


18Gbps HDMI In-line Signal Re-Clocker with EDID Management

CON-H2-EDID



Quickstart Guide

 WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process.



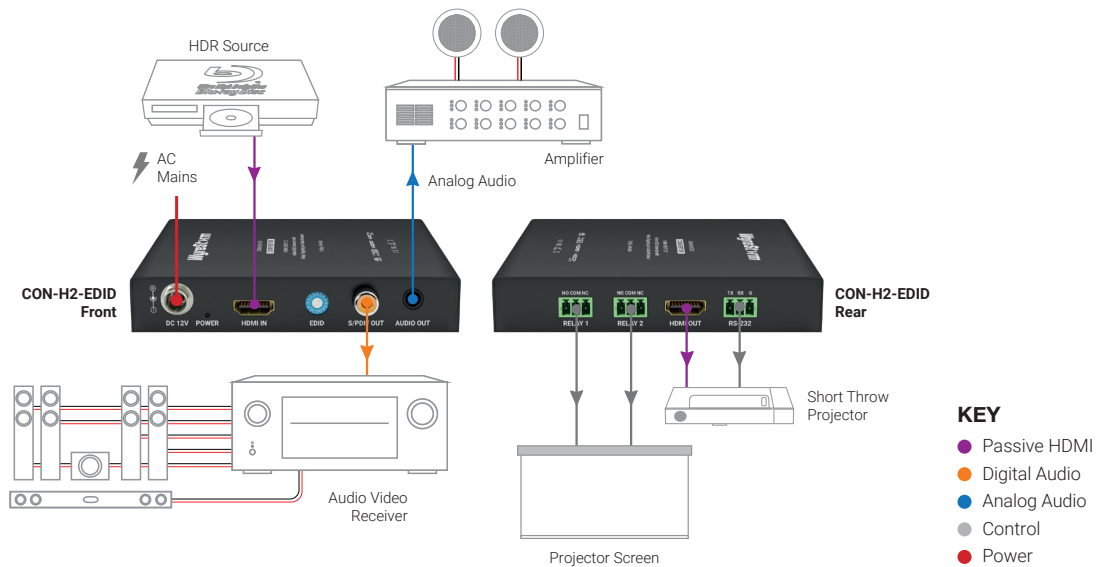
IMPORTANT! Installation Requirements

- Advanced configuration of this product requires the use of the use of the [WyreStorm Management Suite v1.6](#) or higher configuration tool. Download the latest version from the product page before continuing with the installation.
- Visit the product page to download the latest firmware, document version, additional documentation, and configuration tools.
- Read through the [Wiring and Connections](#) section for important wiring guidelines before creating or choosing premade cables.
- While this product supports CEC for the HDMI outputs, WyreStorm cannot guarantee compatibility with all forms of CEC communication.

In the Box

- 1x CON-H2-EDID
- 1x DC 12V 1A Power Supply (US/UK/EU/AU)
- 3x 3-Pin Terminal Block
- 2x Mounting Brackets
- 1x Quick Start Guide (This Document)

Basic Wiring Diagram



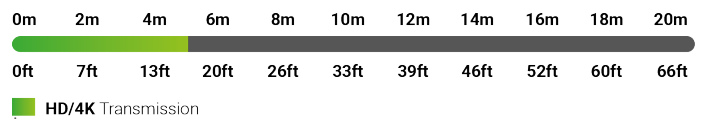
Wiring and Connections

WyreStorm recommends that all wiring for the installation is run and terminated prior to making connections to the switcher. Read through this section in its entirety before running or terminating the wires to ensure proper operation and to avoid damaging equipment.

IMPORTANT! Wiring Guidelines

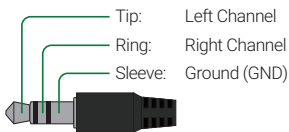
- The use of patch panels, wall plates, cable extenders, kinks in cables, and electrical or environmental interference will have an adverse effect on signal transmission which may limit performance. Steps should be taken to minimize or remove these factors completely during installation for best results.
- WyreStorm recommends using pre-terminated HDMI cables due to the complexity of these connector types. Using pre-terminated cables will ensure that these connections are accurate and will not interfere with the performance of the product.

HDMI Cable Performance Guide



Audio Connections

Analog Audio Out

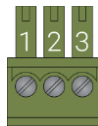


S/PDIF Digital Audio Out



RS-232 Guidelines

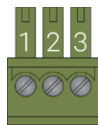
This product uses a 3-pin RS-232 with no hardware flow control. Most control systems and computers are DTE where pin 2 is RX, this can vary from device to device. Refer to the documentation for the connected device for pin functionality to ensure that the correct connections can be made.



WyreStorm Connector		3rd Party Device
Pin 1	TX (Transmit)	---> To ---> RX (Receive)
Pin 2	RX (Receive)	---> To ---> TX (Transmit)
Pin 3	G (Ground)	---> To ---> G (Ground)

Relay Wiring

The relays on this product can be used to be trigger devices such as projector screens that are Normally Open (NO) or Normally Closed (NC).



WyreStorm Connector		3rd Party Device
Pin 1	NO (Normally Open)	---> To ---> NO (Normally Open)
Pin 2	Common (Ground)	---> To ---> Common (Ground)
Pin 3	NC (Normally Closed)	---> To ---> NC (Normally Closed)

Troubleshooting

No or Poor Quality Picture (snow or noisy image)

- Verify that the output resolution of the source and display is supported by this product.
- If transmitting 3D or 4K, verify that the HDMI cables used are 3D or 4K rated.
- Verify that all source and display connections are not loose and are functioning properly.

No or Intermittent 3rd party Device Control

- Verify that the RS-232 cables are properly terminated. Refer to RS-232 Guidelines and/or Relay Wiring sections for pinout information.

Setup and Configuration

EDID Dial Settings

The dial located on the front of the product is used to set the EDIDs based on the following table.

Resolution	Dial Set
EDID copy from Output	0
1024x728 @60Hz 2Ch	F
1280x1024 @60Hz 2Ch	C
1280x720p @60Hz 2Ch	4
1280x768 @60Hz 2Ch	E
1280x960 @60Hz 2Ch	D
1360x768 @60Hz 2Ch	B
1400x1050 @60Hz 2Ch	A

Resolution	Dial Set
1440x900 @60Hz 2Ch	9
1600x1200 @60Hz 2Ch	7
1600x900 @60Hz 2Ch	8
1680x1050 @60Hz 2Ch	6
1920x1080p @60Hz 2Ch	3
1920x1200 @60Hz 2Ch	5
3840x2160p @30Hz 2Ch	2
3840x2160p @60Hz 2Ch	1

Advanced Configuration

The following steps require the use of the use of the [WyreStorm Management Suite v1.6](#) or higher. Download the latest version from the product page before continuing with the installation.

Initial Configuration Tool Setup

1. Connect the converter to a PC using the RS-232 port. Refer to [RS-232 Guidelines](#) for pinout.
2. Open the WyreStorm Management Suite and select the CON-H2-xxxx Configuration Tool from the menu.
3. Under RS-232 Port Configuration select the COM port for the PC and set the baud rate to 57600.
4. Select the Connect button to connect the PC to the converter.

EDID Write from a File

If an EDID file is available it can be uploaded into the converter for setting the desired EDID.

1. Under RS-232 Port Configuration select the COM port for the PC and set the baud rate to 57600.
2. Under EDID Write select Choose File to select the file to upload.
3. Once the selection dialog closes, select Import to upload the file to the converter.

Connected Device On/Off Triggering

Devices such as projectors or displays connected to this product can be controlled from via connection to the RS-232 port. Commands for the devices are entered within the CON-H2-xxxx Configuration Tool.

1. Under Power On/Off Pre Loading set the baud rate for the device to be controlled.
2. Select Send next to the Baud Rate to send it to the converter.
3. Enter a command for Power On and select HEX if the command is HEX.
4. Select Send next to Power On to send the command to the converter.
5. Enter a command for Power Off and select HEX if the command is HEX.
6. Select a delay time for powering Off the device after no HDMI signal is detected.
7. Select Send next to Power Off to send the command to the converter.
8. Select a String terminator to use for the commands and select the Set button.

Configuring Relays

The relays on the converter can be programmed to be Latch or Momentary based on the functionality of the connected device. This setting is the same for both relays.

1. Under Set Relay Mode select Latch or Momentary for Relay Mode.
2. Select the Set button to send the setting to the converter.

Specifications

Audio and Video		
Inputs	1x HDMI In: 19-pin type A	
Outputs	1x HDMI Out: 19-pin type A 1x Audio Out: 3.5mm (1/8in) TRS Stereo 1x S/PDIF Out: S/PDIF Coaxial Digital	
Audio Formats	HDMI Pass-through: 2ch PCM Multichannel: LPCM and Up to DTS-X and Dolby Atmos S/PDIF Out: De-Embed: 2ch PCM Multichannel: Up to 5.1 DTS and Dolby Digital Analog Out: 2ch	
Video Resolutions (Max)	Video Resolution	
	1920x1080p @60Hz 12bit	HDMI
	3840x2160p @24Hz 10bit 4:2:0 HDR	15m/49ft
	3840x2160p @30Hz 8bit 4:4:4	7m/23ft
	3840x2160p @60Hz 10bit 4:2:0 HDR	7m/23ft
	3840x2160p @60Hz 12bit 4:2:2 HDR	5m/16ft
	4096x2160p @60Hz 8bit 4:2:0	3m/10ft
4096x2160p @60Hz 8bit 4:4:4	7m/23ft	
Supported Standards	DCI RGB HDR HDR10 Dolby Vision HLG BT.2020 BT.2100	
Maximum Pixel Clock	600MHz	
Communication and Control		
HDMI	HDMI 2.0 HDCP 2.2 EDID CEC Triggering Inputs supports DVI/D and DisplayPort Dual-Mode (DP++) v1.3 with adapter (not included)	
CEC	CEC Power Triggering Requires CEC compatibility	
RS-232	1x RS-232: 3-pin Terminal Block - 3.5mm	
Relays	1x Relay 2: 3-pin Terminal Block - 3.5mm 1x Relay 1: 3-pin Terminal Block - 3.5mm Max 1A load	
Power		
Power Supply	12V DC 0.5A	
Max Power Consumption	≤2W	
Environmental		
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C) 10% ~ 90%, non-condensing	
Storage Temperature	-4°F to ~ 158°F (-20°C ~ +70°C) 10% ~ 90%, non-condensing	
Maximum BTU	7 BTU/hr	
Dimensions and Weight		
Rack Units Wall Box	<1U	
Height With Without Feet	20mm/0.79in	
Width With Without Brackets	120mm/4.73in	
Depth With Without Handles	80mm/3.15in	
Weight	0.23kg/0.51lbs	
Regulatory		
Safety and Emission	CE FCC RoHS RCM	

Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.

Warranty Information

WyreStorm Technologies LLC warrants that its products to be free from defects in material and workmanship under normal use for a period of five (5) years from the date of purchase. Refer to the Product Warranty page on wyrestorm.com for more details on our limited product warranty.

