



## HDMI Extender over CAT5/6 — 50M (1080p)

1080p@60Hz | HDMI Loop-Out | Bi-directional IR | HDCP 1.4 | FCC/CE/UL | Plug and Play

MPN: HDEXT50M

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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 **HDEXT50M** extends full HD 1080p@60Hz HDMI signals over Cat5/5e cable up to 50M (164 ft.). The transmitter includes a local HDMI output for confidence monitoring. A built-in EQ adjustment button on the receiver compensates for signal equalization over longer runs. Bi-directional IR control and built-in EDID management are included. FCC, CE, and UL certified.

## Key Features

- ❏ Extends HDMI 1080p@60Hz over Cat5/5e up to 50M (164 ft.)
- ❏ Local HDMI loop-out on TX for confidence monitor or secondary display
- ❏ Built-in EDID management for reliable HDMI handshake
- ❏ Built-in EQ adjustment button on receiver for signal equalization
- ❏ Bi-directional wideband IR control — TX/RX blasters and sensors included
- ❏ HDCP 1.4 compliant
- ❏ FCC, CE, and UL certified — suitable for commercial installations
- ❏ Plug and Play — no configuration required
- ❏ Includes IR kits and Micro USB power supplies



## Specifications

Specification	Value
Signal	HDMI   HDCP 1.4
Max Resolution	1080p @ 60Hz (1920×1080)
Supported Resolutions	480i, 576i, 480p, 576p, 720p, 1080i, 1080p
HDMI Loop-Out	Yes — TX unit
Transmission Cable	Cat5 / Cat5e
Max Distance	50M (164 ft.)
IR	Bi-directional wideband (kits included)
EDID	Built-in management
EQ	Built-in EQ button on receiver
Power Supply	5V DC @ 1A via Micro USB (included)
Dimensions	66 × 66 × 13mm (TX & RX)
Weight	TX 36g   RX 38g
Certifications	FCC, CE, UL (converter + power supply)
Operating Temp	-10°C to 55°C
Operating Humidity	10% to 85% RH (no condensation)
Warranty	Backed by KanexPro warranty

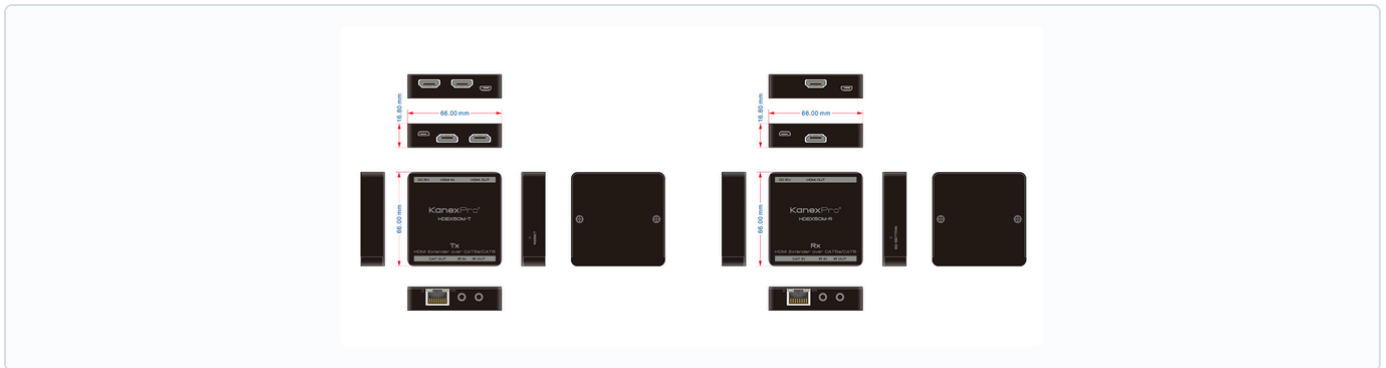
## Package Contents

1× TX Unit | 1× RX Unit | 2× Micro USB Power Supplies | 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



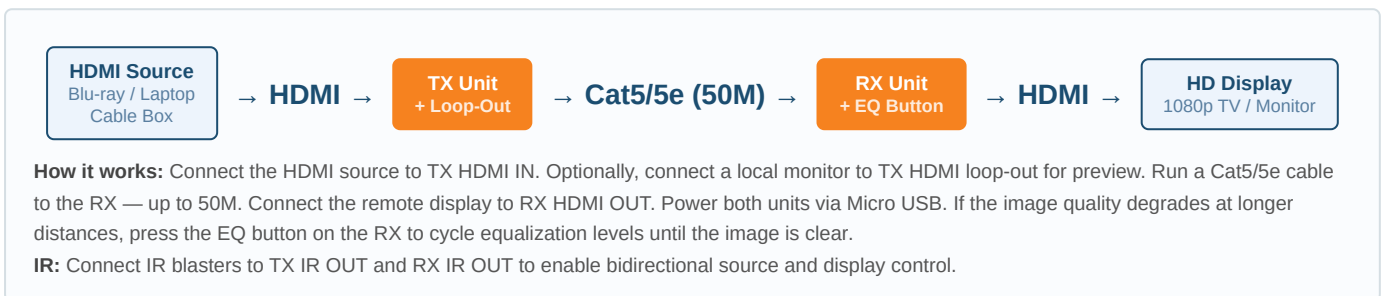
### TRANSMITTER (TX) PANEL

NO.	NAME	DESCRIPTION
1	HDMI IN	HDMI input. Connect to source device (Blu-ray, laptop, cable box).
2	HDMI OUT (Loop)	Local HDMI loop-out for confidence monitor or preview display.
3	Cat5/5e OUT	Output to receiver via Cat5 cable — up to 50M.
4	IR OUT	3.5mm IR blaster output.
5	IR IN	3.5mm IR sensor input.
6	Micro USB	Power input — 5V DC via included Micro USB supply.

### RECEIVER (RX) PANEL

NO.	NAME	DESCRIPTION
1	Cat5/5e IN	Input from transmitter.
2	HDMI OUT	HDMI output to remote display (1080p).
3	EQ Button	Signal equalization adjustment. Press to cycle EQ levels for optimal image quality at extended cable lengths.
4	IR OUT	3.5mm IR blaster output.
5	IR IN	3.5mm IR sensor input.
6	Micro USB	Power input — 5V DC via included Micro USB supply.

## Application Example



## Troubleshooting

### Q: Image quality degraded at long distance

A: Press the EQ button on the RX unit to cycle through equalization levels. Try each level until the image is clear. Ensure Cat5e (not Cat5) is used for runs near 50M.

### Q: No video on remote display

A: Confirm HDMI cables at source and display. Verify Cat5/5e is not damaged and connectors are seated. Power-cycle both TX and RX. Check that HDMI loop-out on TX is not the only HDMI cable connected to the source.

### Q: IR not working

A: Confirm blasters are aimed at the device IR window. Verify 3.5mm plugs are fully inserted. Check that both TX and RX units are powered.



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