

# KanexPro®

## HDMI Extender over CAT5/6 up to 164ft. (50m)

The KanexPro EXT-HD50C extender is a compact HDMI Video transmitter - receiver set designed to extend HD signals from your HDMI source device to a display remotely located up to 230ft feet away. Featuring an HDMI loop-out, the transmitter unit supports a second local display

MPN: EXT-HD50C

The KanexPro EXT-HD50C extender can extend high definition video/audio signal and IR control signal up to 230ft/70m for 1080p resolution, and 131ft/40m for 4K30 resolution via a single CAT6 cable, which can achieve zero-delay, uncompressed long-distance transmission between the transmitter and receiver. This extender with HDMI loop output can be cascaded to the next extender, supporting resolution up to 4K@30Hz. It supports EDID copy function (you can choose local or remote EDID). It supports audio formats up to PCM7.1, Dolby True HD, DTS HD. This product can be widely used in multimedia conference halls, TV teaching and large-screen displays. Industry Standard HDCP 1.4 & 4K/30

### Industry Standard HDCP 2.2 & 4K/60Hz

HDCP 1.4 authentication is present always on this extender ensuring proper handshake of the protected content. It also maintains resolutions up to 3840x2160@24, 25, or 30Hz and 2560x1080@60Hz displaying 21:9 aspect ratios. 1920 x 1200 or full HD 1080p/60 is a standard for all our HDMI Extenders.

### Applications:

Ideal for use in digital signage applications, healthcare AV, control rooms, educational facilities, airports, commanding centers and smart homes.



## PROFESSIONAL PERFORMANCE

The extender kit includes two units: transmitter unit and receiver unit. The transmitter unit is responsible for capturing HDMI input signal and carries the signal via one cost effective Cat6 cable and emitting IR control signals. The receiver unit is responsible for receiving the HDMI signal and transmitting IR control signal.

Built to commercial standards, KanexPro products offer premium features like secure mounting tabs, metal enclosures, and passive cooling designs which are a must for long term reliable and stable installations.

- 1. Residential installations:** Great when you need to share a satellite box or DVR with a display in another room or space. Can also be used to protect equipment from the elements for outdoor entertainment spaces by allowing for sources to be installed away from the display.
- 2. Educational Environments:** Can be used to extend a computer connection to a digital projector or a second screen mirroring a teacher's computer. Also, great to be used in auditoriums or front of offices to display notices or schedules.
- 3. Digital signage:** Ideally used for various forms of digital signage displays and drive through menus. Set up advertisements behind a point of sale or display marketing materials on the other end of the retail space.

## FEATURES

- HDMI 1.4 and HDCP 1.4 compliant
- Support video resolution up to 4K@30Hz
- The maximum transmission distance via a single Cat6/5e cable is as follows:
- Cat6: 230ft/70m for 1080p, 131ft/40m for 4K@30
- Cat5e: 197ft/60m for 1080p, 115ft/35m for 4K30
- Support copying EDID from receiver display or loop out display
- Allowing for Cascading via additional HDMI loop out ports
- Compact design for easy and flexible installation

## SPECIFICATIONS

**HDMI Compliance:** HDMI 1.4

**HDCP Compliance:** HDCP 1.4

**Video Bandwidth:** 10.2Gbps

**Video Resolution:** Up to 4K@30Hz

**Audio Support:** Up to 7.1CH HD audio

**Input TMDS Signal:** 3.3 volts

**Input DDC Signal:** 5.0 volts/P-P

**ESD Protection:**

**Human body model:**

+/- 8KV (Air-gap discharge)

+/- 4KV (Contact discharge)

**Connectivity:**

**Transmitter**

**Input:** 1 x HDMI Type A [19-pin female]

**Outputs:** 1 x HDMI Type A [19-pin female]

1 x IR OUT [3.5mm Stereo Mini-jack]

1 x CAT OUT [RJ45, 8-pin female]

**Receiver**

**Inputs:** 1x IR IN [3.5mm Stereo Mini-jack]

1x CAT IN [RJ45, 8-pin female]

**Output:** 1x HDMI Type A [19-pin female]

**Mechanical Specs**

**Housing:** Metal Enclosure

**Silkscreen Color:** Black

**Dimensions:** 79.5mm (W) x 69mm (D) x 16.5mm (H)

**Weight Transmitter:** 132g **Receiver:** 130g

**Power Supply:** 5V/1A DC

**Power Consumption Transmitter:** 1.86W, Receiver: 0.87W

**Operation Temperature:** 32 - 104°F / 0 - 40°C

**Storage Temperature:** -4 - 140°F / -20 - 60°C

**Relative Humidity:** 20-90% RH (non-condensing)

# APPLICATION DIAGRAM

