BURNING DESIRES FULFILLED



Fader, expression pedal or a switch for external control



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

THD:

THD:

CROSSTALK:

Feb/99. Prod. No:616052511

TECHNICAL SPECIFICATIONS:

DIGITAL INPUTS AND OUTPUTS XLR (AES/EBU), RCA Phono (S/PDIF) CONNECTORS: Optical (Tos-link, ADAT) AES/EBU (24 bit), S/PDIF (20 bit), EIAJ CP-340, FORMATS: IEC 958, EIAJ Optical (Tos-link), ADAT Lite pipe OUTPUT DITHER: HPF TPDF dither 8-24 bit WORD CLOCK INPUT: RCA Phono, 75 ohm, 0.6 to 10 Vpp 44.1 kHz, 48 kHz SAMPLE RATES: PROCESSING DELAY: 0.2 ms @ 48 kHz FREQUENCY RESPONSE DIO: 20 Hz to 23,9 kHz +0,01/-0,1 dB @ 48 kHz ANALOG INPUTS XLR balanced (pin 2 hot) CONNECTORS: IMPEDANCE: 20 kohm +22 dBu (balanced) MAX. INPUT LEVEL: MIN. INPUT LEVEL (FOR 0 DBFS): -10 dBu @ 12 dB headroom: -22 dBu to +10 dBu SENSITIVITY: 24 bit (1 bit, 128 times oversampling) A TO D CONVERSION 0.8 ms @ 48 kHz A TO D DELAY: >103 dB (unweighted) >106 dB (A) DYNAMIC RANGE: -95 dB (0,0018 %) @ 1kHz, -6 dBFS (FS @ +16 dBu) 10 Hz to 20 kHz: +0/-0.2 dB FREQUENCY RESPONSE: <-80 dB, 10 Hz to 20 kHz typical -100 dB @ 1 kHz CROSSTALK: 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 >100 dB (unweighted), >104 dB(A) DYNAMIC RANGE: -86 dB (0.005%) @ 1 kHz, -6 dBFS (FS @ +16 dBu) 10 Hz to 20 kHz: +0/-0.5 dB FREQUENCY RESPONSE:

EMC COMPLIES WITH: SAFETY CERTIFIED TO: ENVIRONMENT **OPERATING TEMPERATURE:** STORAGE TEMPERATURE: HUMIDITY: PCMCIA INTERFACE CONNECTOR: STANDARDS:

CARD FORMAT: CONTROL INTERFACE MIDI: GPI, PEDAL, FADER:

LCD:

DIMENSIONS:

MAINS VOLTAGE:

POWER CONSUMPTION:

BACKUP BATTERY LIFE:

WEIGHT:

GENERAL FINISH:

<-60 dB, 10 Hz to 20 kHz typical -90 dB @ 1 kHz

-22° F to 167° F (-30° C to 70° C) Max. 90 % non-condensing PC Card, 68 pin type 1 cards PCMCIA 2.0, JEIDA 4.0 Supports up to 2 MB SRAM

> 1/4" phone jack Anodized aluminum front

In/Out/Thru : 5 Pin DIN

Plated and painted steel chassis

EN 55103-1, and EN 55103-2

32° F to 122° F (0° C to 50° C)

FCC part 15, Class B CISPR 22, Class B

IEC 65, EN 60065, UL 1419 and CSA E65"

56 x 128 dot graphic LCD-display 19" x 1.75" x 8.2" (483 x 44 x 208 mm) 5.2 lb. (2.35 ka) 100 to 240 VAC, 50 to 60 Hz (auto-select) <20 W >10 years

WARRANTY PARTS AND LABOR:

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

1 year

t.c. electronic

TC ELECTRONIC A/S + SINDALSVEJ 34 + 8240 RISSKOV + DENMARK + PHONE: + 45 8621 7599 + FAX:+ 45 8621 7598 TC ELECTRONIC INC + 790-H HAMPSHIRE ROAD + WESTLAKE VILLAGE + CA 91361 + USA + PHONE: (805) 373 1828 + FAX: (805) 379 2648 E-MAIL: INFO@TCELECTRONIC.COM > WEBSITE: WWW.TCELECTRONIC.COM

t.c. electronic

Connect an optional TC Master

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TURN UP THE HEAT

Prepare yourself for FireworX

The FireworX is the most radical sounding Multi-Effects Processor you've ever heard and a real challenge to your imagination. Take whatever you need from the broad palette of internal effects, drop it into the forge at the heart of the FireworX, and turn your music into a fireball of sound.

Based on TC Electronic's cutting edge technology the FireworX will let you surf the limits of the possible. Turn up the heat and get ready to explore the world of digital pyrotechnics ...



xperience the limits of Set your sound apart from the

your imagination. Shape the sound. Give it personality. Control it. rest of the crowd with extremal multi-effects: Vocoder, Ring Modulator, Cruncher, Celebrate the discovery of Resonator, Pitch Shifter, Chaos an all-new kind of effects Generator, Distortion, Reverse Delay , and more.

loading presets.

Create an infinite number f effects for any style f music or sound design Endless routing pos sibilities with more than than eight internal and

you will send into the FireworX.



Wave Mechanics

TC Electronic has been known for over 20 years as a manufacturer of pristine, straight-ahead effects. Introducing the explosive FireworX Studio Multi-Effects Processor, TC challenges you to explore the limits of your creativity and imagination.

you from accidently shutting it down

TAKE IT TO THE LIMIT!

Modern production techniques often call for unusual effects combinations that are beyond the capability of the average processor. With more than 20 different algorithms, 20 modulation sources, full tempo control combined with numerous routing possiblities, the FireworX is the most radical sounding signal processor you've ever used!

ENTER THE FIREWORX

If you've been searching to find an alternative in effects processing, FireworX is the answer! It represents an all new perspective in signal processing, allowing you to express yourself and take control far beyond the capabilities of your average cookie cutter effects machine

CREATE YOUR OWN SOUND PALETTE FireworX features a 8x8 position routing grid. Simply place the algorithms anywhere on the grid and they will be automatically "wired" together. The FireworX uses a dynamic resource allocation system that allows you to monitor how much DSP power you are using. You can keep adding algorithms to the routing grid until you hit the DSP power limit without affecting the FX quality. With an

impressive 80 million instruction per second DSP processor and the TC DARC[™]3 chip, the FireworX delivers the goods!

MAKE YOUR EFFECTS COME ALIVE

All this power would not be complete without the ability of your program material to control the effects. To accomplish this TC has designed 2 envelope followers, 2 ADSR generators, 2 LFO's, a Pitch detector and even a Freeform modifier that lets you design your very own waveform. In addition to that, the FireworX has 8 external modifier entries.



The FireworX is a very powerful machine and inside the borders of it's extensive DSP power you can create any imaginable effect. The FireworX' broad palette of effects includes:

- VOCODER
- RING MODULATION
- SYNTH GENERATOR
- FORMANT FILTER
- **RESONANCE FILTER**
- MULTITAP DELAY
- **REVERSE DELAY**
- REVERB
- DYNAMICS
- CHORUS
- FLANGER
- PHASE
- PITCH SHIFT
- CHAOS GENERATOR

You can change the order of the effects repeat certain blocks, add feedback loops, even insert an external device.



RECAL The Recall page takes you step by step through all the FireworX' presets. The List page gives you a clear overview and

settings with a double click

fast recall of presets.



The Preset page gives you the choice of Card-, Factory- or Userbank and the ability to exclusively scroll through all presets that contain, for example, a Vocoder



I/O SETUP

The In & Out Section's Signal page shows the signal path from Input through inserts to Output. The verv intuitive interface gives you the best possible overview and makes instant connection changes very fast and easy to perform.



The Level page shows the analog Input/Output controls and gives you the ability to lower the digital signal, giving you total control of any level entering or exiting the FireworX



can move around very quickly inside the intuitive user interface

with the Value wheel.

to route it's power.

ROUTING

This is where you set up your block routing

With a double click on the effect block panel

buttons you insert the effect type chosen

FECTS TOOL COIT MUNITE LAVE

Choosing an effect block and pushing Enter

will bring up the Sub Routing I/O page of the

chosen block. You decide on where the

chosen effect will get its fuel from and where

DTN 4 - CUPUE CENEPOTE

SYNTH 1

Push Enter again and access the core settings

TOOL

If you want to know how much DSP power

each effect is using, go to the Tool page

under the Effects section, choose DSP

FECTS HOLE EDIT ROUTIN

IETER - IN LEVEL IETER - DUT LEVEL LORD

The percentage of the DSP power used in

each block will now be displayed. Use the

Exit button to toggle between this and the effect type name. What you see on the display of the FireworX is what you get

FECTS TOOL COM ROUTING LAVI

- 52) <mark>| 182| - 512</mark> | 52| - | | <u>62| - 62</u>|

99 × VOC - VOCODER

of your chosen effect in the FireworX.

LOAD then press Enter.

SYN1 VOC

expression pedal, can control several parameters at the same time. The specific function of the wheel is determined by the way you assign it within each individual preset.

MODIFIER MENU

Looking for the Holy Grail? This is where it's at. The Modifier section is what makes the FireworX so versatile.

Only your imagination is the limit here. Think of any possible way to combine modifiers and effect parameters, and make it happen. Creativity brought to work, all made possible by the FireworX.



FREEFORM MODIFIER

The Freeform modifier is actually a tiny sequencer that allows you to create a more "rhythmic" sequence. This is very useful if you want a Phaser or a Tremolo to act as a percussive sidekick to a breakbeat



FUNCTION MODIFIER

If you're in need of a monophonic synthesizer, use the one in the FireworX. You can route your keyboard via MIDI to e.g. Function 1 and then route Function 1 to the Synth Frequency. Voila, there you go!



