# yellobrik<sup>®</sup> CHD 1802-1 yelloGUI compatible

## 3Gbit HDMI® to SDI Converter

- SDI video output formats up to 3Gbit (1080p60)
- 3G SDI Level A and Level B support
- Support for single link 3D formats
- 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 1802-1 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.

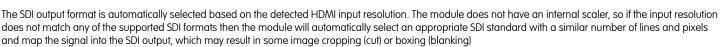
An SDI fiber output is also provided with a variety of plug in SFP options available.

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-4-XXXX-LC	CWDM SFP Fiber TX - Singlemode LC Conn 40km XXXX=Wavelength. 18 according to ITU T G692.2 1270nm through 1610nm	-1dBm			
CHD 1802 DD+ Variants					

Model	Description			
CHD 1802-DD+	Compressed Audio-Format ( Data-type 21/0 - Enhanced AC-3 Burst Length 6144 )			
CHD 1802-DD+ Pro	Compressed Audio-Format ( Data-type 21/0 - Enhanced AC-3 Burst Length 6144 ) Enhanced Audio-Format ( Data-type 16/0 - ATRAC-X Burst Length 2048 )			

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 table below shows the input to output resolution settings that are applied in 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 > Horizontal and Vertical crop, B > Horizontal and Vertical box, V=C / H=B > vertical crop and horizontal box, V=C > vertical crop only, N > Output retains the input video standard, I > Output is interlaced).

	HDMI Input Resolution								
SDI Output	SDTV 720× [525]625	720p 1280x720	1080i 1920×1080	1080p 1920×1080	VGA 640×480	SVGA 800×600	XGA 1024×768	WXGA 1280×768	WUXGA 1920X1200
<auto></auto>	SDTV	720p	1080i	1080p	720p	720p	1080p	1080p	1080p
SDTV	N	С	С	С	V=C / H=B	V=C / H=B	С	С	С
720p	N	Ν	N	С	В	V=C / H=B	V=C / H=B	V=C	С
1080i	В	B & I	N	I	В	В	В	В	V=C
1080p	N	В	N	Ν	В	В	В	В	V=C

CHD1802-1-rev08 Specifications subject to change



#### **Technical Specifications**

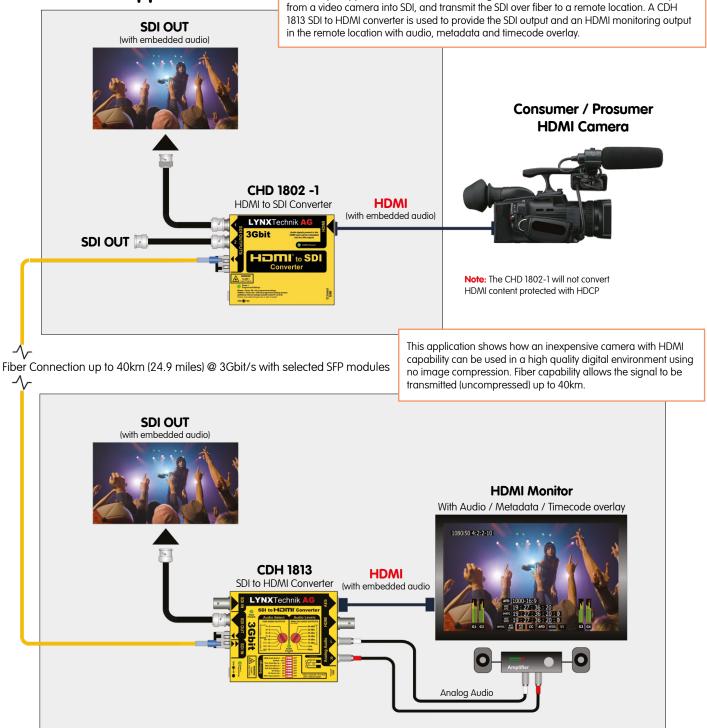
HDMI Input	3D compatible input using type A connector For a detailed list of supported formats please refer to the article in our knowledge base { www.lynx-technik.com > support > tech.support }
	Up to 8 channels embedded audio in HDMI is passed transparently
SDI Outputs	2 x SDI video, 75 Ohm BNC. (both have the same signal - NOT dual link) SMPTE 424M, SMPTE 292M, SMPTE 259M 3G Level A & B-DL & B-DS according to SMPTE ST 425-1 and ST 425-2 (3D) with image formats 1280 x 720 and 1920 x 1080 For a detailed list of supported formats please refer to the article in our knowledge base (www.lymx-technik.com > support > tech.support)
	Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz
Fiber Output	Optional plug in SFP for optical SDI output (see fiber options table)
Power	+12VDC @ 4W nominal - ( supports 10 - 14VDC input range )
Physical	Size: 123mm x 90mm x 22mm (4.84" x 3.54" x 0.86") - including connectors Weight: 175g (6.17oz)
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	CHD 1802-1 - ( EAN# 4250479318328 )
Includes	Module, AC power supply, HDMI + USB cable

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An example application is shown below, using the CHD 1802-1 to convert the HDMI output

### CHD 1802-1 Application



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

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LYNXTechnik AG<sup>®</sup> Broadcast Television Equipment

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