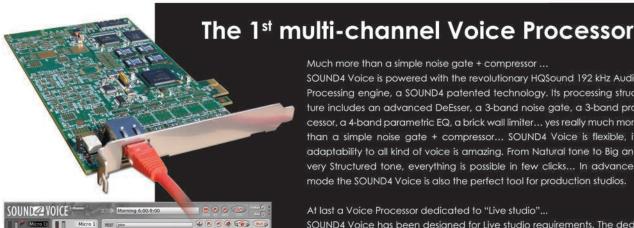
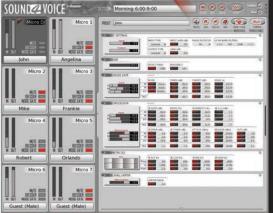


Voice Processing
WebRadio Processing
Broadcast Sound Processing
Audio IP Networking

Voice Processing **SOUND4** Voice





Sound setup screen

OUND VOICE NO		Morning 6:00 - 9:00 (not saved)			⊚ 6
DJ Mic	Mic 1	Mic 2	Mic 3	Guest 1	Guest 2
John	Angelina	Mike	Franckie	Guest (male)	Guest (male)

Live mode screen

AVAILAIBLE IN ANALOG/AES, LIVEWIRE AND **RAVENNA® VERSION***

Much more than a simple noise gate + compressor ...

SOUND4 Voice is powered with the revolutionary HQSound 192 kHz Audio Processing engine, a SOUND4 patented technology. Its processing structure includes an advanced DeEsser, a 3-band noise gate, a 3-band processor, a 4-band parametric EQ, a brick wall limiter... yes really much more than a simple noise gate + compressor... SOUND4 Voice is flexible, its adaptability to all kind of voice is amazing. From Natural tone to Big and very Structured tone, everything is possible in few clicks... In advanced mode the SOUND4 Voice is also the perfect tool for production studios.

At last a Voice Processor dedicated to "Live studio"...

SOUND4 Voice has been designed for Live studio requirements. The dedicated graphical user interface shows all 8 Mics (or 6 in AD version), status, affectations and Users Names. Recalling a Mic to a user is done in two clicks... More and more... SOUND4 introduces now the "Session Recall": it is possible to save all Mics affectations + loaded users presets, and then recall all in a click! SOUND4 Voice is also externally automatable for day parts automatic sessions recall ...

In-House Users Presets centralization...

Imagine Live and Production studios with SOUND4 Voice in each... Thanks to Users Presets Centralization, Animators, Interviewers, Journalists and DJs will have access to their own presets in each studio. If a User preset is modified from one studio, all other studios will be automatically updated, this is the job of the "in-house Users Presets Centralization".

Multi-Studio ready...

The SOUND4 Voice can process separately up to 8 microphones (or 6 in AD version). Thanks to Multi-Studio mode, a SOUND4 Voice can distribute these resources over several studios. Just imagine... you have two studios to equip with three microphones for each studio: with a single SOUND4 Voice you can "split in two" to get two processors which operate separately on each studio. Moreover studios may Save and Recall their own

Key Features:

- - hree versions 1 to 8 independent Channels in Livewire version 1 to 8 independent Channels in Ravenna version (soon) 1 to 6 independent Channels in AD version (Analog line level & AES)
- Independent or mixed into 1 or 2 buses for saving space in mixers

- 3-Band Dynamic Processor
 4-Band Parametric EQ
 Brick Wall Limiter

- Load balancing

 Audio processing and Livewire protocol are 100% handled by the five DSPs on the card (8 Gflops of computing power!), no CPU or PCI load on mother board.

 Independent processing, no sound disruption on PC overload, hang or reboot
- Drivers and GUI are Windows & Linux compatible Windows Xp SP3, windows 7 & 2008 R2 (32 & 64 bits) Linux Debian

- PCI express x1 (may be inserted in x1, x2, x4, x8, x16 slots)

 Card dimensions: Standard Height (4.20" / 106.7mm), < three-quarter length (7,3" / 185mm without IO bracket and optional IDE power connector for AD version)

WebRadio Processing & Coding SOUND4 x8

The Processing and Streaming solution for WebRadio bouquets

The SOUND4 x8 is the 1st multi-channel processor dedicated to WebRadio bouquets. It can simultaneously and independently process 8 radio streams on a single PCI express card. The x8 offers 8 inputs and 8 outputs through Audio Driver (coming soon).

In terms of Sound Processing, the SOUND4 x8 includes a true processing chain dedicated to webstreaming: AGC + Tone FX + Stereo FX + 3-band Process + 4-Band Limiter + Brick Wall Limiter! The SOUND4 x8 also features the « Predictive HQ-Sound » algorithm which optimizes codec result and reduces compression-induced sound artifacts.

In terms of Encoding, the SOUND4 x8 offers a complete and innovative solution: each processed output may be encoded into up to 5 different stream formats (MP3, AAC, HE-AAC v1, HEAAC v2...). The SOUND4 x8 is the high quality encoding engine that suits every IP audio device profiles. Indeed it is the 1st processor that integers a sound optimizer for very low encoding rates (16 kbps, 24 kbps, 32kbps...). Moreover, an Adaptive Processing can correct each stream independently in order to compensate the sound difference due to encoding (another SOUND4 innovation!). Thus a radio station can easily generate different streams that suit the targeted audience, low rate for mobile phone, high rate for home device, with homogeneous sound whatever the encoder used. Finally, the SOUND4 x8 adapts to most of the standards used for streaming delivery systems (Flash, Darwin, Helix, Wonza, Icecast 2, Shoutcast...)

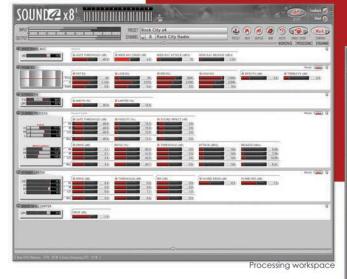
In terms of Meta-Data, the SOUND4 x8 is compatible with the different standard formats and can interface to many automation software thanks to a XML-based gateway (A2I, BE, BSI, Enco, Jazler, Netia, NextGen, RCS, Winamp, Winmedia...)

Key Features:

- 8 stereo channels Audio Driver (WDM/Direct Sound for Windows; ALSA for Linux Debian) Liwewire (Standard Stream and Live Stream)
- (40 streams total) MP3, AAC, HEAAC v1, HEAAC v2 3GP compatible (mobile phones)
- - Input: gathered from file, HTTP, FTP or TCP Scriptable meta-data processing Output: embedded in audio or compatible mode with broadcast servers
- - streaming servers · Darwin, Flash, Helix, Icecast 2, Red5, Shoutcast,
- Driver and GUI are Windows & Linux compatible Windows Xp SP3, windows 7 & 2008 R2 (32 & 64 bits) Linux Debian
- - Load balancing

 Audio processing, Livewire or Ravenna protocols
 are 100% handled by the five DSPs on the
 board (8 Gflops of computing power), no
 CPU load on mother board.

 Stream Encoding is 100% handled by the main
 CPU on PC mother board (where the SOUND4
 card is plugged), The SOUND4 x8 features a
 highly optimized encoding regime that value.





HD/FM Processing SOUND4 HD/FM

An all-powerful processor

- · Dance, hip/hop, R&B radio... will finally discover real bass

Much more than a mere processor, the SOUND4 HD/FM cards has Audio Backup functionalities. The only limit

Key Features: • Inputs and Outpu - Analog

- MPX
 2 assignable outputs (MPX or 19kHz stereo pilot)
 1 SUB input (for RDS, SCA...)
 Audio Processing
 Main sampling process frequency 192 kHz (HQSound 192 kHz)
 Final Clipper sampling Frequency: 1.5 MHz.
 Ultra low delay ~5 millisecond
 Wide band AGC
 4-band Eq + Tone FX and Stereo FX
 Stereo FX

 - - Stereo FX

 4-band process with Fidelity and Sound Impact System (S.I.S)

 4-band limiter

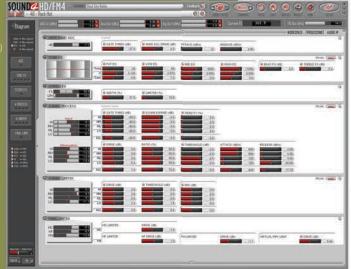
 Look Ahead limiter for the HD output

 Virtual MPX limiter

 MPX power controller (ITU-R 412 standard)

 FmHQ Compliant: now it is possible to set Low Pass Filter to 17 kHz...

 Our revolutionary filter guarantee a perfect pilot protection (-90 dB)



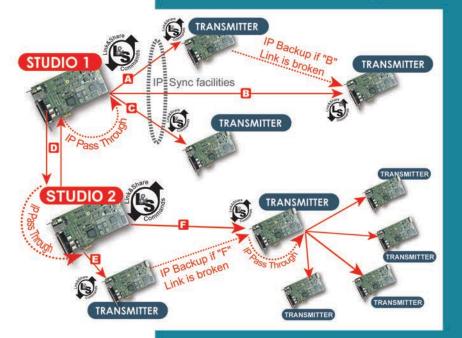
HD/FM4 workspace



Audio IP Networking

SOUND4 IP

The solution for Dynamic Audio Networking



Much more than point-to-point sound streaming..

Have a look at all the AUDIO IP solutions available... Although an essential point, none of these solutions take signal processing into account! None of them allow for synchronization... None of them offers a secure routing in the event of an IP link failure... None of them offers stream duplication without decoding and re-encoding... In many cases, the most commonly used codecs impose significant delays, up to a few seconds... Network architectures are fixed and cannot be adjusted according to the new demands of the broadcasting management...

SOUND4 IP allows to create a live program "in one click", to assign a group of transmitters to a particular studio, to manage an IP network through the radio automation systems

SOUND4 Audio IP Networking, a panel of unique features dedicated to quality and programs

Our products are always the results of extensive market research. Not to look at what others do, but to analyze the requests and directions that our customers might take, therefore ensuring that the Radio of the future is technically more advanced and interactive... Our advance is demonstrated through the unique features described herewith and our understanding of the needs 100% dedicated to the quality of your programs.

Key Features:

- 32 independent links: Single or Duplex and until infinite in dynamic re-routing
- Extremely low delay: 50ms encoding / transport / decoding
- Protocol type: UDP
- Codecs
- SOUND4 LD Codec64 to 384kbps (transparen
- PCM linear Codec (for LAN application)
- IP Synchronization: 5ms on SDSL, max 20ms on ADSI
- IP Pass-Through for stream replication
 (no decoding and re-encoding)
- ID routing back in the case of a broken lin
- Inputs and Outputs
 - Analog
 - Digital
 - Driver audio (WDM/Direct Sound for Windows; ALSA for Linux Debian)
 - IP (Ethernet connector on SOUND4 board - SOUND4 IP: audio Networking solution
 - Liwewire (Standard Stream and Live Stream
 - -Ravenna (coming soon)
- Automatic input managemen
 - Backup Mode
 - Priority Mode
- (compatible with Radio Automation systems)
- Drivers and GUI are Windows & Linux compatible
 Windows Xp SP3, windows 7 & 2008 R2
 132 & 64 bits!
 - Linux Debiar
- Load balancing
 - Audio processing and Livewire protocol are 100% handled by the five DSPs on the board [8 Gflops of computing power], no CPU or PCI load on mother board
 - Independent processing, no sound disruption on PC overload, hang or reboot
- Form Factors
 - PCI express x1
 - (May be inserted in X1, X2, X4, X8, X16 stars)

 Board dimensions: Standard Height
 (4.20"/106.7mm), three-quarter length (7,3",
 185mm without IO bracket and IDE power
 connector for analog I/O)





All SOUND4 cards are Link&Share ready:

With Link &Share you can read and modify values directly with Telnet protocol. Link&Share is the ultimate solution for product integration with other products of the chain. Moreover, SOUND4 provides for free a full scripting solution and a Link&Share Transmitter for sending commands automatically!

Many thanks to our PARTNERS



Partnership goal: Integrate Livewire* technology in SOUND4 products.

Since March 2010, SOUND4 is an Axia licensed partner for Livewire* technology. *Livewire is a trademark of Axia Audio



Partnership goal:

Integrate RAVENNA® technology in SOUND4's products.

Since September 2011, SOUND4 is a Ravenna® licensed partner for Ravenna® technology. We will now propose a full catalog of Ravenna® powered products.

RAVENNA® is a registered trademark of ALC NetworX GmbH and is used here under license



Partnership goal:

Integrate SOUND4 HD/FM Sound Processing in Digiplexer and NextFM.

Since 2007, for Audio Processing part, our cards, our algorithms and our software equip the Digiplexer 2/4, Digiplexer 246 and Next FM.



SOUND4 works with Dell's OEM Solutions team for its product integration. With Dell*, we have found the best, most cost-effective solution provider for SOUND4 products' integration. Today our cards are integrated by Dell and directly shipped to our customers.

*registered trademark of Dell



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