mains Voltage:	100 to 240 VAC, 50 to 60 Hz (auto-select)
D to A Conversion:	24 bit (1 bit, 128 times oversampling)	Power Consumption:	<20W
D to A Delay:	0.57 ms @ 48 kHz	Backup Battery Life:	>10 years
		Warranty Parts and labor:	1 year

**M-ONE XL**  
DUAL EFFECTS SIGNAL PROCESSOR



Balanced XLR Analog Inputs    Balanced XLR Analog Outputs    Digital S/PDIF Input/Output    MIDI In, Thru, Out    External Control Input for Bypass    Power Input 100 - 240V

<b>Digital Inputs and Outputs</b>			
Connectors:	RCA Phono (S/PDIF)	Max. Output Level:	+20 dBu (balanced)
Formats:	S/PDIF (24 bit), EIAJ CP-340, IEC 958	Output Ranges:	Balanced: 20/14/8/2 dBu / Unbalanced: 14/8/2 dBu
Output Dither:	HPF/TPDF dither 24/20/16/8 bit	D to A Conversion:	24 bit, 128 x oversampling bitstream
Sample Rates:	44.1 kHz, 48 kHz	D to A Delay:	0.63 ms / 0.68 ms @ 48 kHz / 44.1 kHz
Processing Delay:	0.1 ms @ 48 kHz	Dynamic Range:	104 dB typ, 20 Hz to 20 kHz
Frequency Response DIO:	DC to 23.9 kHz ± 0.01 dB @ 48 kHz	THD:	typ <-94 dB (0.002 %) @ 1 kHz, +20 dBu Output
<b>Analog Inputs</b>		Crosstalk:	+0/-0.5 dB @ 48 kHz, 20 Hz to 20 kHz
Connectors:	XLR, balanced	<b>Control Interface</b>	
Impedance:	40 Ohm	MIDI:	In/Out/Thru: 5 Pin DIN
Max. Input Level:	+20 dBu (balanced)	Pedal:	1/4" phone jack
Min. Input Level (for 0 dBFS):	Balanced: 20/14/8/2 dBu	<b>General</b>	
Sensitivity:	Unbalanced: 14/8/2 dBu	Finish:	Anodized aluminum front. Plated & painted steel chassis
A to D Conversion:	24 bit, 128 x oversampling bitstream	Display:	23 character / 280 icon STN-LCD display
A to D Delay:	0.63 ms / 0.68 ms @ 48 kHz / 44.1 kHz	Dimensions:	19" x 1.75" x 8.2" (483 x 44 x 195 mm)
Dynamic Range:	104 dB typ, 20 Hz to 20 kHz	Weight:	4.1 lb. (1.85 kg)
THD:	typ <-94 dB (0.002 %) @ 1 kHz, +20 dBu Output	Mains Voltage:	100 to 240 VAC, 50 to 60 Hz (auto-select)
Frequency Response:	+0/-0.5 dB @ 48 kHz, 20 Hz to 20 kHz	Power Consumption:	<15 W
Crosstalk:	<-100 dB, 20 Hz to 20 kHz	Warranty Parts and labor:	1 year
<b>Analog Outputs</b>			
Connectors:	XLR balanced (pin 2 hot)		
Impedance:	40 Ohm		



**D•TWO**



TRS Balanced Jack Analog Inputs    TRS Balanced Jack Analog Outputs    Digital S/PDIF Input/Output    MIDI In, Thru, Out    External Control Input    Power Input 100 - 240V

<b>Digital Inputs and Outputs</b>		D to A Delay:	0.63 ms / 0.68 ms @ 48 kHz / 44.1 kHz
Connectors:	RCA Phono (S/PDIF)	Dynamic Range:	104 dB typ, 20 Hz to 20 kHz
Formats:	S/PDIF (24 bit), EIAJ CP-340, IEC 958	THD:	typ <-94 dB (0.002 %) @ 1 kHz, +20 dBu Output
Output Dither:	HPF/TPDF dither 24/20/16/8 bit	Frequency Response:	+0/-0.5 dB @ 48 kHz, 20 Hz to 20 kHz
Sample Rates:	44.1 kHz, 48 kHz	Crosstalk:	<-100 dB, 20 Hz to 20 kHz
Processing Delay:	0.1 ms @ 48 kHz	<b>EMC</b>	
Frequency Response DIO:	DC to 23.9 kHz ± 0.01 dB @ 48 kHz	Complies with:	EN 55103-1 and EN 55103-2 FCC part 15, Class B, CISPR 22, Class B
<b>Analog Inputs</b>		<b>Safety</b>	
Connectors:	1/4" phone jack, balanced	Certified to:	IEC 65, EN 60065, UL6500 and CSA E65
Impedance, Bal / Unbal:	21 kOhm / 13 kOhm	<b>Environment</b>	
Max. Input Level:	+24 dBu	Operating Temperature:	32° F to 122° F (0° C to 50° C)
Min. Input Level for 0 dBFS:	0 dBu	Storage Temperature:	-22° F to 167° F (-30° C to 70° C)
Sensitivity:	@ 12 dB headroom: -12 dBu to +12 dBu	Humidity:	Max. 90 % non-condensing
A to D Conversion:	24 bit, 128 x oversampling bitstream	<b>Control Interface</b>	
A to D Delay:	0.65 ms / 0.70 ms @ 48 kHz / 44.1 kHz	MIDI:	In/Out/Thru: 5 Pin DIN
Dynamic Range:	100 dB typ, 20 Hz - 20 kHz	Pedal:	1/4" phone jack
THD:	typ <-92 dB (0.0025 %) @ 1 kHz	<b>General</b>	
Frequency Response:	+0/-0.1 dB @ 48 kHz, 20 Hz to 20 kHz	Finish:	Anodized aluminum front Plated and painted steel chassis
Crosstalk:	<-95 dB, 20 Hz to 20 kHz	Display	23 character / 280 icon STN-LCD display
<b>Analog Outputs</b>		Dimensions:	19" x 1.75" x 8.2" (483 x 44 x 195 mm)
Connectors:	1/4" phone jack, balanced	Weight:	4.1 lb. (1.85 kg)
Impedance Balanced / Unbalanced:	40 Ohm	Mains Voltage:	100 to 240 VAC, 50 to 60 Hz (auto-select)
Max. Output Level:	+20 dBu (balanced)	Power Consumption:	<15 W
Output Ranges:	Balanced: 20/14/8/2 dBu Unbalanced: 14/8/2 dBu	Warranty Parts and labor:	1 year
D to A Conversion:	24 bit, 128 x oversampling bitstream		



**C300**  
DUAL STEREO GATE | COMPRESSOR



Routing modes    INPUTS 1/4" phone jack bal. / unbal.    OUTPUTS 1/4" phone jack bal. / unbal.    Digital I/O S/PDIF RCA phono    MIDI I/O    Power input. The internal switchmode power supply accepts from 100 to 240 VAC

<b>Digital Input and Output</b>		Dynamic Range:	typ <-110 dB typ, 22 Hz to 22 kHz
Connector:	RCA Phono (S/PDIF)	THD:	typ <-94 dB (0.002 %) @ 1 kHz, +21 dBu+0/-0.1
Formats:	S/PDIF (24 bit), EIAJ CP-340, IEC 958	Frequency Response:	dB, 20 Hz to 20 kHz
Sample Rates:	48 kHz, (44.1 kHz only @ Digital Input)	Crosstalk:	typ <-100 dB, 20 Hz to 20 kHz
Processing Delay:	0.08 ms @ 48 kHz	<b>Environment</b>	
Frequency Response DIO:	DC to 23.9 kHz ± 0.01 dB @ 48 kHz	Operating Temperature:	32° F to 122° F (0° C to 50° C)
<b>Analog Inputs</b>		Storage Temperature:	-22° F to 167° F (-30° C to 70° C)
Connectors:	1/4" phone jack balanced/unbalanced.	Humidity:	Max. 90 % non-condensing
Impedance, Bal / Unbal:	20 kOhm / 11 kOhm	<b>Control Interface</b>	
Max. Input Level @ 0 dBFS:	+21 dBu	MIDI:	In/Out: 5 Pin DIN
A to D Conversion:	24 bit, 128 x oversampling bitstream	<b>General</b>	
A to D Delay:	0.9 ms @ 48 kHz	Finish:	Anodized aluminum front Plated and coated steel chassis
Dynamic Range:	Typ <-110 dB, 22 Hz to 22 kHz	Meter:	2 x 6 LED's in each channel
THD:	Typ <-102 dB (0.0008 %) @ 1 kHz, -1 dBFS	Dimensions:	19" x 1.75" x 4.2" (483 x 44 x 105.6 mm)
Frequency Response:	+0/-0.1 dB, 20 Hz to 20 kHz	Weight:	3.3 lb. (1.5 kg)
Crosstalk:	Typ <-115 dB, 20 Hz to 20 kHz	Mains Voltage:	100 to 240 VAC, 50 to 60 Hz (auto-select)
<b>Analog Outputs</b>		Power Consumption:	<15 W
Connectors:	1/4" phone jack bal. / unbal. Ground sensing design.	Warranty parts and Labor:	1 year
Impedance :	35 Ohm		
Max. Output Level:	+21 dBu		
D to A Conversion:	24 bit, 128 x oversampling bitstream		
D to A Delay:	0.58 ms @ 48 kHz		

**M350**  
EFFECT | REVERB PROCESSOR



Routing modes    INPUTS 1/4" phone jack bal. / unbal.    OUTPUTS 1/4" phone jack bal. / unbal.    Digital I/O S/PDIF RCA phono    MIDI I/O    Pedal Input    Power input. The internal switchmode power supply accepts from 100 to 240 VAC

<b>Digital Input and Output</b> Connector: RCA Phono (S/PDIF) Formats: S/PDIF (24 bit), EIAJ CP-340, IEC 958 Sample Rates: 44.1 kHz. (48 kHz only @ Digital Input) Processing Delay: 0.08 ms @ 48 kHz Frequency Response DIO: DC to 23.9 kHz ± 0.01 dB @ 48 kHz		<b>EMC</b> Complies with: EN 55103-1 and EN 55103-2 FCC part 15, Class B, CISPR 22, Class B	
<b>Analog Inputs</b> Connectors: 1/4" phone jack, mono sense Impedance, Bal / Unbal: 21 kOhm / 13 kOhm Max./Min. Input Level @ 0 dBFS: +24 dBu / 0 dBu Sensitivity Range @ 12 dB headroom: -12 dBu to +12 dBu A to D Conversion: 24 bit, 128 x oversampling bitstream A to D Delay: 0.70 ms / 0.65 ms @ 44.1 kHz / 48 kHz Dynamic Range: typ < -92 dB, 22 Hz to 22 kHz THD: typ < -90 dB (0.0032 %) @ 1 kHz, -1 dBFS Frequency Response: +0/-0.1 dB, 20 Hz to 20 kHz Crosstalk: typ < -100 dB, 20 Hz to 20 kHz		<b>Safety</b> Certified to: IEC 65, EN 60065, UL6500 and CSA E60065, CSA FILE #LR108093	
<b>Analog Outputs</b> Connectors: 1/4" phone jack Impedance Bal / Unbal: 40 Ohm / 20 Ohm Max. Output Level: +14 dBu D to A Conversion: 24 bit, 128 x oversampling bitstream D to A Delay: 0.68 ms / 0.63 ms @ 44.1 kHz / 48 kHz Dynamic Range: typ < -105 dB typ, 22 Hz to 22 kHz THD: typ < -97 dB (0.0014 %) @ 1 kHz, +13 dBu Frequency Response: +0/-0.5 dB, 20 Hz to 20 kHz Crosstalk: typ < -100 dB, 20 Hz to 20 kHz		<b>Environment</b> Operating Temperature: 32° F to 122° F (0° C to 50° C) Storage Temperature: -22° F to 167° F (-30° C to 70° C) Humidity: Max. 90 % non-condensing	
		<b>Control Interface</b> MIDI: In/Out: 5 Pin DIN Pedal: 1/4" phone jack	
		<b>General</b> Finish: Anodized aluminum front Plated and painted steel chassis	
		Display: 2 x 7 segment + LED's Dimensions: 19" x 1.75" x 4.2" (483 x 44 x 105.6 mm) Weight: 3.3 lb. (1.5 kg) Mains Voltage: 100 to 240 VAC, 50 to 60 Hz (auto-select) Power Consumption: <15 W Warranty Parts and labor: 1 year	

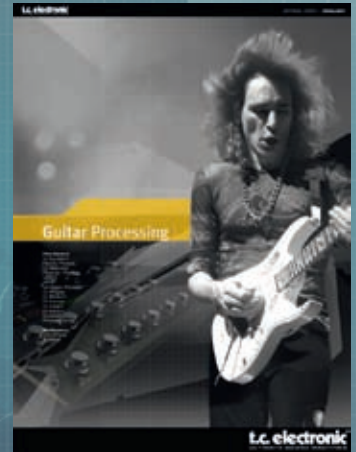
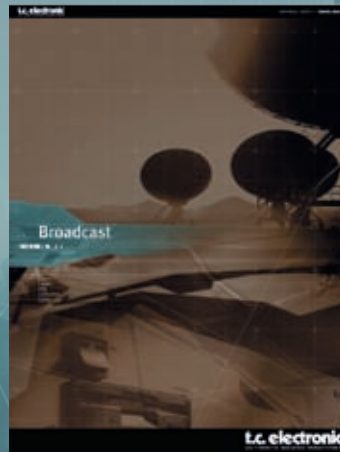


Routing modes    Balanced XLR Analog Inputs    Balanced XLR Analog Outputs    Digital In/Out AES/EBU    MIDI I/O    Power input. The internal switchmode power supply accepts from 100 to 240 VAC

**C400XL**  
DUAL STEREO GATE COMPRESSOR

<b>Digital Input and Output</b> Connector: XLR (AES/EBU) Formats: AES/EBU (24bit) Sample Rates: 48 kHz. (44.1 kHz only @ Digital Input) Processing Delay: 0.08 ms @ 48 kHz Frequency Response DIO: DC to 23.9 kHz ± 0.01 dB @ 48 kHz		Dynamic Range: typ < -110 dB typ, 22 Hz to 22 kHz THD: typ < -94 dB (0.002 %) @ 1 kHz, +21 dBu+0/-0.1 dB, 20 Hz to 20 kHz Frequency Response: Hz to 20 kHz Crosstalk: typ < -100 dB, 20 Hz to 20 kHz	
<b>Analog Inputs</b> Connectors: XLR balanced (pin 2+, pin 3-) Impedance, Bal / Unbal: 20 kOhm / 11 kOhm Max. Input Level @ 0 dBFS: +21 dBu A to D Conversion: 24 bit, 128 x oversampling bitstream A to D Delay: 0.9 ms @ 48 kHz Dynamic Range: Typ < -110 dB, 22 Hz to 22 kHz THD: Typ < -102 dB (0.0008 %) @ 1 kHz, -1 dBFS Frequency Response: +0/-0.1 dB, 20 Hz to 20 kHz Crosstalk: Typ < -115 dB, 20 Hz to 20 kHz		<b>Environment</b> Operating Temperature: 32° F to 122° F (0° C to 50° C) Storage Temperature: -22° F to 167° F (-30° C to 70° C) Humidity: Max. 90 % non-condensing	
<b>Analog Outputs</b> Connectors: XLR balanced (pin 2+, pin 3-) Max. Output Level: +21 dBu D to A Conversion: 24 bit, 128 x oversampling bitstream D to A Delay: 0.58 ms @ 48 kHz		<b>Control Interface</b> MIDI: In/Out: 5 Pin DIN	
		<b>General</b> Finish: Anodized aluminum front. Plated and coated steel chassis Meter: 2 x 6 LED's in each channel Dimensions: 19" x 1.75" x 4.2" (483 x 44 x 105.6 mm) Weight: 3.3 lb. (1.5 kg) Mains Voltage: 100 to 240 VAC, 50 to 60 Hz (auto-select) Power Consumption: <15 W Warranty parts and Labor: 1 year	

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**t.c. electronic**  
ULTIMATE SOUND MACHINES

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