



4K60HZ POINT TO POINT HDMI EXTENDER 90 METERS

MODEL NUMBER : RKV676A



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The 4K@60Hz HDMI™ Extender 90M is a high-performance solution designed to transmit HDMI signals over extended distances using CAT6/6A/7 network cables. It supports zero latency and allows 4K@60Hz video signals to be transmitted up to 90 meters and 1080p@60Hz signals up to 120 meters. The device complies with HDMI2.0 and HDMI2.2 standards, supporting advanced features such as HDR10, EDD passthrough, and automatic audio channeling. Its robust construction ensures reliable operation in demanding environments, making it suitable for home theater setups, professional AV applications, and large venue installations .



Transmission and Signal Quality

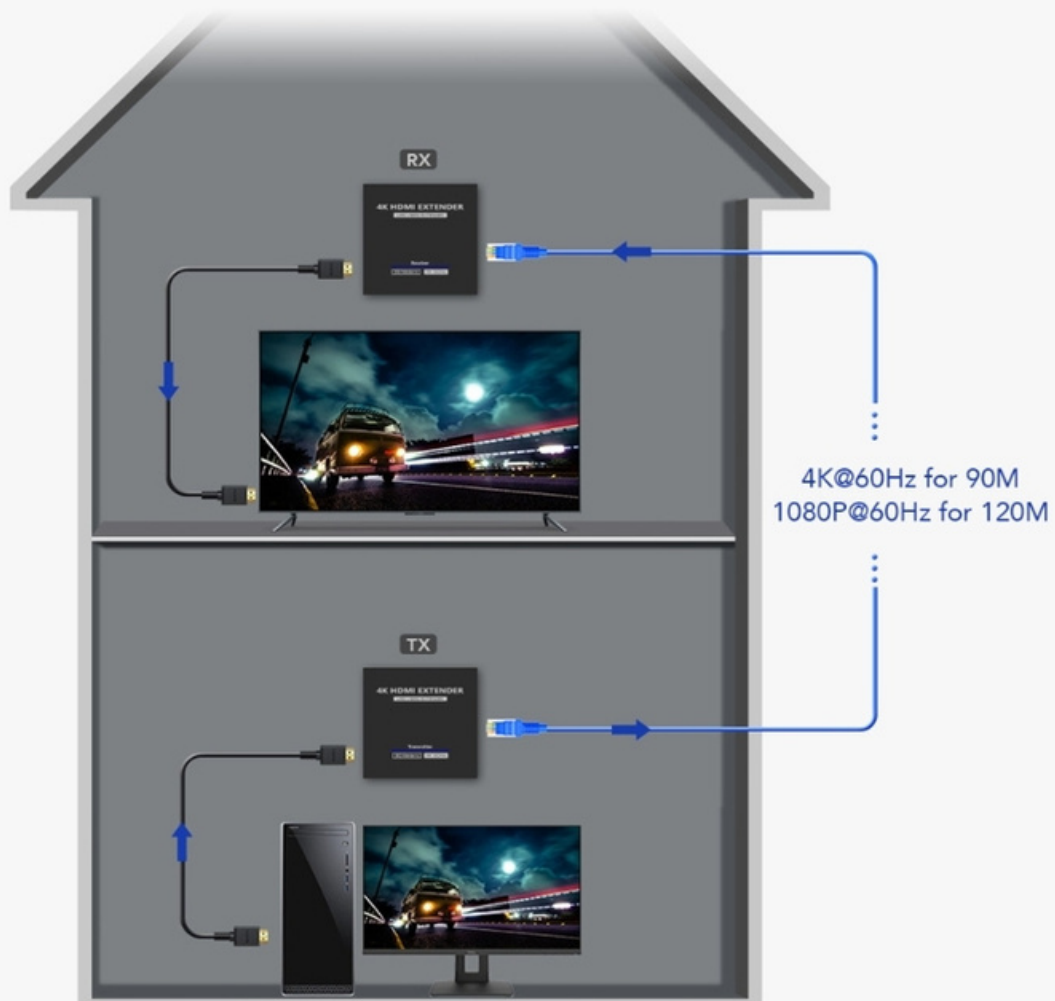
This HDMI extender leverages CAT6/6A/7 cables to maintain high signal integrity across long distances. With support for resolutions up to 4K@60Hz (3840×2160), the product ensures crisp and clear video without loss or degradation. Audio support includes LPCM/HDTS/DTS audio and Dolby Digital 5.1CH, meeting the needs of advanced home or commercial AV systems. Input and output signals are managed with precise TMDS and DDC protocols, guaranteeing seamless compatibility with modern HDMI devices.

Technical Specifications

The device operates on DC5V/1A power, with transmitter and receiver consuming just 4W each. It accommodates HDMI cables up to 8 meters (AWG24), extending flexibility for installation across various layouts. Its protection features include contact and air discharge levels compliant with IEC61000-4-2 standards, ensuring safe operation against electrical surges and environmental interference. The iron build and compact dimensions (105.5L × 102.5W × 20H mm) provide durability for long-term use .

Long Distance Transmission

Extends resolution 4K@60Hz for 90M, and resolution 1080P@60Hz for 120M



Future Need and Application Scenarios

Add a subheading

As AV technology advances and the need for high-resolution, low-latency transmission grows, the 4K@60Hz HDMI™ Extender 90M positions itself as a crucial device for future-proof setups. Its broad compatibility and reliable performance make it ideal for expanding home theaters, digital signage networks, conference rooms, and remote display installations. Investing in devices that support the latest standards ensures readiness for emerging display and content technologies, making this HDMI extender valuable for long-term AV infrastructure planning .

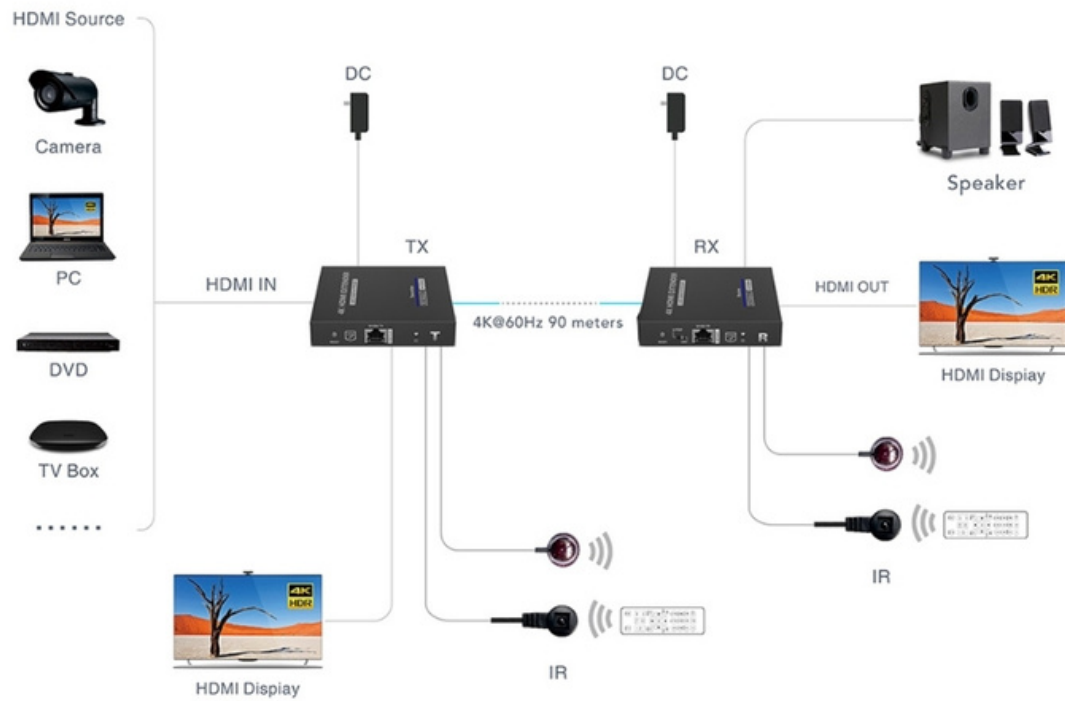
Supported Formats and Compliance

Compatibility with HDMI2.0 and HDMI2.2 standards means the extender works seamlessly with most modern AV equipment, gaming consoles, Blu-ray players, and streaming devices. Supported video formats include standard resolutions from 576p up to 4K@60Hz, with full support for HDR video content. Audio features encompass both standard and high-definition formats, addressing the requirements of audiophiles and professional sound setups .

Installation and Environmental Compatibility

Engineered for versatile deployment, the extender can operate in temperatures ranging from -20°C to 60°C and be stored in conditions from -30°C to 70°C. It tolerates 0–90% relative humidity (no condensation), making it suitable for diverse locations, including office, industrial, and residential areas. The iron casing and well-designed ventilation ensure the product remains stable under continuous usage .

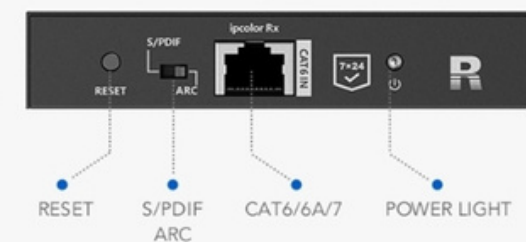
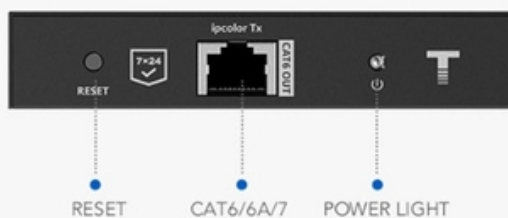
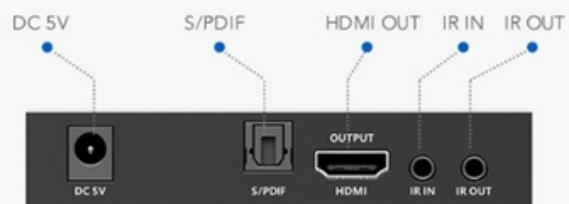
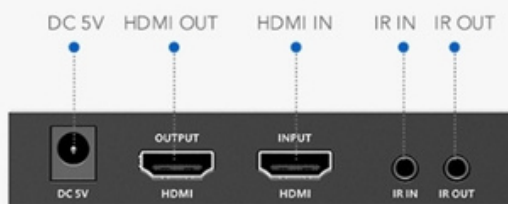
Connection



I/O Ports

TX

RX



Specifications Table

Parameter	Value
Power Supply	DC5V/1A
Power Consumption	TX:4W, RX:4W
HDMI Compliance	HDMI2.0, HDMI2.2
HDMI Resolution	576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
Supports Audio Formats	LPCM / DTS-HD / DTS-Audio / Dolby Digital 5.1CH / Dolby Atmos
Input/Output TMDS Signal	0.7~1.2Vp-p (TMDS)
Input/Output DDC Signal	5Vp-p (TTL)
Input Cable Length	≤8m (AWG24)
Output Cable Length	≤8m (AWG24)
CAT6/7 Transmission Distance	4K@60Hz 90m
CAT6/7 Transmission Distance	1080p@60Hz 120m
Protection Level	1a Contact discharge level 3, 1b Air discharge level 3 (IEC61000-4-2)
Working Temperature	-20~60°C
Storage Temperature	-30~70°C
Humidity	0~90% RH (no condensation)
Dimension	105.5(L) x 102.5(W) x 20(H) mm
Material	Iron
Color	Black
Weight	TX: 243g, RX: 243g