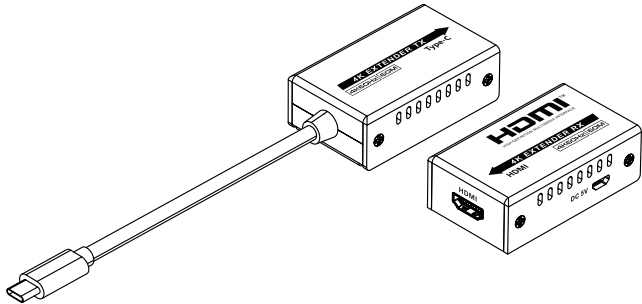


TrueReach TR7 4K@120Hz USB-C HDMI Extender over Ethernet Cable



User Manual
Y10G007-B2



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Important Safety Notice

- **Electrical Safety:** Always ensure that all connected devices are properly grounded to avoid the risk of electric shock.
- **Heat Exposure:** Keep this device away from radiators, heat registers, and direct sunlight to prevent overheating.
- **Placement Stability:** Place the device on a stable, level surface. Positioning it on an uneven or unstable surface may cause it to fall, potentially leading to damage or malfunction.
- **Water Protection:** Avoid exposing the device to rain or placing it near water sources. Contact with liquids can result in malfunctions, fire hazards, or electric shock.
- **Power Supply Requirements:** When using a third-party power supply, ensure its specifications align with the product's requirements to maintain optimal performance and safety.
- **Equipment Protection:** Ensure the transmitter and receiver are not interchanged during installation.
- **Environment:** Install the devices in a dry, well-ventilated environment.

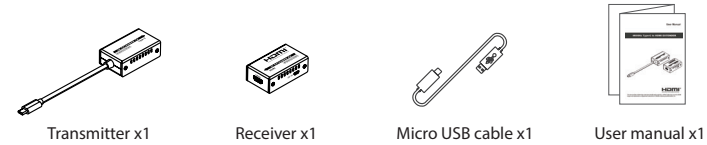
Introduction

The TrueReach TR7 delivers zero-latency transmission of UHD audio and video signals over CAT6/6A/7 network cables. It supports 4K@60Hz video transmission up to 196ft (60m) and 4K@120Hz up to 82ft (25m), ensuring crystal-clear performance over long distances. Designed for versatility, this kit is perfect for applications such as education, training, conferences, and more, providing seamless connectivity and exceptional reliability.

Features

- Zero-latency transmission for seamless audio and video performance.
- Supports resolutions up to 4K@120Hz and is backward compatible with lower resolutions.
- Compatible with Cat6/6A/7 network cables:
- Transmission distance: 196ft (60m) for 4K@60Hz.
- 82ft (25m) for 4K@100/120Hz.
- HDR10 support for enhanced color and brightness.
- EDID passthrough with self-adaptive resolution display.
- Type-C input and HDMI output supported.
- Power-efficient: The transmitter draws power directly from the source device via the Type-C port.
- Compact design with plug-and-play functionality for easy installation.

Package Contents

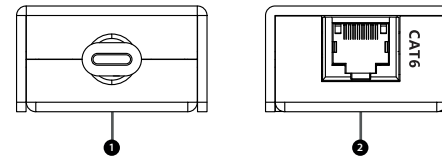


Installation Requirements

1. **Type-C source devices:** Compatible with smartphones, tablets, PCs, and other devices equipped with a Type-C port.
2. **HDMI display devices:** Supports TVs, projectors, LED screens, and other displays with an HDMI port.
3. **UTP/STP CAT6/6A/7 cables:** Must comply with the IEEE-568B standard.

Panel Description

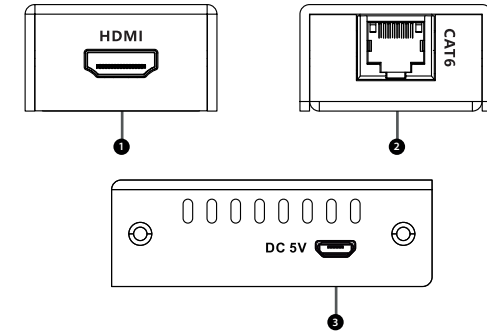
1. Transmitter



- | | | |
|---|---------------------|--------------------------------|
| 1 | Type-C Signal Input | Connect with the source device |
| 2 | RJ45 Signal Output | Connect with CAT6/6A/7 network |

Panel Description

2. Receiver



- | | | |
|---|--------------------|---|
| 1 | HDMI Signal Output | Connect with the display device |
| 2 | RJ45 Signal Input | Connect with CAT6/6A/7 network |
| 3 | Power Input | Connect the Micro USB cable to the USB port. If the transmission is unstable, connect the Micro USB cable to a DC5V power adapter for stable performance. |

Installation Procedures

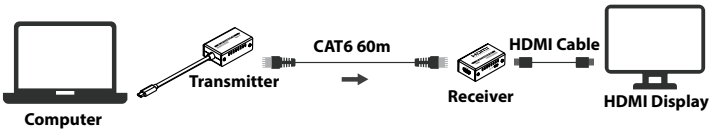
1. How to Make a Cat5e/6 Network Cable

Follow the IEEE-568B wiring standard:

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

Installation Procedures

Connection Diagram



1. Connect the signal source to the transmitter through the Type-C port and the display to the receiver through the HDMI port.
2. Use a CAT6/6A/7 network cable to connect the transmitter and receiver.
3. Power the receiver using the Micro USB cable. The product is now ready for use.

FAQ

No image is displayed when the signal source is a smartphone?

- If the output mode of the signal source is Phone Mode or Screen Mirror Mode and the display supports 4K@100/120Hz, ensure the network cable length is 82ft (25m) or less.
- If the network cable exceeds 82ft (25m), set the signal source output mode to Desktop Mode or Samsung DeX.

How do I fix a black screen or screen flickering?

- Replace the network cable with a higher-quality one or reduce its length.
- If the issue persists, lower the output resolution of the signal source.

There is no output on the screen when all connections are correct?

- Verify that the network cable meets the requirements and complies with the IEEE-568B standard.
- Ensure the RX power cable is firmly connected.
- Check that the signal source is providing an output signal.
- Confirm that the display device is set to the correct input source.

Specification

Items		Specifications
Compatibility	Voltage	TX: Power by the signal source RX: DC 5V500mA
	Power consumption	TX < 3W, RX < 3W
HDMI performance	HDMI version	HDMI 2.0
	HDCP version	HDCP 2.2, HDCP 1.4
	Max transmission rate	18Gbps
	Resolution	1280x720, 1280x960, 1366x768, 1440x900, 1680x1050, 1920x1080, 1920x1200, 720p@50/60Hz, 1080i@50/60Hz, 1080p@24/25/30/50/60/120Hz, 2560x1440@50/60/120/144Hz, 3840x2160@24/25/30/50/60/100/120Hz, 4096x2160@24/25/30/50/60Hz
	TMDS signal	5Vp-p (TTL)
	DDC signal	0.7-1.2Vp-p (TMDS)
Transmission distance	CAT6/6A/7	4K@60Hz≤60m 2560x1440@120/144Hz ≤30m 4K@100/120Hz≤25m
Audio formats	PCM, DTS, Dolby	
HDR10	Supported	
HDMI 3D	Supported	
EDID passthrough	Supported, auto downscaling	
Operating environment	Working temperature	-20~55℃
	Storage temperature	-30~60℃
	Humidity	0~90%RH (no condensation)
Physical properties	Material	ABS
	Color	Black
	Dimension	71.5 (L) x 26.0 (W) x 15.0 (H) mm
Physical properties	Dimension	67 (L) x 40 (W) x 23 (H) mm
	Weight	TX: 85g RX: 72g
ESD protection	1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV) Implementation of the standard: IEC61000-4-2	

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