yelobrik[®] CHD 1802 yelloGUI compatible

SFP Option Insta

HDMI Input

SDI Outputs

Fiber Output

Power

Physical

Ambient

Model #

Includes

3Gbit HDMI to SDI Converter

- Supports SD/HD/3G -SDI formats
- 3D support
- 2 x SDI outputs
- Optional SDI fiber output
- HDMI embedded audio passed transparently
- HDMI present LED indication
- yelloGUI compatible to access additional internal settings

The CHD 1802 is a compact HDMI to SDI converter It is an ideal solution for any application which requires a broadcast quality SDI signal derived from an external HDMI source. Any audio present in the HDMI stream will be embedded into the corresponding channels on the SDI output.

The module is also compatible with the yelloGUI software package, which provides access to a host of additional internal settings

An SDI fiber output is also provided with a variety of plug in SFP options available.



SDI Fiber Transmitter Options

Model	Description	POwer							
OH-TX-1-LC / ST / SC	SFP Fiber TX - Singlemode - LC, ST or SC conn 10km	-5dBm (1310nm)							
OH-TX-0-850-MM	SFP Fiber TX- Multimode - LC conn 300m	-5dBm (850nm)							
SDI CWDM Fiber Transmitter Options									
Model	Description	Power							
OH-TX-4-XXXX	CWDM SFP Fiber TX - Singlemode LC Conn 40km XXXX=Wavelength. 18 according to ITU T G692.2 1270nm through 1610nm	-1dBm							

Note: For legal reasons, HDMI capture devices from LYNX Technik AG are designed not to capture, convert or transmit video or audio from HDCP copy-protected sources (e.g. Satellite receivers, Cable receivers, etc.)

Video Output Resolution

The SDI output format is automatically selected based on the detected HDMI input resolution. The module does not have an internal scaler, so if the input resolution does not match any of the supported SDI formats then the module will automatically select an appropriate SDI standard with a similar number of lines and pixels and map the signal into the SDI output, which may result in some image cropping (cut) or boxing (blanking)

The table below shows the input to output resolution settings that are applied is AUTOMATIC mode. The yelloGUI interface provides the ability to manually set the output resolution interdependently of the input resolution. For these cases the table below also lists the conversion mode applied to optimally fit the manually selected SDI output format by either cropping or boxing the image (C=Cut and H=Box / V=Vertical and H=Horizontal)

	HDMI Input Resolution									
SDI Output	SDTV 720x [56]25	720p 1280×720	1080i 1920×1080	1080p 1920×1080	VGA 640x480	SVGA 800×600	XGA 1024×768	WXGA 1280×768	WUXGA 1920X1200	
<auto></auto>	SDTV	720p	1080i	1080p	720p	720p	1080p	1080p	1080p	
SDTV	n.a.	С	С	С	V=C / H=B	V=C / H=B	С	С	С	
720p	n.a.	n.a.	n.a.	С	В	V=C / H=B	V=C / H=B	V=C	С	
1080i	В	В	n.a.	n.a.	В	В	В	В	V=C	
1080p	n.a.	В	n.a.	n.a.	В	В	В	В	V=C	

Specifications subject to change

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Converter

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Up to 8 channels embedded audio in HDMI is passed transparently

SMPTE ST 259M (SDTV), SMPTE ST 292-1 (HDTV 1.5Gb/s) SMPTE ST 424M (3Gb/S) supporting ST 425-1 Level A and ST 425-2 (3D)

720p and 1080p (23.98/24/25/29.97/30/50/59.94/60 Hz)

Optional plug in SFP for optical SDI output (see fiber options table)

Size: 123mm x 90mm x 22mm (4.84" x 3.54" x 0.86") - including connectors

+12VDC @ 4W nominal - (supports 10 - 14VDC input range)

Module, AC power supply, HDMI + USB cable, transport case

5 - 40°C (41 - 104°F) 90% Humidity (non condensing)

CHD 1802 - (EAN# 4250479318328)

2 x SDI video, 75 Ohm BNC. (both have the same signal - NOT dual link)

3D compatible input using type A connector

3Gbit

Technical Specifications

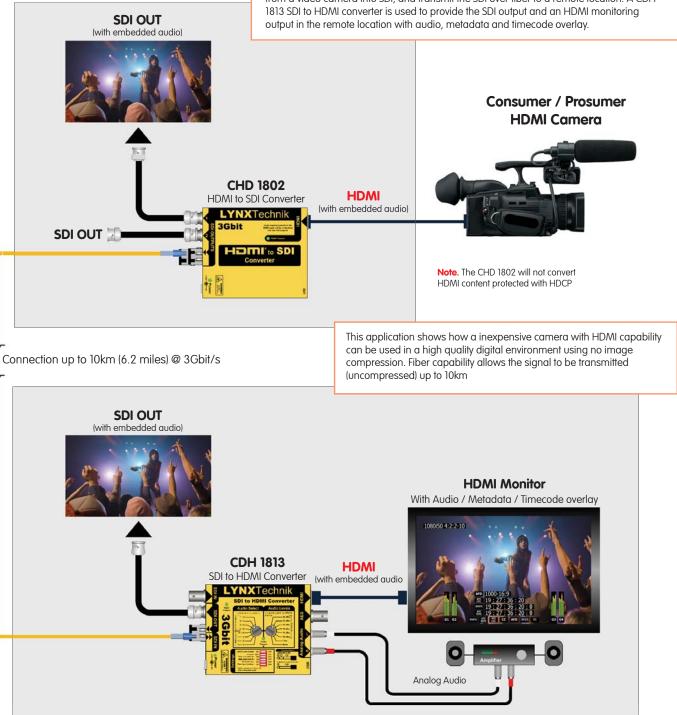
Multi-standard output SDTV (525/625)

1080i (50/59.94/60 Hz)

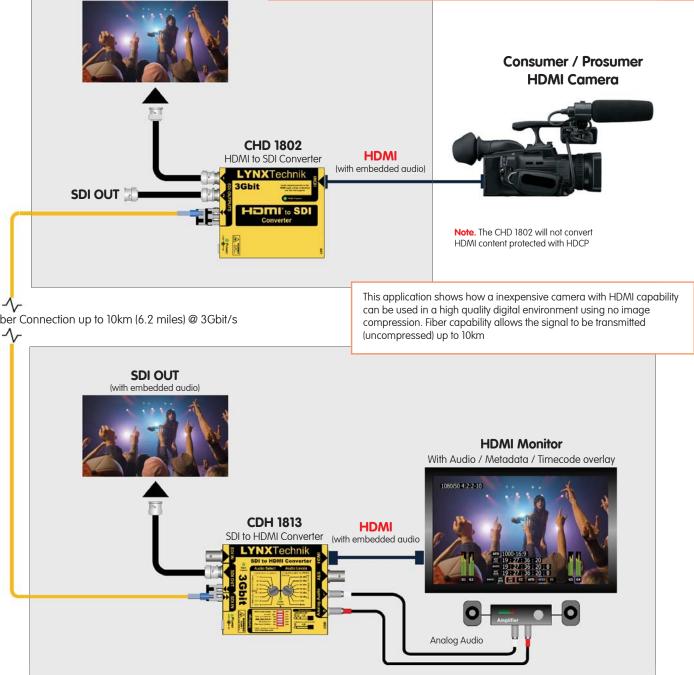
Weight: 175g (6.17oz)

yelobrik[®] CHD 1802 yelloGUI compatible

CHD 1802 Application



Fiber Connection up to 10km (6.2 miles) @ 3Gbit/s



Note. CDH 1813 overlay mode can be switched on or off. Overlay is monitoring only, the module does not generate timecode or metadata.

LYNXTechnik AG[®] Broadcast Television Equipment

LYNXTechnik AG Broadcast Television Equipment



An example application is shown below, using the CHD 1802 to convert the HDMI output from a video camera into SDI, and transmit the SDI over fiber to a remote location. A CDH

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