

# ATOMOS TX-RX

Let's get started!



ATOMOS

## Features

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- Compact and portable
- Transmits up to 4KP30 from HDMI input/ 1080P60 from SDI.
- 5GHz Wi-Fi - faster speeds even in crowded environments
- Low latency - as fast as 60ms (subject to resolution/framerate)
- Range of up to 300 meters (1000 feet)
- Transmitter supports 1 x 3G-SDI input
- Transmitter supports HDMI input and HDMI loop through
- Receiver supports 1 x 3G-SDI output
- Receiver supports dual HDMI output
- Supports up to 4 receivers per transmitter
- OLED display screen
- Powered by NP-F battery, USB-C or DC input (9-16V)

## What's in the Box

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- ✔ Wireless video transmitter (TX) and/or receiver (RX)
- ✔ User Manual
- ✔ USB A-C data cable (1m) (1 per TX/RX unit)
- ✔ Wi-Fi antenna (2 per TX/RX unit)
- ✔ Antenna tips (black, white, yellow, green, red)
- ✔ Neoprene sleeve for antennas
- ✔ 1/4" thread screw mount (1 per TX/RX unit)

## Product Installation

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### 1. Attach Antennas

### 2. Connect the Transmitter (TX)

If using HDMI:

- Connect the HDMI output of your camera to the HDMI input on the transmitter.
- If using a monitor/recorder, connect the HDMI Loop Out from the transmitter to the monitor/recorder.

If using SDI:

- Connect the SDI output from your camera to the SDI input on your monitor/recorder.
- Then connect the SDI Loop Out from the monitor/recorder to the SDI input on the transmitter.

### 3. Connect the Receiver (RX)

- Connect the receiver to your display monitor using either HDMI or SDI.
- The receiver provides two HDMI outputs and one SDI output, all of which can be used simultaneously.

### 4. Power the Devices

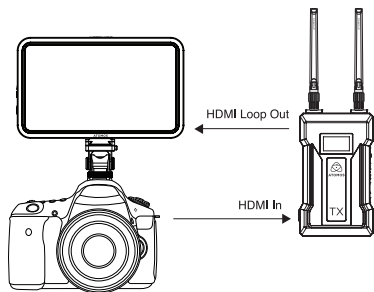
- Power the TX and RX using an NP-F (L-Series) battery, USB-C power, or an Atomos battery eliminator.

### 5. Pairing

- TX & RX sets are pre-paired at the factory, but if they don't connect automatically or you need to pair separately, refer to "Pairing TX/RX" or "Troubleshooting".

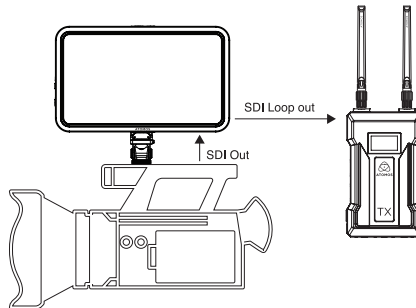
## HDMI connection with monitor/recorder

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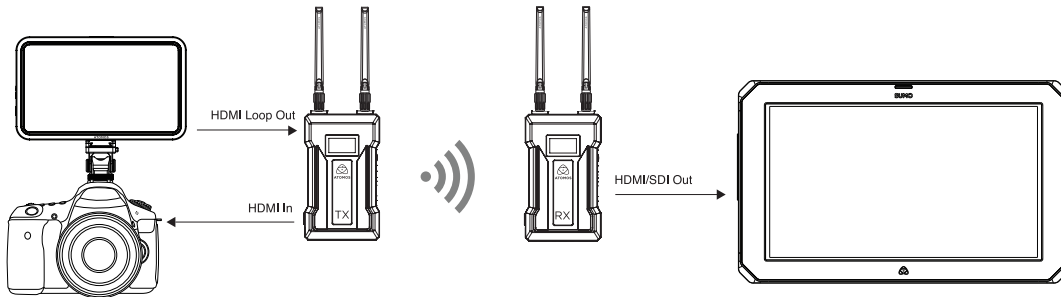
## SDI connection with monitor/recorder

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## One-to-one setup with camera monitor/recorder

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## OLED Display

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### A. TX or RX Identification

### B. Wi-Fi Frequency Channel

The devices support up to 9 Wi-Fi channels (CH0 to CH8). To change the Wi-Fi channel, use the rotary dial to scroll and select the desired channel. Please note that both TX and RX devices must be set to the same channel to establish a connection.

### C. Wi-Fi Signal

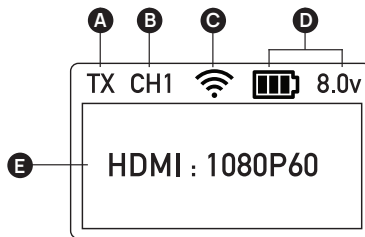
After powering on, the TX and RX devices will continuously scan for available networks. Once a connection is established, the signal strength will be displayed.

### D. Battery Level

The device displays three battery levels along with voltage information to provide an indication of remaining power.

### E. Main Status Information

- **No Video Input:** On startup, if no video input is detected, the display will show "No Video."
- **Video Input Detected:** When an HDMI or SDI input is connected, the device will display the detected video format.
- **Signal Priority and Switching:** The TX unit will automatically lock onto the first detected video signal. To switch between HDMI and SDI inputs, simply remove the current cable and connect the new one; no reboot is required.
- **Wi-Fi ID and Serial Number:** Press the rotary dial to view the Wi-Fi ID for connection purposes, followed by the device's serial number.



## Pairing TX via app (Android or iOS)

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### 1. Display Wi-Fi ID

Press the rotary dial on the TX device until the Wi-Fi ID appears on the display. The name will be in the format "Atomos-AA87" (each TX has a unique identifier).

### 2. Connect to TX Wi-Fi

On your mobile device, navigate to the Wi-Fi settings and select the network corresponding to the TX's Wi-Fi ID.

### 3. Enter Password

Join the network using the default password: 87654321.

### 4. Open App

Once connected, launch the RX app on your mobile device to start using the paired devices.

## Pairing TX/RX

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The TX-RX bundle is pre-paired at the factory and does not require additional pairing. However, if pairing is necessary, follow these steps:

Press and hold the rotary dial on both the TX (transmitter) and RX (receiver) for 5 seconds simultaneously.



Release the dial after 5 seconds. The OLED display will show "Connecting..." during the pairing process.

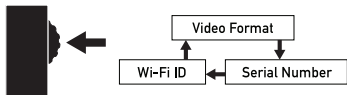
Once successfully paired, Wi-Fi scanning will stop, and the current signal strength will be displayed.

If pairing is unsuccessful, a timeout message will appear on the OLED screen, prompting a return to the main page.

## Rotary Dial selector

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Press the rotary dial to cycle through display options.



## Specifications

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### Power Consumption

TX:4W / RX:4W

### Power Supply

DC 9~16V / Type-C 5V / NPF battery

### Working Frequency

9 x 5GHz Frequency Bands

### Channel Bandwidth

20M/40M

### Debug Mode

OFDM

### I/O

TX:HDMI In and Loopout, SDI In

RX:HDMI Dual-Output; SDI Output

### HDMI Resolutions

4K30, 4K25, 1080P60, 1080I60, 1080P50, 1080I50, 1080P30, 1080P25, 720P60, 720P50 etc.

### SDI Resolutions

1080P60, 1080I60, 1080P50, 1080I50, 1080P30, 1080P25, 720P60, 720P50

### Audio Format

PCM Dual-Channel

### Working Temperature

0~50°C

### Storage Temperature

-40~70°C

### Latency

As fast as 60ms, depending on resolution and frame rate

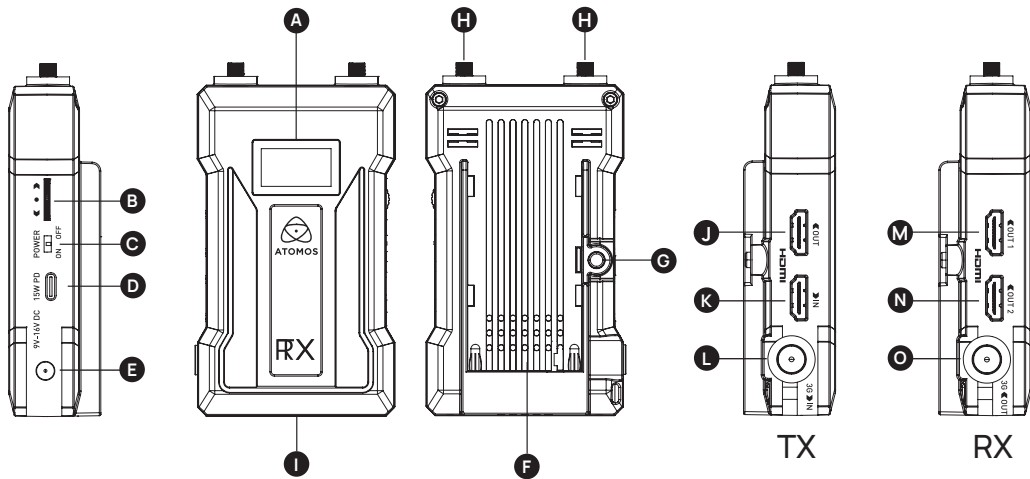
### Transmission Range (Open Conditions)

150-300m

### Size

67mm X 42mm X 120mm

## Hardware Features



- A** OLED Screen
- B** Rotary Control
- C** Power Switch

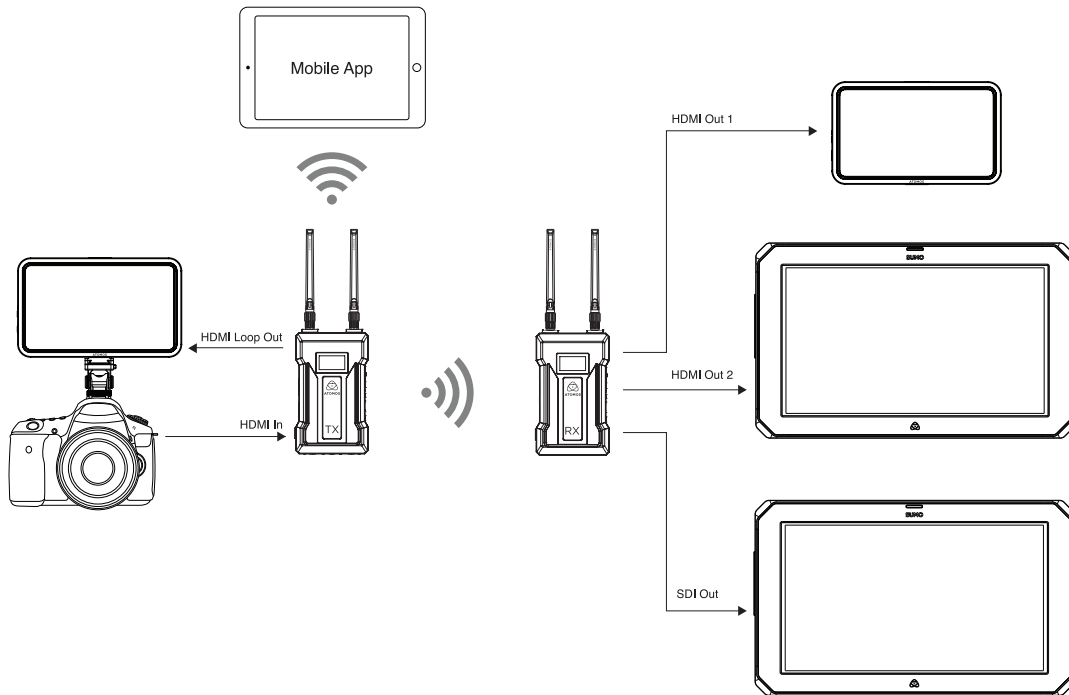
- D** USB-C PD
- E** DC 9-16V In
- F** NP-F Battery Mount

- G** Battery Release
- H** Antenna Screw
- I** 1/4" Screw Mount

- J** TX HDMI Out
- K** TX HDMI In
- L** TX 3G-SDI In

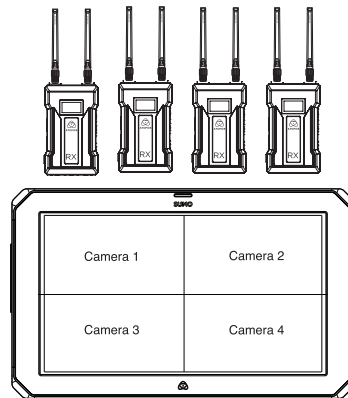
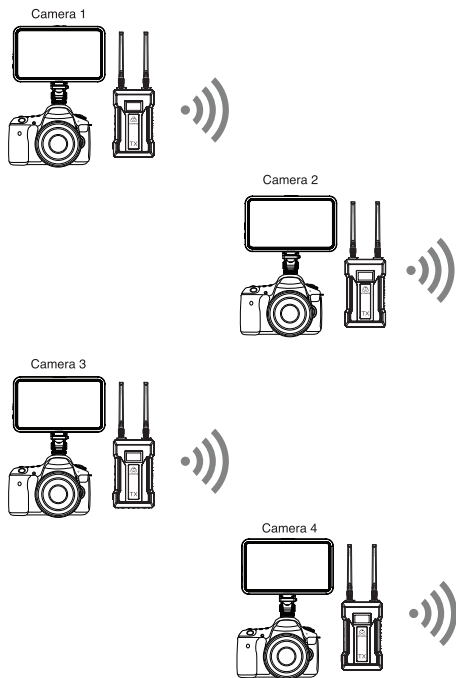
- M** RX HDMI Out 1
- N** RX HDMI Out 2
- O** RX 3G-SDI Out

## Example app and multiple RX output setup



## Example multi-cam setup

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Sumo19 SE

## Troubleshooting

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### Connection Issues

#### Power Check

Ensure the power supply for both the transmitter (TX) and receiver (RX) is functioning properly. Check the power switch is turned on.

#### Battery Condition

If using battery power, confirm it is fully charged. Replace the battery if necessary. For USB-C power, use an adapter with a minimum of 5V 2A. Note: Some USB-C adapters have protocol functions which may disrupt power output.

#### Re-Pairing

If TX and RX fail to connect at close range after multiple attempts (indicated by continuous Wi-Fi icon scanning), re-pair the devices:

### App Connection Issues

#### Wi-Fi Verification

Confirm that Wi-Fi is correctly connected and stable.

#### Internet Access Prompt

If prompted about internet access post connection, select the appropriate option for your network settings.

#### User Agreement Confirmation

Ensure you have agreed to the "User Agreement and Privacy Policy" during setup.

### Playback Problems

#### Video Source Check

If the TX displays "no video" ensure that the HDMI IN port is correctly connected to the video source or camera output.

#### Resolution Adjustment

Confirm that the video or image format from the camera or source matches the system's supported formats.

If the TX shows 3840x2160 (4K) but no display, adjust the camera's HDMI output settings to 1080p. HDMI output resolution is separate from recording settings.

#### HDMI Connection Check

If the RX OLED screen displays the resolution but no video appears on the monitor, check the HDMI cable connection.

Test with a different monitor/cable if issues persist, in case of incompatibility.

### Video/Image Delay

#### HDMI Connection Check

Ensure all HDMI IN/OUT cables are securely connected and are not loose.

#### Signal Strength Adjustment

If the signal is weak, consider changing the frequency band or reducing the distance between TX and RX to improve connectivity.

## Device Management

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To register your ATOMOS TX-RX, visit:

[my.atomos.com/account](https://my.atomos.com/account)

## Support

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If you experience any issues using the TX-RX, or have an unanswered question don't hesitate to reach out.

[atomos.com/support](https://atomos.com/support)