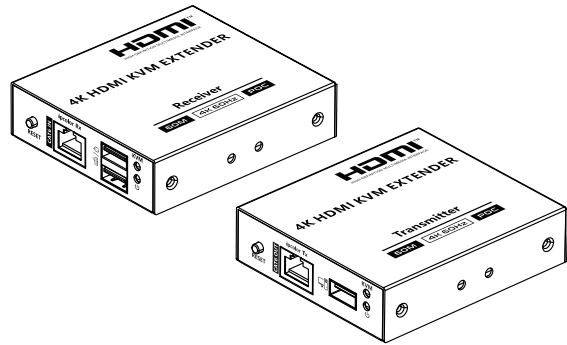


TrueReach TR17 4K@60Hz HDR HDMI KVM Extender over Ethernet Cable



User Manual
Y10G017-B1



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Important Safety Notice

- **Grounding:** To prevent electric shock, ensure all devices are properly grounded.
- **No Hot Plugging:** Do not plug or unplug cables while the device is powered on.
- **Heat Exposure:** Keep the device away from radiators/heat registers/sunlight to avoid overheating.
- **Ventilation:** Put device in a well-ventilated area and ensure ventilation openings are not blocked.
- **Water Protection:** Do not expose the device to rain, moisture, or water. Any liquid entering the device can cause malfunction, fire, or electric shock.
- **Stability:** Put device on a stable, level surface to prevent it from falling and becoming damaged.
- **Metal Objects:** Never insert metallic objects into any device openings for risk of electric shock.
- **Repairs:** Repairs should only be performed by a qualified technician.
- **Power Supply:** If using a third-party power supply, ensure it meets the device's specifications.
- **Cable Handling:** Do not plug or unplug the Ethernet or HDMI cables while the device is powered on.

Introduction

The TrueReach TR17 offers zero-latency transmission, ensuring seamless and reliable video performance. Capable of extending 4K@60Hz HDMI signals up to 196ft (60m) over CAT6/6A/7 network cables, this kit is equipped with versatile features, including HDMI loop-out, KVM functionality, and 3.5mm stereo audio output. Designed for ultra-high-definition video transmission, it delivers exceptional clarity and dependability, making it the perfect solution for security monitoring, home theaters, broadcasting, training environments, and other professional applications.

Features

- Zero-latency transmission for seamless video and audio performance.
- Extend 4K@60Hz HDMI signals up to 196ft (60m) over Cat6/6A/7 cables.
- Wide compatibility with multiple resolutions, including 3440x1440, 2560x1440, 2560x1080, 2048x1080, and 1920x1440.
- KVM functionality supported for keyboard and mouse control.
- HDR10 support for enhanced color depth and contrast.
- HDMI loop-out available on the transmitter for local monitoring.
- 3.5mm stereo audio output supported on the receiver.
- Auto downscaling for seamless resolution adaptation.
- Built-in lightning, surge, and ESD protection for enhanced reliability and safety.
- PoC (Power over Cable) support: Power is required only at the transmitter (TX) for both devices.

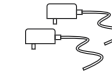
Package Contents



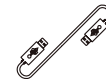
Transmitter x1



Receiver x1



DC 5V/2A x1



USB cable x1



User manual x1



Mounting ear x4

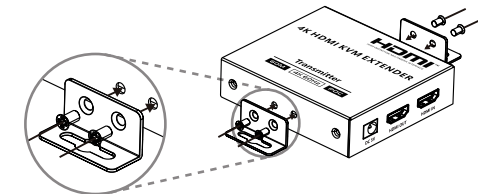


Screw x10

Installation Requirements

Item	Description	Requirement
Signal source	PC, DVD, NVR, etc. with HDMI port	HDMI cable ≤ 16ft (5m)
Cable	CAT6/6A/7, following standard IEEE-568B	CAT6/6A/7 ≤ 196ft (60m)
Display device	TV, projector, LED screen, etc; with HDMI port	HDMI cable ≤ 16ft (5m)

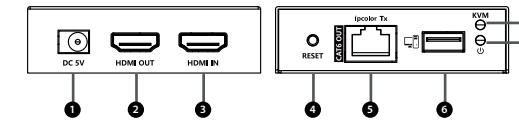
Wall Mounting



Choose the wall mounting position and attach the mounting ears to the unit according to the diagram.

Panel Description

Transmitter



1	Power Input	Connect with DC 5V/2A power adapter
2	HDMI Out	Connect with HDMI display device
3	HDMI in	Connect with HDMI source device
4	Reset Button	Press to restart the device
5	RJ45 Output	Connect with CAT6/6A/7 network cable
6	USB-A Port	Connect to the computer with USB cable
7	KVM Indicator	Light off: the computer and the USB port have not established a connection; Steady on: the computer and the USB port are connected; Light flashing: the KVM data is transmitting
8	Power Indicator	Light flashing: power is on, but no HDMI signal is transmitted; Steady on: HDMI signal is transmitting

Panel Description

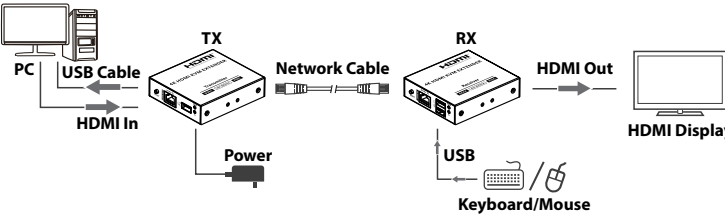
Receiver

1 DC 5V, 2 HDMI OUT, 3 L/R, 4 RESET, 5 RJ45, 6 USB-A, 7 KVM, 8 Power Indicator

1	Power Input	PoC, only TX power supply is needed
2	HDMI Out	Connect with HDMI display device
3	L/R Stereo Audio Output	Connect with speaker/earphone
4	Reset Button	Press to restart the device
5	RJ45 Input	Connect with CAT6/6A/7 network cable
6	USB-A Port	Connect with the mouse and keyboard
7	KVM Indicator	Light off: the keyboard/mouse and the USB port have not established a connection; Steady on: the keyboard/mouse and the USB port are connected; Light flashing: the KVM data is transmitting
8	Power Indicator	Light flashing: power is on, but no HDMI signal is transmitted; Steady on: HDMI signal is transmitting

Installation Procedures

1. Connection Diagrams



Installation Procedures

2. Connection Instructions

1. Connect the source device to the HDMI IN port on the transmitter using an HDMI cable, and connect the HDMI OUT port on the receiver to the display device using another HDMI cable.
2. Use a Cat6/6A/7 network cable to connect the RJ45 ports on the transmitter and receiver.
3. For KVM functionality, connect the keyboard/mouse to the USB port on the receiver, and connect the computer to the USB port on the transmitter using a USB cable.
4. If using HDMI loop-out, connect the display device to the HDMI OUT port on the transmitter.
5. For additional audio output, connect a speaker to the L/R port using a 3.5mm stereo audio cable.
6. Connect the power supply to the devices to power them on and begin operation.

FAQ

The devices are connected correctly, but no image is displayed.

- Ensure the HDMI cable meets the transmission requirements (e.g., use a 4K-compatible HDMI cable).
- Verify that the network cable is securely connected at both ends.
- Restart the transmitter or receiver by pressing the reset button.

Why does the display occasionally show a black screen?

- Check if the cable length is within the specified range.
- Restart the transmitter or receiver by pressing the reset button.

Why is the display color abnormal, or there is no sound?

- Ensure both the HDMI cables and the network cable are properly connected.
- Restart the transmitter or receiver by pressing the reset button.

Technical Parameters

Item	Transmitter	Receiver
Video		
Input interface	1x HDMI	1x RJ45
Output interface	1x HDMI / 1x RJ45	1x HDMI
HDMI length	≤ 5m	≤ 5m
Maximum transfer rate	18Gbps	
Compatibility	HDMI 2.0	
	HDCP 2.2	
Resolutions	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 3840x2160@24/25/30/50/60Hz, 4096x2160@24/25Hz, 3440x1440, 2560x1440, 2560x1080, 2048x1080, 1920x1440, 1920x1200, 1280x960, 1280x800, 1280x768, 1680x1050, 1360x768, 1366x768, 1600x900, 1024x768, 800x600	
Transmission distance	CAT6/6A/7 ≤ 60m	
Audio		
Input interface	1x HDMI	N/A
Output interface	1x HDMI	1x HDMI / 1x 3.5mm L/R
Audio formats	LPCM/DTS-Audio/Dolby Digital 5.1CH/Dolby Atmos	
Command Signal		
USB version	USB 1.1, compatible with USB 1.0	
Power		
Power Supply	DC 5V/2A	PoC (Powered by TX)
Power Consumption	TX+RX<8W	
Operating Environment		
Working	-10℃~60℃	
Storage temperature	-30℃~70℃	
Humidity	0~90% RH (no condensation)	
Physical Properties		
Housing	Iron	
Weight	TX: 146g	RX: 146g
Color	Black	
Dimensions	85.0(L)x75.5(W)x21.5(H)mm	
Protection	ESD protection; 1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV); Implementation of the standard: IEC61000-4-2	
	Lightning protection, Surge protection	

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