SONIX 4800F

4IN-8OUT DIGITAL AUDIO PROCESSOR WITH FIR AND DEQ

SoniX 4800F is the new audio processor with 4 inputs and 8 outputs designed for both live applications and fixed installations. The quality of its converters and huge computing power make it an essential reference point for all audio professionals who need reliable, powerful and high-quality tools in line with the HELVIA philosophy.

The front panel is minimal and sleek, and has only the essential controls (Mute buttons, VU meters, USB port, 2” TFT color display, data/entry, and menu button. The rear panel houses all balanced input/output connections, as well as the RJ-45 port for LAN connection.

At the heart of the machine is 32-bit/400MHz 4th generation SHARC processor with 24-bit AD/DA conversion and 192kHz sampling rate. The four inputs can be freely assigned and grouped to the 8 outputs via a classic matrix panel. All editing functions are accessible either from the front panel or from Windows® PC software that can be connected via USB or LAN.

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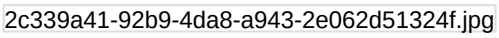

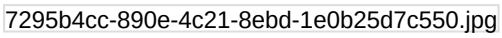

19" Rack Standard Adaptive Feedback Suppressor Auto Echo Cancellation Automatic Gain Control Multi-Zone System PC Control Software Pha

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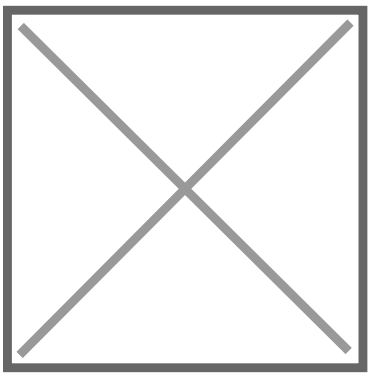
HIGHLIGHTS

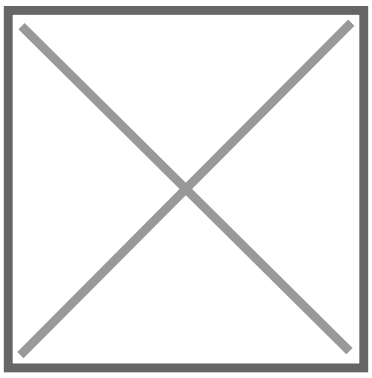


COMPLETE CONTROL. JUST ONE CLICK AWAY

The control software is extremely sophisticated but equally simple and intuitive. Each input and output are represented by an real path that the signal follows within the SoniX 4800F. Pressing each of the buttons takes you to the relevant screen that allows the modification of many parameters.

4 INPUT CHANNELS

For the 4 inputs, in addition to the normal level, mute, phase, grouping, assignment and multi-band EQ controls, there are the Auto Feedback Cancellation function with 6 levels of intervention, the 3-band Dynamic Equalizer and the FIR (Finite Inpulse Response) filter with the possibility of saving and importing one's own settings.



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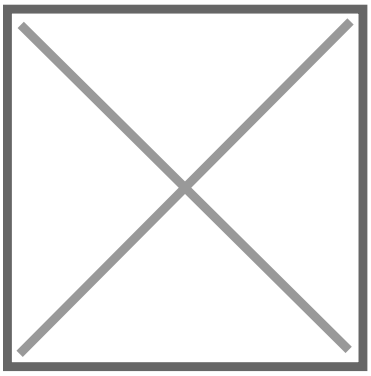

8 OUTPUT CHANNELS

For the 8 outputs, in addition to the normal level, mute, phase, grouping, assignment and multi-band EQ controls that we find for the inputs, there are the 15-band PEQ plus HPF and LPF, the IIR (Infinite Impulse Response) and FIR filters, as well as the entire dynamics control section with Compressor and Limiter.

All inputs and outputs have delays of up to 1200ms. Finally, there are 32 freely programmable memories that can be recalled by the user from either the software or the control panel.

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PRODUCT DETAILS

KEY FEATURES

- Up to 192 kHz sample frequency, 32-bit - 400 MHz DSP processor, 24-bit AD/DA Conversion
- Six-degree Auto Feedback Cancellation function for each input channel
- DEQ on all Inputs with adjustable Gain, Bandwidth, Adjustable Frequency, Type, Dynamic Threshold, Ratio, Start Time, Recovery Time
- 15-Band Parametric EQ with 48dB/octave HPF & LPF (7-Band on inputs)
- FIR filters with sampling points from 256 to 512, different filter types and adjustable Cutoff Frequency
- Up to 1200ms Delay on all Inputs and Outputs
- Compression, Limiter on all Outputs
- Signal Generator on all Inputs with Sine Wave, Pink and White Noise
- USB/LAN Online Control
- 2” TFT color display
- PC software with multiple unit control
- 30 Scenes with Save and Recall functions
- Password Locking Function

SPECIFICATIONS

Frequency response	±0.2dB 10Hz-25kHz
THD + N	< 0.005% @ 10Hz-25KHz
SNR	>118dB at 1% THD + N 10Hz-25KHz

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Maximum input level	+20dBu/7.775Vrms
Maximum output level	+20dBu /7.775Vrms
Gain range	- 80dB to +12dB per channel
Input impedance	> 10Kohm - XLR input
Output impedance	< 60 ohms - XLR output
Test signal	Independent sine wave / white noise / pink noise for each channel
Input equalization	7 sections (parameter/ high / low rack / all-pass) + 3 sections dynamic EQ
High pass type	Ningke / Bessel / Bart 6 / 12 / 18 / 24 / 30 I 36 / 42 I 48
Low pass type	Ningke / Bessel / Bart 6 / 12 / 18 / 24 / 30 / 36 / 42 / 48
Delay	1200ms / 0.01ms accuracy for each Input and Output
Output equalization	15-Band + HPF/LPF per channel with high / low frame/ all pass filter
Output FIR	low pass / high pass / bandpass direct setting, External Inport/Export
Limiter	Clipping (Peak or RMS value), Threshold, Attack, Release Time
Output Compression	Adjustable Threshold / Ratio / Start time / Recovery time
Volume / Mute Control	Direct panel knob, total volume and mute control
Phase control	Input / output
Online control	USB / LAN control
Level meter	Dynamic indication of display level
Power range	85V-260V / 50Hz-60Hz
Net weight	3.6kg
Gross weight	5.2kg
Overall dimensions	46 x 482 x 250mm

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