

ADD THE FINAL PUNCH TO YOUR MIX



The internal auto-sensing power supply automatically accepts and adjusts itself to 100-240V, 50/60Hz.

Analog balanced I/O.

The MIDI section in the Finalizer is very useful for controlling fades from a sequencer.

Optional Digital Master Fader connection.

TECHNICAL SPECIFICATIONS:

DIGITAL INPUTS AND OUTPUTS

Connectors: XLR (AES/EBU) RCA Phono (S/PDIF) Optical (Toslink)
Formats: AES/EBU (24 bit), S/PDIF (20 bit), EIAJ CP-340, IEC 958, EIAJ Optical (Toslink)
Output Dither: HPF TPDF dither 16, 20 and 24 bit
Sample Rates: 44.1 kHz, 48 kHz
Processing Delay: 0.2 ms @ 48 kHz
Frequency Response DIO: DC to 23.9 kHz \pm 0.01 dB @ 48 kHz
Compressor THD+N: -122 dB (0.00008%) @ 10 dB Compression, 20 Hz to 20 kHz

ANALOG INPUTS

Connectors: XLR balanced (pin 2 hot)
Impedance: 20 kohm
Max. Input Level: +22 dBu (balanced)
Min. Input Level (for 0 dBFS): -10 dBu
Sensitivity: @ 12 dB headroom: -22 dBu to +10 dBu
A to D Conversion: 24 bit (1 bit, 128 times oversampling)
A to D Delay: 0.8 ms @ 48 kHz
Dynamic Range: >103 dB (unweighted), >106 dB(A)
THD: -95 dB (0.0018%) @ 1 kHz, -6 dBFS (FS @ +16 dBu)
Frequency Response: 10 Hz to 20 kHz: +0/-0.2 dB
Crosstalk: <-80 dB, 10 Hz to 20 kHz typical -100 dB @ 1 kHz

ANALOG OUTPUTS

Connectors: XLR balanced (pin 2 hot)
Impedance: 100 ohm (active transformer)
Max. Output Level: +22 dBu (balanced)
Full Scale Output Range: -10 dBu to +22 dBu
D to A Conversion: 24 bit (1 bit, 128 times oversampling)
D to A Delay: 0.57 ms @ 48 kHz
Dynamic Range: >100 dB (unweighted), >104 dB(A)
THD: -86 dB (0.005%) @ 1 kHz, -6 dBFS (FS @ +16 dBu)
Frequency Response: 10 Hz to 20 kHz: +0/-0.5 dB
Crosstalk: <-60 dB, 10 Hz to 20 kHz typical -90 dB @ 1 kHz

EMC

Complies with: EN 55103-1 and EN 55103-2, FCC part 15, Class B, CISPR 22, Class B

SAFETY

Certified to: IEC 65, EN 60065, UL 1419 and CSA E65

ENVIRONMENT

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

PCMCIA INTERFACE

Connector: PC Card, 68 pin type 1 cards
Standards: PCMCIA 2.0, JEIDA 4.0
Card Format: Supports up to 2 MB SRAM

CONTROL INTERFACE

MIDI: In/Out/Thru: 5 Pin DIN
GPI, Pedal, Fader: Phone jack, 0 ohm to 50 kohm

GENERAL

Finish: Anodized aluminum front
 Plated and painted steel chassis
Dimensions: 19" x 1.75" x 8.2" (483 x 44 x 208 mm)
Weight: 5.2 lb. (2.35 kg)
Mains Voltage: 100 to 240 VAC, 50 to 60 Hz (auto-select)
Power Consumption: < 20 W
Backup Battery Life: > 10 years

Note: Due to continuous development and standardization all specifications are subject to change without notice



OPTIONAL DIGITAL MASTER FADER AVAILABLE

t.c. electronic
 ULTIMATE SOUND MACHINES

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 ULTIMATE SOUND MACHINES

Finalizer EXPRESS
 STUDIO MASTERING PROCESSOR



DELIVER THE HEAVYWEIGHT MASTERING PUNCH

Introducing Finalizer™ Express

The Finalizer Express is the fast and efficient way to turn your mix into a Professional Master! Based upon TC's Multi-Award winning Finalizer Mastering Technology, it delivers the finishing touches of clarity, warmth and punch to your mixes, putting the world of professional mastering within your reach...



PREPARE YOURSELF FOR A KNOCKOUT PUNCH!



The Finalizer Express is the fast and efficient way to turn your mix into a Professional Master! Based upon TC's Multi-Award winning Finalizer Mastering Technology, it delivers the finishing touches of clarity, warmth and punch to your mixes, putting the world of professional mastering within your reach.

PUNCHING UP YOUR MIX
Insert the Finalizer Express between the stereo output of your mixer or workstation and your master recording media to refine your tracks with powerful mastering tools, adding real energy to the mix without worrying about "overs". Punch up your mix with the fast, intuitive user interface and deliver the ultimate sound quality you deserve - quick and clean! Spectral balance is improved, bass is tightened, the level is optimized and your mix sounds like a finished CD...it's that simple.

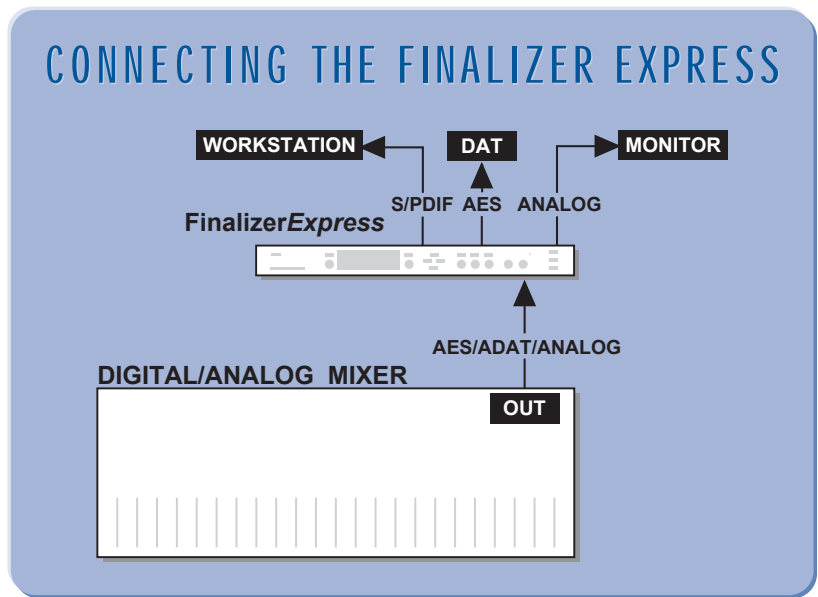
- MAIN FEATURES**
- Bring your mixes to life with TC's unique Multiband Compressor & Limiter Algorithms
 - Boost and cut over three bands with the Spectral Balance Controls
 - Prevent "overs" from occurring with Soft Clipping
 - Foresee incoming peaks with Look Ahead Delay, allowing for faster, more accurate response
 - Use the Finalize Matrix for 25 variations in style and ratio
 - Optimize your overall level with the Automatic Make-Up Gain
 - Add extra compression in each band by using the Emphasis keys
 - Record your fades from the built in Digital Fader or the optional TC Master Fader via MIDI

- OTHER FEATURES**
- 24 bit resolution A/D & D/A converters
 - 16 and 20 bit dithering
 - Industry standard connectivity: AES/EBU, S/PDIF, Optical Tos-Link & MIDI I/O's
 - High Resolution LED Metering of I/O & multi-band gain reduction

REALLY FAST
Acquiring a piece of high quality 24bit digital equipment often means hours of manual reading, keeping you away from the main focus point of your work. With the Finalizer Express, you plug it in and you're on the fast track to a great sounding mix. Express Yourself The Finalizer Express combines the advantages of analog and digital equipment to bring intuition and creative flow into your work. With the aid of an analog style hardware interface and TC's proprietary dynamics processing technology inside, your ideas come to life at the very moment you create them.

ADVANCED TECHNOLOGY
With TC Electronics' award winning multi-band compression technology, you are actually equalizing your track with selective compression, adding real energy and clarity into the mix without having to worry about "overs". The Finalizer Express delivers the "no compromise" audio quality your mixes deserve. If you are working either in the analog or the digital domain the Express has you covered with: 24bit AD-DA's, AES/EBU, SPDIF and TOSLINK I/Os.

FAST AND SIMPLE POWER
Power up the Finalizer Express by pressing this button. Holding it down for more than 3 seconds turns the Express off and prevents sudden accidental power downs that could damage your precious equipment.



FINALIZE
Do it in Style! Welcome to the heart of the Finalizer Express. You select which style of compression you need and how you want it to work with the adjust cursor keys. Move the LED to the lower left corner to use very subtle dynamics processing or to the upper right light corner for the heaviest and fullest dynamics processing you can imagine. Then there is everything in between - you have complete control.



SELECT INPUT
Select analog balanced XLR input or digital input via AES/EBU, S/PDIF or Tos link with a single touch of this button.



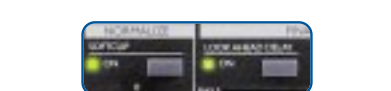
ANALOG LEVEL
Set the analog input level to fit your source.



METERS
This section gives you a clear readout of what is happening inside the Express. E.g.: How hot your input, output, soft clipping, and compression levels are.



NORMALIZE SOFTCLIP
Turned on when lit. This section emulates the input stage of analog preamplifiers, giving you that sought after analog sounding soft saturation that adds warmth to your signal.



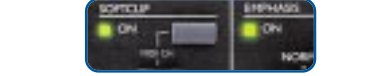
GAIN
Gain immediate control over your input and output levels using gain!



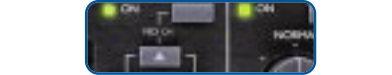
LOOKAHEAD DELAY
Press this button to make the Finalizer Express process your signal even more smoothly. By 'Looking Ahead' and foreseeing any unwanted peak or transient information the Finalizer Express is prepared to control the level at the exact moment the anomaly occurs.



SOFTCLIP
With the output soft-clipper on, you can emulate the sound and feel of analog equipment, while retaining all the advantages of staying inside the Digital domain.



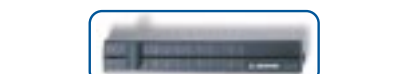
MIDI CHANNEL
Press and hold this button and use the arrow buttons to select which MIDI channel you wish the Finalizer Express to send and receive from. Especially useful when controlling a master fade with a Sequencer.



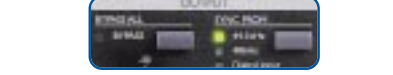
SPECTRAL BALANCE
This is the EQ section that will allow you to adjust the spectral balance of your signal. The Emphasis buttons affect the band that corresponds to the knob below and thereby emphasize the low, mid, and high end frequencies.



FADE IN/OUT
Use the Fader knob, connect a remote Master Fader, or a Sequencer via MIDI to control your fades. The Express also transmits Fader values via MIDI, so you can record a fade with a sequencer and play it back later, (controlling the fade via MIDI), any way you like.



OUTPUT
The Bypass button gives you the ability to hear the enhancements the Finalizer Express adds to your signal. Bypass and listen, compare the two, and adjust the Finalized signal to give you exactly what your mix needs.



ANALOG OUT
From -26 to +6dB, the Knob in this section lets you turn your analog out level up or down quickly and easily. The clear numbering actually tells you exactly what level is coming out of the Finalizer Express.

