yelloGUI compatible



3Gbit **H□ I** 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.



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 1280x720	1080i 1920×1080	1080p 1920×1080	VGA 640×480	SVGA 800×600	XGA 1024×768	WXGA 1280x768	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	



Technical Specifications

HDMI Input 3D compatible input using type A connector 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 ST 259M (SDTVI, SMPTE ST 292-1 (HDTV 1.5Gb/s) SMPTE ST 4259M (SDTVI, SMPTE ST 292-1 (HDTV 1.5Gb/s) SMPTE ST 424M (3Gb/S) supporting ST 425-1 Level A and ST 425-2 (3D) Multi-standard output. SDTV (525/625) 720p and 1080p (23.98/24/25/29.97/30/50/59.94/60 Hz) 1080i (50/59.94/60 Hz) 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 - (EAN# 4250479318328) Includes Module, AC power supply, HDMI + USB cable, transport case							
SDI Outputs 2 x SDI video, 75 Ohm BNC. (both have the same signal - NOT dual link)	HDMI Input	3D compatible input using type A connector					
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) Multi-standard output. SDTV (525/625) 720p and 1080p [23.98/24/25/29.97/30/50/59.94/60 Hz) 1080i [50/59,94/60 Hz] 1080i [50/59,94/60 Hz] Power		Up to 8 channels embedded audio in HDMI is passed transparently					
SDTV	SDI Outputs	SMPTE ST 259M (SDTV), SMPTE ST 292-1 (HDTV 1.5Gb/s)					
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Weight: 175g (6.17oz) Ambient 5 - 40°C (41 - 104°F) 90% Humidity (non condensing) Model # CHD 1802 - (EAN# 4250479318328)	Power	+12VDC @ 4W nominal - (supports 10 - 14VDC input range)					
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	Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)					
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	Includes	Module, AC power supply, HDMI + USB cable, transport case					

Specifications subject to change



VEIODITE CHD 1802 yelloGUI compatible

CHD 1802 Application

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 1813 SDI to HDMI converter is used to provide the SDI output and an HDMI monitoring **SDI OUT** output in the remote location with audio, metadata and timecode overlay. (with embedded audio)

CHD 1802

HDMI to SDI Converter

HDMI

(with embedded audio)

Consumer / Prosumer HDMI Camera

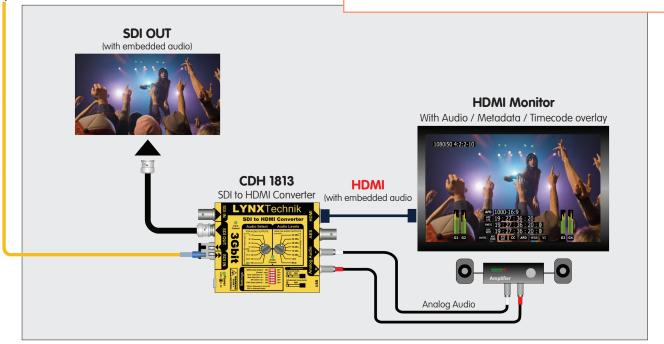


Note. The CHD 1802 will not convert HDMI content protected with HDCP

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

SDI OUT

This application shows how a inexpensive camera with HDMI capability can be used in a high quality digital environment using no image compression. Fiber capability allows the signal to be transmitted (uncompressed) up to 10km



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