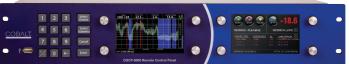


# **LOUDNESS METER SOFTWARE OPTION**

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.



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.

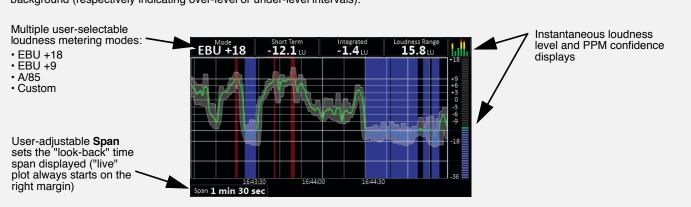
True peak level detection, error tracking and logging, and other detailed criteria offer

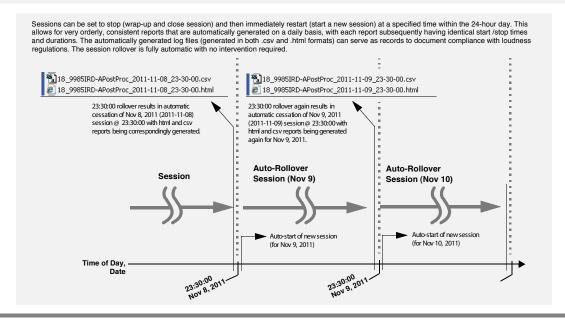
OGCP-9000 REMOTE CONTROL PANEL WITH +LM

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).







## **LOUDNESS METER SOFTWARE OPTION**

#### **FEATURES**

ITU BS.1770, ATSC A/85, and EBU R128 compliant

Intuitive user interface with touch screen control

Eight channel PPM metering

Comprehensive error tracking and logging

Calculated Recommendation:

Automated session generation via daily rollover stop/restart, timecode range, and signal-level threshold triggering Accommodates any combination of audio sources handled by host card: embedded, AES, analog, or decoded Dolby® E, Dolby Digital, or Dolby Digital Plus

True peak level detection

Loudness error analysis suitable for live, post production and ingest environments

Flexible monitoring modes include configurable dBFS bar graph meters, loudness displays and error thresholds

Detailed web-browser session log reports with CSV raw data output available

Pre/post metering allows comparison of card pre and post loudness-processed streams (available on 9086 and all Fusion3G® cards)

# 

ACCEPT

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 ( $\Delta$ ) 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)	Ептог Туре	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

ITU BS.1770, ATSC A/85, and EBU R128  $\,$ 

### **LKFS Scale Range**

0 to -70 LKFS

### Audio Input

8-Ch confidence monitoring 5-Ch (L, R, C, Ls, Rs) LKFS assessment per ITU 1770 and ATSC A/85 and EBU R128

Accommodates embedded, AES, analog decoded Dolby®E or AC-3 audio per host card

#### dBFS Scale Range

0 to -70 dBFS; absolute or configurable relative

#### **Averaging**

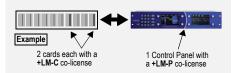
Simultaneous session (infinite) and short-term; configurable short-term averaging period

#### 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.

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



**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