

HD-10UTR

4K 18Gbps HDMI / USB HDBaseT™ Extender

- Supports up to 4K @ 60 (18Gbps) and HDR
- Transmit video, audio, USB Ver2.0 device, IR, RS-232C up to 100m
- Supports bidirectional PoC (power over cable)
- DC connector for disconnection prevention / DC12 to 24V input compatible

Applications

- Home theatre, conference room or lecture hall
- Storefront displays
- Security camera data transmission.
- Hospital display systems
- Digital Signage
- For control of remote control PC in factory clean room



Introduction

HD-10UTR support Up to 4K @ 60 (18Gbps) video / audio signal (HDMI), USB device signal, serial signal (RS-232C) (* 3), IR signal (remote control) (* 3), power supply (PoC) category 6 HDBaseT HDMI extender that can transmit up to 70m (100m for 1080p@60/10.2Gbps equivalent) with one / 5e LAN cable.

For signal transmission between the TX (transmitter) and RX (receiver) of the HD-10UTR, in addition to Valens' dedicated IC for HDBaseT protocol transmission, a low-delay IC for scaling transmission signals is additionally used. You. Downscale conversion of input 4K @ 60 (18Gbps) signal to 4K @ 60 4: 2: 0 8bit (10.2Gbps) signal on TX side, transmission and reception to RX side by Valens IC, RX side 4K @ 60 4: 4: 4 8bit (18Gbps) video signal transmission is possible by up-scaling again with the IC mounted on the PC. In addition, a low-delay scaling IC is used, and the delay that occurs from signal transmission to signal reception is about 20 nsec, which is a low delay that is invisible to the naked eye. This supports HDMI signal transmission up to 18 Gbps and HDR (high dynamic range) video. HDCP1.4 and 2.2 are transmitted by pass-through.

Both TX and RX are equipped with USB type A and micro-USB terminals, and switching between the device side and the host side is possible with the main body DIP switch. In addition, since it also supports bidirectional transmission of RS-232C serial signals and remote control IR signals, it can transmit mouse, keyboard, touch panel control signals, etc. to operate remotely installed PCs, control printers, etc. It can be used in various applications.

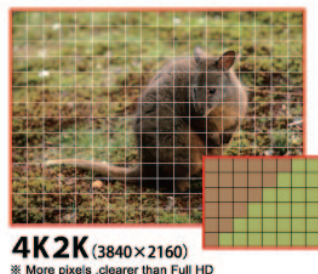
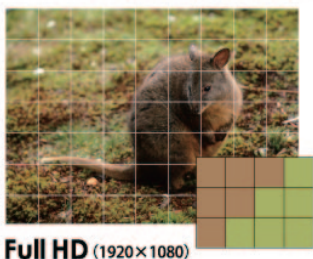
The power supply uses a PoC (power over cable) that supplies power via a LAN cable. Simply connect the AC adapter to either TX or RX, and it will supply power to the other device. The input is compatible with a wide range of voltage input from 12V to 24V, and a screw type connector is adopted for the power supply DC connector to connect the AC adapter, making it suitable for prevention of disconnection at the installation site.

It can be used in projectors and electronic blackboard pointing devices installed in conference rooms and classrooms, PC control in factory clean rooms, digital signage, security cameras, and other environments that require long-distance transmission of video, audio, and USB devices. HDBaseT HDMI extender.

Up to 4K UHD @ 60 4: 4: 4 compatible, HDR compatible

For signal transmission between the TX (transmitter) and RX (receiver), in addition to Valens-dedicated IC that performs HDBaseT protocol transmission, a low-delay IC that scales the transmission signal is additionally used. Downscale conversion of input 4K @ 60 4: 4: 4 (18Gbps) signal to 4K @ 60 4: 2: 0 (10.2Gbps) signal on TX side, transmission and reception to RX side by Valens IC Then, by upscaling again with the IC mounted on the RX side, 4K @ 60 4: 4: 4 video signal transmission is enabled. In addition, a low-delay scaling IC is used, and the delay that occurs from signal transmission to signal reception is about 20 nsec, which is a low delay that is invisible to the naked eye. This supports HDMI signal transmission up to 18 Gbps and HDR (high dynamic range) video. HDCP1.4 and 2.2 are transmitted by pass-through.

4K2K compatible: 4x the pixels of Full HD



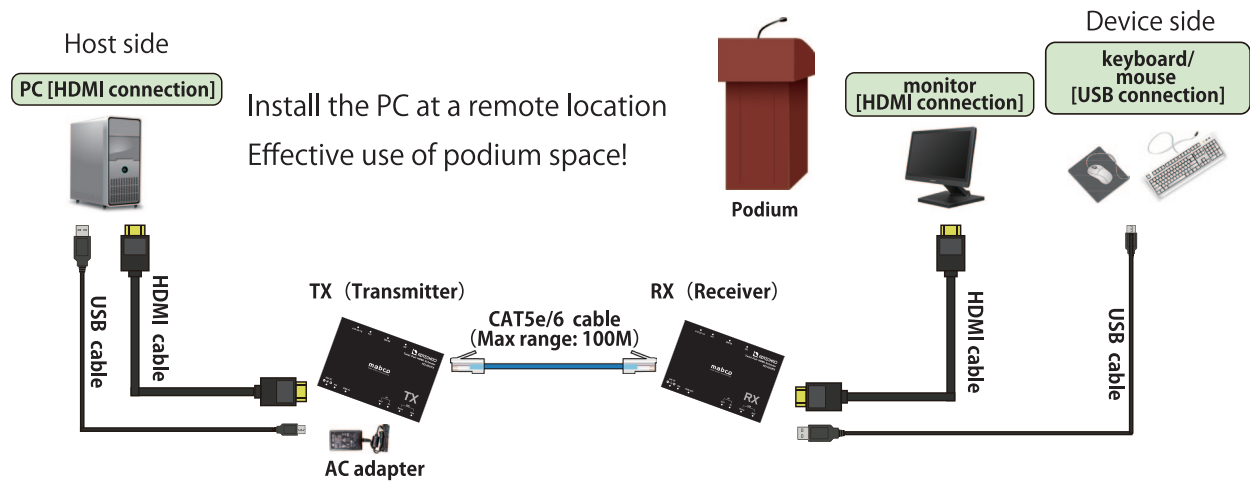
Normal output



HDR output

Transmit video / audio / USB device signal / IR signal / RS232-C signal up to 100m

One LAN cable for video / audio signal (HDMI), USB device signal (Ver2.0), serial signal (RS-232-C) (* 3), IR signal (remote control) (* 3), and power supply (PoC) It can transmit up to 100m (70m for 4K UHD). In addition, the transmitter and receiver are equipped with USB ports (type A / micro-USB), respectively, which can be used to operate the PC itself, hard disk drive, etc., away from the mouse and keyboard. When the device on the device side and the device on the host side are exchanged, the device side and the host side can be switched by the DIP switch on the main unit.



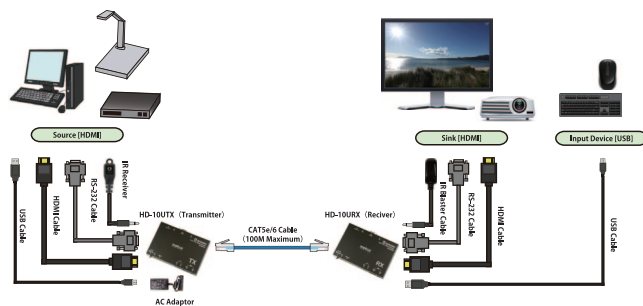
Supports bidirectional PoC (power over cable)

Supports PoC (power over cable) that transmits power over LAN cable. In consideration of the power environment at the installation location, simply connect the AC adapter to either the transmitter or the receiver, and it supports bidirectional power supply from the transmitter to the receiver or from the receiver to the transmitter To do.

DC connector to prevent disconnection / DC 12 to 24V input compatible

In addition to supporting a wide range of voltage input from 12V to 24V, a screw-type connector is used for the power connector of the main unit. Since the main unit and the AC adapter connector are fixed with screws, the cable does not come off even if the cable is pulled, such as by hooking a foot.

Connection image



Specifications

model	HD-10UTR	
Unit Type	TX	RX
HDMI standard	4KUHD@60 (18Gbps) and HDR, CEC compatible (*2) ARC, CRC Not compatible	
HDCP	Rev.1.4, 2.2 (*1)	
EDID	Bypass	
PoC	Bi-directional	
Video Signals	4K UHD@60 (18Gbps)	
range	1080p60 48bit Color or Full HD: 100m (*2) 4K UHD@60: 70m(*2)	
Bandwidth	18Gbps	
Equalizer function	Auto	
IR pass-thru	Bi-directional (20kHz ~ 60kHz)	
RS-232C	Full Duplex / Max 115,200bps	
Input Ports	HDMI (HDCP) ×1 3.5mm jack (IR) ×1	RJ-45 (HDBaseT) ×1 3.5mm jack (IR) ×1
Output Ports	RJ-45 (HDBaseT) ×1 3.5mm jack (IR) ×1	HDMI (HDCP) ×1 3.5mm jack (IR) ×1
RS-232-Cconnector	Non-detachable (captive screw) female × 1	
USB type	Type A (Ver 2.0) ×1 micro-USB (Ver 2.0) ×1	
HDMI Connector	Type A	
RJ-45 connector	EIA/TIA-568B straight-through WE/SS 8P8C	
3.5mm connector	IR Receiver ×1 / IR Transmitter ×1	
Dimension	151(W) × 97(D) × 24(H) mm	
※Not inclusive of protrusions		
Power Supply	DC12 ~ 24V	
Power Consumption	Max28W (Total of TX + RX)	
Operating/Storage Temperature	0°C ~ 50°C / -20°C ~ 60°C	
Relative Humidity	20% ~ 90% (No Condensation)	
Package Contents	HD-10UTR (TX / RX), AC Adapter, Mounting bracket, Screws	

(* 1) Operation with all devices is not guaranteed.

(* 2) The length depends on the environment you use.

(* 3) An optional cable is required separately.

* HDMI (High-Definition Multimedia Interface) is a trademark or registered trademark of HDMI Licensing in the United States and other countries.

* HDBaseT is a registered trademark of HDBaseT Alliance.

* Appearance and specifications are subject to change without notice.

* IR cable (Transceiver set) and RS-232C cable are sold separately.

The latest information and the detailed product specifications are available at <http://www.ad-techno.com/en/>

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