4K UHD HDBaseT 1-Gang In Wall Transmitter
(4K: 35m/115ft | 1080p: 70m/230ft)

TX-35-IW

WyreStörm

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.
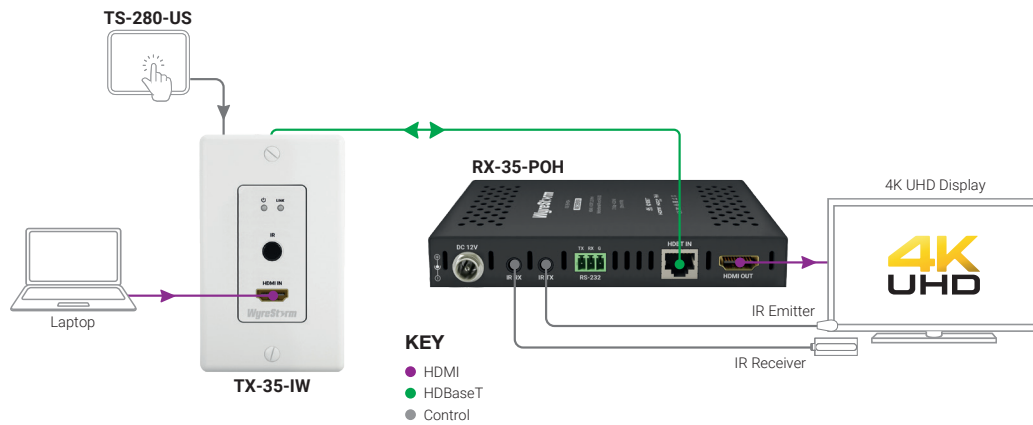
4K HDR **HDBT** **HDMI** **HDCP 2.2** **PoH**

⚠ **IMPORTANT! Installation Requirements**

· 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, WyreStorm cannot guarantee compatibility with all forms of CEC communication.
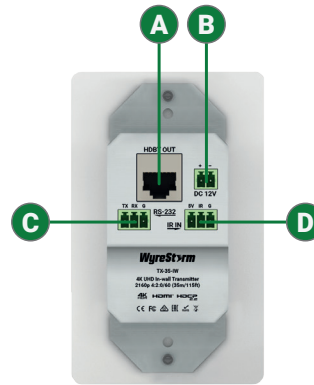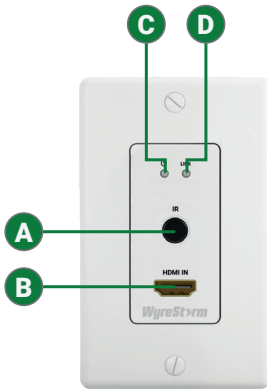
In the Box

1x 2 pin Phoenix Male Connector
2x 3 pin Phoenix Male Connector
1x 1-Gang Decora Wall Plate
Device powers via PoH (12V 2A DC PSU Sold Separately)
1x Quickstart Guide (This Document)

Basic Wiring Diagram

KEY
● HDMI
● HDBaseT
● Control

TX-35-IW (Front/Rear)

A	**IR Window**	
B	**HDMI Input**	19-pin type A HDMI female Supports HDMI and DVI/D with adapter
C	**Power LED**	**Solid:** The unit is powered On **Off:** The unit is powered Off
D	**Link LED**	**On:** Indicates link established with receiving device **Off:** No link with receiver or receiver powered off

A	**HDBT Out**	8-pin RJ-45 female Connect the transmitter's **HDBT OUT** to receiver's **HDBT IN.**
B	**Power Input**	2-pin phoenix: 12v Power Input
C	**RS-232**	3-pin phoenix for passthrough to RX
D	**IR**	3-pin phoenix for passthrough to RX

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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 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.

Cat6 Cable Performance Guide

0m	10m	20m	30m	40m	50m	60m	70m	80m	90m	100m
0ft	32ft	65ft	98ft	131ft	164ft	197ft	230ft	262ft	295ft	328ft

🟩 **4K** Transmission　　🟦 **HD** Transmission

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

IR Wiring

The 3-pin IR connector can be used to either transmit or receive IR signals, based on the type of cable and pin out you use. The IR emitter or receiver being used must support 5v for proper operation.

WyreStorm Connector			3rd Party Device
Pin 1	5v (Receive)	---> To --->	5v (Transmit)
Pin 2	IR (Transmit)	---> To --->	IR (Receive)
Pin 3	G (Ground)	---> To --->	G (Ground)

RS-232 Wiring

The TX-35-IW 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.

Refer to RS-232 Mode Settings for details on setting RS-232 modes.

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)

Troubleshooting

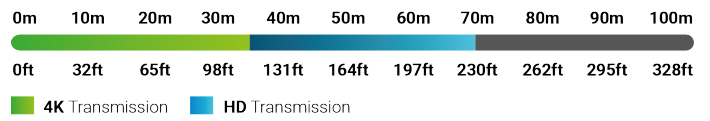**No or Poor Quality Picture (snow or noisy image)**

- Verify that power is being supplied to the transmitter and receiving device.
- Verify that all HDMI and HDBaseT connections are not loose and are functioning properly.
- 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 3D or 4K, verify that the HDMI cables used are 3D or 4K rated.

No or Intermittent 3rd party Device Control

- Verify that the RS-232 cables are properly terminated following the Wiring and Connections section.

💡 **Troubleshooting Tips:**

- WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.

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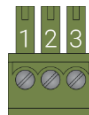
Warranty Information

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.
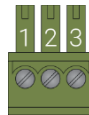
Specifications

Transmission	
Transmission Encoding	HDBaseT Class B
End to End Latency	10μs (micro seconds)
Maximum Transmission Bit Rate	10.2Gbps

Audio & Video				
Inputs	1x HDMI In: 19-pin type A			
Outputs	1x HDBT Out: 8-pin RJ45			
Maximum Pixel Clock	297MHz			
Video Resolutions (Max)	**Video Resolution**	**HDMI**	**Cat6**	**Cat6a/7**
	1920x1080p @60Hz	15m/49ft	70m/230ft	70m/230ft
	3840x2160p @60Hz 8bit 4:2:0	5m/16ft	35m/115ft	35m/115ft
	3840x2160p @24Hz 10bit 4:2:0 HDR	5m/16ft	35m/115ft	35m/115ft
	4096x2160p @60Hz 8bit 4:2:0	5m/16ft	35m/115ft	35m/115ft
	Note: WyreStorm recommends the use of shielded category cable to minimize signal noise and interference.			
Supported Standards	DCI | RGB | HDR10 | BT.2020			
Audio Formats	2ch PCM | Multichannel LPCM | DTS-X and Dolby Atmos			
Maximum Sampling Rate	192KHz			

Communication and Control	
HDMI	v2.0 TMDS | HDCP 2.2 | EDID | DVI/D Supported with adapter
IR	Passthrough; Front panel window, Rear 3-pin phoenix
RS-232	1x 3-pin Phoenix, Bidirectional passthrough
EDID	Pass-through, from RX

Power	
Power Supply	PoH from RX; 12V DC 2A 2-pin phoenix (Optional)
Max Power Consumption	9.3W
Power-over-HDBaseT (PoH)	Supported, 1-way from RX

Environmental	
Operating Temperature	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing
Maximum BTU	31.7 BTU/hr

Dimensions and Weight	
Installation	In-wall, 1-gang
Height	105mm/4.13in
Width	45mm/1.77in
Depth	38mm/1.55in
Weight	0.16kg/0.35lbs

Regulatory	
Safety and Emission	CE | FCC | RoHS | RCM | EAC