

SDI to HDMI® Converter

- Supports SDI video inputs up to 3Gbit/s (1080P)
- Supports single link 3D formats
- Automatic input standard and format detection
- Fiber input and output options
- HDMI video output with embedded audio
- Analog and AES audio outputs
- Selectable Timecode burn in window
- Selectable Metadata indication
- 16 channel on screen audio meters
- H/V delay to show blanking interval
- Selectable safe area markers
- yelloGUI compatible: Gain access to additional features

The CDH 1813 is a versatile, compact SDI to HDMI converter designed to combat a host of monitoring and display applications in Broadcast, Post Production and Pro A/V markets.

Convert any SDI video signal, including 3D into an HDMI signal for monitoring and display. Flexible fiber connectivity options add SDI fiber transmission or SDI fiber reception (or both) using the integrated fiber SFP socket.

Two channels of audio can be de-embedded from the incoming video signal providing a digital AES output and analog audio output signals. Balanced audio outputs have selectable full scale range presets. The two selected audio channels can also be embedded into the HDMI output. In addition, 8 channels selected from the input signal (channels 1-8 or 9-16) can be embedded into the HDMI output.

Various burn in features make the CDH 1813 a true monitoring tool. Timecode burn in, 16 channel audio metering, safe area markers and AFD code display are just a few of the on-screen monitoring features.

yelloGUI provides support for a host of additional settings and features which are accessed using a PC and the USB port on the module.

Fiber I/O Options

Inserts into the Fiber SFP cage on the side of the module. Please select option from below:

SDI Transceiver (Receive and Transmit)

Wavelength	TX Power	RX Sensitivity	Max Distance	Option #
1310nm	-5dBm	-19dBm	10km (6.2miles)	OH-TR-1
1550nm	-1dBm	-19dBm	40km (24.8miles)	OH-TR-3-1550

SDI Transmitter only

Wavelength	TX Power	Max Distance	Option #
1310nm	-5dBm	10km (6.2miles)	OH-TX-1

SDI Receiver only

Wavelength	RX Sensitivity	Option #
1270-1630nm	-19dBm	OH-RX-1



NOTE. CWDM fiber options also available. Select from 18 wavelengths per ITU-T G.694.2. Please contact LYNX Technik for more details



Technical Specifications

SDI Input	1 x SDI video on 75 Ohm BNC connector Multi-standard operation from 270Mbit to 3Gbit (auto-detect) Support for 'single link' 3D modes: "side by side", "top-bottom" and "dual stream (3G level B)" (depends on input SDI format) Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
Optical Input	1 x fiber optic SDI input. LC fiber connection (Optional- see fiber options table) SMPT E 297M - 2006
SDI Output	1 x SDI video on 75 Ohm BNC connector SMPT E 424M, SMPT E 292M, SMPT E 259M Multi-standard operation from 270Mbit/s to 3Gbit/s
Optical Output	1 x fiber optic SDI output. LC fiber connection (Optional- see fiber options table) SMPT E 297M - 2006
HDMI Output	10 bit HDMI 1.4a support including 3D, deep color and embedded audio Type A connector. 3D modes supported: "side by side" "top and bottom" "frame packing" 24 bit (3 X 8bit) and 30bit (3 x 10bit) deep color (R,G,B / Y,Cr,Cb / X,Y,Z) 2 or 8 channel audio embedding (selectable)
AES Output	AES3id on 75 Ohm BNC, 2 channels (selectable)
Audio Output	Left and right analog audio using 1/4 inch jack sockets (phono sockets) Balanced mode with 24,22,20,18,15,12 dBu full scale (selectable) Unbalanced mode with (line level) at -10 dBV 1/4 inch Jack plug (phono) to RCA connection adapters supplied
USB	Standard USB port for yelloGUI interface and firmware updates (Mini Type "B" plug)
Power	+12VDC power supply (included)
Size	105mm x 95mm x 22mm (4.13" x 3.74" x 0.86")
Model #	CDH 1813
Includes	Module, power supply, RCA adapters, HDMI cable, USB cable, transport case

Specifications subject to change