

www.dsmbtech.com
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LEPTON RANGE

CLOSED CAPTION INSERTER/EXTRACTOR/MONITOR



The LEPTON microCaption is a micro-miniature (credit card sized) Closed Caption unit that provides for versatile Closed Caption Insertion, Extraction and Monitoring to and from 3G/HD/SD-SDI Video, carried in one of the vertical blanking lines as specified in the OP-47 and CEA-708 standards. Closed Captioning data is inserted or extracted via the Ethernet interface.

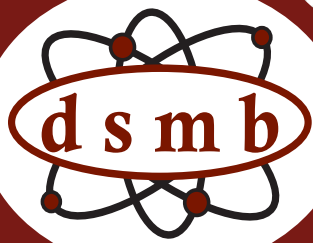
Each unit can insert, extract and monitor 1 channel of Closed Captioning. The monitor output contains the captions displayed 'burnt' within the video image and the unit provides real time logging to enable any compliance issues to be analysed.

The 3G/HD/SD-SDI Video input includes automatic cable equalisation, and all digital outputs are reclocked for optimum signal integrity. In addition, the input is passively switched to the output in the event of a failure.

Remote control, monitoring and diagnostics is provided enabling internal parameters to be monitored using an Ethernet interface which allows the remote control and monitoring via a in-built web interface.

Highlights

- 1 Channel of Closed Caption Insertion, Extraction or Monitoring
- 3G/HD/SD-SDI Video
- OP-47 and CEA-708 compliant (others on request)
- Input to Output Passive Loop-Through on Failure
- High Performance Ultra-Reliable Design
- Web Interface for Remote Control and Monitoring



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General Specification

Power

Type:	DC
Connectors:	Locking 2.5mm
Voltage:	12vdc
Power:	30W maximum

Control

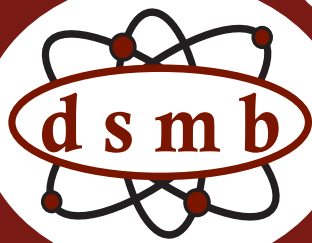
Network:	Ethernet 10/100BaseT, TCP/IP, RJ45
Remote Control:	Internal webserver
Local Control:	In-built menu system for signal control and monitoring
Monitoring:	Remote monitoring of all internal voltages, power consumptions, temperatures and alarms.

Physical

Size:	24mm (1") high, 54mm (2") wide, 85mm (3.25") excl. connectors
Weight:	100g (3.5oz)

Environment

Temperature:	0 - 40°C [32-104°F]
Humidity:	5% - 95% non-condensing
EMC:	EN55103-1, EN55103, FCC Part 15
Safety:	EN60950



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Interface Specifications

CAPTIONS

Channels:	1SDI channel
Standards:	OP-47, CEA-708. Others on request
Input:	3G-SDI, HD-SDI and SD-SDI
Output:	Reclocked copy of Input, unprocessed
Monitor:	Reclocked copy of output with captions displayed in video image

SDI

Channels:	1x Input, 1x Output, 1x Monitor Output
Connectors:	HD-BNC
Impedance:	75Ω ±0.1%
Return Loss:	<15dB 270MHz - 1.5GHz, <10dB 3GHz
Data Rates:	2.97Gb/s, 2.97/1.001Gb/s, 1.485Gb/s, 1.485/1.001Gb/s, 270Mb/s
Standards:	SMPT 424M/292M/259M
Receiver:	Cable Equalization (Belden 1694A) = 120m [365ft] @ 2.97Gb/s 200m [665ft] @ 1.485Gb/s 400m [1310ft] @ 270Mb/s

Ordering Information

LEPTCCIN	1-Channel Closed Captioning Inserter
LEPTCCEX	1-Channel Closed Captioning Extractor
LEPTCCMN	1-Channel Closed Captioning Monitor

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