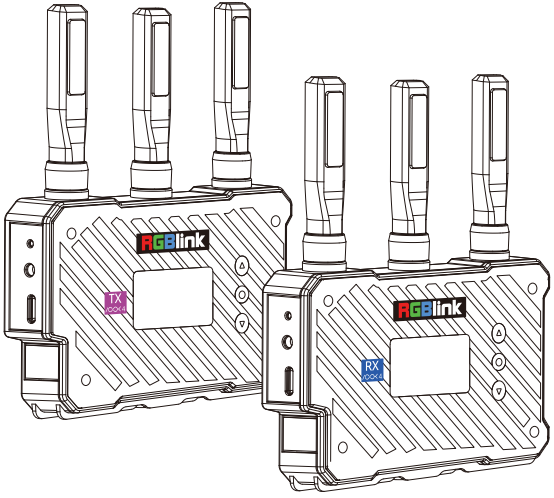
4K WIRELESS VIDEO TRANSMISSION SYSTEM



USER MANUAL

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Overview

The ASK 4 is a professional-grade 4K wireless video transmission system which is specifically designed for film and video production, event, conference presentations, and similar scenarios. The system consists of a Transmitter (TX) and a Receiver (RX), both equipped with LCD displays that show real-time connection status,signal strength, channel, and resolution information,and so on, making operation intuitive and convenient. It features 20 selectable channels;both ends can manually choose an interference-free channel, and the system automatically synchronizes to the same channel. The receiver has a UVC output function,allowing direct connection to a computer for use as a HD camera. It supports mainstream streaming software like OBS, with live streaming output up to 1080P@60Hz.

Product Features

- **LCD Display & Status Monitoring**
  Equipped with LCD displays for real-time visibility of connection status, signal strength, channel selection, and resolution information. Operation is intuitive, and status is clear at a glance.

- **5GHz Band with 20 Manually Selectable Anti-Interference Channels**
  Features 20 selectable channels, supporting independent channel switching control on both the transmitter and receiver ends.

- **450 meters/1500 feet 4K Ultra HD Wireless Transmission**
  Supports 4K@30Hz HD video transmission with a maximum range of 450 meters/1500 feet (in open environments), latency below 0.1 seconds,ensuring stable and smooth video quality.

- **UVC Live Streaming**
  The receiver features a UVC output port, allowing direct connection to a computer for use as an HD camera.Supports up to 1080P@60Hz live output and is compatible with mainstream streaming software like OBS.

- **One-to-Many Transmission, Multi-Scenario Applicability**
  Supports one transmitter connecting to up to five receivers simultaneously,meeting multi-screen monitoring needs. Suitable for filming, live streaming, conferences, teaching, and other scenarios.

- **Flexible Power Supply & Portable Installation**
  Compatible with NP-F series batteries, USB-C, and DC power. Equipped with a 1/4" screw hole for easy mounting on cameras, monitors, and other equipment, adaptable to various indoor and outdoor environments.

- **Plug-and-Play & Quick Pairing**
  Pre-paired out of the box, ready to use upon power-on. Supports manual frequency adjustment and quick re-pairing, facilitating device expansion and troubleshooting.

What's in the Box

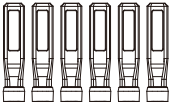
1TX + 1RX



Transmitter (TX) ×1



Receiver (RX) ×1

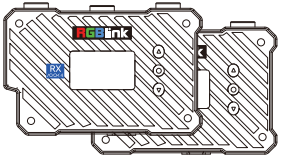


Antenna ×6

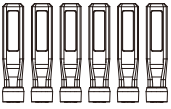


User Manual ×1

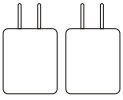
2RX



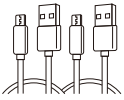
Receiver (RX) ×2



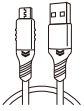
Antenna ×6



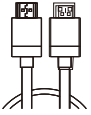
5V Power Adapter ×2



USB-C Power Cable ×2

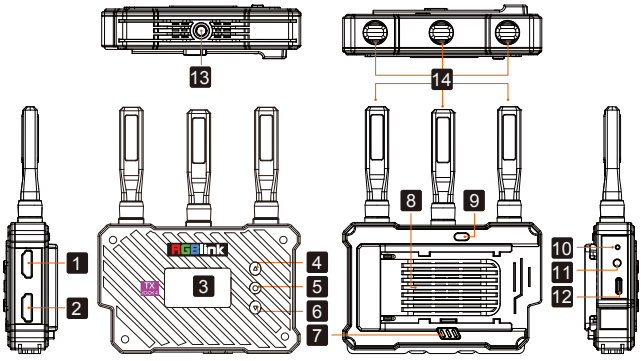


Type C to USB 3.0 Data Cable ×1



HDMI Short Cable Set ×3

Transmitter Overview(TX)



A TRANSMITTER(TX)

1 HDMI IN
Connect Source

2 LOOP OUT
Connect Monitor

3 LCD Display
Display status

4 △
Channel Control Buttons

5 ◎
Quick-Confirm Key

6 ▽
Channel Control Buttons

7 Battery Eject Button
Replace Battery

8 Battery Compartment
Install NP-F Battery

9 Power OFF button
Turn off device

10 Reset Pinhole
Use ejector pin

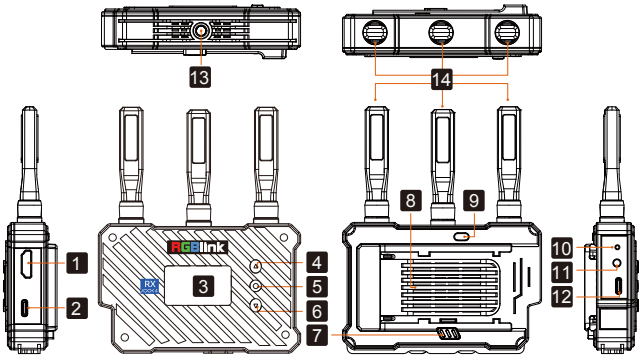
11 Audio
Audio Output

12 USB-C Power Port
5V Power Input

13 1/4" Thread Hole
Camera Mounting

14 Antenna Port ×3
Install Antennas

Receiver Overview(RX)



B RECEIVER(RX)

1 **HDMI OUT**
Connect Display

2 **UVC Port**
Connect PC for Streaming

3 **LCD Display**
Display status

4 △
Channel Control Buttons

5 ◎
Quick-Confirm Key

6 ▽
Channel Control Buttons

7 **Battery Eject Button**
Replace Battery

8 **Battery Compartment**
Install NP-F Battery

9 **Power OFF button**
Turn off device

10 **Reset Pinhole**
Use ejector pin

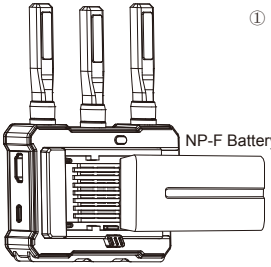
11 **Audio**
Audio Output

12 **USB-C Power Port**
5V Power Input

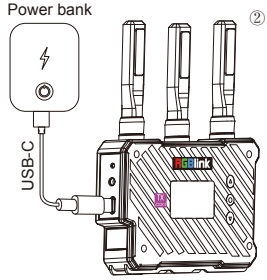
13 **1/4" Thread Hole**
Camera Mounting

14 **Antenna Port ×3**
Install Antennas

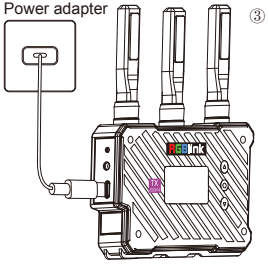
3 Power Supply Methods



Power Method	Suitable Scenarios
NP-F Battery	Outdoor shooting, No power available
Advantages	**Notes**
Completely wireless, Flexible movement	Need spare batteries, Monitor battery level



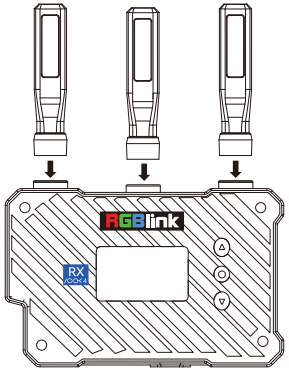
Power Method	Suitable Scenarios
USB-C Power	Mobile setups, Temporary arrangements
Advantages	**Notes**
Portable & flexible, Can use power banks	Power bank needs sufficient capacity



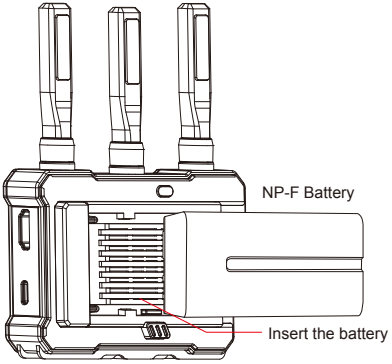
Power Method	Suitable Scenarios
5V Adapter	Fixed locations, Long sessions
Advantages	**Notes**
Most stable & reliable, No runtime anxiety	Needs power outlet, Cable management

Quick Start Guide

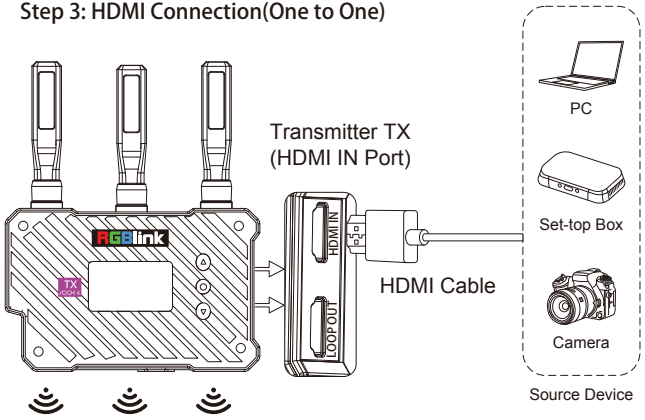
Step 1: Install Antennas



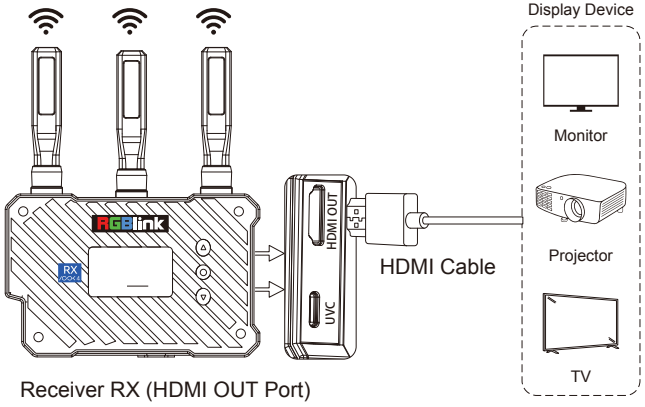
Step 2: Connect Power



Step 3: HDMI Connection(One to One)



Wireless Transmission (Automatic) 450m/1500ft

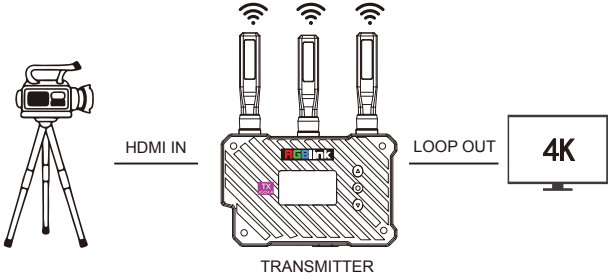


Receiver RX (HDMI OUT Port)

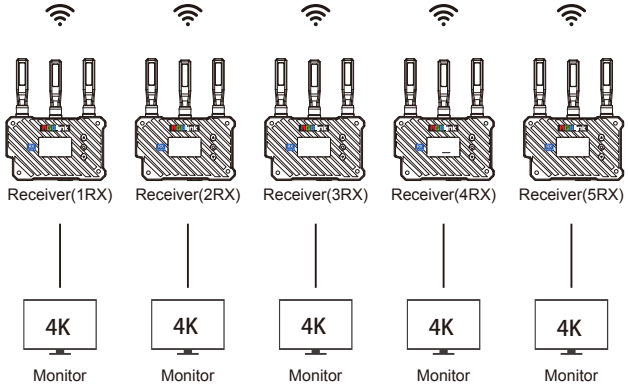
Application

1 TX&5 RX

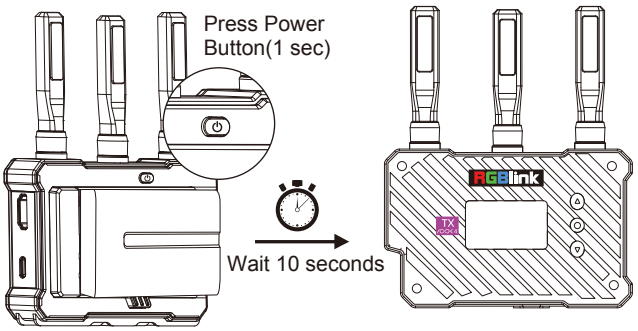
(Up to 5RXs for 4K transmission,as shown in the diagram below)



Wireless Transmission



Power On & Verification



CHECK LCD SCREEN

Normal Status:	 Display the same channel,resolution(same as signal source)
Abnormal Status&Action:	 Searching TX → Not connected to TX, wait/move closer to TX NO VIDEO → Check signal source input Red Signal Icon → Strong interference, press "CH+" icon to change channel. TX&RX show different channels---Repair them

LCD Indicators(TX)

Transmitter (TX) Display



Icon/Text	Parameter	Description
CH09	Current Channel	Channel 1-20(manually selectable) Factory default CH09
RX[1]	Connected RX Count	Max. 5 receivers supported
	Battery	Green=Sufficient Low battery.Please charge promptly.
	DC In	DC IN : USB-C power
	Channel Congestion	Channel Clear,No Action Needed
		Some Interference Consider Changing Channel
		Severe Interference Change Channel Immediately
	Video Input Status	NO VIDEO: No Input Signal Check Signal Source
	Signal Source's Resolution	Input Resolution: 4K@30Hz ,1080P@60Hz

LCD Screen Indicators(RX)

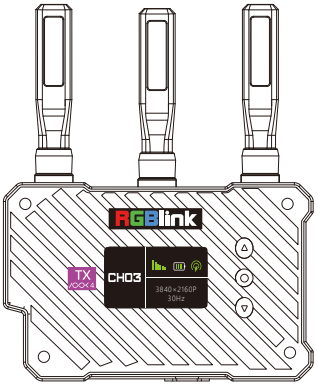
Receiver (RX) Display



Icon/Text	Parameter	Description
CH09	Same as TX Channel	Properly Synced
	Signal Strength	Strong signal Weak signal
	BATTERY	Green=Sufficient Low battery.Please charge promptly.
	DC IN	DC IN : USB-C power
	Channel Congestion	Channel Clear,No Action Needed Some Interference Consider Changing Channel Severe Interference Change Channel Immediately
	Video Output Status	4K Signal Input | Excellent Quality
	CHECK TX'S INPUT SIGNAL	No signal input
	Searching TX	No TX connection

Manual Channel Adjustment

When encountering interference:
Observe the signal icon on the LCD screen.





Green
Good, no action needed.



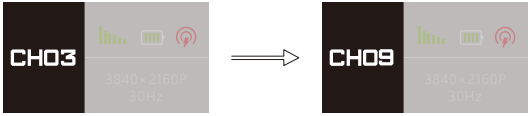
Yellow
Slight interference,
action optional.



Red
Severe interference,
immediate action required.

Channel Adjustment Operation:

Press the " △ ▽ " button on TX or RX,LCD number changes.Select a new channel,Press " ◎ " to confirm.Or Wait 6 seconds for automatic channel confirmation and TX/RX synchronization.

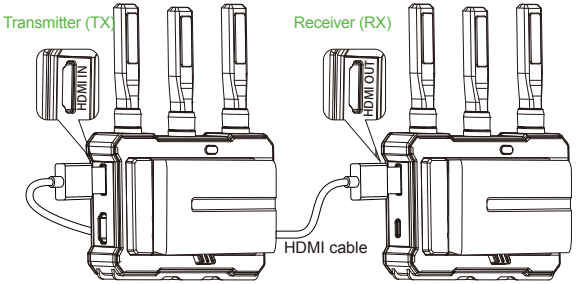


Verification:

Confirm TX and RX display the same channel number.
Observe if the signal icon turns green.

Detailed Pairing Operation

Pairing is only required in the following cases:
1.Adding a new receiver;
2.Original set devices cannot transmit video normally.



Pairing Preparation:

1. Ensure devices have sufficient battery/power;
2. Prepare a short HDMI cable (≤1 meter);
3. Operate in a low-interference environment.

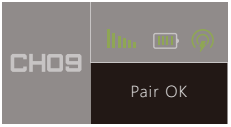
Pairing Steps:

1.Power off both TX and RX,Disconnect all cables,Power on;
2.Connect TX's HDMI IN to RX's HDMI OUT using an HDMI cable;
3.Wait 25 seconds,LCD displays "Pair OK" and flashes;
4.Remove HDMI cable,Power off and restart devices;
5.Reconnect normally for use.

TX



RX



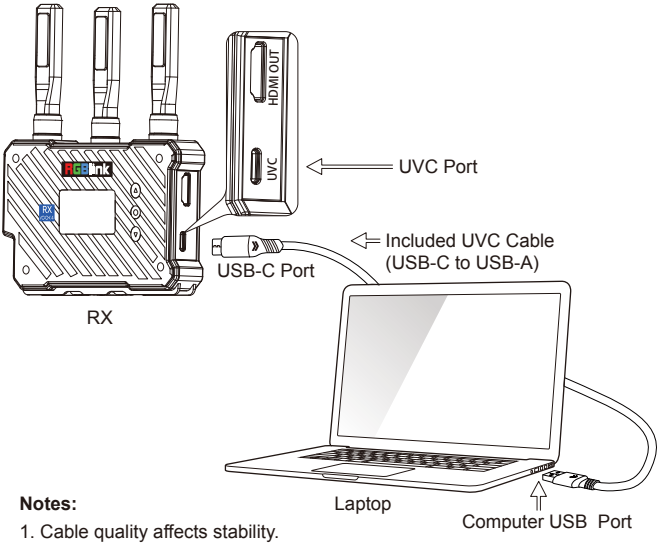
Troubleshoot Pairing Failure:
Disconnect power →Press reset buttons on both devices → Retry pairing

UVC Mode

Complete UVC Streaming Tutorial

1.Computer makes "device connected" sound;

2.Camera device appears in Computer's "Device Manager".



Notes:

1. Cable quality affects stability.
2. Computer performance affects encoding speed.
3. Streaming platforms may have bitrate limits.

Cable Type	USB 3.0 Cable	USB 2.0 Cable
Computer USB Port	Blue USB Port	Black USB Port or USB 3.0 Port
Max Output	1080P@60Hz (Recommended)	1080P@30Hz

Quick Troubleshooting Guide

Problem: No video at all

Possible Causes:
1. Device not powered on;
2. HDMI cable not connected properly;
3. Channels not matching;
4. Source has no output.

Solutions:
1.Check power switch;
2.Reconnect HDMI cables;
3.Verify TX/RX channel match;
4.Confirm camera/PC has output.

Problem: Choppy video, high lag

Possible Causes:
1. Distance too far or obstacles;
2. Severe channel interference.

Solutions:
1.Reduce distance between TX/RX;
2.Press "CH+" to switch to a clear channel;
3.Let device rest/cool down;
4.Avoid microwaves, WiFi routers.

Problem: UVC not recognized by PC

Possible Causes:
1. Data cable issue;
2. USB port poor contact;
3. Computer driver issue;
4. Permissions not enabled.

Solutions:
1.Try a different USB 3.0 cable;
2.Try a different USB port on PC;
3.Check computer camera permissions;
4.Restart computer.

Device Compatibility Q&A

Q1:Can it connect to a phone?

A: Requires phone to support HDMI output and an adapter.
Apple: Lightning to HDMI adapter.
Android: Type-C to HDMI adapter (requires phone support).

Q2:Can it connect to game consoles?

A: Supports PS4/PS5/Xbox/Switch (requires dock).
Connection: Console → HDMI cable → TX → Wireless → RX → TV.

Wireless transmission involves latency,
so it is not recommended for games with high real-time requirements.

Technical Specifications

Wireless Range	1500ft (line-of-sight)
Frequency Band	5GHz
Video Encoding	H.265/HEVC. High compression ratio, low bandwidth usage.
Latency	≤0.1S
Video Resolution	Max 4K@30Hz (3840×2160), Downward compatible (1080P/720P, etc.)
Transmission Bitrate	Up to 60Mbps
RX UVC Output	1920x1080P@60Hz (USB 3.0) 1920x1080P@30Hz (USB 2.0)
Wireless Standard	802.11 a/b/g/n/ac
Audio Support	Supports HDMI embedded audio. TX/RX supports independent 3.5mm audio output.
Power Requirements	5V/2A Type-C cable power supply. Supports NP-F series batteries.
Indoor/through walls	depends on wall material.
Product Weight	TX: Approx. 183g (without battery), RX: Approx. 183g (without battery)
Product Dimensions	TX: 125×85×35mm, RX: 125×85×35mm
Material	PC + ABS
Operating Environment	Temperature: -20°C to 50°C Humidity: 5% to 70% RH
Transmission Modes	1TX supports 1RX/2RX/3RX/4RX/5RX

Transmission Distance Reference

1-to-1 Connection

1-to-2 Connection

1-to-3 Connection

1-to-4 Connection

1-to-5 Connection

Factors Affecting Distance:

1. Environmental interference (WiFi, Bluetooth, etc.).
2. Obstacle material and quantity.
3. Antenna positioning angle.
4. Power supply stability.
5. Manually Channel selection.

SAFETY & MAINTENANCE

Safety Precautions:

1. Use the original power adapter.
2. Keep ventilation openings clear. Do not place on hot surfaces.
3. Remove batteries when not in use for extended periods.
4. Clean ports and antennas regularly.
5. Do not use in rain or damp environments.

Warranty Policy & Technical Support

Warranty Coverage:

* 1-year product quality warranty.
* Lifetime technical support provided.

Warranty Conditions:

1. Proof of purchase and product serial number required.
2. Excludes damage caused by improper use.
3. Must use original accessories.
4. Must be used under normal operating conditions.

Contact: Online customer service on various platforms.

RGBlink

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