

VISUAL CONTROL OF AUDIO

Since the early 90's Pinguin developed software to analyze and visualize sound in the most musical and meaningful way. Our tools help engineers to review, evaluate and improve their work.

Ahead of the standards

Always being part of the audio industry Pinguin is involved in defining and implementing today's loudness standards. Precise and ergonomic tools assure broadcasters, video post facilities and music studios that they work according to international requirements.

What customers say

"Pinguin Instruments are faster and more musical than any other tool I used"

"These instruments make my work better, and no one else provides them."

Worldwide applications

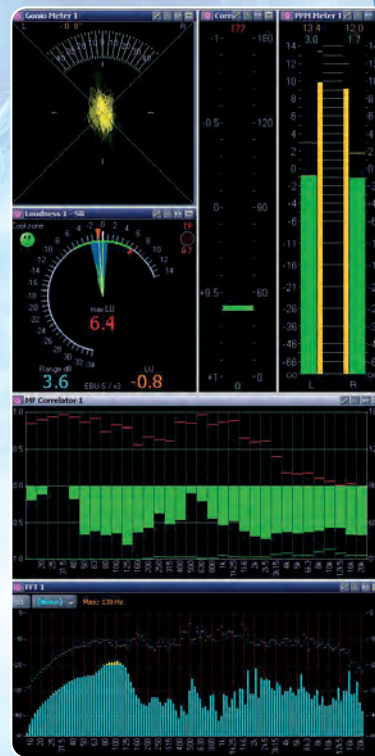
When the Technology and Production Center Switzerland (tpc) adapted its HD playout centre in Zurich to loudness metering according to EBU R128, TCP is relying on a networked installation of ten PG-AMM audio multi-meters. Six tape ingest streams measured simultaneously, each with 16 audio tracks, stereo and 5.1, German and foreign languages.

"With this installation, we changed our ingest process and the on-air operations to loudness metering. Thanks to the networking and integration of the Pinguin audio meters the new work flow is largely automated, avoiding extra work for our engineers", commented Alfio Di Fazio, project leader at tpc Audio Technology in Zurich.



TRUE PEAK PERFORMANCE

- stereo, 5.1, advanced 3D-audio
- Multi Target Loudness Metering for Broadcast, Internet and all optical media
- ultra fast response, pulse accurate real time visuals
- scalable to all display formats
- custom work spaces
- precision true peak metering
- FFT and RTA real time spectrum display
- ASIO integration or VST-Plugin for DAW
- new multi frequency correlator
- flexible routing for up to 192 channels
- 20 Tools made by field experienced engineers
- client-server based network data logger, open protocol
- logger supported by manufacturers (Stagetec, Grimm, etc.)
- batch processing loudness normalizer
- supports MAC and PC
- EBU/R128, A/85 & ITU BS1770 compliance



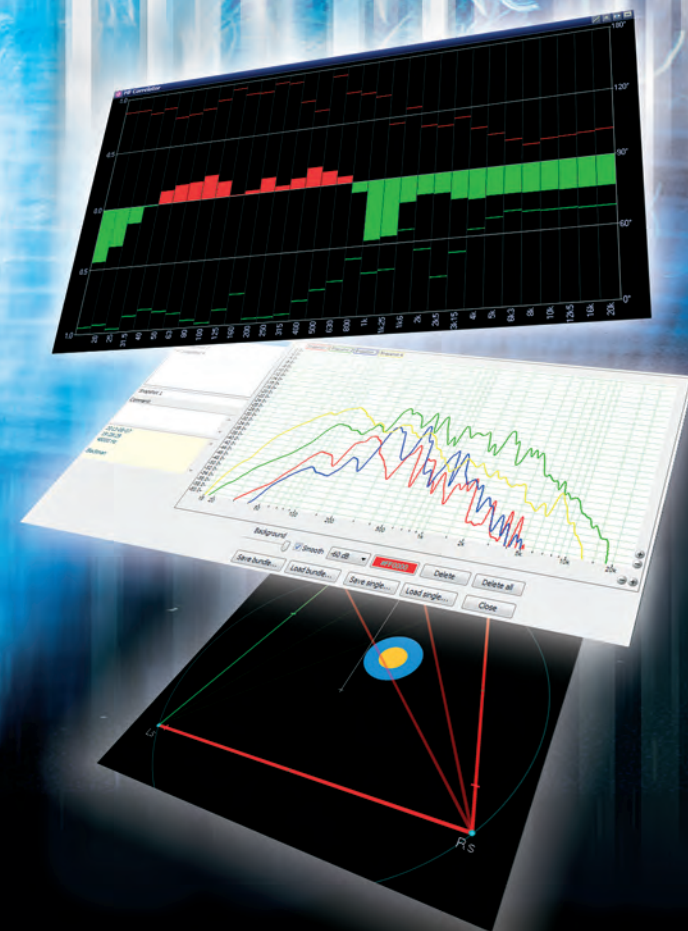
REMOTE

android app for remote control available



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AUDIO METER THE KEY TO QUALITY

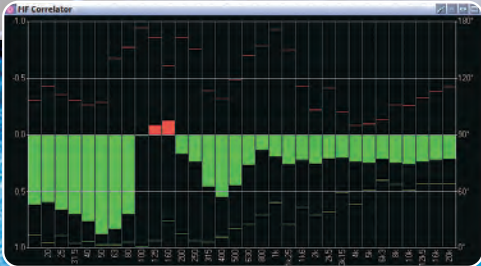


MASTER CLASS SOFTWARE

SPATIAL METER

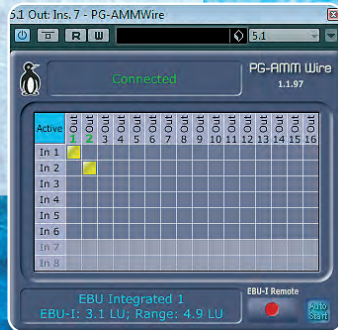
It's the latest of our spatial visualizers which were used by our R&D to create highest quality upmixer technology with a wide and natural stereo image.

Displays correlation in multiple frequency bands. Perfect for monitoring and improving any stereo, 5.1 or 3D mix.



DAW CONNECTIVITY / PG-AMM WIRE

Plug in for VST, RTAS (Mac and PC), AU (Mac). In WireMode a "virtual cable" connects the PG-AMM to your DAW without the need of a sound card.



LDN VIEWER

This free tool lets you browse through the logged loudness data of your LdnServer. Analyses all your broadcasted program with arbitrary start stop times and dates without the need to measure the protocol recording again.



20 TOOLS

EBU LOUDNESS

EBU-M/S Loudness displays momentary or short-term loudness (LU), loudness range & true peak levels with a high accuracy. A separate numerical field shows MAX_M or MAX_S. A loudness target range can be defined by the user, which is highlighted on the meter's scale. Set a personal target level when using the instrument for CD or Internet mastering or radio programming, where the current EBU target is too low. The user defined target is always the 12:00



position on the scale. Maintaining the EBU concept even with a different target level is THE argument against the loudness dispute! Please note our study about hidden normalizer mechanisms used nowadays in iTunes, Spotify and YouTube.

PINGUIN users get a free subscription of our R&D results including target values, currently used on the web.

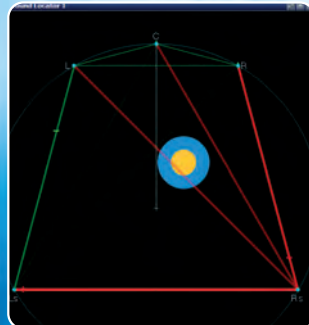
EBU LOUDNESS NUMERICAL

Numerical integrated R128 loudness (PL) and range (LRA) includes the required start stop reset mechanism as well as a pause function to eliminate a part of the program from measuring. Remote controlled from the PG-AMM Wire and smart phone app. PlugIn or special custom solutions, e.g. tape ingest automation systems. A new report generator for printing an EBU compliance report and attach it to your audio material. A statistical "histogram" analysis view is shown immediately after the stop command.



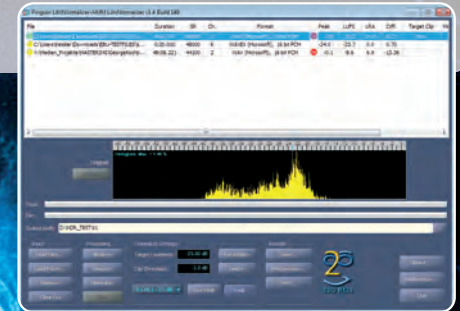
SURROUND LOCATOR

The Surround Locator observes the total loudness in the surround field, its position, as well as phase relations between audio channels in a 5.1 surround setup.



LDN NORMALIZER

Analyze and normalize the loudness of multiple audio files with one click. After normalizing a printable EBU compliance report it is generated on demand. A statistical "histogram" helps judging your dramatic flow of a long term program.



LEVEL METER

Supports several industry standards: PEAK, TruePeak, PPM, VU, the K-System including an advanced K with ITU weighting. Useful weapon in the loudness war and for matching current loudness normalizers built-in in popular music streaming internet services. Shows up to 2 standards per channel at the same time to derive advanced attributes like short term dynamics etc..



AVAILABLE BUNDLES

- stereo (CD Mastering, Mixing stages)
- post pro (5.1 tools for level and field correlation, DOLBY LEQM included)
- broadcast (more windows at the same time, all of the above, +data logging, +batch processing)

Any bundle is fully customizable with instantly recallable work-spaces and an internal matrix supporting up to 192 i/o channels that can be routed to any of the instruments.

Feel free to ask for advanced custom solutions for your organization. They can save a lot of time.