yelopik chd 1812

3Gbit HDMI to SDI Converter + Frame Synchronizer

- Supports SD/HD/3G -SDI formats
- 3D support
- Integrated Frame Synchronizer
- Multi-format sync reference input cross lock compatible
- 2 x SDI outputs with optional SDI fiber output
- HDMI embedded audio passed transparently
- 2 x external analog audio inputs
- Professional balanced analog audio inputs or unbalanced line level audio inputs
- Selectable AES channel for embedding external audio
- HDMI, reference and audio present LED indication

The CHD 1812 is a versatile and compact HDMI to SDI converter with integrated frame synchronizer. It is an ideal solution for any application which requires a fully synchronized SDI input from an external asynchronous HDMI source.

The flexible reference sync input will accept any analog video sync format including SD bi-level sync, black burst, colorbars and tri-level HD sync. The sync input is auto detecting and fully cross lock compatible. For example: An SD black burst reference can be used to frequency lock an HD HDMI input. If no reference is present, the converter performs a standard asynchronous HDMI to SDI conversion.

A stereo pair of analog inputs can be embedded into any AES channel. Inputs can be either professional balanced audio with selectable full scale level, or unbalanced consumer line level audio.

Any audio present in the HDMI stream will be embedded into the SDI outputs, or can be replaced with the external audio input.

An optional SDI fiber output is also provided (Single Mode Fiber)

Power Adapter Options

The module INCLUDES an AC power supply. The power adapters below are optional.



P-TAP 1000 Use with a standard battery P-TAP power source.



XLR 1000 Use with a standard 4 pin XLR camera battery power source.

Fiber Output Options

Fiber SFP Transmitter Stick (LC)

Inserts into the Fiber SFP cage on the side of the module. Can be added at any time. Please select from below:



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

NOTE: 18 x CWDM wavelength versions are also available. Please contact LYNX for details



Technical Specifications

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HDMI Input	3D compatible input using type A connector		
	Up to 8 channels embedded audio in HDMI is passed transparently or replaced with external analog audio input		
Reference Input	SDTV: Analog 525 or 625 bi-level sync, black burst or colorbars HDTV: All tri-level sync standards (exceptions 1080p 50/59.94/60Hz) Cross lock compatible		
	75 Ohm BNC connector		
	SMPTE 274M, SMPTE 296M		
Frame Synchronizer	Functional if valid reference is detected, otherwise operates in free run (asynchronous) mode. External audio and HDMI input are frequency locked to external reference, fully cross lock compatible across standards		
SDI Outputs	2 x SDI video on 75 Ohm BNC connector		
	SMPTE 424M, SMPTE 292M, SMPTE 259M		
	Multi-standard output from 270Mbit/s to 3Gbit/s (follows HDMl input) SDTV (525/625) 720p and 1080p (23.98/24/25/29.97/30/50/59.94/60 Hz) 1080psf (23.98/24/25/29.97/30 Hz) 1080i (50/59.94/60 Hz)		
Audio Inputs	Left and right analog audio using 1/4 inch jack plugs		
	10k Ohm differential balanced input 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 to RCA connection adapters supplied)		
	Selectable AES channel for audio embedding (1 through 8) (Overwrites any HDMI embedded audio present in selected channel)		
	Frequency response: <+/- 0.2dB 20Hz to 20KHz		
	48KHz A/D sample rate (free run or frequency locked to ref input)		
Power	+12VDC power supply (included)		
Size	105mm x 95mm x 22mm (4.13" x 3.74" x 0.86")		
Model #	CHD 1812		
Includes	Module, AC power supply, RCA adapters, HDMI cable and mounting brackets		

Specifications subject to change

