

Important Safety Instructions:

1. Do not mix up HDMI to RJ45 sender and RJ45 to HDMI receiver before installation.
2. Do not hot plug when it is working.
3. Use DC5V power supply only. Make sure specification matched if using adapters not supplied by factory.

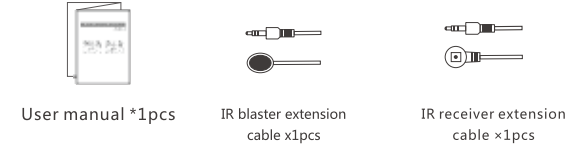
Introduction

This HDMI Extender includes a transmitter unit and a receiver unit, allows HDMI signal to be transmitted up to 60 meters at 4Kx2K@30Hz, and up to 30 meters at 4Kx2K@60Hz long away via a single CAT6/6A/7 cable in a point-to-point configuration. It supports IR passback with a wide IR frequency 20-60KHz. It is perfect for application of outdoor advertising, video clips, monitor system, home entertainment and conference, etc.

Features

1. Support HDMI2.0, compatible with HDCP2.2
2. Highest resolution support 4Kx2K@60Hz
3. Transmission over single CAT6/6A/7
4. Support IR passback function (IR range support 20~60KHz)
5. Support distance up to 60m
6. Plug and play
7. Metal casing, stable and durable

Package Contents

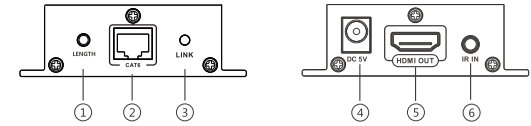


Installation Requirements

1. HDMI source device (compute graphics card, DVD, PS3,) HD monitoring equipment etc.
2. HDMI display device like SDTV, HDTV, projector with HDMI port.
3. UTP/STP cat6/cat6A/cat7 cable. Follow standard IEEE-568B.

Interfaces

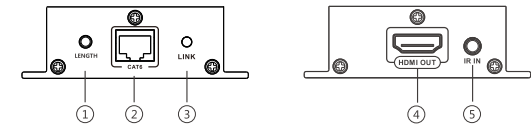
1. Transmitter unit(TX)



① Reset button	Press for restarting the unit
② RJ45 signal output	Output encoded HDMI signal
③ Power indicator	LED indicator turn on when power on

④ DC5V input	Connect with the power supply
⑤ HDMI signal input	Connect with the source device
⑥ IR signal output	Connect with IR blaster extension cable

2.Receiver unit (RX)



① Reset button	Press for restarting the unit
② RJ45 signal input	Input encoded HDMI signal
③ Power indicator	LED indicator turn on when power on
④ HDMI signal output	Connect with the display device
⑤ IR signal input	Connect with IR receiver extension cable

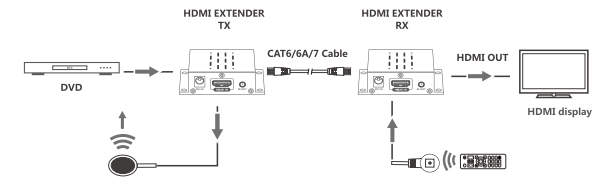
Installation Procedures

1. How to make a Cat6 network cable?

- Follow the standard of IEEE-568B:
- | | | |
|----------------|--------------|---------------|
| 1-Orange/white | 2-Orange | 3-Green/white |
| 4-Blue | 5-Blue/white | 6-Green |
| 7-Brown/white | 8-Brown | |



2. Connection



3. Connection instruction

- 1) Connect source device to Transmitter unit (TX), and display device to Receiver unit (RX) via HDMI cables.
- 2) Connect Transmitter unit (TX) and Receiver unit (RX) via network cables (CAT6,CAT6A or CAT7).
- 3) Plug the power supply to Transmitter unit only, each unit will power up then initialize itself, this HDMI extender works.

4. IR User Guide

- 1) IR blaster extension cable should plug in the IR OUT port of TX (Sender) of HDMI extender, and the IR receiver extension cable should plug in the IR IN port of the Video wall controller.
- 2) The emitter of IR blaster should as close as possible to the IR receiver window of the signal source device.
- 3) Using the IR remote controller of the signal source device towards the IR receiver (connected to the Video wall controller), to remote control source media playback.

FAQ

Q: There is no output on screen when all connections are correct?
A: 1) Please check and make sure the display/monitor supports the HDMI

- signal which fed out from the source device.
- Please make sure the HDMI cables supports 4K×2K if the output signal from the source device is 4K×2K resolution.
 - Please check and make sure the network cable insert to the RJ45 port well.
 - Restart the transmitter or receiver by pressing the reset button.

Q: Black screen happened on the display/monitor?

A: 1) Please check and make sure the length of the network cable within the usable range:

- CAT6 within 60m@4K×2K@30Hz,
- CAT6 within 30m@4K×2K@60Hz

- Reset the transmitter unit for re-built the connection

Q: The color comes abnormally or there is no audio output?

A:Reset the transmitter unit for re-built the connection

Protection Level	Electrostatic protection of the whole machine	1a Contact discharge level 3 1b Air discharge level 3 Implementation of the standard: IEC61000-4-2
	Working temperature	0 ~ 50°C
Operating Environment	Storage temperature	-10 ~ 70°C
	Fumidity (no condensation)	0 ~ 90%
Body Properties	Dimension	77.49(L) x 56.15(W) x 22.66(H)mm
	Material	Aluminium alloy material + crystal panel
	Treatment process	Grit blast
	Color	Black
	Weight	TX:80g, RX:80g
Reliability	Mean time between failures (MTBF)	>30000 Hours

• Specification

Items		Specification
Power Supply	Voltage/Current	DC5V/1A
	Power consumption	TX: 5W
HDMI Performance And Interface	HDMI compliance	HDMI2.0
	HDCP compliance	HDCP2.2
	HDMI resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz 4Kx2K 24/25/30/60/Hz
	Supports audio formats	PCM
	Maximum transfer rate	10.2Gbps
	Input and output TMDS signal	0.5 ~ 1.5Vp-p(TMDS)
	Input and output DDC signal	5Vp-p(TTL)
	Input cable length	≤8m(AWG24)
Output cable length	≤8m(AWG24)	

Disclaimer

The product name and brand name may be registered trademark of related manufacturers.TM and® may be omitted on the user manual. The pictures on the user manual are just for reference, and there may be some slight difference with the real products.

We reserve the rights to make changes without further notice to a product or system described herein to improve reliability, function or design.

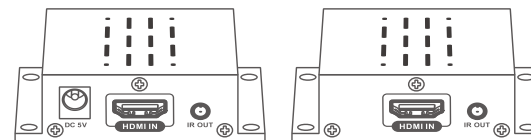
Metra[®]
HOME THEATER GROUP

HDMI Extender

CS-HDC5EXT4KPOE

User manual

4Kx2K
60Hz



MetraHomeTheater.com
866-839-9187

460 Walker Street
Holly Hill, FL 32117-2653

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Designed and Manufactured to
Metra Home Theater Group Specifications
MADE IN CHINA