PROHDMIEX50M-4K
4K 50m HDMI Extender over CAT5e/6 with IR

PROception

The HDMI 18Gbps Extender can extend 4K HDMI signals and one-way IR up to 164ft/50m between the transmitter and receiver over a single CAT5e/6 cable (CAT6 recommended). It supports resolution up to 4K2K@60Hz 4:4:4, 18Gbps and HDCP 2.2. In addition, the extender is equipped with one-way IR pass-through which allows for source control and one HDMI loop output for local HDMI display. The extender offers the most convenient solution for HDMI extension over a single CAT5e/6 with long distance capability and is the perfect solution for application such as Blue-Ray, Satellite receivers and CCTV.


Kit Contents:

- 1× HDMI 18Gbps transmitter.
- 1× HDMI 18Gbps receiver.
- 1× IR blaster cable (1.5 meters).
- 1× 20~60KHz IR receiver cable (1.5 meters).
- 1× 12V 1A power adapter.
- 4× Mounting points.
- 1× User manual.

Features:

- HDMI 2.0, HDCP 2.2 / HDCP 1.4 and DVI 1.0 compliant.
- Supports 18Gbps bandwidth.
- Supports input and output video resolution up to 4k2k@60Hz 4:4:4, extends distance up to 164ft/50m.
- Supports one HDMI loop through.
- Supports one-way IR pass-through.
- Supports HDR function.
- Supports PoE (Power over Ethernet) function, either transmitter or receiver can be powered by the single 12V 1A power supply.
- Supports EDID function.
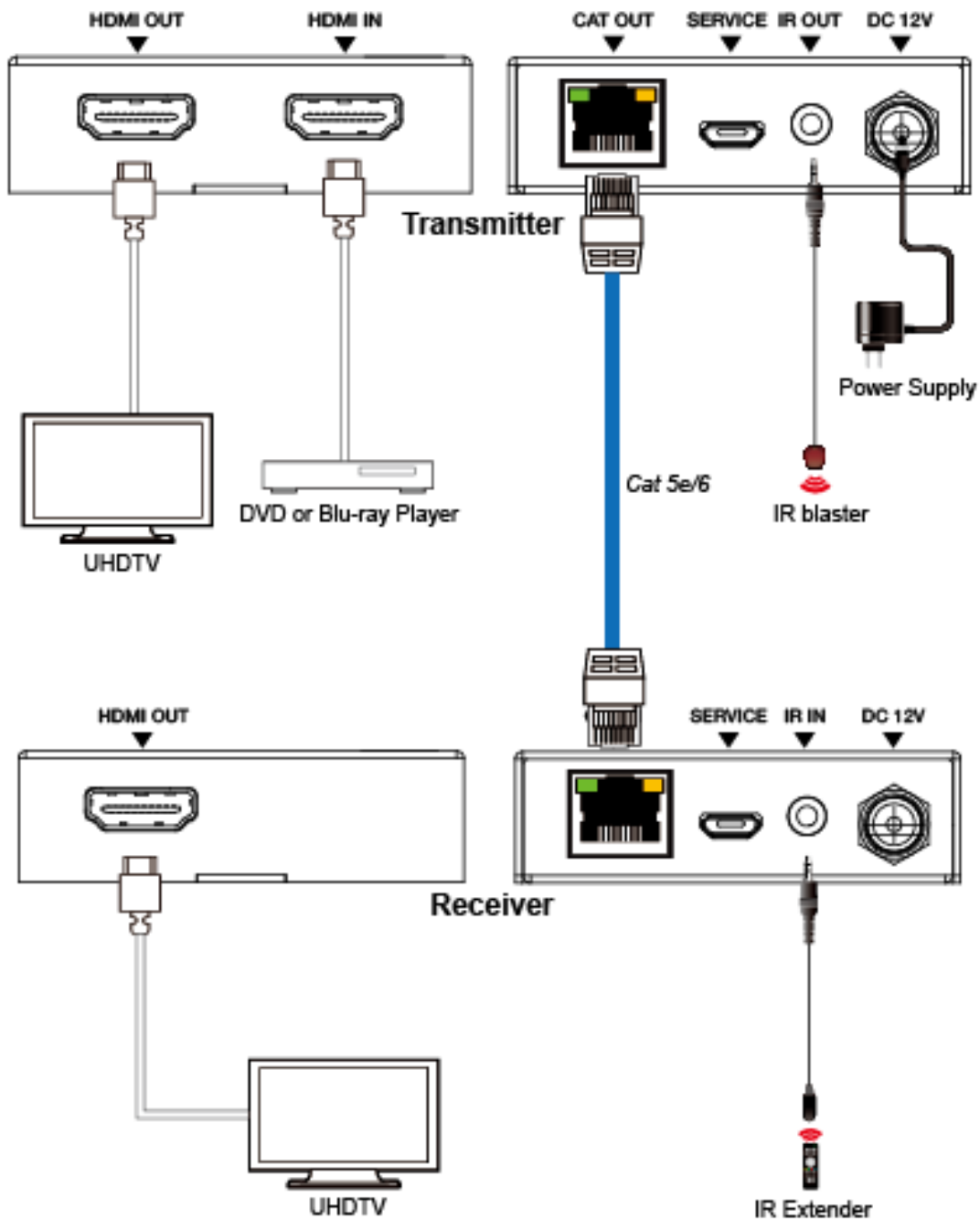
Instructions:

1. Connect the device (Blu-ray player, game console, cable, or satellite receiver etc.) to the HDMI input on the transmitter unit.

2. Connect the display such as an HDTV or HD projector to the HDMI output on the receiving unit.

3. Connect a single CAT5e/6 (CATt6 recommended) up to 164ft/50m from the output of the transmitter unit to the receiver unit input.

4. For power, plug in to either the transmitter or receiver unit (only one power supply is required).

PROHDMIEX50M-4K
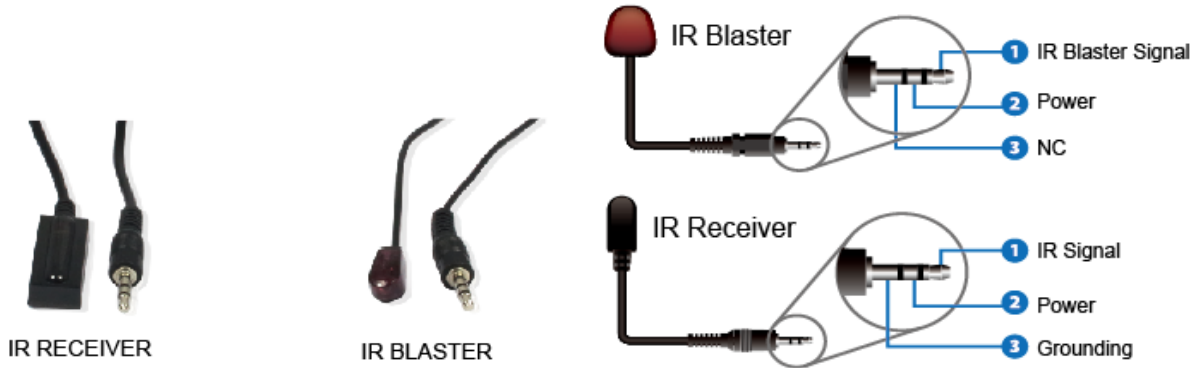## 4K 50m HDMI Extender over CAT5e/6 with IR

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Specifications:

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2 / HDCP 1.4
Video Bandwidth	18Gbps
Video Resolution	Up to 4K60Hz 4:4:4
Color Space	RGB / YCbCr 4:4:4, YCbCr 4:2:2/4:2:0, YUV 4:4:4
Color Depth	8/10/12-bit (1080P60Hz, 4K30Hz, 4K60Hz YCbCr 4:2:2/4:2:0) 8-bit (4K60Hz 4:4:4)
HDMI Audio Formats	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus(DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X
ESD Protection	Human body model — ±8kV (Air-gap discharge) &±4kV (Contact discharge)
Connections	
Transmitter	Inputs: 1x HDMI Type A [19-pin female] 1x SERVICE [Micro USB, Update port] Outputs: 1x HDMI Type A [19-pin female] 1x IR OUT [3.5mm Stereo Mini-jack] 1x CAT OUT [RJ45, 8-pin female]
Receiver	Inputs: 1x IR IN [3.5mm Stereo Mini-jack] 1x CAT IN [RJ45, 8-pin female] 1x SERVICE [Micro USB, Update port] Outputs: 1x HDMI Type A [19-pin female]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter / Receiver: 61mm [W] x 88mm [D] x 18mm [H]
Weight	Transmitter: 160g, Receiver: 155g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 12V/1A
Power Consumption	3.84 W
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

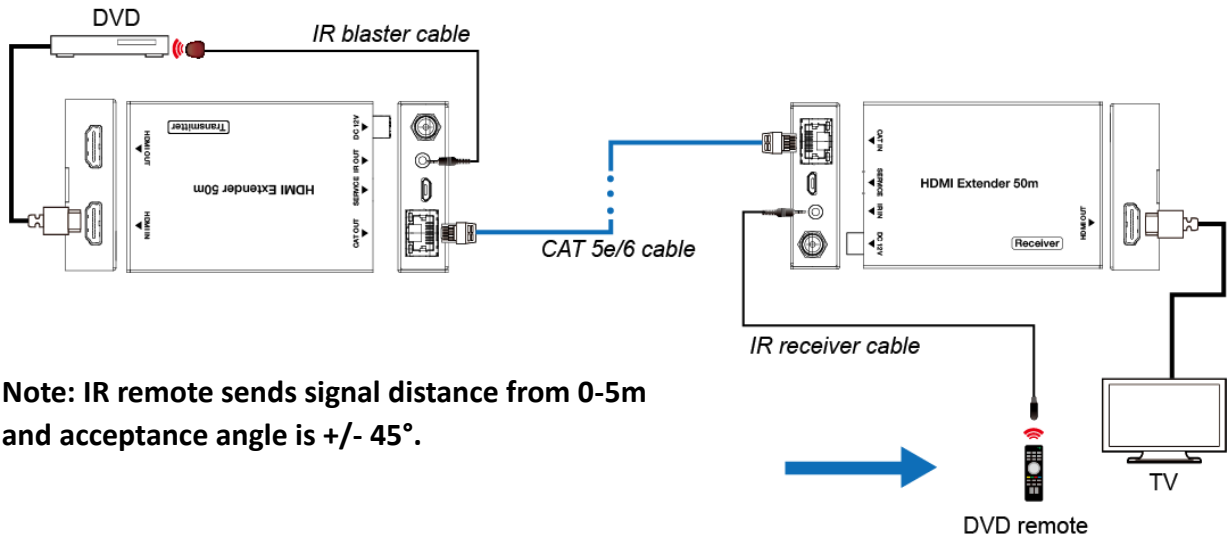| Resolution / Distance	4K60 - Feet / Meters	4K30 / 1080P - Feet / Meters
CAT5e	164ft / 50m	164ft / 50m
CAT6/6a/7	197ft / 60m	230ft / 70m
HDMI IN/OUT	10ft / 3m	30ft / 10m
The use of "Premium High-Speed HDMI" cable is highly recommended.		

IR receiver and blaster:

IR RECEIVER

IR BLASTER

IR Blaster
1 IR Blaster Signal
2 Power
3 NC

IR Receiver
1 IR Signal
2 Power
3 Grounding

IR system diagram:

DVD

IR blaster cable

Transmitter

HDMI Extender 50m

CAT 5e/6 cable

HDMI Extender 50m

Receiver

IR receiver cable

DVD remote

TV

Note: IR remote sends signal distance from 0-5m and acceptance angle is +/- 45°.

Transmitter:

HDMI OUT   HDMI IN   CAT OUT   SERVICE   IR OUT   DC 12V
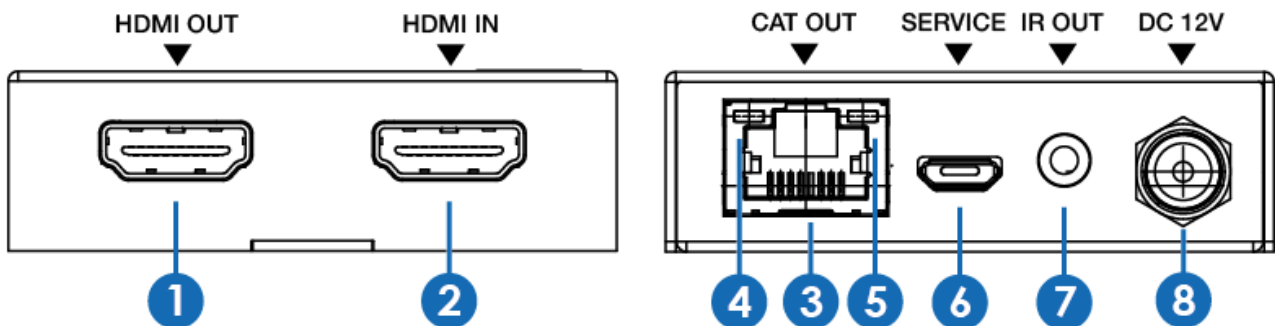
Number	Name	Function description
1	**HDMI OUT**	HDMI loop output, connect to local HDMI display device such as TV or Projector.
2	**HDMI IN**	HDMI input port, connect to HDMI source device such as DVD or PS4 player.

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3	CAT OUT	Connect to CAT IN port on the receiver with a CAT6 cable.
4	**Power Indicator Lamp (Green)**	
5	**Data signal Indicator Lamp (Orange)**	The lamp will illuminate when transmitter and receiver are connected correctly.
6	**SERVICE port**	For firmware update.
7	**IR OUT**	Connect to IR Blaster cable.
8	**DC 12V**	Plug DC 12V/1A power supply into the unit and connect the adapter to an AC outlet, if required at this end.

Receiver:
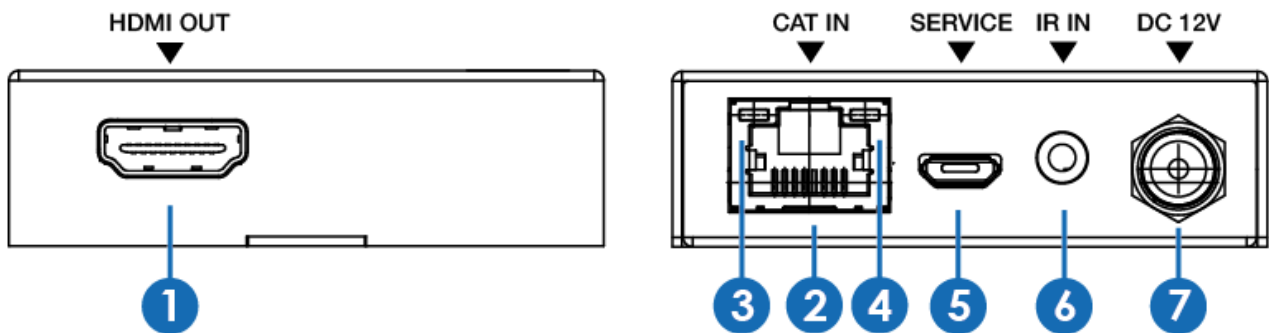
Number	Name	Function description
1	**HDMI OUT**	HDMI output port, output device such as TV or Projector with an HDMI cable.
2	**CAT IN**	Connect to CAT OUT port on the transmitter end with a CAT6 cable.
3	**Power Indicator Lamp (Green)**	
4	**Data signal Indicator Lamp (Orange)**	The lamp will illuminate when transmitter and receiver are connected correctly.
5	**SERVICE port**	For firmware update.
6	**IR IN**	Connect to IR Receiver cable. The IR signal will send to the IR OUT port of the transmitter.
7	**DC 12V**	Plug DC 12V/1A power supply into the unit and connect the adapter to an AC outlet, if required at this end.