



KA041PRO-4K HDMI EXTENDER 120M WITH IR 4K60HZ



Introduction

This product is a 4K@60Hz HDMI extender kit consisting of a sender and a receiver. The 4K@60Hz HDMI signal can be extended up to 100m via Category 6 and above network cables, supporting one-to-one connection, one-to-many connections via gigabit switch, or switch cascades. It also supports IR passback functions, and can be widely used in meetings, home entertainment, educational presentations, and other fields.

Feature

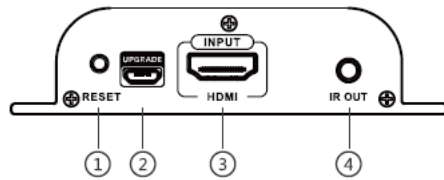
- High-definition and low-latency transmission.
- Support up to 4096 x 2160@60Hz resolution, backward compatible.
- Compatible with Cat5e/6 or above network cables, transmission distance of Cat6 cable is 100 meters
- Support one-to-one or one-to-many connections through the gigabit switch.
- Support IR passback (20~60kHz).
- Firmware can be upgraded through Micro USB.
- Lightning protection, surge protection, ESD protection.
- Support stable 24/7 operation.
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Specification:

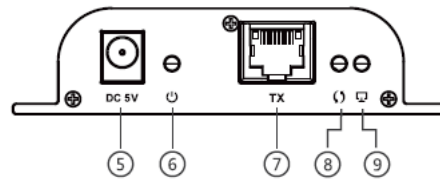
Item	Sender	Receiver
Video		
Input interface	1x HDMI	1x RJ45
Output interface	1x RJ45	1x HDMI
HDMI Length	≤ 5m	≤ 5m
Maximum transfer rate	18Gbps	
Compatibility	HDMI 2.0	
	HDCP 1.4/HDCP 2.2	
Resolutions	4096x2160@24/30/50/60Hz, 3840x2160@24/30/50/60Hz, 1080p@24/25/30/50/60Hz, 720p@50/60Hz, 576P@60Hz, 480P@60Hz, 1920x1200, 1680x1050, 1600x900, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600	
Connection types	One-to-one connection One-to-many connection Switch cascading	
Transmission	CAT5E 100m / CAT6 100m	
Transmission distance	1080P: 80~130ms 4K@60Hz: 150~220ms	
Audio Signal		
Input interface	1xHDMI	1xRJ45
Output interface	1xRJ45	1xHDMI
HDMI output	LPCM 2.0	
Command Signal		
IR interface	1x 3.5mm IR out	1x 3.5mm IR in
IR receiving range	≤ 5m	
IR frequency	20kHz~60kHz	
Power		
Power Supply	DC 5V/1A	DC 5V/1A
Power Consumption	TX ≤ 3.5W	RX ≤ 2.5W
Operating Environment		
Working temperature	- 20°C~60°C	
Storage temperature	- 30°C~70°C	
Humidity	0~90%RH (no condensation)	
Physical Properties		
Housing	Aluminium	
Weight	156g	154g
Color	Black	
Dimensions	96.8(L)*94(W)*23.7(H)mm	
Protection	ESD protection 1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV) Implementation of the standard: IEC61000-4-2	
	Lightning protection, Surge protection	

Panel Description

HDMI EXTENDER TX (Sender)

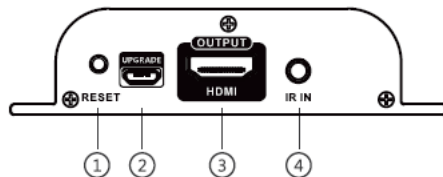


- ① Reset
 - ② Firmware upgrading
 - ③ HDMI signal input
 - ④ IR signal output to connect with blaster extension cable
- ⑤ Power input(DC 5V/1A)
- ⑥ Power Light
The indicator will turn on when the power is turned on

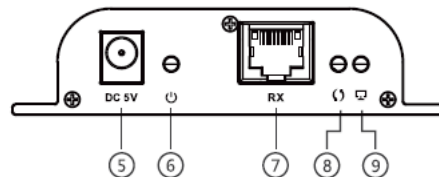


- ⑦ RJ45 signal output
- ⑧ Data transmission light
Light off: No data transmission
Steady on: The data is transmitting
- ⑨ Network link light
Light off: No Network connection
Steady on: Network connection is normal

HDMI EXTENDER RX (Receiver)



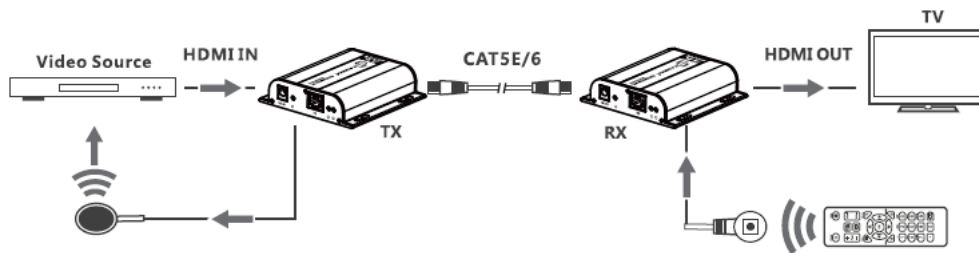
- ① Reset
 - ② Firmware upgrading
 - ③ HDMI signal output
 - ④ IR signal input to connect with IR receiver extension cable
- ⑤ Power input(DC 5V/1A)
- ⑥ Power Light
The indicator will turn on when the power is turned on



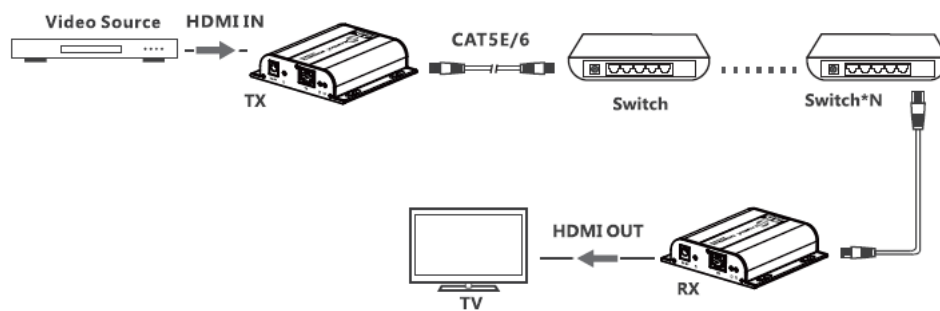
- ⑦ RJ45 signal input
- ⑧ Data transmission light
Light off: No data transmission
Steady on: The data is transmitting
- ⑨ Network link light
Light off: No Network connection
Steady on: Network connection is normal

Connection Diagrams

Point to Point connection: Up to 100meters transmission distance over single CAT6.



LAN switch Cascade Connection: By using the LAN switch/router to realize unlimited extension.



One-to-many connection: By using network router/switch, one sender to several receivers, realize extender & splitter function.

