



# 60GHz Wireless HDMI Transceiver 2.0

PK-5M2-TX/PK-5M2-RX

User Manual  
V2.0

Note: Thank you for choosing this product. If the product's appearance or structure changes due to upgrades, please refer to the actual product.

# Quick Setup

## Mobile Phone Projection

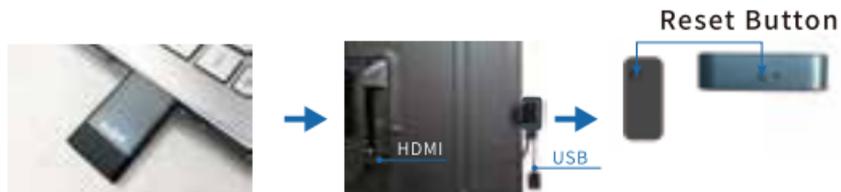


Step1: Mobile phone connection

Step2: Receiving end connection

Step3: Long press the reset button to connect

## PC Projection



Step1: PC connection

Step2: Receiving end connection

Step3: Long press the reset button to connect

# 1. Product Description

Wireless transmitter uses 60GHz frequency band signal for transmission. It supports 1080p 60Hz lossless display, theoretical latency as low as 2.5ms and ultra-high frequency band anti-interference. No APP needed, just plug and play.

## 2. Accessories

TX Transmitting side		RX Receiving side	
TX HDMI Receiver	1	RX Receiver	1
TX Type-C to HDMI Converter	1	USB Charger Power Adapter	1
Type-C Male to Female Flex Cable	1	RX Clip	1
Type-C Male to Male Cable	1	Type-C Male to Male Cable	1
Standard HDMI Male to Male Cable	1	Standard HDMI Male to Male Cable	1
User Manual	1	User Manual	1

## 3. Interface Description

**A:**Type-C Data Interface

**B:**HDMI Interface

**C:**Type-C Power Supply Port

**D:**Type-C Power Supply Port

**E:**Standard HDMI Interface

**F:**Type-C Power Supply Port

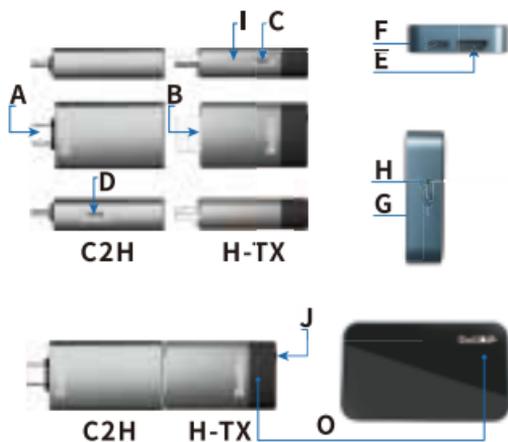
**G:**Receiver's Reset Key

**H:**Receiver's Indicator

**I:**Transmitter's Indicator

**J:**Transmitter Reset Key

**O:**Antenna



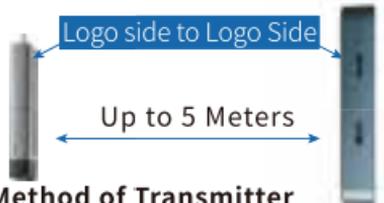
**Note:** Do not block the antenna position under any circumstances, otherwise the signal quality may be affected.

## 4. Technical Information

Product Model	PK-5M2-TX	PK-5M2-RX
Transmission Tech	Wireless HD	Wireless HD
Frequency Band	60GHz	60GHz
Transmission Rate	3.96Gbps	3.96Gbps
Transmission Range	5m	5m
Simultaneous Transmission Angle	60 degrees	60 degrees
Picture Quality	1080P@60Hz	1080P@60Hz
Picture Latency	≤2.5ms	≤2.5ms
Product Dimensions	TX:81*25*10.5mm	RX:80*48*13mm
Working Voltage-Current	5V-100mA	5V-500mA
Support Interface	Type-C with DisplayPort,HDMI	HDMI Output
Connection Methd	Plug and Play	Plug and Play
Weight	32.0g	72.9g
Working Temperature	0°C~60°C	0°C~60°C
Storage Temperature	-20°C~60°C	-20°C~60°C
Relative Humidity	20~90% RH	20~90% RH
Power Consumption	0.52W	2.5W
Interface Type	Type-C/HDMI	Standard HDMI

## 5. Operation Manuals

Due the characteristics of the 60GHz millimeter wave, the antennas of transmitter and receiver need to have a correct alignment, smaller than 60 degrees. A smaller alignment angle results in a stronger signal. As shown in the following figure.



### 1) Connection Method of Transmitter



**Connect with mobile phone:** insert H-TX into HDMI port of C2H, and connect C2H through Type-C data cable of soft head and Type-C port of mobile phone with DP output, as shown in the figure. Attention: The transmitter's antenna is on the side with Peak-Do logo, which must be faced outside, as shown in the left figure.



**Connect while charging:** The transmitter can be powered by the mobile phone. When projecting for a long duration, or the battery of the mobile phone is insufficient, it can be charged while projecting according to the connection method as shown in the left figure.



**Connect with computer:** H-TX transmitter is directly inserted into HDMI output port of computer.

(schematic diagram of HDMI connection between transmitter and computer)



(Long Distance Projection Method)

**Long distance projection via computer:** for long distance projection (for example: 5m), the antenna of transmitter and receiver should be within the direction angle of  $60^\circ$  to achieve the best signal reception. In this circumstance a  $360^\circ$  HDMI adapter can be used to adjust the antenna direction of transmitter, as shown in the left figure.



(Connection Method for using a USB auxiliary power supply cable)

**Connection using an USB auxiliary power supply cable:** the HDMI port power supply of some laptops or computers (especially old machines) is not enough to supply the working current of the transmitter. In this case, a short USB-A to Type-C power supply cable can be used to provide sufficient working current for the transmitter.

### Indicator lights of transmitter and receiver:

After the power is plugged in, the indicator lights will display the connection status in red, blue and green, and the status of indicator lights of transmitter and receiver will be synchronized.



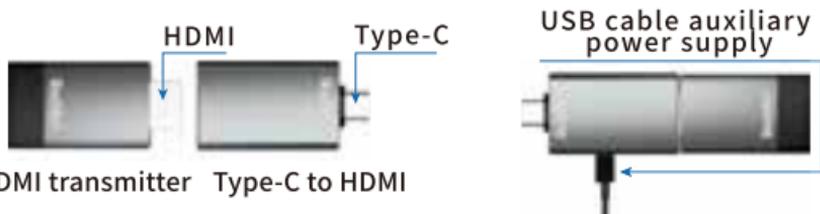
**Red: power on    Blue: Searching for signal    Green: connection successful**

If the transmitter or receiver continues to display blue light, it means that the device is not connected. Please press the reset key of the transmitter once, wait for 5-6 seconds to establish connection. If the connection still cannot be established, please reset the device. Method: press and hold the reset key of the transmitter and receiver for 10 seconds simultaneously. After the indicator is off, release the reset key, and the device will reconnect.

## Note:

- When pairing, make sure that the transmitting end and the receiving end are unobstructed and is within the visible range of 5 meters.
- After successful pairing, there is no need for a second setup even if power supply has turned off, unless a different transmitter or receiver is replaced.

## Transmitter



### HDMI transmitter Type-C to HDMI

The sending end is composed of HDMI transmitter (H-TX) and type-c to HDMI (C2H). When the mobile phone needs to cast on the big screen, insert the H-TX into the HDMI bus of C2H according to the above figure. When laptop, Nintendo Switch, play station or camera needs to cast on the big screen, insert the H-TX into the HDMI-out bus of the device (if the power supply of the HDMI-out port of the device is insufficient, use the USB auxiliary power supply cable).

## 2) Setup of receiving end:



The receiver USB port need to connect the supplied USB charger power adapter. If use the third party power supply, make sure the output voltage of the supply port is DC 5V and the current is at least 2A.

The side where the indicator light of the receiver is located is the front of the antenna. Please ensure that this side is visible to the signal transmitting side of the transmitter (Fig. (3) B: antenna position), and try to avoid obstacles between the transmitter and receiver. The receiver should not be installed on the back of the display device, otherwise it may block the signal and affect the signal. It is recommended to clip the receiver to the outer edge of the TV frame with an attached bracket.

**Caution:**

When using external power supply, please confirm that the power output is DC 5V/2A+ power supply. Otherwise the equipment may be damaged!

The optimal working distance of this product is within 5 meters. The signal transmission requires the receiving and transmitting antenna to be aligned within 60 degrees without shielding. Adjust the placement position to reach the optimum experience.

## 6. Supported Devices

Device with Type-C interface DP protocol to HDMI interface	
Computers	
Apple	MacBook Air2018, iPad Pro2018, MacBook Pro2016/2017/2018, MacBook 12inch (All Type-C interfaced ipad or MAC)
Huawei	MateBook 14/13, E/E, 2019 version
Hono	MagicBook
Xiaomi	Air12.5/13.3 inch, Pro 15.6 inch, Xiaomi Game Book
ASUS	Lingyao 3 / 3Pro, Lingyao X series, U4100UN, U5100UQ, ROG series
Lenovo	Y7000/Y7000P/Y9000K, YOGA6 Pro ThinkPad X1, Carbon/Yoga
HP	Shadow Elves 4Pro, Elitebook 1050 G1, Elitebook Folio G1
Dell	G3/G5/G7series, Lingyue5000/7000
Google	Google PixelBook

## Mobile phones

Apple	All series (adapter required)
Huawei	P20、P20Pro, P30, P30Pro, P40 /P40Pro, Mate10/Mate10pro, Mate20/Mate20pro, Mate30/Mate30Pro, Mate40, Mate40Pro
Hono	RongYaoV20, RongYaoNote10
OPPO	R17Pro
Black Shark	Black Shark 2, 3/3pro, 4/4pro
Samsung	Note8, Note 9, Note10, S8/S8+, S9/S9+, S10/S10+, S20/S20+
Red Magic	Red Magic 5
JmGO	R1, R2, Pro2S, Pro3
Microsoft	Microsoft950XL, Microsoft950
LG	G5/V300L
One plus	One plus7/7Pro, One plus8/8Pro, One plus9/9Pro
More models are being continuously updated, please refer to the mobile phone's user manual.	

## 7.Hazardous

Accessories	Substance					
	Pb	Hg	Cd	Cr(VI)	PBDE	PBB
Transmitter	×	0	0	0	0	0
Receiver	×	0	0	0	0	0
Cables	×	0	0	0	0	0
Plastic Stand	0	0	0	0	0	0
Metal Stand	0	0	0	0	0	0

This form is compiled according to SJ / T 11364. 0: means the content of the hazardous substance in all homogeneous materials of the component is below the limit specified in GB / T 26572. ×: means the content of the hazardous substance in at least one homogeneous material of the component exceeds the limit specified in GB / T 26572, and there is no mature alternative in the industry which meets the environmental protection requirements of EU ROHS directive.



This number indicates that the life span of the product under normal usage circumstance; 10 years. Some parts may also have environmental protection service life labels, and the environmental protection service life shall be subject to the number in the label. Due to different models, the products may not include all the above parts except transmitter and receiver. Please refer to the actual products.

## 8.Caution

- 1) If the transmitter and receiver cannot be connected, long press the reset key and connect again.
- 2) If there is lag or disconnection, confirm if the product is within the effective distance of 5 meters, the orientation of both the receiver and transmitter are in the correct position, and there are no obstacles in-between.
- 3) Only use the manufacturer's accessories, do not connect incompatible devices or accessories.

- 4) Please Keep the device dry at all times, this device is not waterproof.
- 5) The warranty does not cover damages resulting from misuse, abuse, immersion, normal wear and tear or unauthorized modification.

## 9. FAQ:

Q: Transmitter and receiver can not be connected?

A: Confirm if your device supports DP output function. Confirm the device is within 5 meters, then reconnect after resetting the device.

Q: What models does the transmitter and receiver supported?

A: Transmitter adapter: All iphones (lightning adapter required), android phone with HDMI function and Type-C interface.

Receiver adapter: the device must adapt to HDMI-IN interface. Support: TV, monitor and projector.

Q: The indicator light doesn't turn on after the device is connected?

A: Check the power supply of transmitter and receiver, both should be greater than 5V2A.

Q: Can all Type-C interfaced mobile phones cast wirelessly?

A: No. Only DisplayPort over Type-C port .

Q: How to verify that my mobile phone supports wireless casting?

A: Insert the C2H adapter into the mobile phone, connect the HDMI port of C2H and TV with an HDMI cable. If a wired projection can be established, then the mobile phone supports wireless casting.