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Extended-Range HDMI and IR Extender

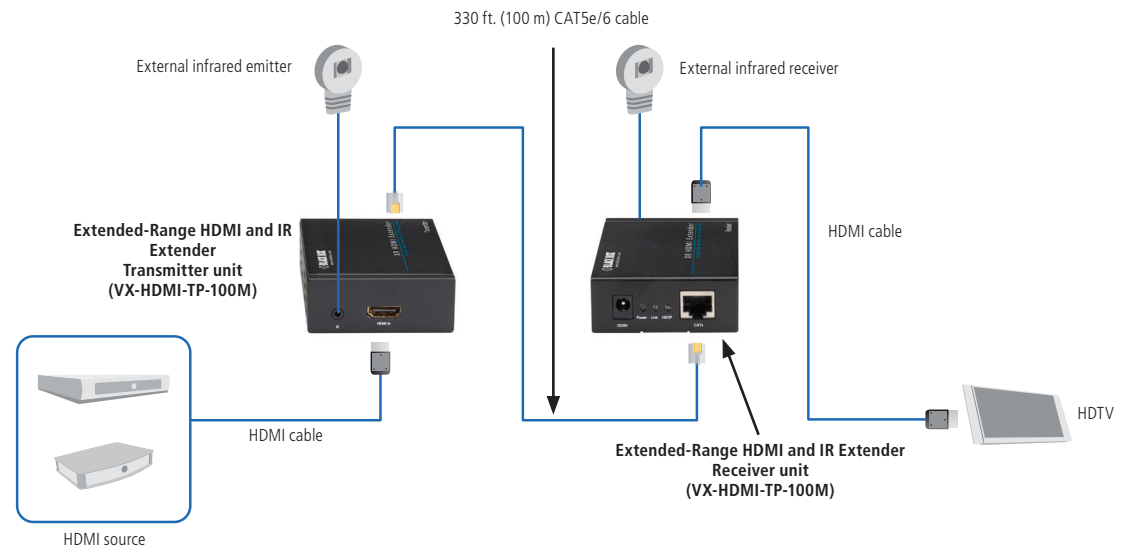
Use a single CAT5e/6 cable to extend uncompressed HD video.



FEATURES

- › Supports up to 1920 x 1200 including 1080p.
- › Supports EDID for compatibility with monitors.
- › Enables HDMI 10.2 Gbps over a single 330-ft. (100-m) CAT5e/6 cable.
- › Full EDID support ensures it also supports the resolutions of current and emerging video display devices, such as the latest 3D screens and future HD formats.
- › Supports 340-MHz/3.4-Gbps per channel (10.2 Gbps all channels) bandwidth.
- › Enables 3D pass-through.
- › Supports CEC pass-through.
- › Works with uncompressed audio such as LPCM.
- › A built-in IR extender function allows IR remote control of source devices from a remote viewing location by sending IR commands received near the display back to the source devices.

Typical connection diagram



OVERVIEW

The Extended-Range HDMI and IR Extender drives your HD display with resolutions of 1080p/60 Hz up to 330 feet (100 meters) away from your HDMI® or DVI-D source using one CAT5e/6 cable. A built-in IR extender function allows IR remote control of source devices from a remote viewing location. To do this, the extender sends IR commands received near the display back to the source devices.

Put a digital display where you want it and control AV source equipment at the screen with the XR HDMI and IR Extender.

Reduced cabling requirements.

The XR HDMI and IR Extender transmits uncompressed full HD digital video and audio plus data control signals—all over a single copper cable.

By using just one CATx run to reach a remote screen, you can get away with using a single, existing CAT5e/6 cabling drop for multimedia distribution. Reach control room video walls, projectors or signage monitors without adding—and having to maintain—a jumble of cables and wiring behind the screen.

You also get simplified control. The extender supports CEC passthrough or source device control via a built-in IR extender function (an IR emitter and IR receiver are included). IR commands received near the display extend back to the source device. This way, a receptionist stationed near a screen, for instance, can use an HDTV's remote controller to change settings on a source device in another room.

Designed for emerging HDMI technology.

The extender is ideal for applications requiring greater distance for high-quality video resolutions on HDTV displays or projectors. It supports 340 MHz/3.4 Gbps of HDMI video bandwidth per channel and 10.2 Gbps on all channels allowing transmission of 1080p 3D video and digital 7.1 surround audio.

What's more, the XR HDMI and IR Extender uses CATx technology, allowing a more robust transmission less susceptible to EMI/RFI noise over the full 330 ft. (100 m) distance. Full EDID support ensures it also supports the resolutions of current and emerging video display devices, such as the latest 3D screens and future HD formats.

It works with the latest source devices, too. Because it supports HDCP communications, you can also extend content from a Blu-ray player or other protected-content source.

For high-quality sound, the XR HDMI and IR Extender transmits uncompressed LPCM signals as well as compressed audio, such as DTS-HD and Dolby® TrueHD audio, as part of the HDMI signal.

** NOTE: Distance depends on the characteristics and quality of the cable and the type of HDMI source and display.*



VX-HDMI-TP-100M
Left: Receiver unit;
Right: Transmitter unit

TECH SPECS

Approvals — Converter Unit: FCC

Power Supply: UL®, FCC

Input Video Signal — 1.2 volts p-p

Operating Frequency — Video Amplifier Bandwidth: 3.4 Gbps/340 MHz,
Vertical Frequency Range: 50/60 Hz

Output Video — HDMI

*Transmission Distance — Using CAT5e/6 cable: 330 ft. (100 m) for
1080p/60 Hz

*NOTE: Distance depends on the characteristics and quality of the cable
and the type of HDMI source and display.

Resolutions (HDTV) — Interlaced: (50 and 60 Hz) 480i, 576i, 1080i;

Progressive: (50 and 60 Hz) 480p, 576p, 720p, 1080p

PC Resolutions — Up to 1920 x 1200/1920 x 1080

Connectors — Transmitter: (1) HDMI F input, (1) 3.5-mm IR emitter jack,
(1) RJ-45 output (CATx interconnect);

Receiver: (1) HDMI F output, (1) 3.5-mm IR receiver jack, (1) RJ-45 output
(CATx interconnect)

Indicators — (3) LEDs on both the transmitter and receiver: Power, Link, HDCP

Power — For both the transmitter and receiver: AC input: 115–230 VAC,
50–60 Hz;

Output: 5 VDC

Size — Each unit: 1"H x 2.6"W x 3.9"D (2.5 x 6.6 x 4 cm)

Weight — Each unit: 0.4 lb. (0.2 kg)

What's included

- ◆ Transmitter unit
- ◆ Receiver unit
- ◆ (2) 5-VDC power supplies
- ◆ Extender infrared receiver
- ◆ Extender infrared emitter
- ◆ (4) wallmount brackets with (8) screws
- ◆ This user's manual

Item

Extended-Range HDMI and IR Extender

Code

VX-HDMI-TP-100M

Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognize any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.
- It's 9 p.m. and you need help, but your vendor's tech support line is closed.

According to a survey by *Data Communications* magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.