

Module LEDs

The module has several LEDs included to indicate status. Function is described below:

HDMI Present LED

- = Valid signal connected / converted
- = (out) Signal not valid or missing (or if HDMI has HDCP protection)

Power / Status LED

- = Power OK and no internal programmed settings are present
- = Power OK and some programmed settings are active*
- = (out) Power not present

* Some settings have been made using the yelloGUI and the LED indicates this by turning yellow. The module can be reset to factory default using the yelloGUI application, or by using the internal reset switch on the side of the module, which can be accessed through a hole with a paperclip (or similar).

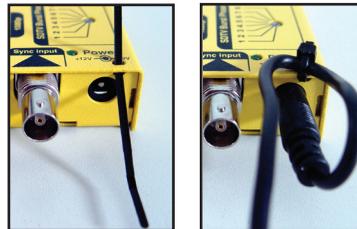
USB Port / Firmware Updates / yelloGUI

The USB interface on the module is used for firmware updates and for control of the module using the yelloGUI software application. To update a yellobrik, power it and connect it to the PC or Mac running the yelloGUI software with the provided USB cable. The yelloGUI software will indicate if a new firmware is available for the connected module and will guide you through the update process. Firmware updates are always free of charge.

For more information and to download the yelloGUI application please goto: <http://yellogui lynx-technik.com>

Power Lead Strain Relief

The module has a small hole in the case located above the power connection. To prevent the power lead being accidentally pulled out, use the supplied tie-wrap and secure the lead as shown opposite.



HDMI is connected but no SDI output ? - Common Causes

When two HDMI devices are connected together the EDID communication protocol automatically determines the highest resolution both devices support and configures the HDMI link to that resolution. As the CHD 1802 supports video formats up to 1080p/60Hz the SDI output will typically default to 1080p/60 (3Gbit/s SDI) which if used in a standard 1.5GHz or 270Mbit SDI environment will not display an image. If 1.5Gbit or 270Mbit SDI output is needed, then the HDMI source device should be manually set to output the desired video resolution. Alternatively, it is possible to use the yelloGUI application to force the CHD 1802 into the desired video format. *(As we do not have an internal scaler, this is done by limiting the formats reported over EDID so the sending device changes its HDMI resolution)*

The HDMI content may have HDCP copy protection, in which case the HDMI present LED will be OUT and the module will block the conversion and provide a black SDI output.

Note: A lot of playback consumer devices impose hardware HDCP copy protection even if the source media is not copy protected. Please verify the operation of the yellobrik module on a HDMI source which is known not to have HDCP copy protection (e.g. most HDMI cameras) before contacting technical support.

Still Having Problems?

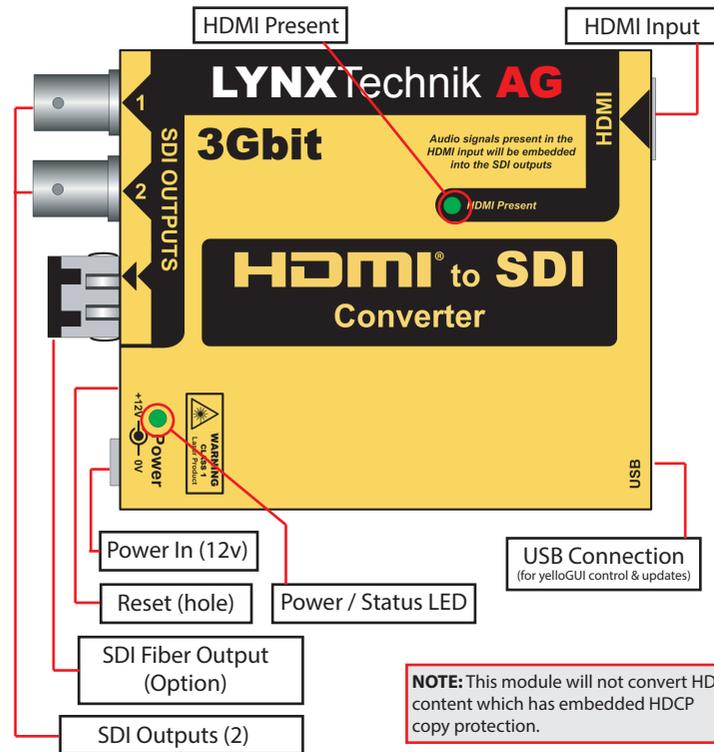
Please visit the support center on our website and browse or search the knowledge base, or open a support ticket with your specific questions

www.lynx-technik.com > Support > Tech.Support

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Quick Reference

CHD 1802 HDMI to SDI Converter



Warning
Class 1 Laser Product

Connections and Adjustments

All connections and adjustments are clearly indicated on the module and self explanatory. Settings can be changed with the module powered on or off. The fiber SDI output is optional and can be added at any time if needed using the socket provided (plug in SFP module).

Basic Operation

The CHD 1802 will auto-detect the connected HDMI input and the HDMI Present LED will illuminate when a valid signal is detected. The HDMI is converted to an SDI signal in its native resolution (no scaling). Two identical electrical SDI outputs (not dual link) are provided as well as an optional fiber SDI output. Any audio present on the HDMI signal will be automatically embedded into the SDI outputs.

Audio

Up to 8 channels of audio present on the HDMI input is automatically embedded into the SDI outputs (AES channels 1, 2, 3, 4). Note: One AES channel = two channels of audio.

The HDMI audio is not modified or decoded. If encoded audio is present such as Dolby Digital then this encoded stream will be embedded (transparently) into the SDI output. The module automatically disables the sample rate converters if encoded audio is detected.

Fiber Output (Optional)

An SDI fiber output is provided via a removable SFP fiber stick. This can be a standard SDI Transmitter (1310nm) or if needed CWDM versions are also available (18 wavelength choices). Please contact LYNX Technik for more details on the fiber options compatible with this module.

HDCP Copy Protection

The CHD 1802 **WILL NOT** convert any HDCP encrypted content. If a HDMI source is connected and the "HDMI present" is **OUT** then the HDMI content is most likely protected with HDCP.

yelloGUI Software Tool

The CHD 1802 is fully compatible with the yelloGUI software application. This provides access to a variety of additional internal settings and features. (Including setting 3D conversion mode, setting frame sync delay and audio configuration)

Optional Mounting Bracket

The optional RFR 1001 mounting bracket can be used to permanently mount the module on any flat surface or on 19" rack rails.



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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.lynx-technik.com > support > tech.support)
	Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz
Power	+12VDC @ 4W nominal - (supports 10 - 14VDC input range)

We are constantly adding additional yellobrik modules.
Please visit our website for the latest product updates.

www.lynx-technik.com

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