



4K60HZ POINT TO POINT HDMI EXTENDER 70 METERS

MODEL NUMBER : RKV565P



The 4K@60Hz HDR 70M HDMI Extender with POC is a professional-grade device engineered to transmit ultra-high-definition HDMI signals over long distances using a single CAT6/6A/7 cable. It supports resolutions up to 4K at 60Hz, ensuring crystal-clear visuals with HDR support for enhanced color and contrast. The extender makes it possible to connect source devices and displays that are up to 70 meters apart while maintaining uncompromised picture and sound quality.

With compatibility for modern HDMI standards (HDMI 2.0, HDCP 2.2/1.4), it delivers the latest video and audio features, including support for HDR10, HLG, and Dolby Vision. The system efficiently handles uncompressed and high-definition audio formats such as LPCM 7.1, Dolby TrueHD, and DTS-HD Master Audio, making it suitable for home theater setups, conference rooms, and educational environments. It also features Power Over Cable (POC) technology, meaning only one side of the extender needs an external power supply, greatly simplifying installation and reducing clutter.

HDMI Transmission Capabilities

The 4K@60Hz HDR 70M HDMI Extender with POC is designed to deliver high-quality video and audio signals over long distances via a single network cable. It supports HDMI lengths up to 40 meters and extends up to 70 meters using CAT6/6A/7 cables, making it ideal for installations where source and display devices are far apart. Capable of handling 4K resolutions at 60Hz with HDR, this extender ensures vibrant, detailed images without compromising quality over distance.

Video Quality and Standards

This device supports various HDMI specifications including HDMI 2.0, HDCP 2.2/1.4 compliance, and resolutions up to 3840x2160p at 60Hz and 4096x2160p. High dynamic range (HDR10, HLG, Dolby Vision) and chroma subsampling options (4:2:0, 4:2:2, 4:4:4) guarantee lifelike color reproduction, deep contrasts, and compatibility with the latest home theater and broadcasting standards. The inclusion of HDMI Deep Color up to 36 Bit further enhances color output fidelity.

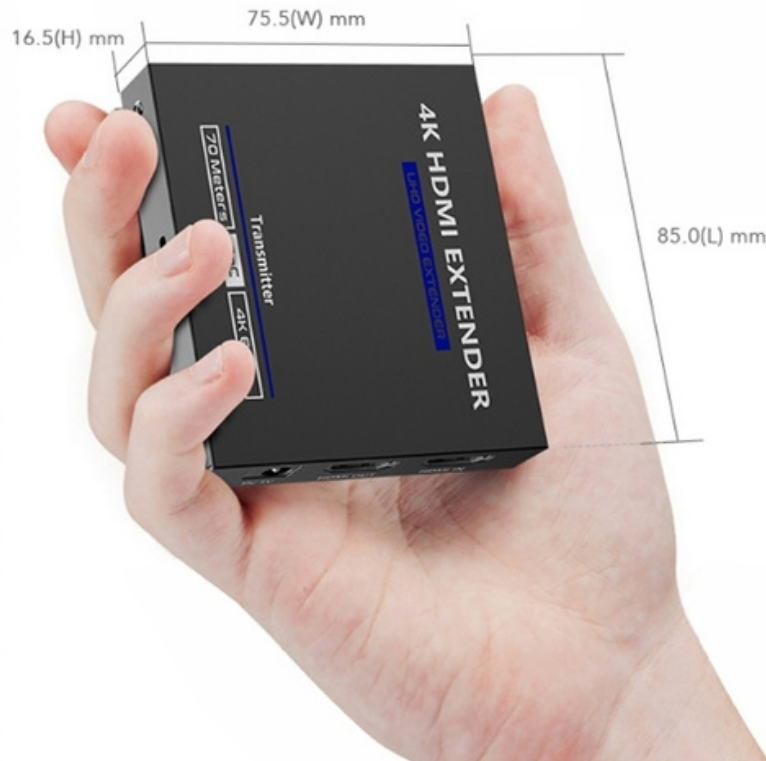
Audio Transmission Features

Audio performance is equally robust, supporting uncompressed LPCM 7.1, Dolby TrueHD, and DTS-HD Master Audio for an immersive sound experience. The device provides a digital S/PDIF audio output, ensuring clear and synchronized audio delivery even with long-distance extensions. It also features bidirectional IR for remote control signal transmission and CEC pass-through for unified device control, simplifying integration in complex setups.



Ultra-slim Design

Thinner and lighter.

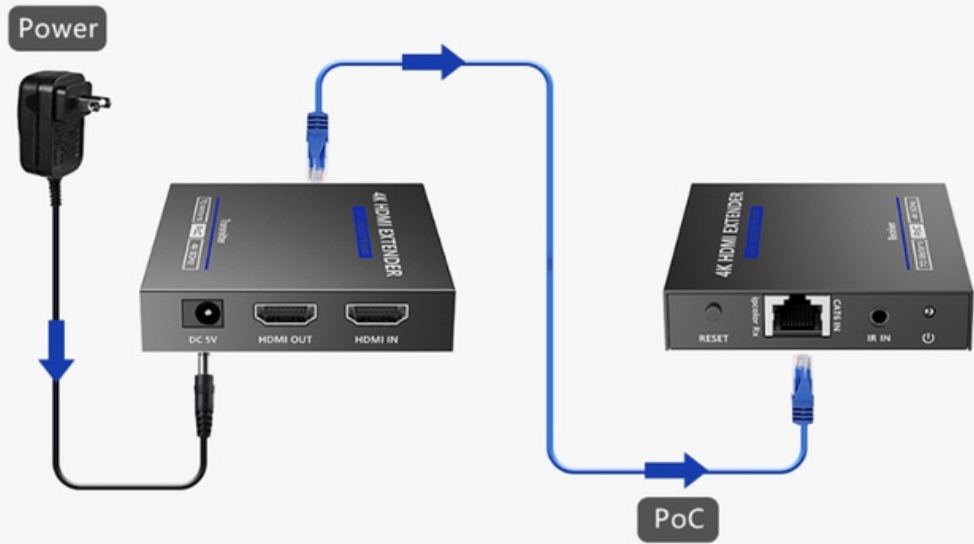


Connectivity and Compatibility

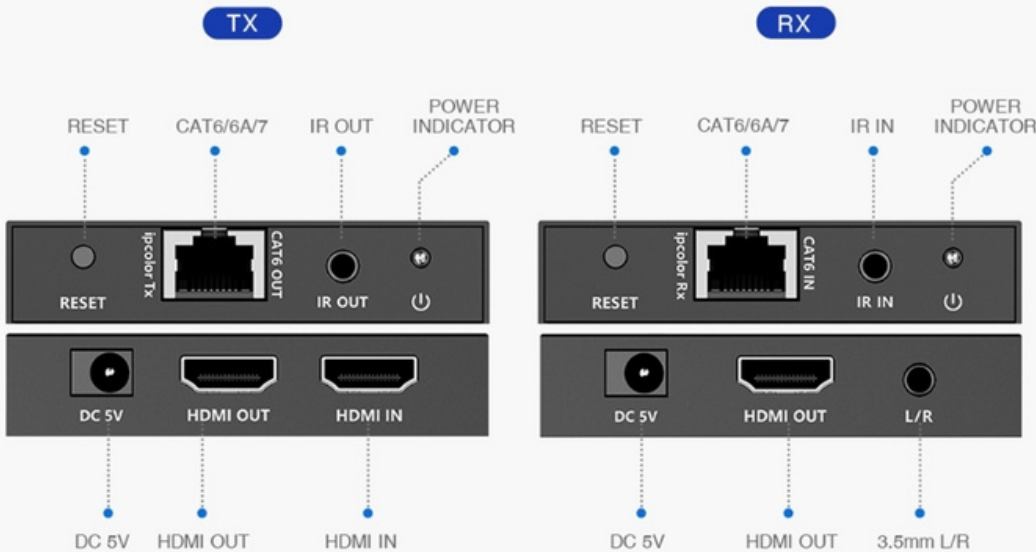
Connectivity options are extensive, with HDMI Type-A ports for input and output, as well as dedicated S/PDIF and IR interfaces. This extender works seamlessly with most Blu-ray players, set-top boxes, projectors, gaming consoles, and AV receivers. Its wide compatibility and compliance with major standards ensure broad installation flexibility, whether in commercial, residential, or educational environments.

Support PoC-Power over Network Cable

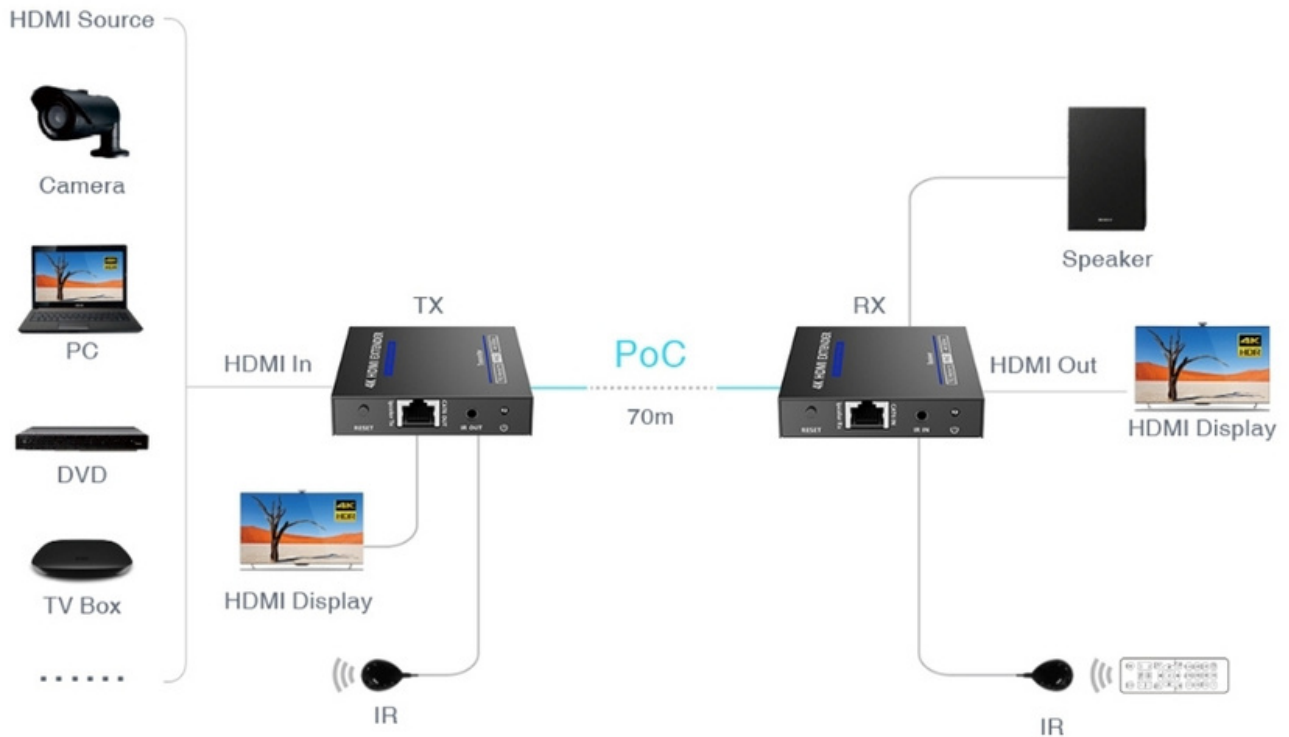
Only TX Power Supply is Needed.



I/O Ports



Connection



Power and Environmental Specs

Power is supplied via a single 12V DC adapter, utilizing Power Over Cable (POC) technology to minimize wiring and simplify installation—only one unit needs to be powered. The device operates within a voltage range of 100–240 VAC and a temperature range of 0–60°C, supporting reliable performance in diverse conditions. Power consumption is low, making it efficient for continuous use.

Specifications

HDMI Length: 40m

Network Cable Length: 70m

Maximum Data Rate: 18Gbps

Maximum Transmission Bandwidth: 600MHz

EDID Management: Copy from display, auto, or manual

Compatibility: HDMI 2.0, HDMI 1.4, HDCP 2.2/1.4

Supported Resolutions: 3840×2160p60/50/30/25/24, 1080p60/50/30/25/24, 720p60, 576p, 480p, VGA/HD/SD

Transmission Distance: 70m over CAT6/6A/7, 40m over CAT5e

Audio Formats: LPCM 7.1, Dolby TrueHD, DTS-HD Master Audio, S/PDIF Digital Audio Output

Input Interface: HDMI Type-A 19-pin Female

Output Interface: HDMI Type-A 19-pin Female, S/PDIF Audio, IR IN/OUT

Vertical Frequency: 50Hz/60Hz

Power Supply: DC 12V/1A

Power Consumption: TX<4W, RX<4W

Working Temperature: 0°C ~ 60°C

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