



1080p HDMI CAT Extender with Loopout - 70m

User's Guide



P/N: HDExt70

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Important Safety Notices

Please read safety instructions carefully before installation and operation.

- Please pay close attention to all warnings and hints for this device
- Do not expose this unit to rain, heavy moisture, or liquid
- Do not repair the device or open the enclosure without professional guidance to avoid electric shocks. Doing so may void your warranty
- Keep the product in a well-ventilated location to avoid damage from overheating

- Shut off power and make sure environment is safe before installation
- Do not plug the HDMI cables and IR cables in/out when the device is in use to avoid cable damage. Make sure they are plugged into the correct ports
- Use the included DC5V power adapters only. Make sure the specification matches if using 3rd-party DC power adapters

Introduction

The 1080p HDMI CAT Extender with Loopout - 70m extends HDMI transmission up to 70m (230ft) over CAT6/7.

Features

- Supports up to 1080p@60Hz
- HDMI 1.3 and HDCP 1.4 compliant
- HDMI loop-out equipped on the TX, and bi-directional IR
- Supports 5.1ch HDMI digital audio and Stereo audio extraction on the RX
- Near zero latency
- Lightning/Surge/ESD protection

Package Contents

- 1080p HDMI CAT Extender with Loopout - 70m (1 TX & 1 RX)
- Power adapter (2pcs)
- IR Receiver cable (1pc)
- IR Blaster cable (1pc)
- User's Guide

Installation Requirements

1. HDMI source device (computer, DVD player, XBOX, PS3, etc)
2. HDMI display device (SDTV/Monitor, HDTV/Monitor, projector, etc.)
3. UTP/STP CAT6/7 cable following IEEE-568B wiring standard

Product Layout

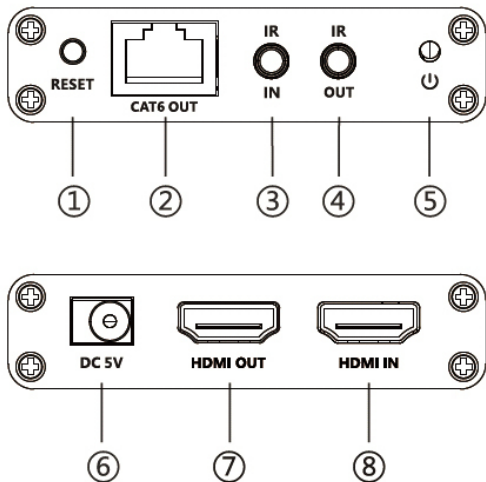


Figure 1: Transmitter (TX) Layout

1. **Reset:** Reset the extender
2. **RJ45 Out:** Connects to the Receiver's RJ45 In using a CAT cable
3. **IR In:** Connects to the included IR Receiver cable
4. **IR Out:** Connects to the included IR Blaster cable

5. **Power/Signal LED:** a) Flashing - TX is powered on with no HDMI signal detected;
b) On - TX is powered on with HDMI signal detected
6. **Power Jack:** Connects to the included power adapter
7. **HDMI Out:** Connects to your HDMI display for local monitoring of the extended display
8. **HDMI In:** Connects to your HDMI source device

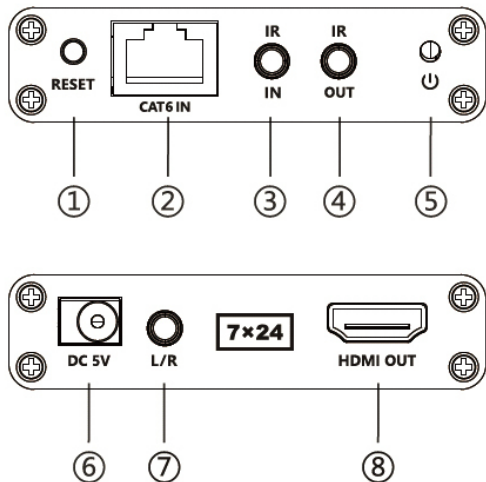


Figure 2: Receiver (RX) Layout

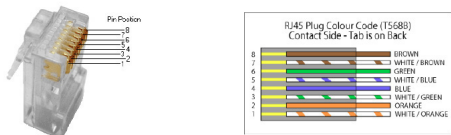
1. **Reset:** Resets the extender
2. **RJ45 In:** Connects to the Transmitter's RJ45 Out using a CAT cable. The green LED lights up when powered on
3. **IR In:** Connects to the included IR Receiver cable
4. **IR Out:** Connects to the included IR Blaster cable

5. **Power/Signal LED:** a) Flashing - RX is powered on with no HDMI signal detected; b) On - RX is powered on with HDMI signal detected
6. **Power Jack:** Connects to the included power adapter
7. **Stereo Audio Out:** Connect speakers, AVR, headphones, etc
8. **HDMI Out:** Connects to your HDMI display

CAT Cable Wiring

We suggest both RJ-45 connectors be wired identically following T568B wiring standard for the best performance and compatibility.

Both connectors must be wired identically, to T568B standard.



Note: You may use cat5e, cat6 UTP (cat6 preferred) in conjunction with the RJ45 output; however for best performance use cat6a or cat7 (particularly in electrically noisy environments). The maximum distances & transmission performance for HDMI and USB may be compromised by cable quality, patch panels, poor termination, wall plates, cable kinks and electrical interferences. Generally ensure the cat cable is solid copper core of 23AWG (avoid CCA type), in one straight run (avoid/minimise patches) and avoid close proximity to any noisy electrical sources.

Hardware Installation

1. Power off all devices including your HDMI source and HDMI display(s).
2. Connect your HDMI source device to the Transmitter's HDMI In connector with an HDMI cable (HDMI cable not included).
3. Optional: Connect a HDMI display to the Transmitter's HDMI Out connector with an HDMI cable (HDMI cable not included) for local monitoring of the HDMI signal.
4. Optional: Connect the IR Blaster cable and IR Receiver cable. Face the IR eye towards your device's IR window. This connection is needed only if you need to control your HDMI device from the remote location. Please see the Connection Diagram on page 12 for proper connection.
5. Plug your CAT cable between the Transmitter's RJ45 Out and Receiver's RJ45 In.
6. Connect your HDMI display to the Receiver's HDMI Out connector with a HDMI cable (HDMI cable not included).

7. Plug the included power adapters into the Transmitter's and Receiver's power jacks, then plug both power adapters into a reliable power source.
8. Power on all connected devices.
9. The HDMI extender is ready for use.

Connection Diagram

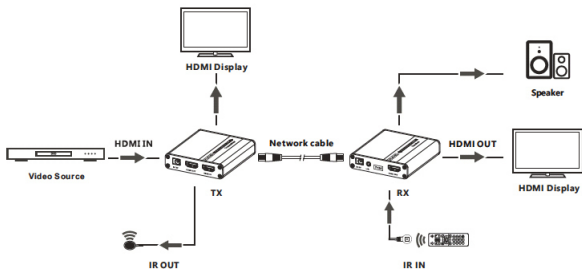


Figure 3: IR Control - Source Device

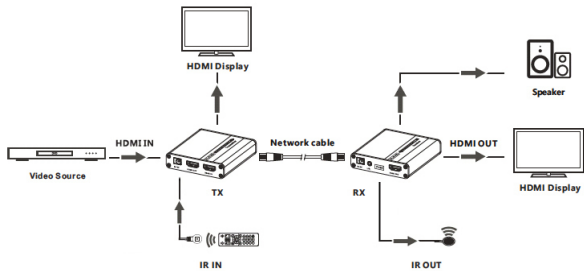


Figure 4: IR Control - Display Device

FAQ & Solutions

Q: There is no video output or audio and video display is not normal:

A: 1) Press the reset button on both TX and RX.
2) Use a shorter network cable.

Q: The Receiver's Link LED is flashing:

A: 1) Make sure the network cable follows the IEEE-568B wiring standard.
2) Check whether TX has HDMI signal input.
3) Reset the TX and reconnect.
4) Press the Reset button on the RX.

Q: The extender is not working properly:

A: 1) Please check the cable lengths below:
- HDMI cables: Up to 5m
- Network cable: Up to 70m
2) Press the reset button on both TX and RX and reconnect.

Q: RX Link LED is on but there is no image:

A: 1) Press RX's Reset button to reset the unit.
2) Make sure the HDMI cable is firmly connected to the display.
3) Use a higher quality network cable.
4) Use a different HDMI display

Specifications

	Items	Specification
Power Supply	Voltage/Current	DC5V/500mA
	Power consumption	TX < 2.5W RX < 2.5W
HDMI Performance And Interface	HDMI compliance	HDMI 1.3
	HDCP compliance	HDCP 1.4
HDMI Performance And Interface	HDMI resolution	800x600, 1024x768, 1280x720, 1280x960, 1366x768, 1440x900, 1680x1050, 1920x1080, 480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@24/25/30/50/60Hz
	Supports audio formats	PCM, LPCM, DTS HD, DTS Audio
HDMI Performance And Interface	Input and output TMDS signal	0.7~1.2Vp-p(TMDS)
	Input and output DDC signal	5Vp-p(TTL)
	Input cable length	≤8m(AWG24)
	Output cable length	≤8m(AWG24)
Transmission Distance	Cat6/6A/7	≤70m
Protection Level	Electrostatic protection of the whole machine	Implementation of the standard: IEC61000-4-2 1a Contact discharge level 4 (8KV) 1b Air discharge level 4 (15KV)
Operating Environment	Working temperature	-20~60°C
	Storage temperature	-30~70°C
	Humidity (no condensation)	0~90%RH
Body Properties	Dimension	75.0(L) x 80.0(W) x 18.0(H)mm
	Material	Aluminum alloy material + crystal panel
	Treatment process	Grit blast
	Color	Black
	Weight	TX: 160g RX:160g

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