LOUDNESS METER SOFTWARE OPTION

Cobalt's Loudness Meter software works with the award-winning OGCP-9000 Remote Control Panel and our new WinOGCP Desktop Virtual Control Panel to provide a flexible, complete solution for ingest or on-air loudness metering, assessment, and records. An intuitive touch screen control interface offers simple "pushbutton" session start and stop along with clear-cut clear pass/fail loudness assessment for QC operators.



OGCP-9000 REMOTE CONTROL PANEL WITH +LM

True peak level detection, error tracking and logging, and other detailed criteria offer detailed assessments and logging for admin/engineering. Configurable automatically triggered sessions and report generation (timecode range, signal level-based, and automatic daily session start/stop/restart) provide for automation-based session and records generation to help document compliance with loudness regulations.

Easy to use, yet comprehensive, the option ensures thorough audio level and loudness assessment, and is ITU BS.1770, ATSC A/85, and EBU R128 compliant. Because cards forward the audio measurement data to the control panel over your plant's Ethernet network, the control panel does not need co-location or insertion within the video/audio stream.

The Audio Loudness Meter software works with Fusion3G[®] and most 9000 series COMPASS[®] cards. The software can be ordered with product purchase, or purchased for cards already installed and activated using a downloadable feature key (no need to remove or replace cards).

Loudness Metering graphing display mode shows a historical plot of loudness over a selectable time span from 45 seconds to 24 hours. Where loudness deviates from user-configurable thresholds, these conditions are clearly displayed by a red background or blue background (respectively indicating over-level or under-level intervals).



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FEATURES ITU BS.1770, ATSC A/85, and EBU R128 compliant Accommodates any combination of audio sources handled Flexible monitoring modes include configurable dBFS bar by host card: embedded, AES, analog, or decoded Dolby® graph meters, loudness displays and error thresholds E, Dolby Digital, or Dolby Digital Plus Intuitive user interface with touch screen control Detailed web-browser session log reports with CSV Eight channel PPM metering True peak level detection raw data output available Loudness error analysis suitable for live, post production Comprehensive error tracking and logging Pre/post metering allows comparison of card pre and post and ingest environments loudness-processed streams (available on 9086 and all Fusion3G[®] cards)

Automated session generation via daily rollover stop/restart, timecode range, and signal-level threshold triggering

Average: -24.8 LUFS / 2.2 Δ from target

Session

Session

Loudness Meter ID:

Start Date and Time

End Date and Time

Calculated Recommendation:

The Loudness Meter generates a report (in both .html and .csv formats) whenever a session is manually or automatically conducted.

Shown here is a summary example of a generated session report. Loudness metering and log reports can be set up to flag numerous loudness-related data (the most basic being loudness exceeding a threshold delta (Δ) from the target LU value as shown here).

To further assist in ready assessment of a report, these configurable deltas can be used to unambiguously tag a session as ACCEPT or REJECT.

If any errors exceeding user-defined thresholds occur, these errors are listed in a detailed log.

In a session where errors were logged, the Error Log displays a list of the errors, along with error type and session/timecode correlation, and offending channel(s) where applicable.

Error Log												
Error No.	T session Error Start	T timecode Error Start	T time of day Error Start	Error Duration (sec:tenths)	Error Type	LUFS	L	R	С	Ls	Rs	
1	00:00:03.5	02:28:58.15	16:46:21	00:00:03.3		-15.5	-65.9	-64.6		< -150	-30.9	
2	8.80:00:00	02:29:03.28	16:46:26	00:00:00.9	PK	_	_	_	-0.20	_	_	_
3	00:00:09.0	02:29:04.02	16:46:26	00:00:10.6		-6.8	-66.1	-64.5		< -150	-30.9	

)) SPECIFICATIONS										
Standards	Audio Input	dBFS Scale Range								
ITU BS.1770, ATSC A/85, and EBU R128	8-Ch confidence monitoring	0 to -70 dBFS; absolute or configurable relative								
	5-Ch (L, R, C, Ls, Rs) LKFS assessment per ITU 1770									
LKFS Scale Range	and ATSC A/85 and EBU R128	Averaging								
0 to -70 LKFS	Accommodates embedded, AES, analog decoded	Simultaneous session (infinite) and short-term; configu								

ORDERING INFORMATION

+LM-P Audio Loudness Metering Software Co-License for OGCP-9000 or WinOGCP

+LM-C Audio Loudness Metering Software Card Co-License. Pre/post metering available only with 9086 and all Fusion3G® cards

Dolby®E or AC-3 audio per host card

igurable short-term averaging period

OGCP-9000 2RU Remote Control Panel for Fusion3G®/ COMPASS® Cards (Specify country of destination for power cord)

WINOGCP Virtual Desktop-based Remote Control Application for Fusion3G[®]/COMPASS[®] Cards

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9985 IRD-A Post Proc

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12/17/2011 14:29:50

ACCEPT

panel-by-panel basis suiting your needs, host cards and control panels use individual co-licenses. Co-licenses are required on both the host card(s) and Control Panel(s), with card +LM-C co-licenses and panel +LM-P co-licenses comprising the overall option.

To allow you to provision loudness metering on a card-by-card and



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