



*Television Loudness Controller and Audio Processor
Includes AEROMAX[®] and UPMAX[®] II Algorithms, AES, SDI, and Stereo Analog I/O
plus BS.1770 Loudness Metering and TCP/IP Remote and HTTP logging*

AERO.10
DTV Audio Processor

Introducing AERO.10

Highest Quality Television Audio Processing - Incredible Value

Hybrid dynamic range and loudness control with Advanced ITU Limiter provide set-and-forget compliance *and* viewer-pleasing quality while included features deliver incredible cost-savings.



Handling up to 10 channels of PCM audio via AES, SDI, or Stereo via analog I/O, the Linear Acoustic AERO.10 offers all-inclusive audio processing for television broadcast via over-the-air, over-the-top, and mobile services. The Linear Acoustic Advanced ITU (AI) Limiter enables a simple loudness target to be set, and the AERO.10 does the rest to assure compliance and quality.

AERO.10 Includes:

- Linear Acoustic AEROMAX[®] loudness and dynamics control
- UPMAX[®] II automatic upmixing and downmixing
- Intelligent Dynamics[™]
- Advanced ITU (AI) Limiter
- 5.1+2+2 (or 2+2+2) with Local/EAS insert channel structure
- 3GHz HD/SD-SDI I/O with included video delay
- 8 channels of AES I/O with reference input
- Balanced +4dBu stereo analog inputs and outputs
- Dual autoranging power supplies for simple worldwide operation
- Relay bypass of all I/O
- Front panel GUI plus extensive TCP/IP and HTTP control
- Logging of loudness and True Peak data

AERO.10



Highest quality, industry standard audio control has never been more affordable. The AERO.10 is a fully featured audio processor supporting up to ten channels of audio and shares a processing engine identical to those found in the AERO.100/1000/2000 products. Tools such as loudness and dynamic range control, upmixing, downmixing, plus ITU and EBU compliant loudness metering and logging makes the AERO.10 an extremely powerful solution for nearly any application at an extremely low cost.

To this, the AERO.10 adds a simple LCD front panel GUI and stereo analog I/O. The headphone output is useful for checking audio or adjusting processing and has been designed to provide plenty of level, even for difficult loads or quiet sources.

New with the AERO.10 is the addition of stereo analog inputs and outputs which serve to support facilities amidst transition from analog to digital as well as interface with any analog device or signal path.



Comprehensive TCP/IP remote provides control over all system settings, processing and coding parameters plus extensive metering of signal presence, processing and coding activity, and audio loudness. System status reports physical I/O details along with system, power supply, and environmental health. The remote application also delivers remote audio, up to 5.1 channels, so the user can audition signal quality anywhere link bandwidth permits. An HTTP server is also included for simple get/set control of all parameters and retrieval of status and logging information. Permanently active logging captures 7.5 days of rolling weekly reports along with specific time slots controlled by start/stop. Loudness with multiple integration times as well as True Peak measurements are captured and available for download.

Designed and built in the USA, the lightweight and rugged single rack-unit AERO.10 is a solid investment in performance and flexibility. Though all current features are standard, future options can be enabled by simply entering a factory provided key. Failover bypass relays on all I/O maintain signal continuity and dual auto-ranging power supplies enable redundancy and worldwide compatibility.

The AERO.10 is backed by the world-class support and expertise of Linear Acoustic where 24-7 assistance is always just a phone call away.

AERO.10 Specifications:

Processing

- 5.1+2+2 (or 2+2+2) with Local/EAS insert and AEROMAX® multistage adaptive wideband and multiband loudness and dynamic range control with ITU-R BS.1770 loudness metering
- Dual UPMAX® II two-channel to 5.1 channel upmixers plus main channel downmixing, automatic bypass of discrete content (with 5.1+2+2 processing package, downmix only with 2+2+2 processing package)
- Linear Acoustic Intelligent Dynamics™
- Advanced ITU (AI) Limiter

Sample Rate/Resolution/Frequency Response

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

AES I/O

Eight main inputs plus reference via 75 Ohm BNC female connectors, internally terminated; Eight main outputs; Signal levels per SMPTE 276M/AES-31D-2001

SDI I/O

Auto-sensing 3GHz HD/SD-SDI (SMPTE 292M/259M) inputs, up to 1080i/60/59.94/50Hz

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 8 outputs; Controls simple preset recalls plus voiceover/EAS insertion

Ethernet Remote Control

Gigabit Ethernet port supports IP remote control via included NFRremote application, or internal HTTP server

Front Panel Controls and Indicators

Rotary navigation cluster, Graphical LCD display, headphone volume control

Headphone Output

6.3mm front panel connector, +12dBu Max into 600 Ohms

Power Requirements

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

Dimensions and Weight

One rack unit- 1.75"H x 19"W x 15.5"D (44 x 483 x 394 mm) Net weight: 9 lbs (4 kg); shipping: 12 lbs (5.4 kg) approximate

Environmental

Fan cooled. Operating: 0 to 50 degrees C, non-operating -20 to 70 degrees C

Regulatory

North America: FCC and CE tested and compliant, power supplies are UL tested and approved

Europe: Complies with the 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 labor

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