4K60Hz HDMI Extender over Cat6 — 70M

4K@60Hz HDR | Zero Latency | IR Bi-directional | ARC S/PDIF | 3-Year Warranty

MPN: EXT-4KHD70M

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Important: Use Cat6/6a STP (shielded twisted pair) with proper grounding for best transmission results. Do not bundle Cat cables with power cables.

Product Overview

The KanexPro **EXT-4KHD70M** HDMI extender transmits and receives 4K@60Hz HDR HDMI signals over a single Cat6/6a/7 cable up to 70 meters (230 ft.) with zero latency. The kit includes a transmitter (TX) and receiver (RX) unit with automatic EDID management and HDCP 2.2 support for reliable handshake with all display types.

Key Features

- Zero latency 4K@60Hz HDR (YUV 4:4:4) over single Cat6/6a/7 up to 70M
- HDCP 2.2 and EDID support for reliable handshake with all display types
- Bi-directional IR pass-through 20–60KHz — IR TX/RX blasters included
- ARC S/PDIF digital audio de-embedded output on receiver
- Simple plug-and-play setup — zero configuration required
- Compact aluminum chassis: 106×99×26.2mm — 210g TX/RX
- Power: DC 5V–12V, less than 4W per unit
- 3-year KanexPro parts and labor warranty

Specifications

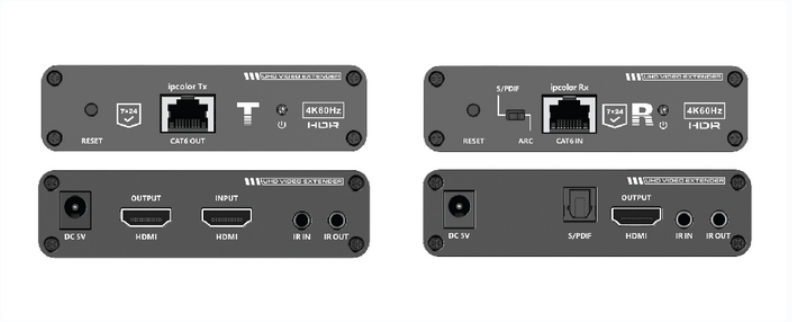
Specification	Value
Signal	HDMI 2.0 | HDCP 2.2
Max Resolution	4K×2K @ 60Hz (4:4:4 HDR)
Supported Resolutions	480i/p, 576i/p, 720p, 1080i/p, 3840×2160@24/25/30/50/60Hz, 4096×2160@24/25Hz
Transmission Cable	Single Cat6 / Cat6a / Cat7 (STP recommended)
Max Distance	70M (230 ft.) at 4K@60Hz
IR	Bi-directional 20–60KHz (TX/RX blasters included)
Audio Output	ARC S/PDIF de-embedded on RX
Power Supply	DC 5V–12V | TX <4W | RX <4W
Dimensions	106 × 99 × 26.2mm (TX & RX)
Material	Aluminum
Weight	TX 210g | RX 210g
Operating Temp	-20°C to 60°C
Storage Temp	-30°C to 70°C
Humidity	0–90% RH
Warranty	3-year parts and labor

Package Contents

1× TX Unit | 1× RX Unit | 2× DC Power Adapters | IR TX/RX Blaster Kit | 1× User Guide

Safety Notes: Do not expose units to moisture. Ensure adequate ventilation around TX and RX units. Use only the included power adapters. Do not exceed the maximum cable distance.

Panel Descriptions



TRANSMITTER (TX) PANEL

NO.	NAME	DESCRIPTION
1	HDMI IN	HDMI 2.0 Type A input. Connect to HDMI source device.
2	RJ45 OUT	Cat6/6a/7 output to receiver. Use STP cable with proper grounding.
3	IR OUT	3.5mm IR blaster output. Point blaster at source device.
4	IR IN	3.5mm IR sensor input. Receives IR commands from user at TX end.
5	DC IN	DC 5V–12V power input. Connect included power adapter.

RECEIVER (RX) PANEL

NO.	NAME	DESCRIPTION
1	RJ45 IN	Cat6/6a/7 input from transmitter.
2	HDMI OUT	HDMI 2.0 Type A output. Connect to display.
3	S/PDIF OUT	Coaxial S/PDIF audio output. De-embedded ARC audio.
4	IR OUT	3.5mm IR blaster. Point at display device.
5	IR IN	3.5mm IR sensor. Receives commands at RX end.
6	DC IN	DC 5V–12V power input.

Application Example

HDMI Source PC / Blu-ray / STB → **HDMI** → **TX Unit** EXT-4KHD70M → **Cat6 (70M)** → **RX Unit** EXT-4KHD70M → **HDMI** → **4K Display** Monitor / Projector

How it works: Connect the HDMI source to TX HDMI IN. Run a single Cat6/6a/7 cable from TX RJ45 OUT to RX RJ45 IN — up to 70M. Connect the display to RX HDMI OUT. Power both units. The extender auto-negotiates EDID and HDCP — no configuration needed.
IR: Connect the included IR blasters to TX IR OUT and RX IR OUT to enable bi-directional remote control between source and display ends.
ARC Audio: The S/PDIF output on the RX unit carries de-embedded ARC audio for connection to an amplifier or soundbar.

Troubleshooting

Q: No video on display
A: Verify Cat6 cable is securely connected at both ends. Ensure cable does not exceed 70M. Confirm Cat6a or Cat7 STP is used. Try a different HDMI cable between source and TX. Power-cycle both TX and RX units.

Q: IR control not working
A: Confirm IR blasters are pointing at the correct device. Check that IR sensors have clear line of sight. Verify 3.5mm connectors are fully seated in IR IN/OUT jacks.

Q: ARC audio missing
A: Check the S/PDIF coaxial connection from RX to amplifier. Confirm ARC is enabled in the TV/display settings. Verify amplifier input is set to coaxial S/PDIF.