

DVB-ASI Loudness Controller and Audio Processor Highest Quality Loudness Control and Metering for up to Four AC-3 programs TCP/IP remote included, Nielsen Encoding Optional AERO .ASI
TS Audio Processor

Aero.ASI 0.13.94

Host: ASI-529999 IP: 192.168.1.247

# Introducing AERO.ASI

## Television Audio Processing for DVB-ASI Signals.

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



Aero.ASI 0.13.94 Host: ASI-529999 IP: 192.168.1.247 AERO.asi TS Audio Processor



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

## **AERO.ASI Includes:**

- Linear Acoustic AEROMAX® loudness and dynamics control
- $\bullet$  UPMAX  $^{\! (\! R \!)}$  II automatic upmixing and downmixing
- $\bullet$  Intelligent Dynamics  $^{\mathsf{TM}}$  with NEW Advanced ITU (AI) Limiter
- Dolby Digital (AC-3)
- DVB-ASI with included video delay
- Dual PSU and relay bypass
- Extensive TCP/IP remote control and HTTP control

## **Options:**

- 5.1 channel PID
- 2.0 channel PID
- Nielsen® Watermark encoder (can be field-enabled)





New Linear Acoustic Intelligent Dynamics™ (ID) is a patented hybrid of single-ended and metadata control. It is an infinitely and automatically adjustable balance between permanent and reversible processing and the overall amount of control is driven by the content itself. Compliant, high-quality content is preserved and unknown content is adjusted for compliance resulting in consistently pleasing audio delivered to consumers. ID can also be used to match content to delivery type: no longer one-size-fits-all, processing can be separately tailored for over-the-air (OTA), over-the-top (OTT), and mobile - all automatically, all in one unit.

How does it sound? Exactly like the highest quality audio control always provided by Linear Acoustic: Exceptional. The difference is that audio can remain untouched. Or not. It's up to the content and the broadcaster.

Finally the choice of compliance or quality is easy: Choose both. Automatically!



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.

Designed and built in the USA, the lightweight and rugged IRU AERO.ASI is a solid investment in performance and flexibility. Though most all features are standard, 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.ASI is backed by the world-class support and expertise of Linear Acoustic where 24-7 assistance is always just a phone call away.

## **AERO**.asi Specifications:

#### Processing

- 5.1+2+2 (Local/EAS) AEROMAX<sup>®</sup> multistage adaptive wideband and multiband loudness and dynamic range control with ITU-R BS.1770-3 loudness metering
- 2+2+2 (Local/EAS) AEROMAX<sup>®</sup> multistage adaptive wideband and multiband loudness and dynamic range control with ITU-R BS.1770-3 loudness metering
- Dual UPMAX $^{\circledR}$  II two-channel to 5.1 channel upmixers plus main channel downmixing, automatic bypass of discrete content.
- Linear Acoustic Intelligent Dynamics<sup>™</sup> with NEW Advanced ITU (AI) Limiter

#### **Audio Codecs**

• Dolby Digital (AC-3), up to 5.1 channels

#### 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 plus Encoder; Signal levels per SMPTE 276M/AES-3ID-2001

#### DVB-ASI I/O

DVB-ASI (ETSITR 101 891 v1.1.1) Transport Stream Input

#### 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 supports included TCP/IP remote control application; HTTP server included for get/set control of all parameters.

### Front Panel Controls and Indicators

Graphical OLED display

## **Power Requirements**

Dual power supplies, each rated at 100-264 VAC, 50/60Hz, auto-sensing, 150W max. 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: Tested to comply with the limits for a class A digital device pursuant to Part 15 of the FCC rules (CFR). Power supplies are UL tested and approved.

Europe:Tested to comply with the requirements of harmonised Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC as indicated by the affixed CE marking; RoHS and WEEE compliant

#### Warranty

Standard Linear Acoustic 2-year warranty.

#### **Options:**

- 5.1 Channel PID
- 2.0 Channel PID
- Nielsen Watermark Encoder (5.1+2)

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