

# 4K HDBaseT Extender Set with Bi-directional PoC, IR, RS232

## EX-100-G2

# WyreStorm®

## 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

- 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.

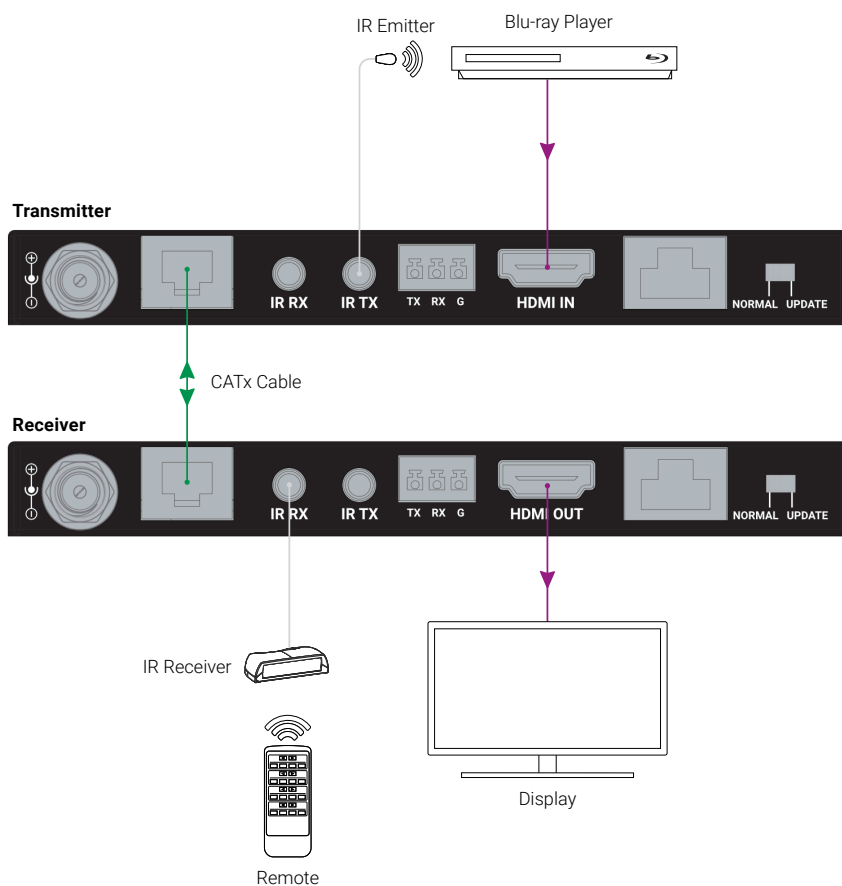
### In the Box

- 1x EX-100-G2 Transmitter Unit
- 1x EX-100-G2 Receiver Unit
- 1x 18V/1A Power Supply (US/EU/UK/AU)
- 2x 3.5mm 3-pin Male Phoenix Connector
- 1x IR Emitter
- 1x IR Receiver
- 4x Mounting Brackets (2x TX | 2x RX)
- 1x Quickstart Guide (this document)

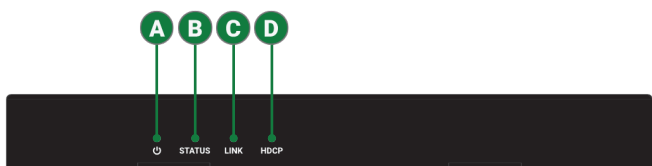
## Basic Wiring Diagram

### KEY

- HDMI
- Control
- HDBT

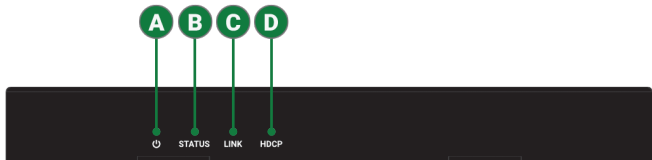


EX-100-G2 Transmitter (Front)



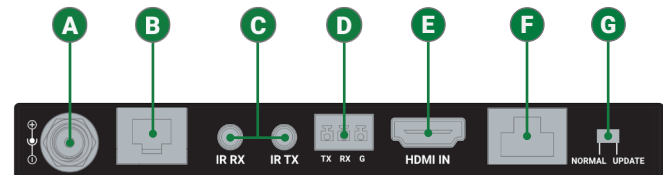
<b>A</b> Power LED	<b>Solid:</b> The unit is powered On <b>Off:</b> The unit is powered Off
<b>B</b> Status LED	<b>Blinking:</b> Transmitter/Receiver working properly <b>Off:</b> Transmitter/Receiver not working properly
<b>C</b> Link LED	<b>On:</b> Transmitter and Receiver are linked <b>Blinking:</b> Connection exception <b>Off:</b> No link
<b>D</b> HDCP LED	<b>On:</b> HDCP video is being transmitted <b>Blinking:</b> Non-HDCP video is being transmitted <b>Off:</b> No HDMI signal

EX-100-G2 Receiver (Front)



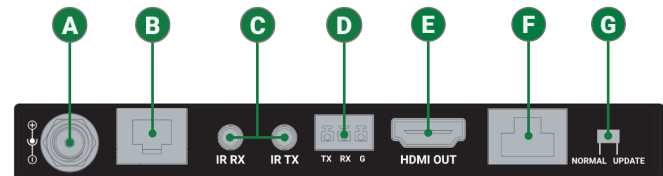
<b>A</b> Power LED	<b>Solid:</b> The unit is powered On <b>Off:</b> The unit is powered Off
<b>B</b> Status LED	<b>Blinking:</b> Transmitter/Receiver working properly <b>Off:</b> Transmitter/Receiver not working properly
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<b>D</b> HDCP LED	<b>On:</b> HDCP video is being transmitted <b>Blinking:</b> Non-HDCP video is being transmitted <b>Off:</b> No HDMI signal

EX-100-G2 Transmitter (Rear)



<b>A</b> Power	Connect to the power adapter provided
<b>B</b> HDBT Output	Connect to the Twisted Pair port of the receiver
<b>C</b> IR IN/OUT	3.5mm jack: Bidirectional IR Connect to the IR emitter/receiver provided
<b>D</b> RS-232	Connect to RS-232 enabled device for RS232 pass-through or upgrading
<b>E</b> HDMI Input	Connect to an HDMI source
<b>F</b> Ethernet	Connect to a network access point or a network terminal device
<b>G</b> Mode	<b>NORMAL:</b> <ul style="list-style-type: none"><li>• RS-232 signals can be transmitted</li><li>• Transmitter cannot be updated</li></ul> <b>UPDATE:</b> <ul style="list-style-type: none"><li>• RS-232 signals cannot be transmitted</li><li>• Transmitter can be updated</li></ul>

EX-100-G2 Receiver (Rear)



<b>A</b> Power	Connect to the power adapter provided
<b>B</b> HDBT Input	Connect to the Twisted Pair port of the transmitter
<b>C</b> IR IN/OUT	3.5mm jack: Bidirectional IR Connect to the IR emitter/receiver provided
<b>D</b> RS-232	Connect to RS-232 enabled device for RS232 pass-through or upgrading
<b>E</b> HDMI Output	Connect to an HDMI display
<b>F</b> Ethernet	Connect to a network access point or a network terminal device
<b>G</b> Mode	<b>NORMAL:</b> <ul style="list-style-type: none"><li>• RS-232 signals can be transmitted</li><li>• Receiver cannot be updated</li></ul> <b>UPDATE:</b> <ul style="list-style-type: none"><li>• RS-232 signals cannot be transmitted</li><li>• Receiver can be updated</li></ul>

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 any wires to ensure proper operation and to avoid damaging the equipment.

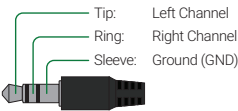
⚠ IMPORTANT! Wiring Guidelines

- 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.

RS-232 Wiring

The EX-100-G2 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. Refer to [RS-232 Mode Settings](#) for details on setting RS-232 modes.

Audio



Troubleshooting

No or Poor Quality Picture (snow or noisy image)

- Verify that power is being supplied to the transmitter and 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 extender.
- If transmitting 4K, verify that the HDMI cables used are 4K rated.
- Verify that all source and HDBaseT connections are not loose and are functioning properly.

Cat6a/7 Cable Performance Guide



■ 4K/HD Transmission  
WyreStorm recommends the use of shielded cable to minimize signal noise and interference

	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)

No or Intermittent 3rd party Device Control

- Verify that the IR and RS-232 cables are properly terminated following the [Wiring and Connections](#) section.
- Verify that RS-232 modes are properly selected for the desired operation. Refer to [RS-232 Mode Settings](#) for details.

💡 **Troubleshooting Tips:**  
WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.

# Specifications

Technical			
Video Signal Type	HDMI 1.4 with 4K2K		
Input/Output Resolution Support	4K@60 4:2:0 8bit 4K@30Hz/1080P/1080i/720P/576P/480P/576i/480i		
Audio Format Supported	Supports multichannel audio up to PCM 7.1, Dolby True HD, DTS HD Master Audio, Dolby Atmos and DTS:X		
Max Data Rate	6.75 Gbps		
Transmission Distance	Cat 5e/6	100m/330ft 70m/230ft	1080p@60Hz 4K@30Hz 4:4:4, 24bpp 4K@60Hz 4:2:0, 24bpp
	Cat 6A/7:	100m/330ft	4K@30Hz 4:4:4, 24bpp 4K@60Hz 4:2:0, 24bpp
Power			
Power Consumption	13W (TX and RX are powered separately) TX: 5.5W RX: 7.6W		
Environmental			
Operating Temperature	0 to + 45°C (32 to + 113 °F), 20% to 90%, non-condensing		
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 20% to 90%, non-condensing		
Dimensions			
Height	14.9 mm / 0.59in		
Width	135mm / 5.31in		
Depth	74.2mm / 2.92in		
Weight	Transmitter/Receiver: 0.24kg/0.53lb		
Regulatory			
Safety and Emission	CE   FCC   RoHS   RCM   EAC   UKCA		

**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 ProAV Corporation 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](http://wyrestorm.com) for more details on our limited product warranty.

