HDMI Extender over Cat5e/6 — 70M (1080p) / 40M (4K@30Hz)

4K@30Hz | HDMI Loop-Out | EDID Copy | Dolby TrueHD | DTS-HD | 3-Year Warranty

MPN: EXT-HD50C

TABLE OF CONTENTS

Note: Use Cat5e/6 STP (shielded twisted pair) with proper grounding. Do not exceed maximum cable distances. Keep Cat cable away from power lines.

Product Overview

The **KanexPro EXT-HD50C** is a compact HDMI extender TX+RX kit that extends HD signals up to 70 meters (230 ft.) at 1080p or 40 meters at 4K@30Hz over a single Cat5e/6 cable. The transmitter features an HDMI loop-out for local monitoring or cascading, and a selectable EDID copy mode to ensure correct source resolution in all display configurations. Dolby TrueHD, DTS-HD Master Audio, and PCM 7.1 audio are passed through in full. Bi-directional IR control with included blaster kits is supported. Backed by KanexPro's 3-year warranty.

Key Features

- Extends HDMI up to 70M (230 ft.) at 1080p over Cat6 — 40M at 4K@30Hz
- HDMI loop-out on TX for local confidence monitor or cascaded extender
- EDID copy function — choose local (loop-out display) or remote (RX display) EDID
- 4K@30Hz support — Cat6: 40M / Cat5e: 35M; 1080p: Cat6 70M / Cat5e 60M
- Dolby TrueHD, DTS-HD Master Audio, PCM 7.1 audio support
- Bi-directional IR control — IR TX/RX blaster kits included
- HDMI 1.4 and HDCP 1.4 compliant — 10.2Gbps bandwidth
- Ultra-slim compact chassis: 79.5×69×16.5mm — 132g TX / 130g RX
- DC 5V/1A — powered from included adapters; no external PSU required
- 3-year KanexPro parts and labor warranty

Specifications

Specification	Value
HDMI / HDCP	HDMI 1.4 | HDCP 1.4
Bandwidth	10.2Gbps
Max Resolution	4K@30Hz (4:2:0) | 1080p@60Hz
HDMI Loop-Out	Yes — TX unit (cascade or confidence monitor)
EDID Copy	Local (loop-out display) or Remote (RX display) — selectable
Transmission Cable	Cat5e or Cat6 (STP recommended)
Max Distance — 1080p	Cat6: 70M (230 ft.) | Cat5e: 60M (197 ft.)
Max Distance — 4K@30Hz	Cat6: 40M (131 ft.) | Cat5e: 35M (115 ft.)
Audio	Dolby TrueHD | DTS-HD Master Audio | PCM 7.1
IR	Bi-directional (TX/RX blaster kits included)
Power	DC 5V/1A (adapters included)
Dimensions	79.5 × 69 × 16.5mm (TX & RX)
Weight	TX 132g | RX 130g
Operating Temp	0°C to 40°C
Storage Temp	-20°C to 70°C
Warranty	3-year parts and labor

Transmission Distance Reference

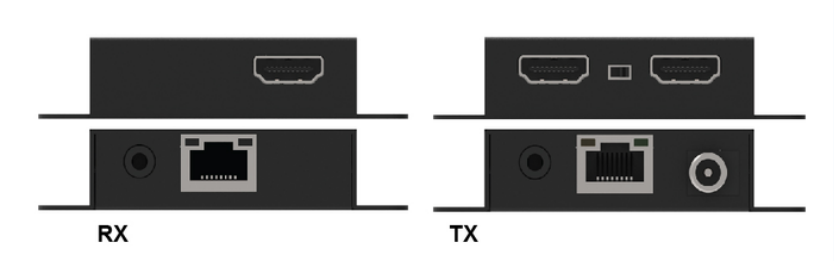
Cable	Resolution	Max Distance
Cat6	1080p@60Hz	70M (230 ft.)
Cat6	4K@30Hz	40M (131 ft.)
Cat5e	1080p@60Hz	60M (197 ft.)
Cat5e	4K@30Hz	35M (115 ft.)

Package Contents

1× TX Unit | 1× RX Unit | 2× DC 5V/1A Power Adapters | IR TX/RX Blaster Kit | 1× User Guide

Safety: Do not expose to moisture. Use only the included 5V/1A power adapters. Ensure adequate ventilation. Do not exceed maximum cable distances for reliable operation.

Panel Descriptions



TRANSMITTER (TX)

NO.	NAME	DESCRIPTION
1	HDMI IN	HDMI 1.4 input. Connect to source device.
2	HDMI LOOP OUT	HDMI loop-out for local monitor or cascading to a second extender. EDID can be read from this display.
3	RJ45 OUT	Cat5e/6 output to receiver — up to 70M (1080p/Cat6) or 40M (4K@30Hz/Cat6).
4	IR OUT	3.5mm IR blaster output — point at source device.
5	IR IN	3.5mm IR sensor input at TX location.
6	DC IN	DC 5V/1A power input.

RECEIVER (RX)

NO.	NAME	DESCRIPTION
1	RJ45 IN	Cat5e/6 input from transmitter.
2	HDMI OUT	HDMI output to remote display — up to 4K@30Hz or 1080p@60Hz.
3	IR OUT	3.5mm IR blaster — point at display device.
4	IR IN	3.5mm IR sensor at RX location.
5	DC IN	DC 5V/1A power input.

Application Example

HDMI Source → HDMI → TX Unit (↓ Loop-Out → Local Monitor) → Cat5e/6 → RX Unit → HDMI → Remote Display

Setup: HDMI source → TX HDMI IN. Optional local monitor to TX LOOP OUT. Cat5e/6 cable TX to RX (up to 70M at 1080p). Remote display to RX HDMI OUT. Power both units. EDID auto-negotiated.
EDID Mode: Switch on TX selects local (loop-out) or remote (RX) EDID copy. Match to your target display.
Cascade: Connect TX LOOP OUT to a second EXT-HD50C TX to extend to additional rooms.

Troubleshooting

Q: Image quality is degraded or no signal at maximum distance
A: Use Cat6 STP with proper grounding. Avoid parallel runs with power cables. Verify cable connectors are fully seated. Reduce cable length if possible. Try switching EDID mode (local/remote).

Q: Source outputs wrong resolution
A: Switch EDID mode on TX to match the target display. "Remote" reads the RX display EDID; "Local" reads the loop-out display EDID. Power-cycle both units after changing.

Q: IR control not working
A: Confirm IR blasters are aimed at device IR windows. Verify 3.5mm plugs are fully seated in IR IN/OUT jacks. Check that both TX and RX are powered.