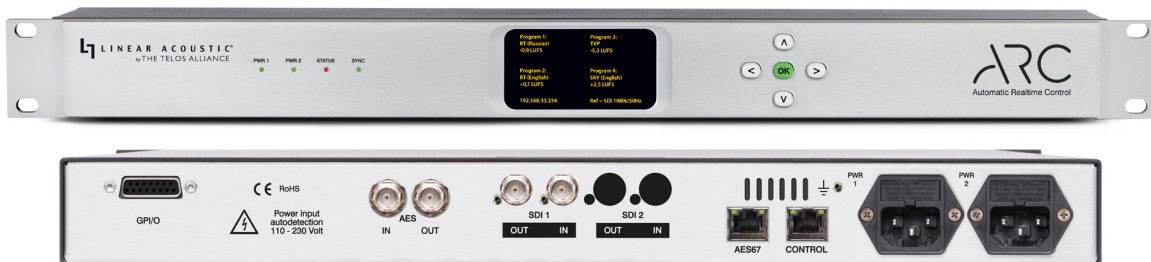


Linear Acoustic® ARC (Automatic Realtime Control) Next Generation Television Loudness Processor



OVERVIEW

The Linear Acoustic ARC is budget-friendly, easy-to-use, 2-channel television processor specifically designed for regions and applications that do not require support for multi-channel, coded audio, but where no-compromise audio quality is valued.

FEATURES

- Audio processing using the Linear Acoustic APTO® loudness adaptation algorithm
- Compliance for any loudness recommendation or regulation including EBU R-128 and ATSC A/85 (CALM)
- Processing for two PCM stereo or mono program streams
- Ability to specify target loudness and True Peak values
- 3Gb/s HD/SD-SDI and AES-3 I/O
- AES67 I/O supports SMPTE ST 2110-30 workflows
- Dual internal redundant auto-ranging power supplies
- SNMP
- Browser-based remote control

IN DEPTH

The Right Features at the Right Price

Until now, broadcasters looking for a straightforward, stereo, television processor had to make some difficult compromises.

Less costly solutions were budget-friendly, but the savings came at the expense of audio quality. Products that delivered excellent audio performance also included features such as support for multi-channel, coded audio and audience measurement watermarking that simply aren't required in many regions – and with a price tag that put them out of reach to smaller broadcasters.

Linear Acoustic ARC eliminates that compromise by offering a 1RU DTV audio processor for two independent PCM stereo or mono program sources that delivers the viewer-pleasing audio upon which Linear Acoustic has built its reputation

APTO Processing

ARC features the Linear Acoustic APTO loudness adaptation algorithm which carefully controls levels in a way that preserves transients, sonic image, and the artistic intent of the original audio source while still ensuring full compliance with any loudness recommendation or regulation including EBU R.128 and ATSC A/85 (CALM).

Simple, Straightforward Setup

Setting up ARC couldn't be simpler: Select a suitable adaptation profile for your programming from the ample list of factory presets, adjust a single control to determine the amount of overall processing desired, set the desired loudness target, and walk away with confidence.

A front panel navigation cluster is used for initial setup, while a web-based, browser- and OS-agnostic remote user interface makes more detailed setup and monitoring easy and convenient on any computer or mobile device. A front panel color LCD display clearly shows audio levels and loudness information.

Ready for Today, Ready for the Future

I/O includes AES-3, 3Gb/s HD/SD-SDI, and AES67, making ARC suitable for use in today's typical broadcast facilities, but also compliant with SMPTE ST 2110-30.

SPECIFICATIONS

Processing

- Linear Acoustic APTO® Loudness Adaptation algorithm; processing for two stereo or mono programs.

AES-3 I/O

- One 2-channel input and one 2-channel output via 75 Ohm BNC female connectors, internally terminated; signal levels per SMPTE 276M/AES-3ID-2001

SDI I/O

- One auto-sensing 3Gb/s HD/SD-SDI (SMPTE ST425/292M/259M) input and one output via 75 Ohm BNC female connectors, internally terminated; video formats up to 1080i/60/59.94/50Hz

AES67 I/O

- 16-channels of bi-directional AES67 I/O in support of SMPTE ST 2110-30 workflows

Reference

- 48kHz reference via SDI, PTP, AES-3, or internal clock

Sample Rate/Resolution/Frequency Response

- 48kHz, 24-bit, 20Hz – 20kHz

Ethernet

- Two Gigabit RJ-45 connections – one for AES67, one for networked remote control

Parallel GPI/O Control Port

- 15-pin female D connector, 0-5V TTL levels, 5 GPI/O inputs, 5 GPI/O outputs

SNMP

- Traps include loudness above/below target, loudness within target window, change in reference, and power supply status

Front Panel Controls and Indicators

- 5-key navigation cluster; graphical color LCD display; LED status indicators for each power supply and reference

Power

- Dual internal redundant auto-ranging power supplies, each rated at 100-264VAC, 50/60Hz, 40 Watts maximum

Dimensions and Weight

- 19" W x 9" D x 1.75" H (approximately 48.2 x 22.9 x 4.5 cm)
- Net weight: Approximately 9.0 lbs (4.08 kg)
- Shipping weight: Approximately 12.0 lbs (5.44 kg)

Environmental

- Operating: 0 to 50 degrees C
- Non-Operating: -20 to 70 degrees C

Intended Location

- Telecommunications center or dedicated computer/machine room

Regulatory

- North America – FCC and CE tested and compliant with UL-approved power supplies
- Europe – Complies with European Union Directive 2002/95/EC on the restriction of 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 Telos Alliance 2-year limited parts and labor