



RKV565P-US

4K60HZ HDMI Wall plated Extender 70 meters

This is an HDMI™ wall plate extender kit and it can realize zero-latency transmission .The transmission distance is up to 70meter over CAT6/6A/7 network cable for 4K@60Hz UHD HDMI™ signal .

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Overview

This is a 4K@60 Hz HDR wall-plate HDMI extender kit designed to send high-quality video and audio over a single network cable, with zero or near-zero latency for applications like home theater, conference rooms, and digital signage. It integrates into a standard wall plate, so the installation looks clean and professional while keeping all electronics hidden in the wall or rack.

Core specifications

This extender transmits an HDMI signal at up to 4K resolution (3840 × 2160) at 60 Hz with HDR support, typically using HDMI 2.0/2.0b and HDCP 2.2 compliance to handle modern sources such as Blu-ray players and streaming devices. The signal is carried over a single Cat6/6A/7 Ethernet cable and can usually reach 40–70 meters at 4K@60, and longer distances at 1080p, depending on the specific model and cable quality. Many models support RGB or YCbCr 4:4:4 color space and up to 18 Gbps bandwidth, ensuring full-quality UHD video without visible compression artifacts.



Control and installation features

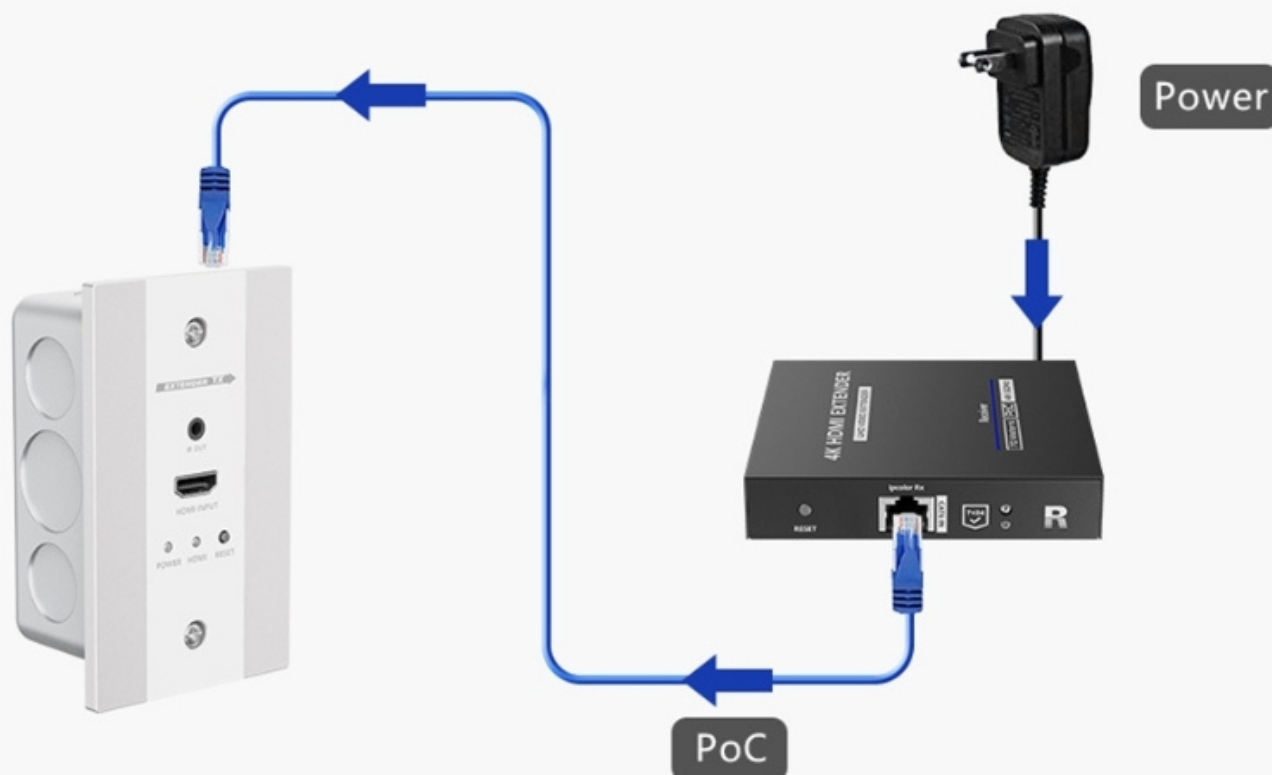
Typical kits include bi-directional IR for remote control extension, allowing a TV remote or source remote to work from either end of the link through small IR emitter and receiver cables. Some products also provide RS-232 pass-through for integration with professional control systems, plus automatic input switching when both HDMI and USB-C sources are present. The wall-plate form factor fits a standard US wall box, delivering a neat, flush-mounted look that is ideal for classrooms, meeting rooms, and living rooms.

Key features

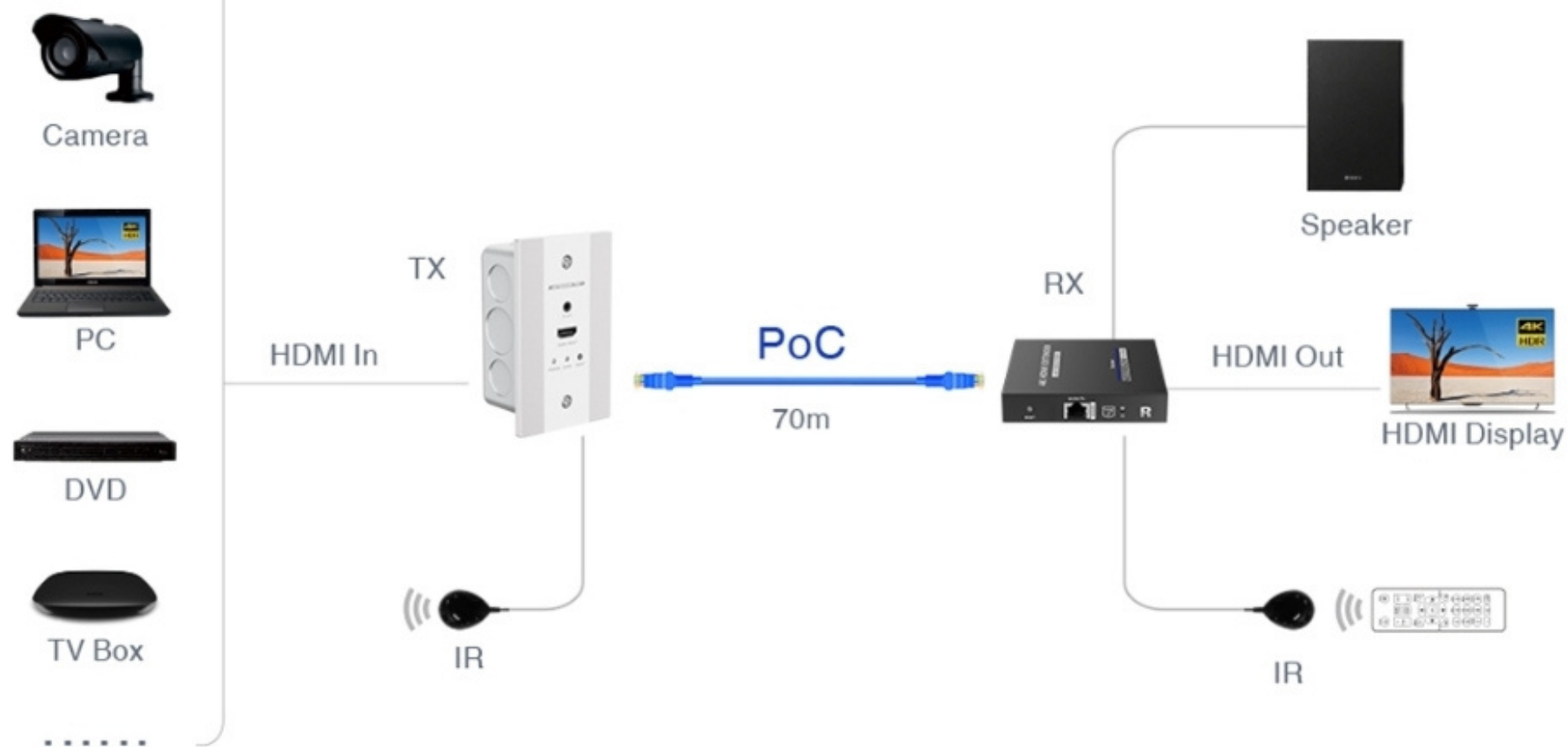
- 4K@60 Hz (up to 18 Gbps) video with HDR support over a single Cat6/6A/7 cable.
- Zero or near-zero latency transmission suitable for presentations and gaming.
- HDMI input on the wall plate, with many models adding USB-C input and charging.
- Transmission distance typically up to about 40–70 m at 4K and up to ~70 m or more at 1080p.
- PoC (Power over Cable) so only one power adapter is required.
- Supports multi-channel digital audio (Dolby, DTS, LPCM) and often 3.5 mm analog audio output.
- Bi-directional IR, CEC, and often RS-232 for extended control.
- Decora-style wall-plate design for clean in-wall installation in residential and commercial spaces.

Power over cable (PoC)

The Transmitter can be powered by the Receiver over the Ethernet cable directly.

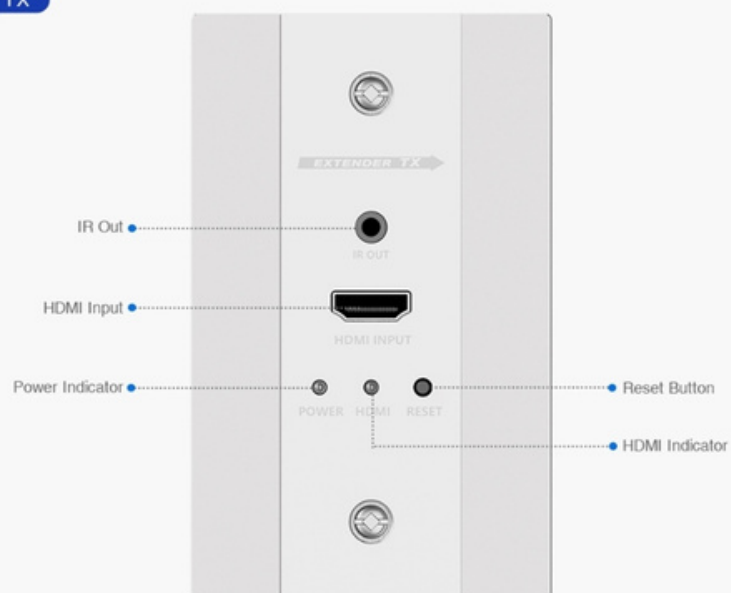


HDMI Source

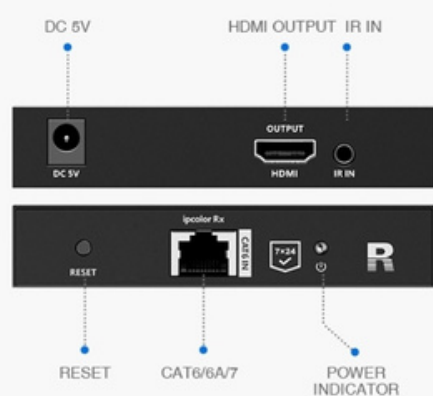


I/O Ports

TX



RX



Specifications

- Product type: 4K@60 Hz HDR HDMI wall-plate extender kit for sending HDMI over a single Cat6/6A/7 network cable.
- HDMI version compatibility: HDMI 2.0, supports deep color, 4K, HDR, and YUV 4:4:4 color sampling.
- HDCP compliance: Compatible with HDCP 2.2 and HDCP 1.4 content protection.
- Maximum data rate: 18 Gbps video transfer rate.
- Maximum transmission bandwidth: 600 MHz.
- Supported video resolutions: 480i/480p, 576i/576p, 720p 50/60 Hz, 1080i 50/60 Hz, 1080p 50/60 Hz, and up to 3840×2160 4K at 60 Hz.
- Transmission distance: Up to 70 m over Cat6/6A/7 cable for 4K@60 Hz HDMI signal.
- Latency: Zero-latency transmission design.
- Audio formats: Supports LPCM, DTS-HD, DTS-Audio, Dolby Digital 5.1 channel, and Dolby Atmos audio.
- EDID: EDID passthrough supported to maintain correct display capabilities.
- IR control: IR pass-back function with receiving range up to 5 m and IR frequency 20 kHz–60 kHz.
- Power method: PoC (Power over Cable), transmitter powered by the receiver; external power supply at RX side.
- Protection: ESD protection with contact discharge level ± 4 kV.
- Transmitter dimensions: Approximately 70.0 (L) × 114.0 (W) × 51.0 (H) mm, color silver.
- Receiver dimensions: Approximately 105.5 (L) × 102.5 (W) × 20.0 (H) mm, color black.

