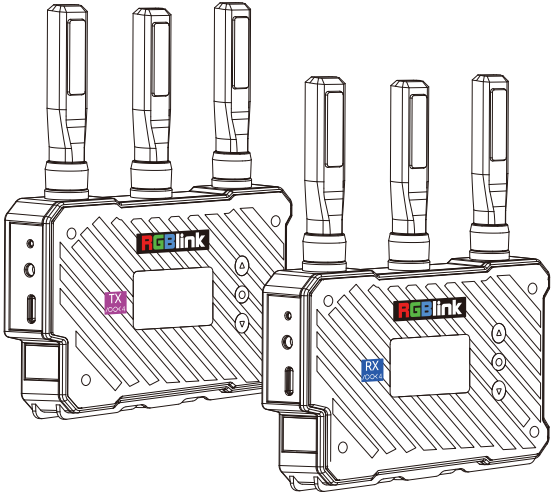
# 4K WIRELESS VIDEO TRANSMISSION SYSTEM




## 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

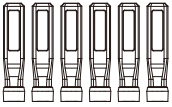
**1TX + 1RX**



Transmitter (TX) ×1



Receiver (RX) ×1

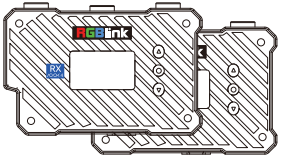


Antenna ×6

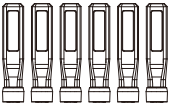



User Manual ×1

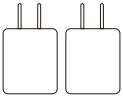
**2RX**



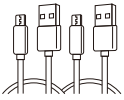
Receiver (RX) ×2



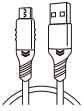
Antenna ×6



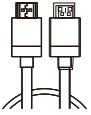
5V Power Adapter ×2



USB-C Power Cable ×2

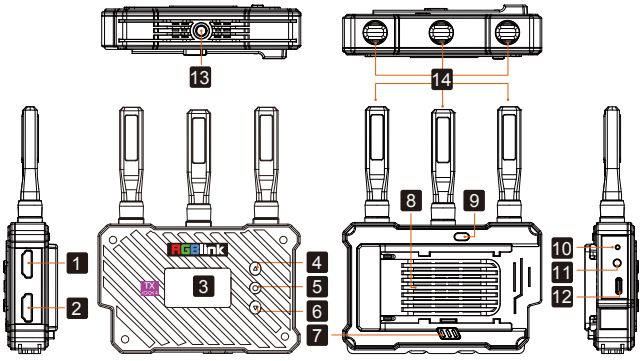


Type C to USB 3.0 Data Cable ×1



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

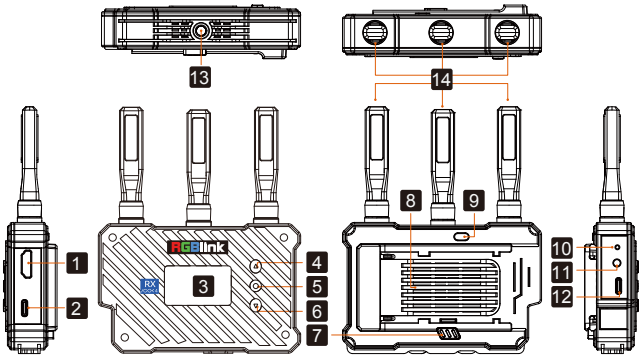
**11 Audio**
Audio Output

**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

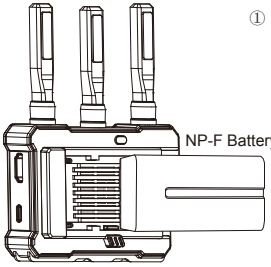
11 **Audio**
Audio Output

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

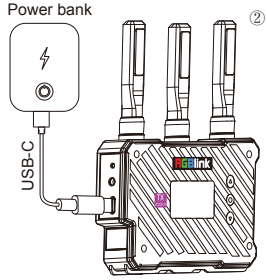
13 **1/4" Thread Hole**
Camera Mounting

14 **Antenna Port ×3**
Install Antennas

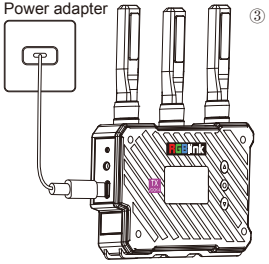
## 3 Power Supply Methods




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



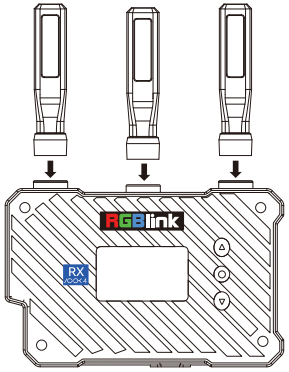

| Power Method | Suitable Scenarios |
|---|---|
| USB-C Power | Mobile setups,<br>Temporary arrangements |
| **Advantages** | **Notes** |
| Portable & flexible,<br>Can use power banks | Power bank needs<br>sufficient capacity |



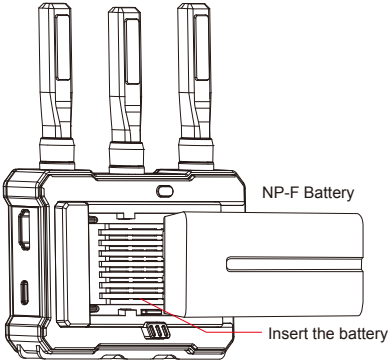

| Power Method | Suitable Scenarios |
|---|---|
| 5V Adapter | Fixed locations,<br>Long sessions |
| **Advantages** | **Notes** |
| Most stable & reliable,<br>No runtime anxiety | Needs power outlet,<br>Cable management |

## Quick Start Guide

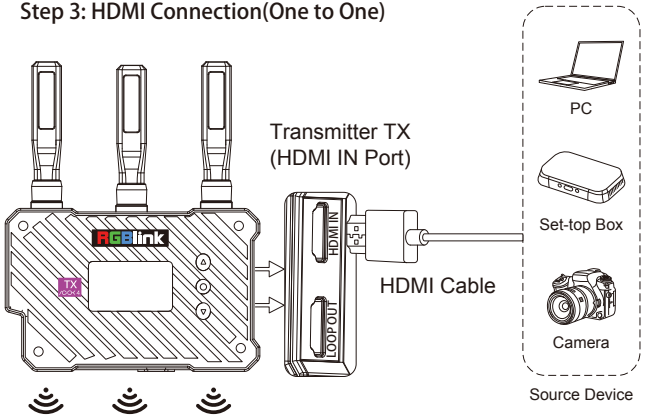
### Step 1: Install Antennas



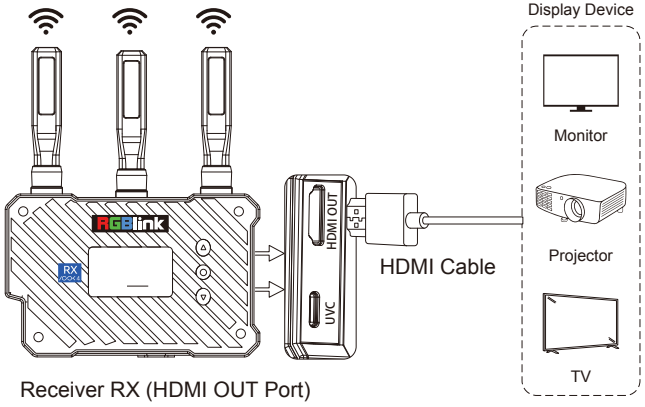

### Step 2: Connect Power



## Step 3: HDMI Connection(One to One)




Wireless Transmission (Automatic) 450m/1500ft

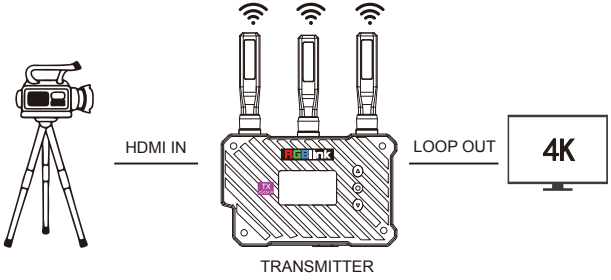



Receiver RX (HDMI OUT Port)

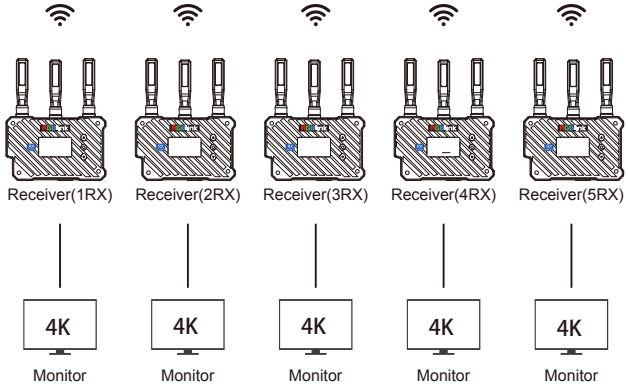
## Application

### 1 TX&5 RX

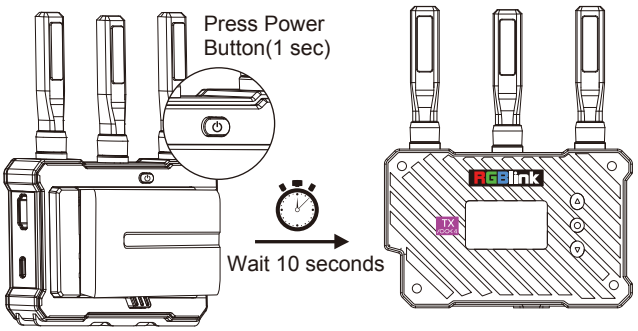
(Up to 5RXs for 4K transmission,as shown in the diagram below)




Wireless Transmission



## Power On & Verification




## CHECK LCD SCREEN

| | |
|---|---|
| Normal Status: | <br>Display the same channel,resolution(same as signal source) |
| Abnormal Status&Action: | <br>Searching TX → Not connected to TX, wait/move closer to TX<br>NO VIDEO → Check signal source input<br>Red Signal Icon → Strong interference, press "CH+" icon to change channel.<br>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)<br>Factory default CH09 |
| RX[1] | Connected RX Count | Max. 5 receivers supported |
|  | Battery | Green=Sufficient<br>Low battery.Please charge promptly. |
|  | DC In | DC IN : USB-C power |
|  | Channel Congestion | Channel Clear,No Action Needed |
| | | Some Interference<br>Consider Changing Channel |
| | | Severe Interference<br>Change Channel Immediately |
|  | Video Input Status | NO VIDEO: No Input Signal<br>Check Signal Source |
|  | Signal Source's Resolution | Input Resolution:<br>4K@30Hz ,1080P@60Hz |

## LCD Screen Indicators(RX)

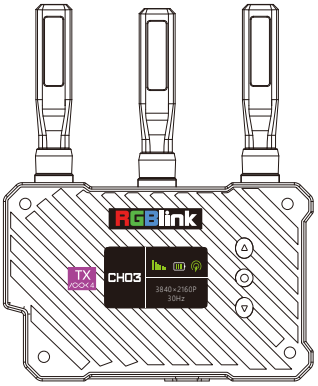
**Receiver (RX) Display**




| Icon/Text | Parameter | Description |
|---|---|---|
| CH09 | Same as TX Channel | Properly Synced |
|  | Signal Strength | Strong signal<br>Weak signal |
|  | BATTERY | Green=Sufficient<br>Low battery.Please charge promptly. |
|  | DC IN | DC IN : USB-C power |
|  | Channel Congestion | Channel Clear,No Action Needed<br>Some Interference Consider Changing Channel<br>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.



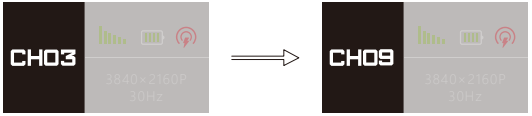

**Yellow**
Slight interference,
action optional.




**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.

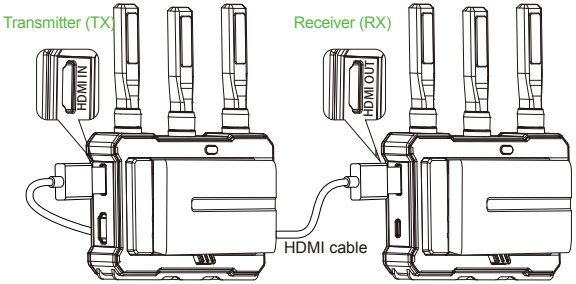



**Verification:**

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.

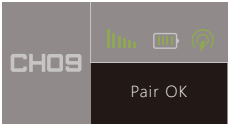
**Pairing Steps:**

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



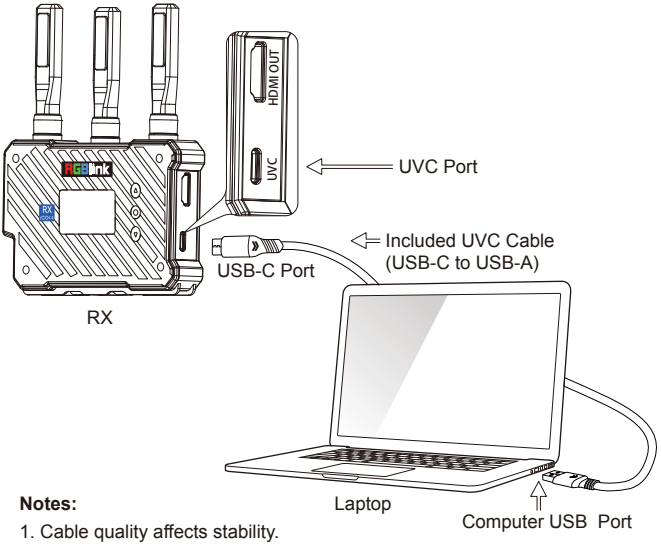

Troubleshoot Pairing Failure:
Disconnect power →Press reset buttons on both devices → Retry pairing

## 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)<br>1920x1080P@30Hz (USB 2.0) |
| Wireless Standard | 802.11 a/b/g/n/ac |
| Audio Support | Supports HDMI embedded audio.<br>TX/RX supports independent 3.5mm audio output. |
| Power Requirements | 5V/2A Type-C cable power supply.<br>Supports NP-F series batteries. |
| Indoor/through walls | depends on wall material. |
| Product Weight | TX: Approx. 183g (without battery),<br>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<br>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.

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