

Audio Loudness problems are nothing new. For years broadcasters have had the challenge of providing audio and video content to their target audience while minimizing complaints about the drastic variations in audio loudness between program and commercial.

There are two main complaints:

1. Commercial Loudness
2. Channel to Channel loudness variation.



As more and more channels with inconsistent audio levels are distributed to the home, public annoyance has increased. Some recent studies have shown up to a 17dB deviation in perceived loudness of programming between channels. Home listeners have had to tolerate this problem by either muting the commercials or adjusting the volume as they watch their programs.

Evertz has recognized this dilemma and presents IntelliGain® as the solution

This technology can be applied to a number of Evertz products, including frame synchronizers, protection switches, audio embedders and de-embedders just to name a few.

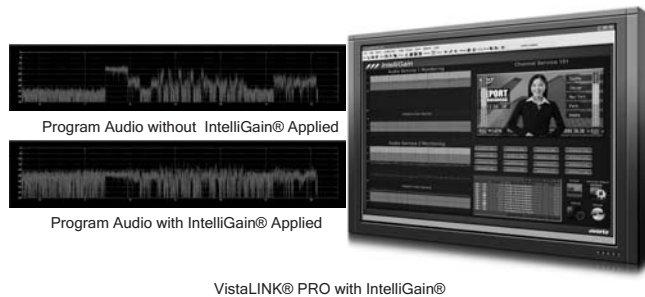
IntelliGain® Offers:

- Consistent audio loudness levels within a channel and/or program
- Automatic detection and level adjust for loud commercials
- Gain control within a program interval to preserve audio dynamic range
- Artifact-free transitions between program and commercials
- Elimination of drastic volume changes during commercials and interstitials
- Fully integrated Dynamic Range Processor, also referred to as a compander
- Ideal for aggregator applications and multi-channel playout facilities (DTH, Cable, IPTV)
- VistaLINK® controlled and monitored!

IntelliGain® processes long term trends in the audio content and uses a multi-minute time co-efficient, which applies a smooth attack producing the final target loudness output. IntelliGain® processes audio programs of various or mixed configurations, such as mono, stereo, or multi-channel. When coupled with an Evertz audio product that is equipped with a Dolby decoder, IntelliGain® can extract program configuration information from Dolby-E™ or AC-3 stream and configure itself accordingly to account for a multi-channel arrangement.

IntelliGain™ also incorporates an onboard Compressor, Peak Limiter and Expander, also referred to as a compander, for professional Dynamic Range Processing. The use of the compander lends perfectly to many and can be locally enabled or disabled depending on the application requirement. The compander can be configured to apply different profiles based on the content type to ensure optimum dynamic range processing.

VistaLINK® enables control and configuration capabilities via Simple Network Management Protocol (SNMP). This offers the flexibility to manage the module status monitoring and configuration locally or remotely.



VistaLINK® PRO with IntelliGain®

► Ordering Information

Notes • +IG must be specified at time of order with supporting product - eg: [model]+IG
+IG IntelliGain® Inter-Program and Intra-Program Loudness Control

► Supported Products

7700R2x2-HES+IG	2x2 HD/SD Router with SoftSwitch™	7812UDX-AES8-HD+IG	HD Up/Down/Cross Converter with AES I/O and Optional Embedded Compact Flash
7746FSE-IG	SD-SDI Frame Synchronizer	7812UDX-AES8-3G+IG	3G/HD Up/Down/Cross Converter with AES I/O and Optional Embedded Compact Flash
7746FS-EAES4-IG	SD-SDI Frame Synchronizer with AES support - 4 AES audio pairs and embedded audio processing	7812UC-AES8-HD+IG	HD Up Converter with AES I/O and Optional Embedded Compact Flash
7746FSE-HD-IG	HD Frame Synchronizer	7812UC-AES8-3G+IG	3G/HD Up Converter with AES I/O and Optional Embedded Compact Flash
7746FS-EAES4-HD-IG	HD Frame Synchronizer with 4 AES audio pairs and embedded audio processing & AES support	7812HDC-AES8-HD+IG	HD Down Converter with AES I/O and Optional Embedded Compact Flash
7746FS-EAES8-DD-HD+IG	HD/SD-SDI Frame Synchronizer with Dolby E/AC-3™ Decoder & 8 AES Support	7812HDC-AES8-3G+IG	3G/HD Down Converter with AES I/O and Optional Embedded Compact Flash
7746FS-EAES8-DD-AC3E-HD+IG	HD/SD-SDI 8 AES Frame Synchronizer with Dolby Decoder and Dolby Digital (AC-3™) Encoder		