3-Input In-wall HDBaseT™Transmitter with USB Host & CEC Trigger. 2-gang US/UK Back-box

SW-130-TX-US | SW-130-TX-UK



Ouickstart Guide

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













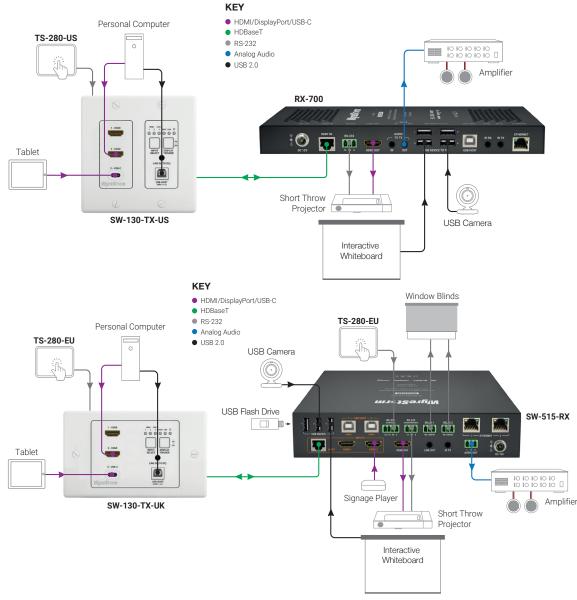
IMPORTANT! Installation Requirements

- 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.

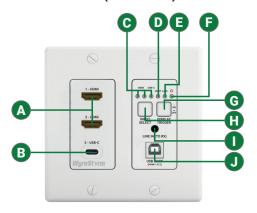
In the Box

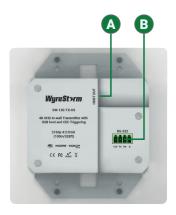
- 1x 4-pin Phoenix Male Connector
- 1x USB host cable (Type A-B)
- 1x Decora face plate (SW-130-TX-US)
- 4x Retaining screws (SW-130-TX-US)
- 1x Quickstart guide (This Document)

Basic Wiring Diagram

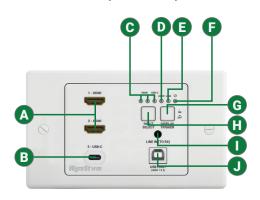


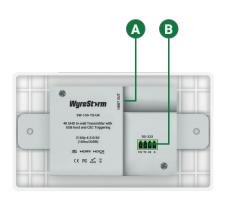
SW-130-TX-US (Front/Rear)





SW-130-TX-UK (Front/Rear)





A	HDMI Inputs	19-pin type A HDMI female Supports HDMI and DVI/D with adapter
B	USB-C Input	USB3.1C port Supports alt-mode and device charging
C	Source LED	On: Indicates the selected source
D	HDCP LED	On: Indicates encrypted source content Off: Indicates non-encrypted source content
3	Link LED	On: Indicates link established with receiving device Off: No link with receiver or receiver powered off
3	Power LED	Solid: The unit is powered On Off: The unit is powered Off
G	Display Trigger	Short Press: Send power on trigger Long Press: Send power off trigger
•	Input Select	Press to manually change input
0	Audio Line In	3.5mm jack: 2ch analog audio input
J	USB Host	USB Type A female Connection of USB Host device

A	HDBT Out	8-pin RJ-45 female Connect the transmitter's HDBT OUT to receiver's HDBT IN .
B	RS-232	4-pin phoenix: Serial input for API control and 12v DC input

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
- WyreStorm recommends using pre-terminated HDMI and USB 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.

· This product contains a USB-C connection that can be used as an audio/ video input. When using this connection verify that the USB-C cable used supports audio/video functionality as not all USB-C cables support this requirement.

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/HD Tra	nsmissio	n							

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

Audio Connections

Audio In

The audio connections use a 3.5mm (1/8in) TRS Stereo Jack.



RS-232 Wiring

The SW-130-TX-Ux uses a 4-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	12V DC Out	No Connection	Reserved
Pin 2	TX (Transmit)	> To>	RX (Receive)
Pin 3	RX (Receive)	> To>	TX (Transmit)
Pin 4	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, USB 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
- 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 C PAM16 Encoding				
End to End Latency	10µs				
Maximum Transmission Bit Rate	10.2Gbps				
Video					
HDMI	v2.0b TMDS 340MHz Maximum				
Inputs	2x HDMI In: 19-pin type A 1x USB-C In: US	SB 3.1c Audio/Video (4.	5Gbps)		
Outputs	1x HDBT out: 8-pin RJ45	· .	· ,		
Maximum Pixel Clock	HDMI & HDBaseT: 340MHz				
	Video Resolution	HDMI	0-46	0-26-17	
	video Resolution	пимі	Cat6	Cat6a/7	
	1920x1200p @60Hz	70m/230ft	70m/230ft	100m/328ft	
Video Decelutions (May)	2560x1440p @60Hz	15m/49ft	100m/328ft	100m/328ft	
Video Resolutions (Max)	3840x2160p @30Hz 8bit 4:4:4	7m/23ft	70m/230ft	100m/328ft	
	3840x2160p @30Hz 10bit 4:2:0 HDR	5m/16ft	70m/230ft	100m/328ft	
	3840x2160p @30Hz 12bit 4:2:2 HDR	5m/16ft	70m/230ft	100m/328ft	
	Note: WyreStorm recommends the use of shielded category cable to minimize signal noise and interference.				
Supported Standards	DCI RGB HDR HDR10 Dolby Vision up	to 30Hz HLG BT.202	0 BT.2100		
Audio					
Inputs	1 x Audio In: 3.5mm (1/8in) TRS Stereo 2ch audio over HDBaseT 1-way to RX				
Audio Formats	2ch PCM Multichannel up to DTS-X and [olby Atmos			
Maximum Sampling Rate	192KHz				
Maximum Audio Channels	32				
Audio Return Channel (ARC)	Not Supported				
Communication and Control					
USB Host (HDMI Inputs)	1x Type B host Maximum data throughpu	ıt: 190Mbps			
USB 3.1c	Alt-mode Supported A/V and USB data fr	om RX			
RS-232	1x RS-232: 4-pin Phoenix Shared with 12 Compatible with WyreStorm TS-280 touch		ix port (only when using Po	oH)	
HDCP	Pass-through, 2.3 Supported				
EDID	Pass-through, from RX				
Consumer Electronics Control	Pass-through, from RX One-way display trigger to RX				
Consumer Electronics Control (CEC)					
Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM)	One-way display trigger to RX				
Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR)	One-way display trigger to RX Supported				
Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR) Power	One-way display trigger to RX Supported				
Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR) Power Power Supply	One-way display trigger to RX Supported Supported				
Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR) Power Power Supply Max Power Consumption	One-way display trigger to RX Supported Supported 12V DC 1A (not included)				
Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR) Power Power Supply Max Power Consumption Power-over-HDBaseT (PoH)	One-way display trigger to RX Supported Supported 12V DC 1A (not included) 7.8W				
Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR) Power Power Supply Max Power Consumption Power-over-HDBaseT (PoH) Local Power Supply Input	One-way display trigger to RX Supported Supported 12V DC 1A (not included) 7.8W Supported, 1-way from RX				
Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR) Power Power Supply Max Power Consumption Power-over-HDBaseT (PoH) Local Power Supply Input Environmental	One-way display trigger to RX Supported Supported 12V DC 1A (not included) 7.8W Supported, 1-way from RX	on-condensing			
Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR) Power Power Supply Max Power Consumption Power-over-HDBaseT (PoH) Local Power Supply Input Environmental Operating Temperature	One-way display trigger to RX Supported Supported 12V DC 1A (not included) 7.8W Supported, 1-way from RX 4-pin phoenix				
Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR) Power Power Supply Max Power Consumption Power-over-HDBaseT (PoH) Local Power Supply Input Environmental Operating Temperature Storage Temperature	One-way display trigger to RX Supported Supported 12V DC 1A (not included) 7.8W Supported, 1-way from RX 4-pin phoenix 0 to + 45°C (32 to + 113 °F), 10% to 90%, r				
Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR) Power Power Supply Max Power Consumption Power-over-HDBaseT (PoH) Local Power Supply Input Environmental Operating Temperature Storage Temperature Maximum BTU	One-way display trigger to RX Supported Supported 12V DC 1A (not included) 7.8W Supported, 1-way from RX 4-pin phoenix 0 to + 45°C (32 to + 113 °F), 10% to 90%, re-20 to +70°C (-4 to + 158 °F), 10% to 90%,				
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Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR) Power Power Supply Max Power Consumption Power-over-HDBaseT (PoH) Local Power Supply Input Environmental Operating Temperature Storage Temperature Maximum BTU Dimensions and Weight	One-way display trigger to RX Supported Supported 12V DC 1A (not included) 7.8W Supported, 1-way from RX 4-pin phoenix 0 to + 45°C (32 to + 113 °F), 10% to 90%, r -20 to +70°C (-4 to + 158 °F), 10% to 90%, 2.29 BTU/hr		SW-130-TX-US In-wall, 2-gang		
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Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR) Power Power Supply Max Power Consumption Power-over-HDBaseT (PoH) Local Power Supply Input Environmental Operating Temperature Storage Temperature Maximum BTU Dimensions and Weight Installation Height Width Depth	One-way display trigger to RX Supported 12V DC 1A (not included) 7.8W Supported, 1-way from RX 4-pin phoenix 0 to + 45°C (32 to + 113 °F), 10% to 90%, r -20 to +70°C (-4 to + 158 °F), 10% to 90%, r 2.29 BTU/hr SW-130-TX-UK In-wall, 2-gang 86mm/3.38in 146mm/5.74in		In-wall, 2-gang 105mm/4.13in 89mm/3.5in		
EDID Consumer Electronics Control (CEC) Auto Low Latency Mode (ALLM) Variable Refresh Rate (VRR) Power Power Supply Max Power Consumption Power-over-HDBaseT (PoH) Local Power Supply Input Environmental Operating Temperature Storage Temperature Maximum BTU Dimensions and Weight Installation Height Width Depth Weight Regulatory	One-way display trigger to RX Supported 12V DC 1A (not included) 7.8W Supported, 1-way from RX 4-pin phoenix 0 to + 45°C (32 to + 113 °F), 10% to 90%, r -20 to +70°C (-4 to + 158 °F), 10% to 90%, r 2.29 BTU/hr SW-130-TX-UK In-wall, 2-gang 86mm/3.38in 146mm/5.74in 38mm/1.55in		In-wall, 2-gang 105mm/4.13in 89mm/3.5in 38mm/1.55in		