

## 4K HDMI® to 12G SDI Converter

- Supports 12G / 6G / 3G / 1.5G / SD-SDI Signals
- 3G SDI Level A and Level B support
- 2x BNC and 1x optional Fiber SFP outputs
- 1x HDMI 2.0b input
- HDMI Embedded PCM Audio Passes Transparently
- HDMI present LED indication
- LynxCentraal and yelloGUI compatible for internal settings

The CHD 1402 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. Currently only PCM 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 and LynxCentraal control software, which provides access to additional internal settings.

An SDI fiber output is also provided with a selection of optional SFPs.

**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.).

### SDI Fiber Transmitter Options

Model	Description	Power
OH-TX-12G-LC	SFP Fiber TX - Singlemode - LC connector - 10km*	0.5dBm
OH-TX-4-12G-LC	SFP Fiber TX - Singlemode - LC, ST or SC conn. - 40km*	3dBm
OH-TX-12G-XXXX-LC	CWDM SFP Fiber TX - Singlemode LC Conn. - 10km* XXXX=Wavelength. 18 according to ITU T G692.2 1270 - 1610nm	3dBm

\* Distance is an approximation

## Video Output Resolution

The module does not have an internal scaler. If the input resolution does not match any of the supported SDI formats, the module by default will select an appropriate SDI standard with a similar number of line pixels and map the signal into the SDI output. This may result in some image cropping (cut) or boxing (blanking) of the overshot area. To change the output format, please connect the module to a PC or Mac via either yelloGUI or LynxCentraal.

HDMI Input	SDI Output				
	SDTV	720p	1080i	1080p	2160p
<auto>					
SDTV [720x 525/625]	N	B	B	B	B
720p [1280x720]	C	N	B	B	B
1080i [1920x1080]	C	C	N	N	B
1080p [1920x1080]	C	C	N	N	B
2160p [3840x2160]	C	C	C	C	N
VGA [640x480]	B	B	B	B	B
SVGA [800x600]	C	B	B	B	B
XGA [1024x768]	C	CV/BH	B	B	B
WXGA [1280x768]	C	CV	B	B	B
WUXGA [1920x1200]	C	C	CV	CV	B
WQXGA [2560x1600]	C	C	C	C	B
WQUXGA [3840x2400]	C	C	C	C	CV



Shown with optional fiber SFP installed

## Technical Specifications

<b>HDMI Input</b>	Type A 2.0b connector for up to 2160p60 Up to 8 channels embedded audio in HDMI is passed transparently
<b>SDI Outputs</b>	2 x SDI video, 75 Ohm BNC (both have the same signal - NOT dual link) SMPTE 259M, SMPTE 292M, SMPTE 424M, SMPTE 2081-1, SMPTE 2082-1 Electrical Return Loss: to 1.5GHz >15dB, to 3GHz >10dB, to 6GHz >7dB, to 12GHz >4dB
<b>Fiber Output</b>	Optional plug in SFP for optical SDI output (see fiber options table)
<b>Power</b>	+12V DC @ 9.3W nominal - ( supports 10 - 24V DC input range )
<b>Physical</b>	Size (incl. connectors): 123mm x 90mm x 22mm (4.84" x 3.54" x 0.86") Weight: 186g (6.56oz)
<b>Ambient</b>	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
<b>Model #</b>	CHD 1402 - ( EAN# 4250479328129)
<b>Includes</b>	Module, AC power supply, HDMI + USB cable

### Legend

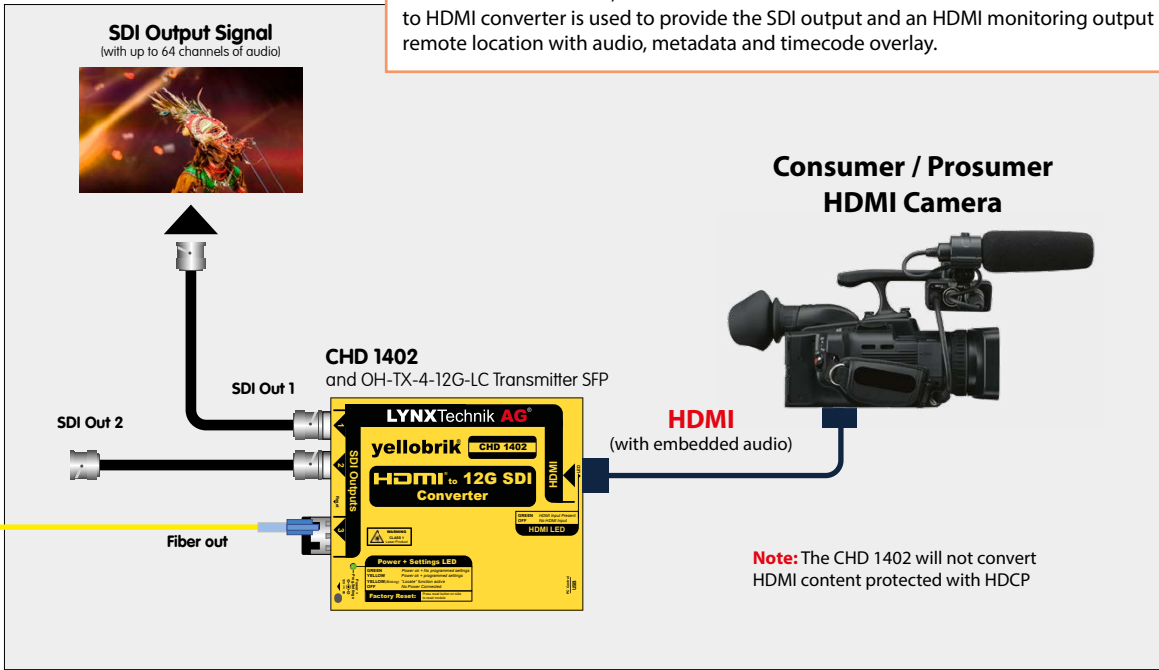
C	Cropping (Horizontal and Vertical)
B	Boxing (Horizontal and Vertical)
CV/BH	Crop: Vertical / Boxing: Horizontal
CV	Crop: Vertical
N	Output = Input

CHD1402\_DS\_rev02\_draft01 Specifications subject to change



## Application Example

An example application is shown below, using the CHD 1402 to convert the HDMI output from a video camera into SDI, and transmit the SDI over fiber to a remote location. A CDH 1411 SDI to HDMI converter is used to provide the SDI output and an HDMI monitoring output in the remote location with audio, metadata and timecode overlay.



Fiber Connection up to 40km (24.9 miles) @ 12Gbit/s with select SFP modules

