USB-C Single Gang In-Wall HDBaseT Transmitter

TX-35-IWC-KVM



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

- Read through the Wiring and Connections section for important wiring guidelines before creating or choosing premade cables.
- Visit the product pages to download the latest firmware, document version, additional documentation, and configuration tools.

In the Box

1x TX-35-IWC-KVM

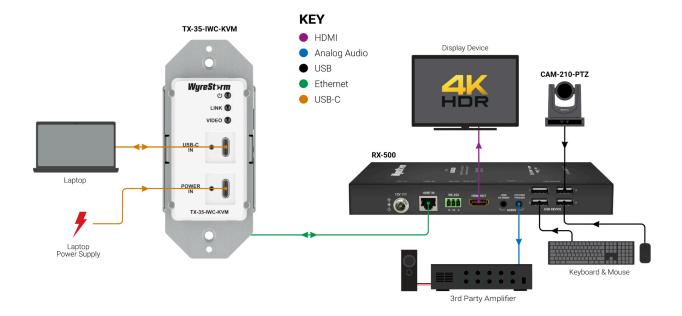
1x 2 pin Phoenix Male Connector 1x 3-pin Phoenix Male Connector

1 x Wall Plate Decora Panel (1-Gang US) with Screws

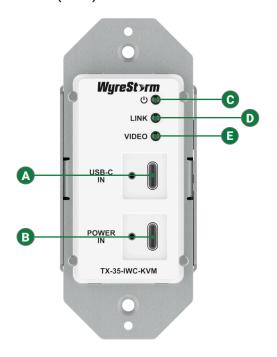
1x 2m USB 3.2 Type-C to Type-C Cable

1x Quickstart Guide (This Document)

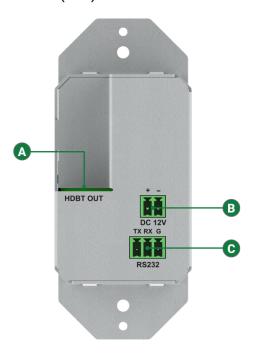
Basic Wiring Diagram



TX-35-IWC-KVM (Front)



TX-35-IWC-KVM (Rear)



A	USB-C Input	USB 3.0 type-C port. Connect to a USB-C source such as laptop. All peripherals on the connected receiver will be connected to the laptop the USB-C port connected. Supports the following three functions: • Supports transmitting video, audio, and USB 2.0 signals. • Supports PD 2.0. The port can charge the connected laptop (up to 100W) when the corresponding Charging port is connected to the external power source.		
		The following cable is recommended: USB type-C to type-C cable (USB 3.2 Gen 2 or above).		
В	USB-C Power In	Connect to an external power source (up to 100W) when charging the connected laptop through USB-C IN port.		
C	Power LED	On: The unit is powered On		
	I OHICI LLD	Off: The unit is powered Off		
D	Link LED	On: HDBT link is normal.		
	LIIIK LLD	Blinking/Off: No HDBT link or link error.		
E	Video LED	On: Input signal is active.		
	VIGEO LLD	Off: No signal input.		

A HDBT Output	Connect to an HDBT receiver such as RX-500.
B Power Input	12V reserved power supply. Connect to a DC 12V power adapter. With one-way PoH function supported, the transmitter can be powered by the receiver with PSE module such as RX-500.
C RS-232	Connect to a RS232 enabled device for RS232 pass-through or firmware upgrade.

TX-35-IWC-KVM (Top)



D RS232 DIP Switch

Set the function of **RS-232** port.

- PASS-THROUGH: RS-232 port is used to commands pass-through via HDBT.
- **UPDATE:** The RS232 port is used to upgrade Valens firmware of transmitter and receiver.

Wiring and Connections

WyreStorm recommends that all wiring for the installation is run and terminated prior to making connections to the transmitter. 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 transmitters, 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.

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
1	K Tranem	niccion	■ HD	Tranemie	eeion					

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

Communication Connections

RS-232 Wiring

The TX-35-IWC-KVM 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.

3-Pin Phoenix



WyreS	torm 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)

Power Wiring

The TX-35-IWC-KVM uses a 2-pin Terminal Connector if not powereed by PoH from receiver (12v 3a PSU not included)



WyreStorm Connector Pin 1 PWR + (Positive) Pin 2 PWR - (Negative)

Troubleshooting

No or Poor Quality Picture (snow or noisy image)

- · Verify that the HDMI inputs and HDMI output connections are not loose and are functioning property.
- Verify that the output resolution of the source and display is supported by this transmitter.
- · If transmitting 4K, verify that the HDMI cables used are 4K rated.

No or Intermittent 3rd party Device Control

Verify that the RS-232 cables are properly terminated.



Troubleshooting Tips:

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

Specifications

Audio and Video					
Inputs	1 x USB Type C Input 1 x USB Type C Power Input (for device charging, will not power TX)				
Outputs	1x HDBT Out: RJ45 Female				
Audio Formats	io Formats Supports multi-channel audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X				
Video Resolutions (Max)	Video Resolutions VESA: 800x600 ⁸ , 1024x768 ⁸ , 1024x768 ⁸ , 1280x768 ⁸ , 1280x800 ⁸ , 1280x960 ⁸ , 1280x1024 ⁸ , 1360x768 ⁸ , 1366x768 ⁸ , 1400x1050 ⁸ , 1440x900 ⁸ , 1600x900 ⁸ , 1600x1200 ⁸ , 1680x1050 ⁸ , 1920x1200 ⁸ SMPTE: 1280x720P ^{12,3,4,5,6,7,8} , 1920x1080I ^{6,8} , 1920x1080P ^{1,2,3,4,5,6,7,8} , 3840x2160 ^{2,3,5,6,8} , 4096x2160 ^{2,3,5,6,8} 1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = at 60 Hz NOTE: 4096x2160/3840x2160@50Hz/60Hz is based on chroma sub-sampling 4:2:0 8-bit only Cat5e or higher: 3840x2160p @30Hz 8bit (100m/328ft)				
Maximum Data Rate	5Gbps (Per lane)				
USB Bandwidth over HDBaseT	150Mbps				
Communication and Control					
RS-232	1x 3-pin Phoenix (Passthrough RS-232 + Update Port)				
Power					
Power Supply	12V DC 3A (Sold Separately)				
РоН	Transmitter can be powered by the receiver with PSE module such as RX-500.				
Environmental					
Operating Temperature	0°C to +45°C (32°F to +113°F), 10% to 90%, non-condensing				
Storage Temperature	-20°C to +70°C (-4°F to +158°F), 10% to 90%, non-condensing				
Dimensions and Weight					
Rack Units/Wall Box	1-Gang US Style				
Height	105.6mm/4.16in				
Width	45mm/1.77in				
Depth	45.3mm/1.78in				
Weight	0.21kg/0.46lb				
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 for more details on our limited product warranty.

