

# LINEAR ACOUSTIC AERO.10

## DTV Audio Processor



### Uncompromised Quality, Incredible Value

AERO.10 delivers the high-quality loudness control, upmixing, and flexible signal routing expected in a Linear Acoustic television processor in a 1RU product designed especially for PCM-only applications where Dolby<sup>®</sup> coded audio and audience measurement watermarking are not required.

Loudness control and upmixing/downmixing are entrusted to industry-standard AEROMAX<sup>®</sup> and UPMAX<sup>®</sup>-II algorithms, ensuring a consistent and compliant output level for main channel and SAP audio without compromising audio quality - a combination to make loudness meters and viewers equally happy. LKFS/LUFS loudness metering and logging is provided for each program.

AERO.10 can be customized in the field in your choice of three program configurations: AMX5.1 (5.1+2+2), AMX2.0 (2+2+2), or AMX5x2 (2+2+2+2+2). AMX5.1 and AMX2.0 configurations offer dual UPMAX<sup>®</sup>-II upmixing to create compelling 5.1-channel audio from 2-channel sources, and a downmix that is nearly indistinguishable from the original source.

I/O includes 8 audio pairs via HD/SD-SDI and 4 audio pairs via AES-3 with flexible pair shuffling on both the input and output, plus one balanced analog audio pair. Compensating video delay (SDI input) and per-pair audio delays ensure A/V sync. Local audio insertion allows an external audio source such as EAS or text-to-speech to be introduced into the main or secondary program audio outputs.

AERO.10 offers the convenience of a front panel display and controls but can also be remotely controlled, set up, and monitored via the included NfRemote software. A built-in http server allows for automated control and loudness log retrieval.

Failover bypass relays on all I/O maintain signal continuity, while dual auto-ranging power supplies provide redundancy and worldwide compatibility.



## Specifications

### Processing

One instance of AEROMAX<sup>®</sup> processing in field-selectable AMX5.1 (5.1+2+2), AMX2.0 (2+2+2), or AMX5x2 (2+2+2+2+2) configurations. UPMAX<sup>®</sup>-II upmixing/downmixing with automatic detection and automatic downmix replacement

### Reference

48kHz reference via AES (including DARS), AES Input 1, SDI, or internal clock (standalone use only)

### Sample Rate/Resolution/Frequency Response

48kHz, 24-bit, 20Hz - 20kHz below threshold

### AES I/O

Four 2-channel inputs/outputs via 75 Ohm BNC unbalanced female connectors, internally terminated; signal levels per SMPTE 276M/AES-3ID-2001

### SDI I/O

One auto-sensing HD/SD-SDI input (SMPTE 292M/259M), up to 1080i/60/59.94/50Hz, with de-embedding for 8 audio pairs; re-embedding for 8 audio pairs via one SDI output; supports SMPTE 2020 A and B VANC metadata

### Analog I/O (Stereo)

9-pin female D connector; 10K Ohm balanced stereo inputs; balanced stereo outputs, +4dBu nominal, +24dBu maximum into 600 Ohms

### Parallel GPI/O Control Port

25-pin female D connector, 0-5V TTL levels, for 8 inputs and outputs; controls preset recall plus local audio insertion

### Ethernet Connection

Gigabit Ethernet provides TCP/IP remote control, access to http server, and NfRemote software

### Front Panel Display and Controls

Rotary encoder plus monochrome display and headphone output

### Power

Dual internal power supplies, each rated at 100-264VAC, 50/60Hz, auto-sensing, 100W maximum total

### Dimensions and Weight

1RU - 1.75"H x 19"W x 15.5"D (44 x 483 x 394 mm); approximate net weight 9 lbs. (4 kg); approximate shipping weight 12 lbs. (5.4 kg)

### Environmental

Fan cooled; operating temperature 32 to 122 degrees F (0 - 50 degrees C); non-operating temperature -4 to 158 degrees F (-20 - 70 degrees C)

### Regulatory

North America - FCC and CE tested and compliant; power supplies are UL approved

Europe - Complies with European Union Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), as amended by Commission Decisions 2005/618/EC, 2005/717/EC, 2005/747/EC (RoHS Directive), and WEEE

### Warranty

Standard 2-year limited parts and warranty

Specifications are subject to change without notice.