# VigilLink

# VLWP-UHC-TR

18Gbps CAT 50M with USB-C/HDMI Wall Plate Transmitter



## User Manual

**VER 1.1**

# Thank you for purchasing this product

Please read these instructions carefully for optimum performance and safety before connecting, operating, or adjusting this product. Please keep this manual for future reference.

# A surge protection device is recommended.

This product contains sensitive electrical components that electrical spikes may damage, surges, electric shocks, lightning strikes, etc. The use of surge protection systems is highly recommended to protect and extend the life of your equipment.

# Table of Contents

## 1. Introduction

The wall plate is a 2x1 switcher and CAT transmitter with HDMI and USB-C inputs. It features a US one-gang enclosure for Decora-style wall plate openings with interchangeable black and white wall plates and faceplates. Support video resolution up to 4K2K@50/60Hz 4:4:4. CAT6 output can extend video transmission distance up to 164ft / 50m. The receiver or other CAT-equipped devices remotely power the product via PoC.

## 2. Features

☆ Compliant with HDMI 2.0b, HDCP 2.2, and Display Port 1.2a
☆ HDMI input supports 18Gbps video bandwidth; USB-C input supports 5.4Gbps video bandwidth
☆ Video resolution up to 4K2K@50/60Hz 4:4:4
☆ CAT6 output can extend video transmission distance up to 164ft / 50m for 4K@24 or 115ft / 35m for 4K@60 444 via a single CAT5e/6 cable
☆ Support 3D, HDR10, and Dolby Vision
☆ HDMI audio formats support LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
☆ Support HDMI and USB-C input
☆ With USB-C charging port
☆ US one-gang enclosure for Decora-style wall plate openings
☆ Input signal selection supports automatic mode and manual mode
☆ Support PoC function (only from Receiver to Transmitter)
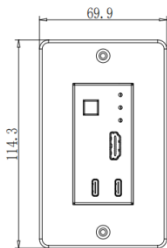☆ Available in white or black coating

## 3. Package Contents

① 1× 18Gbps CAT 50M with USB-C/HDMI Wall Plate Transmitter
② 1× User Manual

## 4. Specifications

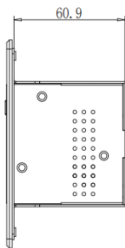| Technical | |
|---|---|
| HDMI Compliance | HDMI 2.0b |
| HDCP Compliance | HDCP 2.2 |
| DP Compliance | Display Port 1.2a |
| Video Bandwidth | USB-C: 5.4 Gbps |
| | HDMI: 18 Gbps |
| Video Resolution | 480i~1080p50/60Hz, 4Kx2K@24/30Hz, 4k2k@60Hz |
| Color Space | RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0 |
| Color Depth | 8/10/12-bit (1080P@60Hz)<br>8-bit (4K@60Hz) |
| HDR | Support |
| HDMI Audio Formats | LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD |
| Transmission Distance | Max distance (4K@24) : 164ft / 50m over CAT5e/6<br>Max distance (4K@60) : 115ft / 35m over CAT5e/6 |
| ESD Protection | Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge) |
| Connection | |
| Transmitter | Inputs: 1 x HDMI Type A [19-pin female]<br>       1 x USB-C<br>Outputs: 1 x CAT6 OUT [RJ45, 8-pin female]<br>       1x USB-C (only for charging)<br>Control: 1x FW [Micro USB, Update port] |
| Receiver | Input: 1x CAT IN [RJ45, 8-pin female]<br>Output: 1x HDMI OUT [Type A, 19-pin female]<br>Controls: 1x IR IN [3.5mm Stereo Mini-jack]<br>       1x SERVICE [Micro USB, Update port] |

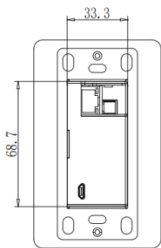| Mechanical | |
|---|---|
| Housing | Metal Enclosure |
| Color | White / Black |
| Dimensions | Wall plate:<br>33.3mm [W] x 65.7mm [D] x 68.7mm [H]<br>Faceplate:<br>69.9mm [W] x 3mm [D] x 114.3mm [H]<br>Receiver:<br>88mm (W) x 61mm (D) x 18mm (H) |
| Weight | Wall plate: 195g, Receiver: 155g |
| Power Supply | PoC (only from Receiver to Transmitter) |
| Power Consumption | Wall plate: 3W (Max), Receiver: 3.72W (Max) |
| Operating Temperature | 32 - 104°F / 0 - 40°C |
| Storage Temperature | -4 - 140°F / -20 - 60°C |
| Relative Humidity | 20- 90% RH (no condensation) |

## 5. Product Dimensions



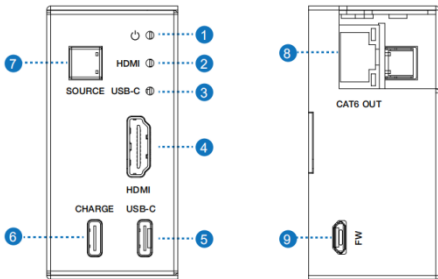Front            Side            Back
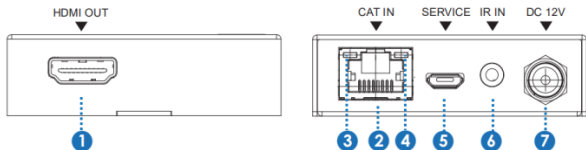
Unit: mm

# 6. Operation Controls and Functions

## 6.1 Transmitter Panel



| No. | Name | Function Description |
|-----|------|----------------------|
| 1 | Power LED | The power LED indicator will illuminate in green when the product is powered on and red when the product is on standby. |
| 2 | HDMI LED | The green LED will be on when the HDMI input port is active and the HDMI signal is detected. |
| 3 | USB-C LED | The green LED will be on when the USB-C input port is active, and the USB-C signal is detected. |
| 4 | HDMI port | HDMI input port, connect to HDMI source device. |
| 5 | USB-C port | (1) USB-C signal input port. (2) Charging port for devices with USB-C port. |
| 6 | CHARGE port | Connect this port to the power supply; the USB-C port will power the connected device. |
| 7 | SOURCE button | Used to switch HDMI / USB-C input signal. |
| 8 | CAT6 OUT | Connect to the CAT IN port of the Receiver with a CAT5e/6 cable. |
| 9 | FW port | Firmware update port. |

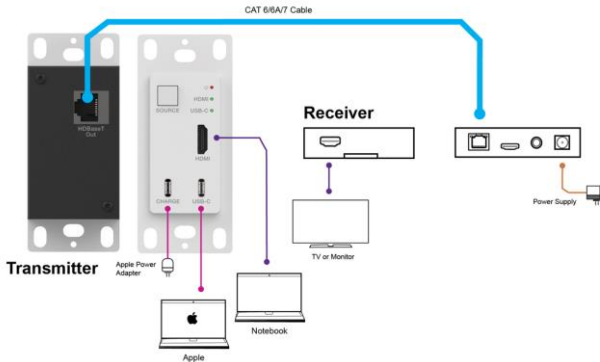| No. | Name | Function Description |
|-----|------|----------------------|
| 1 | HDMI OUT | HDMI output port, connect to HDMI display device such as TV or Projector with an HDMI cable. |
| 2 | CAT IN | Connect to the CAT6 OUT port on the transmitter with a CAT cable. |
| 3 | Power Indicator Lamp (Green) | The power indicator lamp will be on when the receiver is powered on. |
| 4 | Data signal Indicator Lamp (Orange) | The lamp will be on when there is signal transmission between the transmitter and the receiver. |
| 5 | SERVICE port | Used for firmware update. |
| 6 | IR IN | IR signal input port. Connect to the IR Receiver cable. |
| 7 | DC 12V | Plug the DC 12V/1A power supply into the unit and connect the adapter to an AC outlet. (**Note:** The CAT receiver provides power for the transmitter via a CAT cable. ) |

**Note:**
This transmitter supports automatic/manual mode for source signal input.
In manual switching mode, press the SOURCE button to select HDMI/ USB-C input source.
In automatic switching mode, the last connected or the currently connected source signal will be selected automatically; When both HDMI and USB-C

ports are connected to the active signal, HDMI signal input is preferred.

## 7. Application Example





HDMI and HDMI High-Definition Multimedia interface and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.