



L7 LINEAR ACOUSTIC

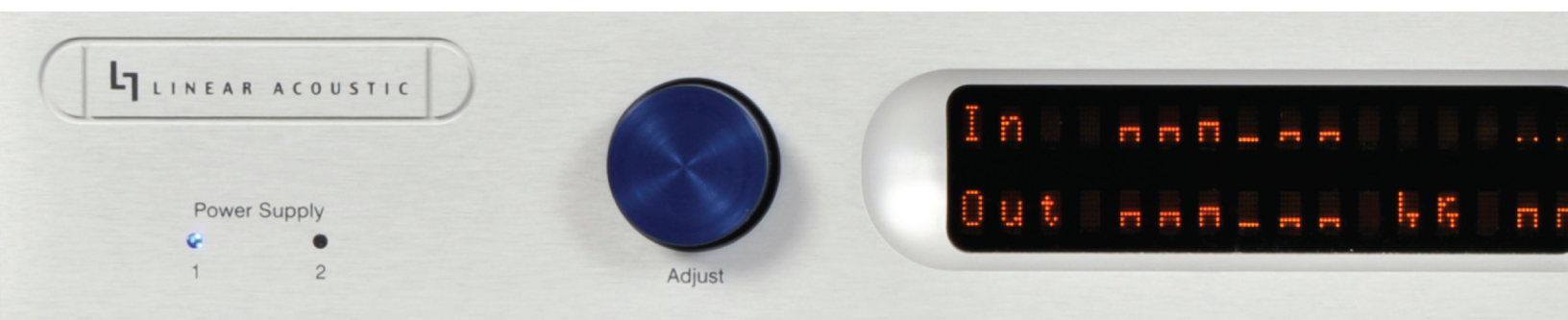
*5.1 + 2 Loudness Control with AES and HD/SD-SDI I/O
Optional Dolby® Digital / Dolby Digital Plus Encoding*

AERO.one
Audio/Loudness Manager



AERO.one™ is audio perfection for digital television. Built in loudness control, metadata control, and optional transmission encoding make AERO.one the ideal choice for stations that want to provide a seamless, optimum quality experience for their audience.

Now your viewers can be protected from loudness shifts and loss of surround sound in a simple, cost effective, compact, and feature rich manner.



AERO.one supports 5.1 + 2 channel loudness control plus dual UPMAX® upmixing engines and downmixed output.

Highly visible LED display and simple navigation cluster provide easy function adjustment. Relay bypass of all signals for trouble-free operation in transmission critical environments

Available options include internal 5.1 channel Dolby® Digital (AC-3) and Dolby Digital Plus (E-AC-3) Encoding and SNMP monitoring..

AERO.one



AERO.one is well suited for main or backup transmission paths, providing high quality audio in a feature rich and cost effective manner.

Like other processors in the Linear Acoustic AERO family, the AERO.one accepts up to eight pairs of PCM audio (4 pairs via AES, up to eight pairs via SDI) to handle from two channel up to dual 5.1 + 2 channel audio programming. The unit can apply adaptive wideband and multiband, multistage ITU compliant loudness control and upmixing to the audio, with or without metadata guidance, to tame loudness and image shifts while preserving more of the original content than previously possible.

Upmixing is provided by the Hollywood-approved UPMAX® algorithm which provides a compelling 5.1-channel Audio experience while remaining completely downmix compatible. AERO.one includes the AutoMAX-II auto-detection algorithm to smoothly and automatically bypass upmixing when applied content is 5.1 discrete channels.

Upmixing and processing modes can be controlled by a combination of GPI contact closures and applied metadata.



Downmixed versions of the main programs are available at all times. These signals can be either a stereo LoRo downmix or an industry standard LtRt surround encoded mix.

Metadata can be applied, if available, via the VANC space of an applied HD-SDI signal or from a standard serial input to control of upmixing and processing functions. Extensive protection is provided to protect viewers from the audible effects of incorrect or missing metadata.

AERO.one Specifications:

Processing Structure

Loudness control using multiband/multi-stage AEROMAX® dynamic range engine and upmixing via UPMAX® with AutoMAX-II. 5.1+2 loudness control plus dual UPMAX upmixing engines and downmix out

AES Inputs and Outputs

All connectors are 75-Ohm BNC female; Four main inputs with 75-Ohm internal termination; Four main outputs; 48kHz AES DARS reference input and passive loop out; Bypass input and encoder output; Signal levels per SMPTE 276M/AES-31D-2001

Processing Delay

16 msec fixed (any mode), add 137 msec for Dolby Digital / Dolby Digital Plus encoding

Serial/Metadata Input

9-pin female D connector, 115 kbps, pinout per SMPTE 207M (RS-422/485)

HD/SD-SDI Auto-Sensing Input and Output

De-embed up to 16 channels from applied SDI signal, process and/or encode, re-embed up to 16 channels. Signal levels per SMPTE 292M/259M. Supports SMPTE 2020 A and BVANC metadata. Up to 1080i/60/59.94/50Hz supported.

GPIO Control Port

9-pin female D connector, 0-5V TTL levels, used to control upmixing and audio switching

Power Requirements

Dual PSU, 100-264 VAC, auto-sensing, 40 W maximum.

Dimensions and Weight

One rack unit – 1.75"H x 19"W x 12.5"D (44 x 483 x 317 mm),
Net weight: 6 lbs (2.72 kg)

Shipping Dimensions and Weight

22"W x 17"D x 7"H (559 x 432 x 178 mm) Net weight: 13 lbs., (5.90 kg), approximate.

Environmental

Convection 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 Telos Alliance 5-year warranty.

OPTIONS:

Option 02 – 5.1 channel Dolby Digital Plus (E-AC-3)/Dolby Digital (AC-3) encoding

Option 07 – SNMP Monitoring

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Linear Acoustic
108 Foxshire Drive
Lancaster, PA 17601
www.LinearAcoustic.com
sales@LinearAcoustic.com
+1.717.735.3611