

# HDMI & USB Single Gang In-Wall HDBaseT Transmitter

## TX-35-IW-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.



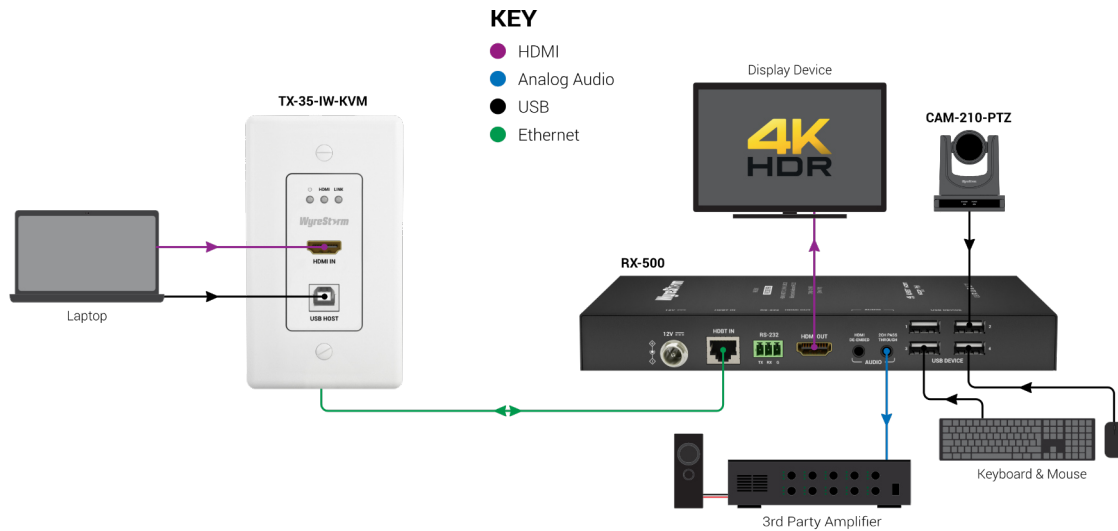
### ⚠️ IMPORTANT! Installation Requirements

- 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.

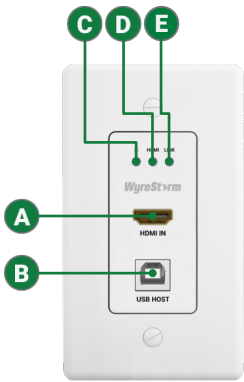
### In the Box

- 1x TX-35-IW-KVM
- 1x 2 pin Phoenix Male Connector
- 1x 3-pin Phoenix Male Connector
- 1x Wall Plate Plastic Panel (1-gang US)
- 1x USB-B to USB-A host cable
- 1x Quickstart Guide (This Document)

### Basic Wiring Diagram

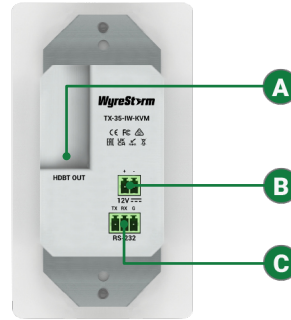


## TX-35-IW-KVM (Front)



|          |                   |   |
|----------|-------------------|---|
| <b>A</b> | <b>HDMI Input</b> | 19-pin type A HDMI female<br>Supports HDMI and DVI/D with adapter                               |
| <b>B</b> | <b>USB Host</b>   | USB Type B female<br>Connection of USB Host device  |
| <b>C</b> | <b>Power LED</b>  | <b>On:</b> The unit is powered On<br><b>Off:</b> The unit is powered Off                        |
| <b>D</b> | <b>Source LED</b> | <b>On:</b> Indicates the selected source  |
| <b>E</b> | <b>Link LED</b>   | <b>On:</b> Indicates link with receiving device<br><b>Off:</b> No link with receiver/powerd off |

## TX-35-IW-KVM (Rear)



|          |                    |  |
|----------|--------------------|--|
| <b>A</b> | <b>HDBT Output</b> | 8-pin RJ-45 female<br>Connect the transmitter's <b>HDBT OUT</b> to receiver's <b>HDBT IN</b> . |
| <b>B</b> | <b>RS-232</b>      | 3-Pin Phoenix Serial Input for passthrough serial commands                                     |
| <b>C</b> | <b>Power Input</b> | 2-pin Phoenix: 12v 1A input  |

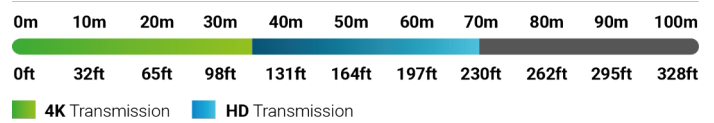
## Wiring and Connections

WyreStorm recommends that all wiring for the installation is run and terminated prior to making connections to the switcher. Read through this section in 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.
- WyreStorm recommends using pre-terminated VGA, HDMI, DP 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.

#### Cat6 Cable Performance Guide



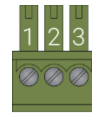
WyreStorm recommends the use of shielded cable to minimize signal noise and interference

## Communication Connections

### RS-232 Wiring

The TX-35-IW-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 functionality to ensure that the correct connections can be made.

#### 3-Pin Phoenix Terminal



| 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)    |

## Power Wiring

The TX-35-IW-KVM uses a 2-pin Terminal Connector if not powered by PoH from receiver (12v 1a 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 properly.
- Verify that the output resolution of the source and display is supported by this transmitter.
- Configure EDID Settings to a lower resolution.
- 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                |   |
|--------------------------------|---|
| <b>Inputs</b>                  | 1x HDMI In: 19-pin Type A<br>1x USB Host  |
| <b>Outputs</b>                 | 1x HDBT Out: RJ45 Female  |
| <b>Audio Formats</b>           | Supports multi-channel audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X                                       |
| <b>Video Resolutions (Max)</b> | 1920x1080p @60Hz 16bit<br>3840x2160p @30Hz 8bit 4:2:0<br>3840x2160p @60Hz 8bit 4:2:0<br>4096x2160p @60Hz 8bit 4:2:0<br>5120x1440 @30Hz<br>5120x1440 @60Hz 4:2:0 |
| <b>Maximum Pixel Clock</b>     | 297MHz  |
| Communication and Control      |   |
| <b>HDMI</b>                    | HDMI   HDCP 2.2   EDID  |
| <b>USB</b>                     | 1x USB 2.0 Type B host port   |
| <b>RS-232</b>                  | 1x 3-pin Phoenix (Passthrough RS-232 + Update Port)   |
| Power                          |   |
| <b>Power Supply</b>            | 12V DC 1A (Sold Separately)   |
| <b>PoH</b>                     | Supported, 1-Way from RX  |
| <b>Max. Power Consumption</b>  | 4.5W  |
| Environmental                  |   |
| <b>Operating Temperature</b>   | 0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing  |
| <b>Storage Temperature</b>     | -20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing   |
| Dimensions and Weight          |   |
| <b>Rack Units/Wall Box</b>     | 1-Gang US   |
| <b>Height</b>                  | 105.6mm/4.15in  |
| <b>Width</b>                   | 45mm/1.77in   |
| <b>Depth</b>                   | 45.3mm/1.78in   |
| Regulatory                     |   |
| <b>Safety and Emission</b>     | 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](https://www.wyrestorm.com) for more details on our limited product warranty.

