..... noisypeak

the apex of video over ip solutions

Datasheet

listenperfect

High-density, high-performance loudness control software for broadcast operators and content providers



Automated loudness controls for hundreds of linear streams



Video passthrough



High-density software solution



Support SPTS/ MPTS inputs



ITU-R BS.1770 compliance



solution brief

Audio loudness control is an essential part of the audio-video workflow directly correlating to users' experience and content consumption satisfaction. Loudness control is a recognised point of contention and is addressed by ITU-R BS.1770-4 recommendation for algorithms to measure audio programme loudness and true-peak audio level.

Noisypeak ListenPerfect covers the following key goals of loudness controls:

- · Modern digital sound transmission techniques offer an extremely wide dynamic range:
- \cdot Modern digital sound production and transmission techniques provide a mixture of mono, stereo and 3/2 multichannel formats
- \cdot The listeners desire the subjective loudness of audio programmes to be uniform for different sources and programme types
- · The purpose of loudness control in programme exchange, in order to reduce audience
- \cdot It is essential to have a single recommended algorithm for objective estimation of subjective loudness;
- · Sudden and abrupt changes in audio levels may lead to an uncomfortable listening experience

key features

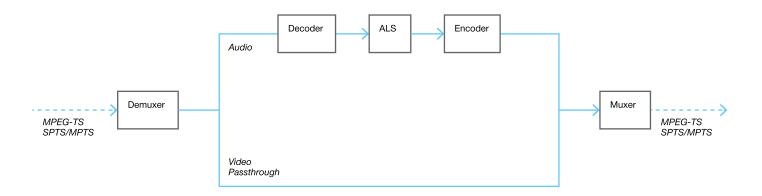
- · Normalize audio loudness to a target level on a per program basis
- · Simultaneously process multiple programs out of SPTS/MPTS sources
- · Generate multicast/unicast SPTS outputs
- · Pass-through video with audio synchronization
- · "Set and forget" loudness control
- · User-controllable parameters for:
 - · Integrated Loudness
 - · Maximum True Peak
 - · Loudness range
- · Adaptive real-time adaptation to the source audio-material
- · Integration with external systems via SNMP, JSON/REST APIs
- · A part of the Noisypeak UEN2/Connected transcoding solution
- · handles AAC, MP2/3, AC3, EAC3 at inputs

we offer

Noisypeak ListenPerfect software solution implements almost real-time audio loudness control with the capability to control 200+ channels on a single Dual Xeon server. The solution provides settings to enable conformance to ITU-R BS.1770 including:

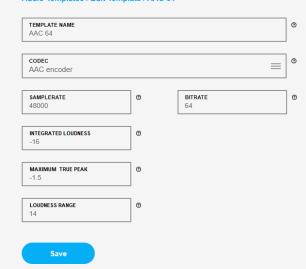
- · EBU R128
- · ATSC A/85
- · TR-B32
- · OP-59

noisypeak automatic loudness control solution

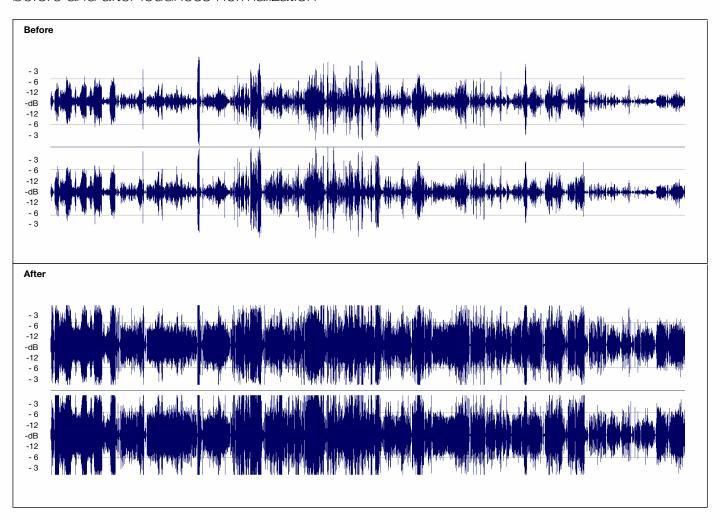


Noisypeak Audio Templates

Audio Templates / Edit Template / AAC 64



before and after loudness normalization





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