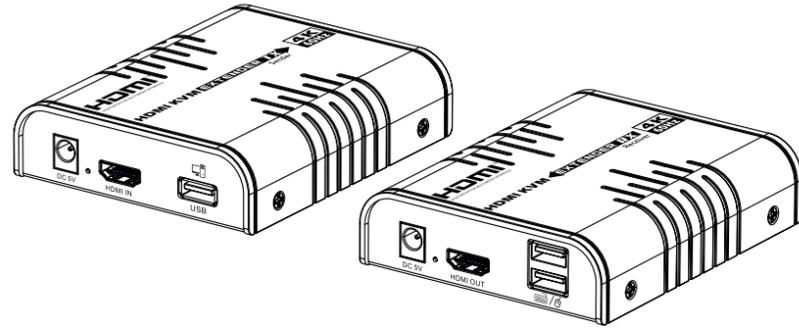# rocstor®

TrueReach TR19 4K@60Hz HDMI KVM Exender Supports USB KVM

User Manual
Y10G019-B1

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Important Safety Notice

WARNING:
Please follow these safety instructions. Failure to do so may result damages or injury. It is normal that the device becomes very warm during use.

Please note that:
Continuous contact with warm surfaces for extended time may cause discomfort or injury. In order to reduce the possibility of overheating or heat-related injuries, always allow needed ventilation around the device and use care when handling it. Avoid instances where your skin is in extended contact with the device when plugged into the host computer. It is not recommended to sleep with the device when plugged into a host computer. Avoid placing the device under a pillow, blanket, or your body when connected to a host computer. If you have a medical condition that affects your ability to detect heat against the body, extra care should be used. Never use the device in locations with water, such as a sink, bathtub, or shower stall. Never connect or disconnect the device with wet hands.

Introduction

The TrueReach TR19 is a powerful solution featuring a sender and receiver, enabling the extension of HDMI signals up to 393ft (120m) over Cat 6 or higher network cables. Offering versatile connectivity, it supports one-to-one setups, one-to-many configurations via a gigabit switch, and cascading switches for greater flexibility. With integrated KVM functionality, this extender is ideal for a variety of applications, including meetings, home entertainment, educational presentations, and other professional or personal setups, ensuring seamless performance and enhanced usability.

Features

- Provides high-definition video transmission with low latency for seamless performance.
- Supports resolutions up to 4096x2160@60Hz, with backward compatibility for lower resolutions.
- Compatible with Cat5/5e/6 and higher network cables, offering a transmission distance of up to 393ft (120m) with Cat6 cables.
- Enables flexible configurations, including one-to-one connections or one-to-many setups via a gigabit switch.
- Features KVM control signal passback for enhanced functionality.
- Firmware upgrades are supported through a convenient Micro USB port.
- Built with robust lightning protection, surge protection, and ESD protection for reliable operation.
- Designed for continuous 24/7 operation, ensuring consistent and stable performance.
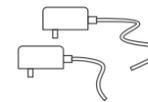
Package Contents

HDMI Extender Sender TX x1pcs

HDMI Extender Receiver RX x1pcs
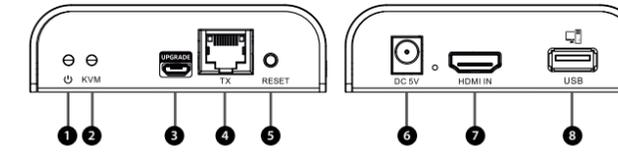
USB Cable x1pcs

DC5V/1A x 2pcs

User Manual x1pcs

Note: The accessory contents listed above represent the standard package for a complete kit. If purchasing the HDMI extender transmitter (TX) or receiver (RX) separately, the package contents may vary.

Installation Requirements

1. HDMI Source Devices: Compatible with devices such as computer graphics cards, DVD players, PS3 consoles, and HD monitoring equipment.
2. HDMI Display Devices: Supports displays like SDTVs, HDTVs, and projectors equipped with an HDMI port.
3. Network Cables: Works with UTP/STP Cat5/5e/6 network cables compliant with the IEEE-568B standard.
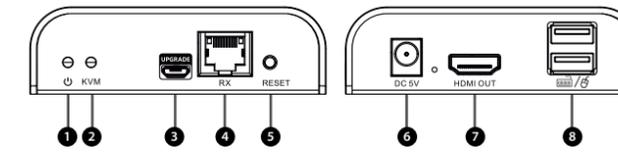
Panel Description

HDMI Extender TX (Sender)

#		
1	Power Indicator	The indicator will turn on when power up
2	KVM Indicator	1) Light flashing: The KVM data is transmitting; 2) Steady on: The computer and the USB port are connected
3	Micro USB Port	Used for firmware upgrade
4	RJ45 Signal Output	Connect to the newtork cable
5	Reset Button	Restart the device
6	Power Input	Connect with DaC5V/1A power adapter
7	HDMI Input	Connect to the source device
8	USB Port	Connect to the computer with USB cable

HDMI Extender RX (Receiver)

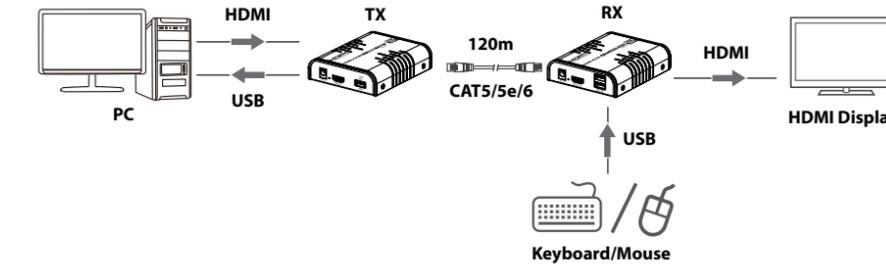| #		
1	Power Indicator	The indicator will turn on when power up
2	KVM Indicator	1) Light flashing: The KVM data is transmitting; 2) Steady on: The computer and the USB port are connected
3	Micro USB Port	Used for firmware upgrade
4	RJ45 Signal Output	Connect to the newtork cable
5	Reset Button	Restart the device
6	Power Input	Connect with DaC5V/1A power adapter
7	HDMI Input	Connect to HDMI display device
8	USB Port	Connect to keyboard and mouse

Installation Procedures

1. How to Make a Cat5e/6 Network Cable
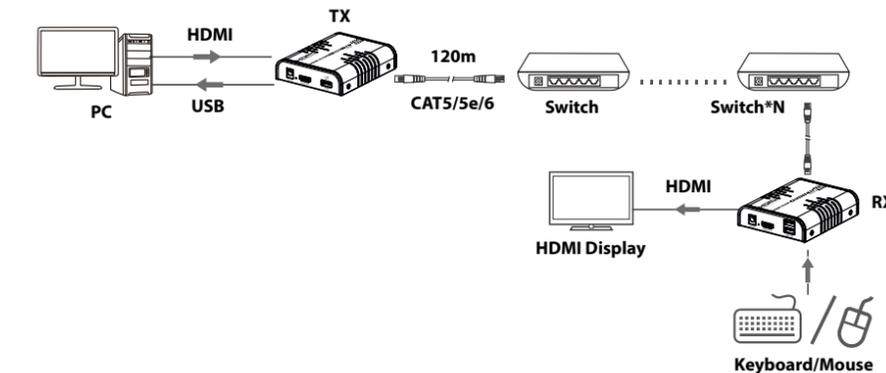
Follow the IEEE-568B wiring standard:

1. Orange/White
2. Orange
3. Green/White
4. Blue
5. Blue/White
6. Green
7. Brown/White
8. Brown

2. Connections

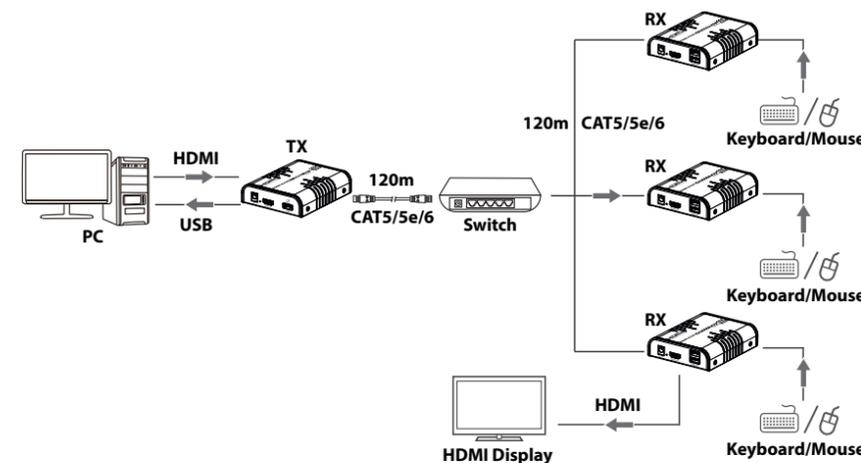**2.1 Point-to-Point Connection:** Supports transmission distances of up to 120 meters using a single CAT6 cable.

2.2 LAN Switch Cascade Connection: Achieve unlimited extension by utilizing a LAN switch or router.

2.3 One-to-Many Connection: Utilize a network router or switch to connect one sender to multiple receivers, enabling both extender and splitter functionality.

Note: It is recommended to use Gigabit Ethernet switches (1000Mbps) for LAN connections.

3. Connection Instructions

- **HDMI Connection:** Connect the source device to the HDMI IN port on the sender using an HDMI cable. Then, connect the HDMI OUT port on the receiver to the display device using another HDMI cable.
- **Network Configuration:** For a one-to-one connection, use a network cable to link the RJ45 ports on the sender and receiver. For a one-to-many connection, utilize a gigabit switch as a bridge to connect the sender and multiple receivers via network cables.
- **KVM Functionality:** To use the KVM feature, connect the keyboard and mouse to the USB port on the receiver, and connect the computer to the USB port on the sender using the provided USB cable.
- **Power Supply:** Plug the power adapter into the devices to power them on and begin operation.

FAQ

TV displays "Waiting for connection…"
- Ensure the power supply for the TX (Sender) and any switches (if used) is properly connected.
- Check that all cables are securely plugged in.

TV displays "Please check the TX input signal."
- Verify that the TX (Sender) is receiving an HDMI signal.
- Try connecting the signal source directly to the display device to confirm output. If there is no output, check the source device or replace the HDMI cable and try again.

Display is not fluent or unstable.
- Confirm that the cable length between the TX, switches, and RX is within the recommended range, and ensure all connections are secure.
- Press the "Reset" button on the front panel of the TX/RX devices, then reset and reconnect.

Specifications

Item	Sender	Receiver
Video		
Input interface	1x HDMI	1x RJ45
Output interface	1x RJ45	1x HDMI
HDMI length	≤ 16ft (5m)	≤ 16ft (5m)
Maximum transfer rate	18Gbps	
Compatibility	HDMI 2.0	
	HDCP 1.4/HDCP 2.2	
Resolutions	4096x2160@24/30/50/60Hz, 3840x2160@24/30/50/60Hz, 1080P@24/25/30/50/60Hz, 720P@50/60Hz, 576P@60Hz, 480P@60Hz, 1920x1200, 1680x1050, 1600x900, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600	

Specifications

Transmission distance	CAT5 80m / CAT5E 100m / CAT6 120m	
Transmission latency	1080P: 80~110ms 4K@60Hz: 120~170ms	
Audio signal		
Input interface	1×HDMI	1×RJ45
Output interface	1×RJ45	1×HDMI
HDMI output	LPCM 2.0	
Power		
Power Supply	DC 5V/1A	DC 5V/1A
Power Consumption	TX ≤ 3.5W	RX ≤ 2.5W
Operating Environment		
Working temperature	- 20℃~60℃	
Storage temperature	- 30℃~70℃	
Humidity	0~90%RH (no condensation）	
Physical Properties		
Housing	Aluminium(Top cover); Iron(Bottom cover)	
Weight	240g	243g
Color	Black	
Dimensions	109.6(L)x89.5(w)x26.3(H)mm*2pcs	
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	

Contact Information

Disclaimer