

HDC-TH100WP



4K@60 and HDCP2.2 supported HDBaseT HDMI Wall-Plate transmitter

The IDK HDC-TH100WP is a wall-mountable transmitter for a long-haul transmission of HDMI signal over one single twisted pair cable. The image quality will not be deteriorated, since video signal is transmitted at a resolution up to 4K@60 without compression. Input video signal is converted to HDBaseT signal and sent up to 328 ft. (100 m).

PoH (Power over HDBaseT) is supported. Connecting a receiver supporting PoH power supply (PSE) function eliminates the need for a local power supply.



FEATURES

Video

- Up to 4K@60
- HDCP 1.4 / 2.2 (Pass through)
- Up to 328 ft. (100 m) over CAT.5E HDC / Cat5e STP / Cat6 STP cable (4K@60)
- Cat5e UTP cable transmission*1
- Up to 328 ft. (100 m) over a Cat6 UTP cable*2
- Long reach mode: up to 492 ft. (150 m), 1080p (24 bit) or less, with IDK's HDBaseT products supporting 328 ft. (100 m)*3
- No substantive extension delay: 10 μ s or less / 328 ft. (100m)

Others

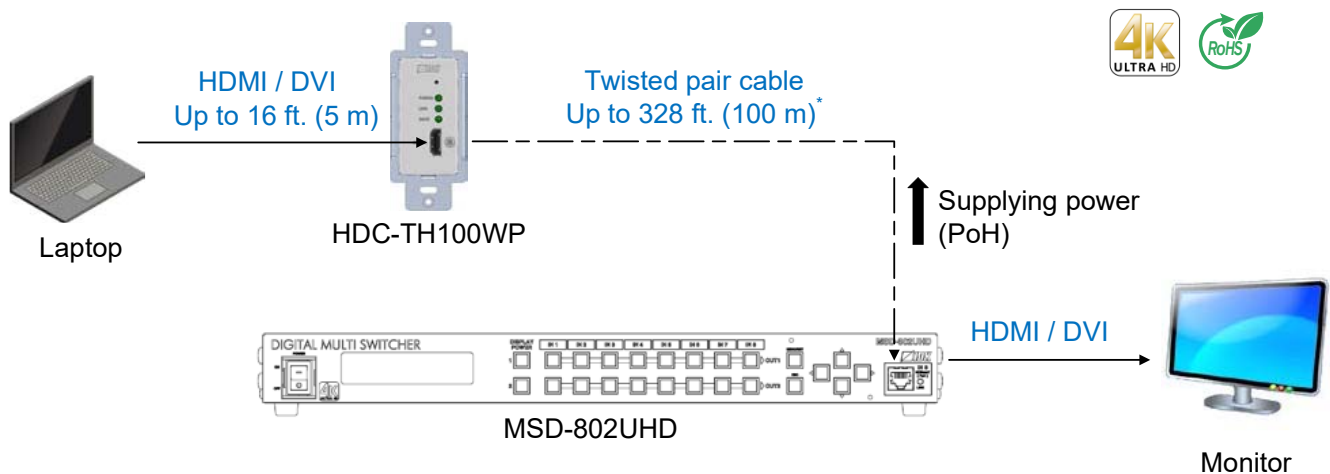
- CEC (Pass through)
- PoH power supplied (PD) (HDBaseT output)

*1 If exceeding 164ft. (50 m), CAT.5E HDC, Cat5e STP, and Cat6 UTP / STP cables are recommended.

*2 If the 4K format exceeds 230 ft. (70 m), CAT.5E HDC, Cat5e STP, and Cat6 STP cables are recommended.

*3 If exceeding 328 ft. (100 m) in Long reach mode, CAT.5E HDC, Cat5e STP, and Cat6 STP cables are recommended.

APPLICATION EXAMPLE



* Maximum extension distance

Up to 328 ft. (100 m) : 4K@60

Up to 492 ft. (150 m) : 1080p (24 bit) in Long reach mode and with IDK's HDBaseT products supporting 328 ft. (100 m)

with your vision, Always.

- *1 ARC and HEC are not supported.
- *2 To transmit those signals, use an IDK's twisted pair cable extender supporting DVI signals.
If DVI signals with HDCP is sent from the source device, video may not be output to the sink device. please check the operation beforehand.
- *3 Use 16 ft. (5 m) or shorter HDMI cables.
For 4K format, use an 18-Gbps high speed cable.
- *4 For 4K format, 24 Hz / 25 Hz / 30 Hz / 50 Hz (4:2:0) / 60 Hz (4:2:0) are supported.
- *5 For 4K format, the following color depths are supported.
 - 24 Hz / 25 Hz / 30 Hz : 24 bit (RGB, YCbCr 4:4:4)
 - : 24 bit, 30 bit, 36 bit (YCbCr 4:2:2)
 - 50 Hz / 59.94 Hz / 60 Hz: 24 bit (YCbCr 4:2:0)
- *6 T568A or T568B straight. The CAT.5E HDC cable is developed by IDK and recommended by HDBaseT alliance.
- *7 The maximum extension distance was obtained when IDK's CAT.5E HDC cable was used. The distance may not be extended with some device combinations, cabling method, or other manufacturer's cable. Video may be disturbed or may not be output even if signals are within the range mentioned above. Operations may not be stable with some LCD devices; please check the operation beforehand or contact us.
The maximum extension distance is the shorter distance of connected HDBaseT product or sink device's maximum extension distance.
For Long reach mode, use IDK's twisted pair cable products that supports 328 ft. (100 m), and up to resolutions 1080p (24 bit) or less are supported.
- *8 For receiving power, please use a twisted pair cable receiver that supports PoH power supply (IEEE 802.3af) or PoH injector. For providing power, use an AWG 24 or thicker twisted pair cable.
- *9 PoH (powered) cannot be used together with DC 12 V power supply.
- *10 Wall: 0.5 in. (1.27 cm) or thicker