

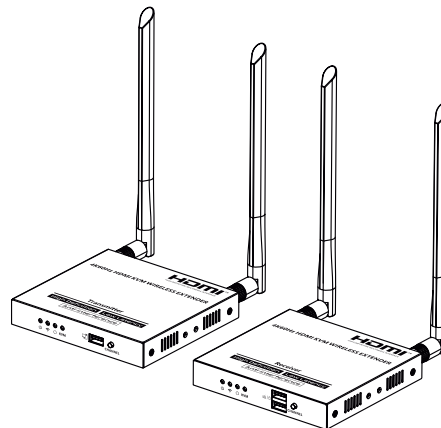


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rocstor®

TrueReach TR23

HDMI KVM Wireless EXTENDER 4K/60Hz



User Manual
Y10G023-B1

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

• **FCC Statement**

Tested to Comply

This equipment has been tested and found to comply with the limits of 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.
- Changes or modifications not authorized by the party responsible for compliance could void the user's authority to operate this product.

• **Important Safety Instructions**

- 1- Do not expose this device to rain or place it near water. Any liquid entering the device may cause failure, fire, or electric shock.
- 2- Never insert metallic objects into any open parts of this device, as this may cause electric shock.
- 3- Do not place this device near or on a radiator, heat register, or in direct sunlight.
- 4- The device should only be repaired by a qualified technician.
- 5- If a third-party power supply is used, ensure its specifications meet the product requirements.

• **Introduction**

This Rocstor TrueReach TR22 is a 4K@60Hz HDMI KVM wireless extender that includes a transmitter and a receiver. Using ipcolor STREAM technology, it delivers high-definition, low-latency transmission. Operating on the 5G wireless frequency band, it provides stable, interference-resistant, and secure performance. It supports up to 1-to-4 wireless transmission, with a 1-to-1 transmission distance of up to 50 meters, effectively solving problems caused by complicated wiring. This makes it an ideal wireless video transmission solution for video conferences, home entertainment, multimedia education, and more.

Note:

- Transmission distance may vary depending on the environment.
- Signals may be weakened or completely blocked by solid structures such as walls, bricks, or glass.
- Nearby wireless signals may cause interference with the transmission; switching the channel can help reduce this interference.

• Features

1. Adopts ipcolor STREAM technology for high-definition, low-latency transmission.
2. Supports resolutions up to 4096×2160 @ 60Hz and is backward compatible.
3. Supports up to 1-to-4 wireless transmission, with a 1-to-1 line-of-sight distance of up to 50 meters.
4. Transmitter supports HDMI loop-out.
5. When multiple sets are used in the same area, supports SSID pairing and channel switching to avoid interference.
6. Supports IR passback.
7. Operates on the 5G wireless frequency band with strong anti-interference performance.
8. Supports KVM control signal passback.
9. Supports touchscreen functionality.
10. Supports firmware upgrades via Micro USB port.
11. Designed for stable 24/7 operation.

• Package Contents



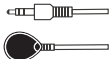
Transmitter x1



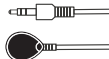
Receiver x1



5V 2A power adapter x2



IR receiver extension cable x1



IR blaster extension cable x1



Antenna x4

• Package Contents



Mounting ear x4



Screw x10



Grounding screw x2



User manual x1



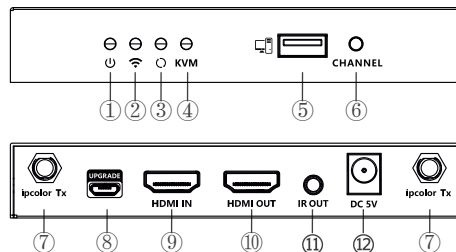
USB cable x1

• 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)

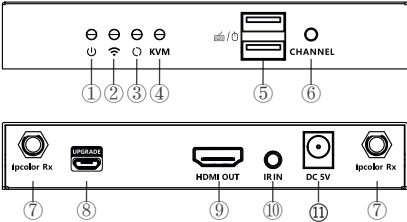


• Panel Description

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	USB-A port	Connect to the computer with USB cable
⑥	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
⑦	Antenna connectors	Connect with antennas
⑧	Micro USB port	Used for firmware upgrade
⑨	HDMI input	Connect with HDMI source device with HDMI cable
⑩	HDMI output	Connect with local HDMI display device with HDMI cable
⑪	IR out	Connect with IR blaster extension cable
⑫	Power input	Connect with DC 5V/2A power adapter

• Panel Description

2. Receiver (RX)

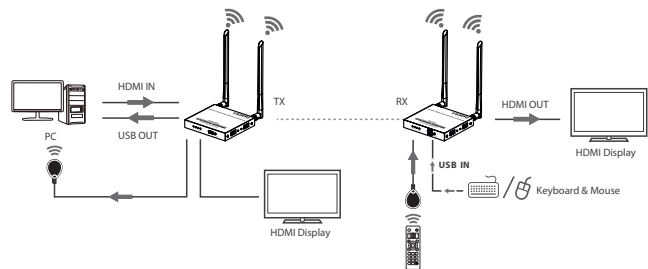


①	Power indicator	Indicator lights up when power is applied
②	WiFi indicator	a) Slow flash: waiting for connection b) Steady on: connection succeeded c) Quick flash: SSID Pairing mode
③	Signal indicator	a) Light off: no HDMI signal b) Steady on: HDMI signal is transmitting c) Quick flash: restore factory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

• Installation Procedures

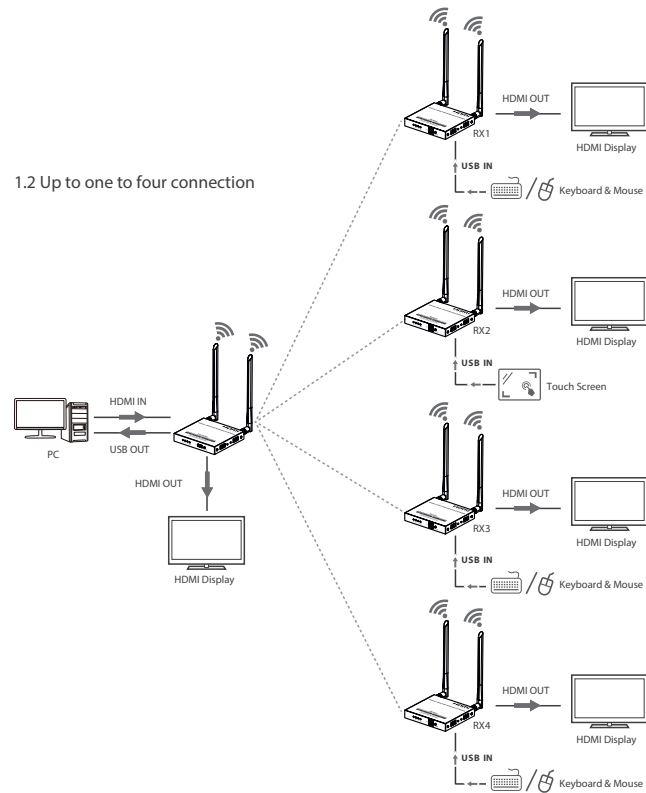
1. Connection Diagrams

1.1 One to one connection



• Installation Procedures

1.2 Up to one to four connection



• Installation Procedures

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 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.

• Installation Procedures

- 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 Wi-Fi 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
	Input and output TMDS signal	0.7~1.2Vp-p (TMDS)
	Input and output DDC signal	5Vp-p (TTL)
Transmission	Wi-Fi 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
Protection Level	ESD protection	1a Contact discharge level 3 1b Air discharge level 3 Standard: IEC61000-4-2
		Lightning protection, Surge protection

• Specification

IR Performance	Infrared frequency	20~60kHz
	Receiving range	≤ 5m
Operating Environment	Working temperature	-20~60 ℃
	Storage temperature	-30~70 ℃
	Humidity (no condensation)	0~90% RH
Physical Properties	Dimension	TX: 115(W) x 125(L) x 20.6(H) mm RX: 115(W) x 125(L) x 20.6(H) mm
	Color	Black
	Material	Iron
	Net weight	TX: 349g; RX: 326g

• Contact Informations

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