



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



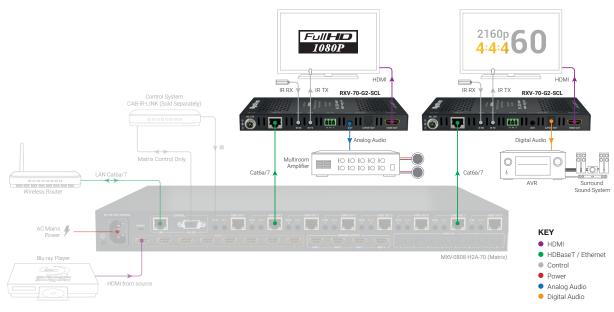
IMPORTANT! Installation Requirements

- Visit the product page to download the latest firmware, document versions, 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, WyreStorm cannot guarantee compatibility with all forms of CEC communication.

In the Box

1x RXV-70-G2-SCL Receiver 2x Mounting Brackets 1x IR Emitter 1x IR Receiver 1x 3-pin Terminal Block 12V DC 1A Power Supply (US/UK/EU/AU) 1x Quickstart Guide (this document)





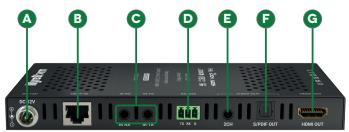
1 of 4

Front Panel

Rear Panel



A Power LED	Solid: The receiver is powered On Off: The receiver is powered Off
B Status LED	Flashing: The receiver is operating normally. Off: The receiver is Not operating normally.
C HDCP LED	Solid: HDCP content is present. Flashing: HDCP content is not present. Off: No signal.
D LINK LED	Solid: Link to receiver has been established. Flashing: Link to receiver has not been established.



A	Power Input	5.5mm Screw Down Barrel Jack Connect to the included 12V DC 1A power supply to the transmitter or receiver. A power supply is not required on the other end as it will be powered using PoH.
B	HDBT In	8-pin RJ-45 female Connect the matrix HDBT Out to receivers HDBT In.
C	IR TX IR RX	IR TX - 3.5mm (1/8in) Mono Jack: Connect to the supplied IR emitter to control a local device from the remote display location via HDBaseT IR RX - 3.5mm (1/8in) Stereo Jack: Connect to the supplied IR receiver to send IR to the remote display location via HDBaseT. See IR TX/RX Guidelines for more information.
D	RS-232	1x RS-232: 3-pin Phoenix
0	2ch Audio Output	3.5mm (1/8in) Stereo Jack: Outputs audio signal from source device
F	S/PDIF Audio Output	TOSLink Digital Optical Outputs audio signal from source device
G	HDMI Out	19-pin type A HDMI female Supports HDMI and DVI/D with adapter

2 of 4

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 it's 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 the use of shielded category cable to minimize signal noise and interference.
- 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.

IR TX/RX Guidelines

- Using WyreStorm infrared emitters and receivers is the best way to ensure that most IR coding formats are transmitted and received Other 3rd party emitters and receivers can be used; however, these devices must operate in the same manner as the WyreStorm devices.
- Due to differences in IR across 3rd party control systems their IR ports should never be connected directly to a WyreStorm Receiver as an incompatibility may exist. WyreStorm offers a cable that compensates for voltage differences as well adjusts for differences in the pins used within the port. Refer to the CAB-IR-LINK product page for more information.

. Cat6 Cable Performance Guide

0m	10m	20m	30m	40m	50m	60m	70m	80m	90m	100m
Oft	32ft	65ft	98ft	131ft	164ft	197ft	230ft	262ft	295ft	328ft
4	K Transm	nission	HD	Transmis	ssion					

WyreStorm recommends the use of shielded cable to minimize signal noise and interference

IR TX Port Pinout

Connection for IR TX (transmit) uses a 3.5mm (1/8in) mono plug.



IR RX Port Pinout

Connection for IR RX (receive) uses a 3.5mm (1/8in) stereo jack that outputs +5V DC to power the included IR receiver.

--> To --->

---> To --->

---> To ---> G (Ground)

3rd Party Device

RX (Receive)

TX (Transmit)



RS-232 Wiring

The RXV-70-G2-SCL 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 functionally to ensure that the correct connections can be made.

Troubleshooting

No or Poor Quality Picture (snow or noisy image)

- Verify that power is being supplied to the transmition device and the receiver.
- Verify that the HDBaseT cable is properly terminated following EIA568B standard.
- Verify that the output resolution of the source and display is supported by this receiver.
- If transmitting 3D or 4K, verify that the HDMI cables used are 3D or 4K rated.
- Verify that all source and HDBaseT connections are not loose and are functioning properly.

WyreStorm Connector

Pin 1 TX (Transmit)

Pin 2 RX (Receive)

Pin 3 G (Ground)

- No or Intermittent 3rd party Device Control
 Verify that the RS-232 cables are properly terminated.
- Verify that emitters/receivers are compatible with WyreStorm IR.
- If using an IR control system, verify that it is connected using the CAB-IR-LINK cable.

Specifications

Audio and Video					
Inputs	1x HDBT In: 8-pin RJ-45 Female				
Outputs	1x HDMI Out: 19-pin type A				
Output Video Encoding	HDBaseT Class A				
Encoding Data Rate	9.2Gbps				
End to End Latency (Max)	10µs (micro seconds)				
Audio Formats	Analog: 2ch Analog S/PDIF: 2ch LPCM Dolby Digital/DTS up t HDMI: 2ch LPCM Multichannel up to Dolt				
	Video Resolution	HDMI	Cat6	Cat6a/7	
	1920x1080p @60Hz 12bit	15m/49ft	100m/328ft	100m/328ft	
	1920x1080p @60Hz 16bit	7m/22ft	100m/328ft	100m/328ft	
	3840x2160p @24Hz 10bit 4:2:0 HDR	3m/10ft	70m/230ft	100m/328ft	
Video Resolutions (Max)	3840x2160p @30Hz 8bit 4:4:4	7m/23ft Input 15m/49ft Output	70m/230ft	100m/328ft	
	3840x2160p @60Hz 10bit 4:2:0 HDR	3m/10ft	70m/230ft	100m/328ft	
	4096x2160p @60Hz 8bit 4:2:0	7m/22ft	70m/230ft	100m/328ft	
	4096x2160p @60Hz 8bit 4:4:4	3m/10ft	70m/230ft	100m/328ft	
	Note: WyreStorm recommends the use of	shielded category cable to r	minimize signal noise a	nd interference	
Supported Standards	DCI RGB HDR HDR10 Dolby Vision up	to 30Hz HLG BT.2020 BT	.2100		
Maximum Pixel Clock	HDMI: 600MHz HDBaseT: 297MHz	· · · ·			
Communication and Control					
HDMI	HDMI 2.0 HDCP 2.2 EDID CEC DVI/D s	supported with adapter (not	included)		
HDBaseT	HDMI 2.0 HDCP 2.2 EDID CEC 1-way F	PoH Bidirectional IR			
CEC	CEC power triggering for connected scree	ns – Requires CEC compatil	bility		
IR	1x IR TX: 3.5mm (1/8in) TS Mono 1x IR R	X: 3.5mm (1/8in) TRS Stere	o Bidirectional over HD	BaseT	
RS-232	1x RS-232: 3-pin Terminal Block - 3.5mm				
Power					
Power Supply	12V DC 1A (Optional)				
РоН	1-way Matrix to Receiver				
Max Power Consumption	12.42W				
Environmental					
Operating Temperature	0 ~ +45°C (32 ~ +113 °F), 10% ~ 90%, non-condensing				
Storage Temperature	-20 ~ +70°C (-4 ~ +158 °F), 10% ~ 90%, non-condensing				
Maximum BTU/hr	43 BTU/hr				
Dimensions and Weight					
Rack Units/Wall Box	<1U				
Height	18mm/0.7in				
Width	180mm/7.08in				
Depth	80mm/3.14in				
Weight	0.36kg/0.79lbs				
Regulatory					
Safety and Emission					

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

Warranty Information

This product is covered by a 5-year limited parts and labor warranty. During this period there will be no charge for unit repair, component replacement or complete product replacement in the event of malfunction. The decision to repair or replace will be made by the manufacturer. This limited warranty only covers defects in materials or workmanship and excludes normal wear and tear or cosmetic damage.



Visit the product page located at wyrestorm.com for additional information on this product including important technical information not provided in this document and warranty terms & conditions.

4 of 4