

4K 60Hz HDMI KVM Wireless Extender



Disclaimer

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HDMITM
HIGH-DEFINITION MULTIMEDIA INTERFACE

The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

• Important Safety Instructions

- 1) Do not expose this device to rain or place it near water. Any liquid that goes into the device may cause a failure, fire, or electric shock.
- 2) Never insert anything metallic into the open parts of this device. This may cause a danger of electric shock.
- 3) Do not place this device near or over a radiator or heat register, or where it is exposed to direct sunlight.
- 4) The device should be repaired only by a qualified technician.
- 5) If a third-party power supply is used, please ensure that the power supply specifications meet the product requirements.

• Introduction

This is a 4K@60Hz HDMI KVM wireless extender, including a transmitter and a receiver. Adopting ipcolor STREAM technology can realize high definition and low-latency transmission. Based on the 5G wireless frequency band, with stable anti-interference and safety performance. It supports up to 1-to-4 wireless transmission, and the transmission distance of 1-to-1 can reach 90 meters, effectively solving problems caused by complicated wiring. It's an ideal wireless video transmission solution for video conferences, home entertainment, multimedia education, etc.

Note:

- 1) Transmission distances may vary depending on the environment.
- 2) Signals may be reduced or completely lost by solid structures such as walls, bricks, and glass.
- 3) The surrounding wireless signal may cause certain interference to the transmission, and the channel can be switched to reduce the interference.

• Features

1. Adopting ipcolor STREAM technology can realize high definition and low-latency transmission.
2. Supports up to 4096x2160@60Hz resolution, backward compatible.
3. It supports up to 1-to-4 wireless transmission, and the transmission distance up to 50 meters (line of sight, 1-to-1).
4. The transmitter supports HDMI loop out.
5. In case of multiple sets of products in the same area, support SSID pairing and channel switching to avoid interference.
6. Supports IR passback.
7. Supports 5G wireless frequency bands, strong anti-interference.
8. Supports KVM control signal passback.
9. Supports touch screen.
10. Supports firmware upgrade via Micro USB port.

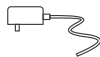
• Package Contents



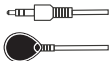
Transmitter x1



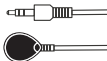
Receiver x1



5V 2A power adapter x2



IR receiver extension cable x1



IR blaster extension cable x1



Antenna x4



Mounting ear x4



Screw x10



Grounding screw x2



User manual x1



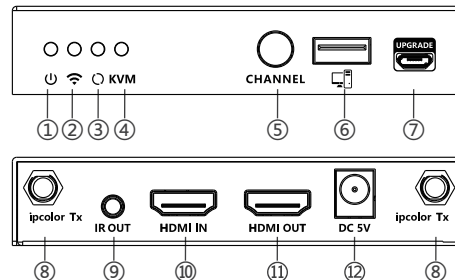
USB cable x1

• Installation Requirements

1. HDMI source device (DVD, game console, PC, etc.)
2. HDMI display device (TV, projector, LED screen, etc.)

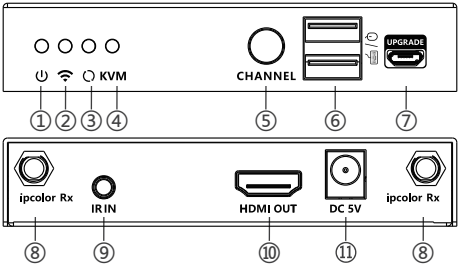
• Panel Description

1. Transmitter (TX)



①	Power indicator	Indicator lights up when power is applied
②	WiFi indicator	a) Slow flash: waiting for connection b) Steady on: connection succeeded c) Quick flash: SSID Pairing mode
③	Signal indicator	a) Light off: no HDMI signal b) Steady on: HDMI signal is transmitting c) Quick flash: restore factory settings
④	KVM indicator	a) Light flashing: The KVM data is transmitting b) Steady on: The computer and the USB port are connected
⑤	Channel switch button	a) press to switch channels b) Press and hold 5s for SSID pairing c) Press and hold 10s for restore factory settings
⑥	USB-A port	Connect to the computer with USB cable
⑦	Micro USB port	Used for firmware upgrade
⑧	Antenna connectors	Connect with antennas
⑨	IR out	Connect with IR blaster extension cable
⑩	HDMI input	Connect with HDMI source device with HDMI cable
⑪	HDMI output	Connect with local HDMI display device with HDMI cable
⑫	Power input	Connect with DC 5V/2A power adapter

2. Receiver (RX)

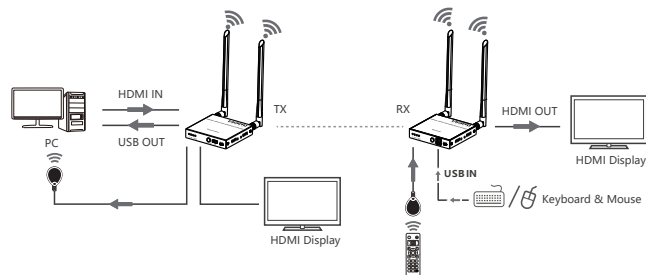


①	Power indicator	Indicator lights up when power is applied
②	WiFi indicator	a) Slow flash: waiting for connection b) Steady on: connection succeeded c) Quick flash: SSID Pairing mode
③	Signal indicator	a) Light off: no HDMI signal b) Steady on: HDMI signal is transmitting c) Quick flash: restore factory settings
④	KVM indicator	a) Light flashing: The KVM data is transmitting b) Steady on: Keyboard, Mouse, or Touch Screen Connected
⑤	Channel switch button	a) After connecting with TX, press to switch channels b) Press and hold 5s for SSID pairing c) Press and hold 10s for restore factory settings
⑥	USB-A port	Connect with Keyboard/Mouse/Touch Screen
⑦	Micro USB port	Used for firmware upgrade
⑧	Antenna connectors	Connect with antennas
⑨	IR in	Connect with IR receiver extension cable
⑩	HDMI output	Connect with HDMI display device with HDMI cable
⑪	Power input	Connect with DC 5V/2A power adapter

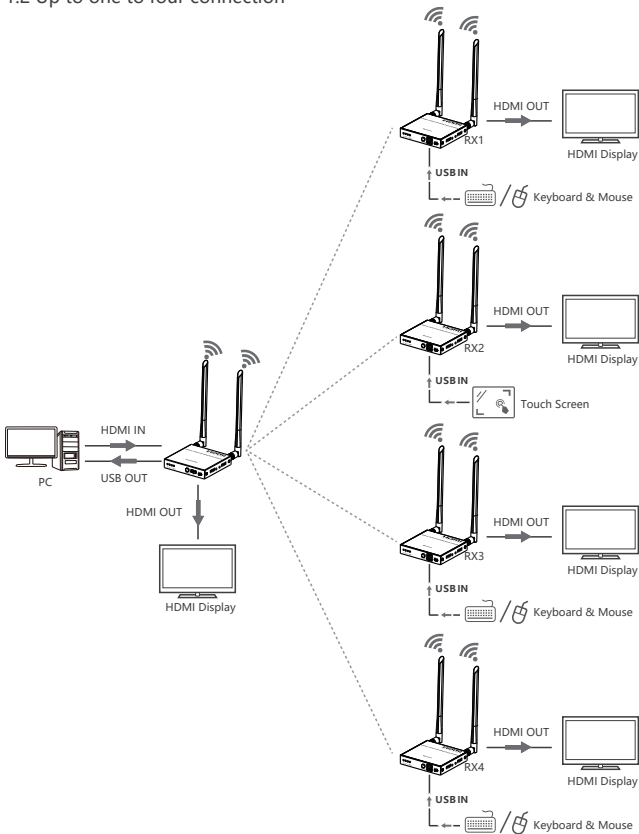
• Installation Procedures

1. Connection Diagrams

1.1 One to one connection



1.2 Up to one to four connection



2. Connection Instructions

- 1) Connect the source device to the HDMI IN port of the transmitter with an HDMI cable, and connect the HDMI OUT port of the receiver to the display device with another HDMI cable.
- 2) If using the IR passback function, connect the IR blaster extension cable into the IR OUT port of the transmitter, and connect the IR receiver extension cable into the IR IN port of the receiver.
 - a: The emitter of the IR blaster extension cable should be as close as possible to the IR receiving window of the source device.
 - b: Point the remote control at the receiving head of the IR receiver extension cable to operate.
- 3) If using the KVM function, connect the Keyboard/Mouse/Touch Screen to the USB port of the receiver and connect the computer to the USB port of the transmitter via the USB cable.
- 4) Plug the power supply into the devices to get started.
- 5) In the case of multiple sets being used at the same time in the same area. In order to prevent mutual interference, switch each set of transmitters and receivers to a different channel after they have been manually paired with the SSID.

3. SSID Pairing

- 1. Enter the SSID pairing mode by holding the transmitter and receiver's channel switch buttons for five seconds. Both WiFi connection indicators will flash quickly.

- 2. Once all receivers have been successfully paired (the RX WiFi indicators has changed from a quick flash to a slow flash), short press the transmitter channel switch button to end the pairing, and the TX/RX WiFi indicators will flash slowly or steady on.

NO.	Frequency
Channel 1	5.180 GHz
Channel 2	5.200 GHz
Channel 3	5.220 GHz
Channel 4	5.240 GHz

• FAQ

Q: Why the receiver and transmitter cannot be connected, showing "Search ipcolor Tx..." on the screen?

- A: 1) Move transmitter and receiver closer.
2) Re-power the transmitter or receiver.
3) Re-pair the transmitter and receiver.

Q: Why the WiFi indicator is steady on but showing "Please check the TX input signal" ?

- A: 1) Make sure the TX has HDMI input and that the resolution is within the specified range.
2) Try to connect the signal source directly to the display device, or change the signal source and HDMI cable and test again.

Q: Why is the display stuttering or unstable?

- A: 1) Place the transmitter or receiver within the signal coverage and minimize obstructions between the transmitter and receiver.
2) Switch to a different channel to avoid interference from other wireless signals.
3) Re-power the receiver or transmitter.

• Specification

Items		Specifications
Power Supply	Voltage/Current	DC 5V/2A
	Power consumption	TX ≤ 5W, RX ≤ 4W
HDMI Performance and Interface	HDMI version	HDMI 2.0
	HDCP version	HDCP 1.4/HDCP 2.2
	Maximum transfer rate	18Gbps
	Resolution supported	4096x2160@24/30/50/60Hz, 3840x2160@24/30/50/60Hz, 1080P@50/60Hz, 720P@50/60Hz, 1920x1200@60Hz
	Input and output TMDS signal	0.7~1.2Vp-p (TMDS)
	Input and output DDC signal	5Vp-p (TTL)
Transmission	WiFi Frequency bands	5.18~5.24 GHz
	Transmission distance	One-to-one ≤ 50m; One-to-two ≤ 30m; One-to-three ≤ 20m; One-to-four ≤ 15m
	Latency	4K@60Hz: 120~180ms 1080P@60Hz: 70~120ms For reference only, delays may vary depending on the resolution, transmission distance, and connection capacity
	Connection types	One-to-one One-to-two One-to-three One-to-four
	SSID pairing	Supported
IR Performance	Infrared frequency	20~60kHz
	Receiving range	≤ 5m

Command Signal	USB Device	Keyboard/Mouse/Touch Screen
Operating Environment	Working temperature	-20~60°C
	Storage temperature	-30~70°C
	Humidity (no condensation)	0~90% RH
Physical Properties	Dimension	TX: 106(W) x 103(L) x 20.6(H) mm RX: 106(W) x 103(L) x 20.6(H) mm
	Color	Black
	Material	Iron
	Net weight	TX: 294g; RX: 295g

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.