iShare Flip

4K60 Wireless Extenders

User Manual V1.0

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SAFETY INSTRUCTIONS

- Please read these instructions thoroughly before you use the device and keep them for future reference.
- Only for indoor use.
- Do not use the product in a damp environment or near water.
- Do not expose the product to extremely high or low temperatures, strong light sources or direct sunlight.
- This product is not a toy. Keep out of reach of children.
- Connect the adapter to the mains only after you have verified that the line voltage corresponds to the value specified on the type plates.
- Never connect a power adapter if it's damaged. In such cases, please contact your supplier.
- Disconnect the AC/DC power adapter from the mains when this device is not in use for prolonged time.
- Never open the product: the device may contain parts with deadly voltage. Repairs or service should only be performed by qualified personnel.
- Improper use, self-installed modifications or repairs will void all warranties.
- We don’t accept any product responsibility for incorrect use of the product or use other than for which the product is intended.
- We don’t accept liability for any consequential damage other than the legal product responsibility.

1. INTRODUCTION

The **iShare Flip** integrates our advanced hardware codec engine and proprietary seamless communication protocol, offering a user-friendly and highly efficient 4K60 wireless HDMI extender designed for users and applications that demand high-quality wireless video transmission. With ultra-smooth 4K60 streaming, this solution simplifies content sharing by allowing users to effortlessly stream high-definition video from their video source to a projector or large screen—without the need for apps, complex setups, or messy cables.

Whether for professional presentations, educational environments, or home entertainment, the **iShare Flip** delivers exceptional performance and reliability, making it the ideal choice for those who require seamless, high-quality wireless video transmission. Simply connect and click to share.

A standard **iShare Flip** system consists of transmitters and receivers. The receiver is connected to a projector or display, while the transmitter connects to a PC or any device with an HDMI port. Once connected, users simply press the button on the transmitter, and the screen content is wirelessly streamed to the display. Other users can easily switch by clicking the button on their own transmitters.

The product you purchased supports one transmitter to multiple-receivers mode (1-N), and many-transmitters to one receiver mode (N-1), it allows video transmission from a single transmitter to multiple receivers or multiple transmitters to a single receiver simultaneously.

There is no need to worry about software configuration, compatibility issues, Wi-Fi or network setups, or IT support. Our intuitive and powerful solution ensures that anyone can quickly use the system for seamless streaming.

2. KEY FEATURES

- **Ultra Resolution:** Supports 4K60 ultra-resolution transmission.
- **Super Smooth Playback:** Proprietary Seamless Technology ensures smooth video playback.
- **Auto Pairing & Connection:** Automatically establishes a connection using the most favorable Wi-Fi channel to guarantee exceptional wireless performance.
- **Long Coverage:** Transmission distance of up to 30 meters in a clear line of sight.
- **1-N Mode:** supports one transmitter to multiple-receivers mode.
- **N-1 Mode:** supports many-transmitters to one receiver mode.
- **Touch-back Control:** Support controlling the source PC from touch screen.

3. PACKAGE CONTENTS

- Transmitter or Receiver, 1x
- Type- C cable (No cable for iShare Flip-CT), 1x
- User Manual, 1x

4. SPECIFICATION

4.1 TRANSMITTER SPECIFICATION

Model: iShare Flip-HT, iShare Flip-CT

Parameter	Description
CPU	Quad core
HDMI Version	HDMI 2.0/ Type-C (DisplayPort 1.4)
HDCP Version	HDCP 2.2
Input Resolution	2160P/60fps; 1080p/60fps; 1080p/30fps; 1080p/24fps; 1080i/50fps; 1080i/60fps; 720p/30fps; 720p/60fps; 480p/60fps
Transmission Resolution	Up to 2160P/60fps
Audio Format	PCM
Audio Channel	2 channels
Latency	About 100ms
USB KVM	Supports touch panel back control
Wireless Standard	IEEE 802.11a/b/g/n/ac 5.8G
WIFI Frequency	5.150Ghz ~ 5.825Ghz
Frequency Bands	5150-5350MHz; 5470-5725MHz; 5725-5850MHz; 5850-5925MHz Specific frequency usage depends on local regulations (e.g., FCC, CE, etc.).
WIFI Bandwidth	866 Mbps (5GHz only)
Bitrate	Maximum 70 Mbps (actual rate may vary depending on environmental factors)
Channel Width	Supports 20 MHz, 40 MHz, and 80 MHz
RF Power Amplifier	Maximum 17dBm
Security	WPA2-AES128 Advanced Encryption Standard
Antennas	1x 3dBi high-sensitive Antenna
Distance	Up to 100 meters in the clear line of sight

	The distance will be shorter in obstructed environments
I/O Ports	HDMI in x 1; Type C x 1 (for power/data); Button x 1
LED Indicators	2 LEDs (power and status indicators)
Power Supply	5V/2A (USB-powered)
Power Consumption	10 W
Dimension	195x37x16.5mm
Weight	64g
Operating Temperature	-20°C to +40°C
Storage Temperature	-20°C to +60°C
Operating Humidity	10% to 80% relative humidity
Storage Humidity	5% to 90% relative humidity

4.2 RECEIVER SPECIFICATION

Model: iShare Flip-HR

Parameter	Description
CPU	Quad core Cortex A53@1.5GHz
HDMI out Version	HDMI 2.0
HDCP Version	HDCP 2.2
Output Resolution	Up to 2160/60fps
Audio Format	PCM
Audio Channel	2 channels
Latency	About 100ms
USB KVM	Supports touch panel back control
Wireless Standard	IEEE 802.11a/b/g/n/ac 5.8G
WIFI Frequency	5.150Ghz ~ 5.825Ghz
Frequency Bands	5150-5350MHz; 5470-5725MHz; 5725-5850MHz; 5850-5925MHz Specific frequency usage depends on local regulations (e.g., FCC, CE, etc.).
WIFI Bandwidth	866 Mbps (5GHz only)
Bitrate	Maximum 70 Mbps (actual rate may vary depending on environmental factors)
Channel Width	Supports 20MHz, 40MHz, and 80MHz
RF Power Amplifier	Maximum 17dBm
Security	WPA2-AES128 Advanced Encryption Standard
Antennas	1x 3dBi high-sensitive Antenna
Distance	Up to 100 meters in the clear line of sight The distance will be shorter in obstructed environments
I/O Ports	HDMI out x 1; Type C x 1 (for power/data); Button x 1

LED Indicators	2 LEDs (power and status indicators)
Power Supply	5V/2A (USB-powered)
Power Consumption	5W
Dimension	195x37x16.5mm
Weight	50g
Operating Temperature:	-20°C to +40°C
Storage Temperature:	-20°C to +60°C
Operating Humidity:	10% to 80% relative humidity
Storage Humidity:	5% to 90% relative humidity

4.3 5GHZ RF SPECIFICATION

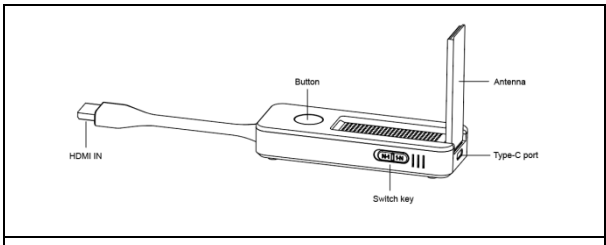
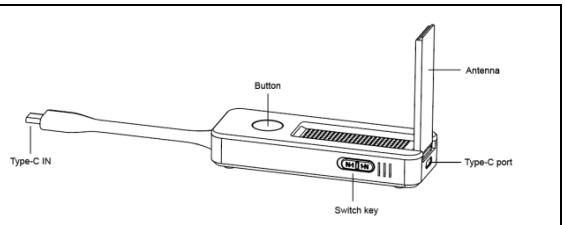
Output Power	802.11n HT20 /MCS0: 16 dBm ± 2 dB @ EVM ≤ -5dB 802.11n HT20 /MCS7: 13 dBm ± 2 dB @ EVM ≤ -28dB
	802.11n HT40 /MCS0: 16 dBm ± 2 dB @ EVM ≤ -5dB 802.11n HT40 /MCS7: 13dBm ± 2 dB @ EVM ≤ -28dB
	802.11ac VHT20 /MCS0: 16 dBm ± 2 dB @ EVM ≤ -5dB 802.11ac VHT20 /MCS8: 13 dBm ± 2 dB @ EVM ≤ -30dB
	802.11ac VHT40 /MCS0: 16 dBm ± 2 dB @ EVM ≤ -5dB 802.11ac VHT40 /MCS9: 12 dBm ± 2 dB @ EVM ≤ -32dB
	802.11ac VHT80 /MCS0: 16 dBm ± 2 dB @ EVM ≤ -5dB 802.11ac VHT80 /MCS9: 12 dBm ± 2 dB @ EVM ≤ -32dB

Sensitivity (11n,20MHz) @10% PER	- MCS=0 PER @ -89 dBm, typical
	- MCS=1 PER @ -86 dBm, typical
	- MCS=2 PER @ -84 dBm, typical
	- MCS=3 PER @ -81 dBm, typical
	- MCS=4 PER @ -77 dBm, typical
	- MCS=5 PER @ -72 dBm, typical
	- MCS=6 PER @ -71 dBm, typical
	- MCS=7 PER @ -68 dBm, typical
Sensitivity (11n,40MHz) @10% PER	- MCS=0 PER @ -86 dBm, typical
	- MCS=1 PER @ -83 dBm, typical
	- MCS=2 PER @ -81 dBm, typical
	- MCS=3 PER @ -78 dBm, typical
	- MCS=4 PER @ -74 dBm, typical
	- MCS=5 PER @ -70 dBm, typical
	- MCS=6 PER @ -68 dBm, typical
	- MCS=7 PER @ -67 dBm, typical
Sensitivity (11ac,20MHz) @10% PER	- MCS=0, NSS1 PER @ -87 dBm, typical
	- MCS=1, NSS1 PER @ -85 dBm, typical
	- MCS=2, NSS1 PER @ -83 dBm, typical
	- MCS=3, NSS1 PER @ -80 dBm, typical
	- MCS=4, NSS1 PER @ -76 dBm, typical
	- MCS=5, NSS1 PER @ -71 dBm, typical
	- MCS=6, NSS1 PER @ -70 dBm, typical
	- MCS=7, NSS1 PER @ -69 dBm, typical
	- MCS=8, NSS1 PER @ -65 dBm, typical

Sensitivity (11ac,40MHz) @10% PER	- MCS=0, NSS1 PER @ -85 dBm, typical
	- MCS=1, NSS1 PER @ -82 dBm, typical
	- MCS=2, NSS1 PER @ -80 dBm, typical
	- MCS=3, NSS1 PER @ -77 dBm, typical
	- MCS=4, NSS1 PER @ -74 dBm, typical
	- MCS=5, NSS1 PER @ -69 dBm, typical
	- MCS=6, NSS1 PER @ -68 dBm, typical
	- MCS=7, NSS1 PER @ -67 dBm, typical
	- MCS=8, NSS1 PER @ -62 dBm, typical
	- MCS=9, NSS1 PER @ -58 dBm, typical
Sensitivity (11ac,80MHz) @10% PER	- MCS=0, NSS1 PER @ -82 dBm, typical
	- MCS=1, NSS1 PER @ -79 dBm, typical
	- MCS=2, NSS1 PER @ -77 dBm, typical
	- MCS=3, NSS1 PER @ -73 dBm, typical
	- MCS=4, NSS1 PER @ -70 dBm, typical
	- MCS=5, NSS1 PER @ -67 dBm, typical
	- MCS=6, NSS1 PER @ -65 dBm, typical
	- MCS=7, NSS1 PER @ -63 dBm, typical
	- MCS=8, NSS1 PER @ -59 dBm, typical
	- MCS=9, NSS1 PER @ -55 dBm, typical

5. PRODUCT OVERVIEW

5.1 TRANSMITTER OVERVIEW

	
HDMI version: **iShare Flip-HT**	USB C version: **iShare Flip-CT**

Our transmitter is available in two versions:

- HDMI version
- Type-C (Display Port 1.4) version

Both versions share the same buttons, LED indicators, antenna, and power port. Please read the notes below carefully for correct usage.

(1) VIDEO INPUT

- **HDMI version:** Connect to the HDMI port of the source device.
- **Type-C (Display Port 1.4) version:** Connect to the Type-C port of the source device.

Note: The source device must support Display Port over Type-C (DP 1.4 or DP 1.2). If the device does not support Display Port output, no video will be displayed.

(2) BUTTON

Short press to start streaming; long press for **5 seconds** to reset.

Button Function Definitions	Description
Single click	Start streaming /Stop streaming
Long Press 5 seconds	Reset

(3) LED INDICATOR

The LED indicator shows the status of the transmitter.

LED indicator	Description
Static red	Transmitter is booting on

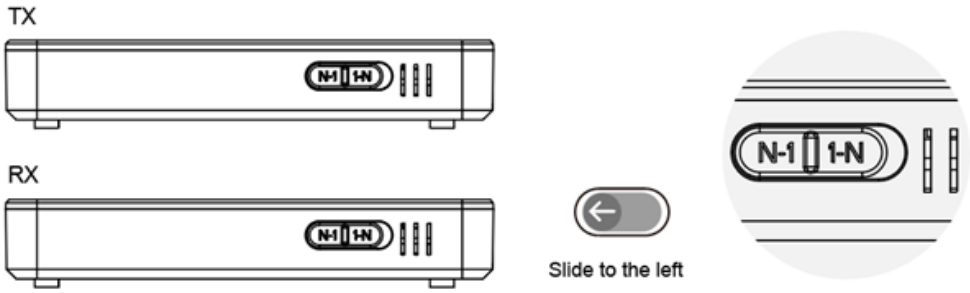
Flashing red	Searching for receiver
Flashing blue	Waiting for connection
Static blue	Connected and start presenting
Flashing purple	No video input

(4) SWITCH KEY

The transmitter and receiver support two operating modes: **N-to-1 mode** and **1-to-N mode**.

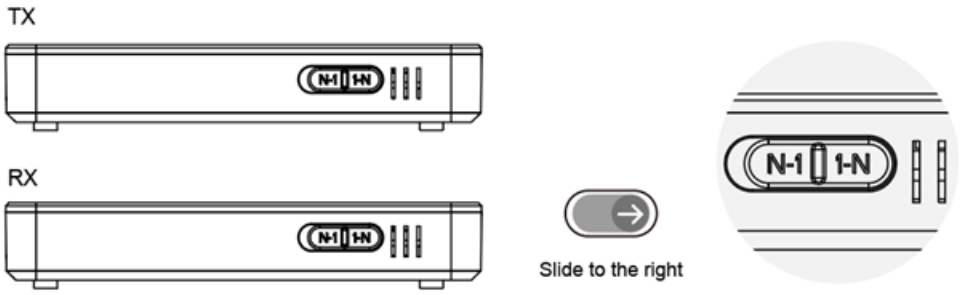
Important: *If the TX and RX switch buttons are not set to the same mode, the devices will not connect.*

N-to-1 mode:



Multiple transmitters (TX) can wirelessly stream to a single receiver (RX). Both the TX and RX switch buttons must be set to **N-to-1 mode** for proper operation.

1-to-N mode:



A single transmitter (TX) can wirelessly stream to up to **four receivers (RXs)**

simultaneously. Both the TX and RX switch buttons must be set to **1-to-N mode** for proper operation.

In this mode, the wireless transmission range will be reduced depending on the number of receivers connected:

- 1-to-1: up to ~100 meters (line of sight, no interference)
- 1-to-2: up to ~50 meters
- 1-to-3: up to ~25 meters
- 1-to-4: up to ~10 meters

Transmission distance is highly dependent on the surrounding environment. For best performance, always fully extend the foldable antenna.

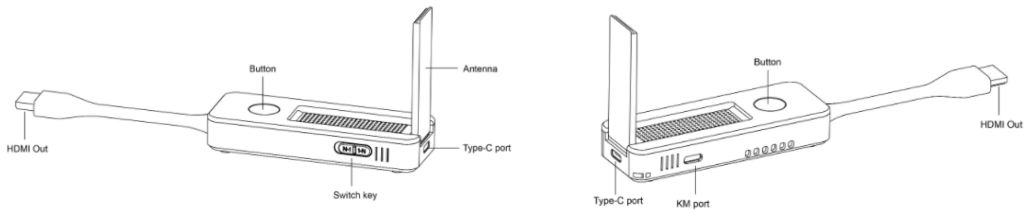
(5) POWER SUPPLY (REAR TYPE-C PORT)

The **rear Type-C port** is dedicated to power supply only.

HDMI version: Must be powered by an external power supply through the rear Type-C port. Please ensure the adapter provides **5V/2A** for optimal performance.

Type-C (Display Port 1.4) version: Normally powered directly from the source device via the Type-C video input connection. If the source device cannot provide sufficient power, connect an external **5V/2A** adapter to the rear Type-C power port.

5.2 RECEIVER OVERVIEW



(1) HDMI OUT: Connect with monitor or projector.

(2) BUTTON: Long press 9s for factory reset

(3) LED: The detailed status of the LED is outlined in the table below.

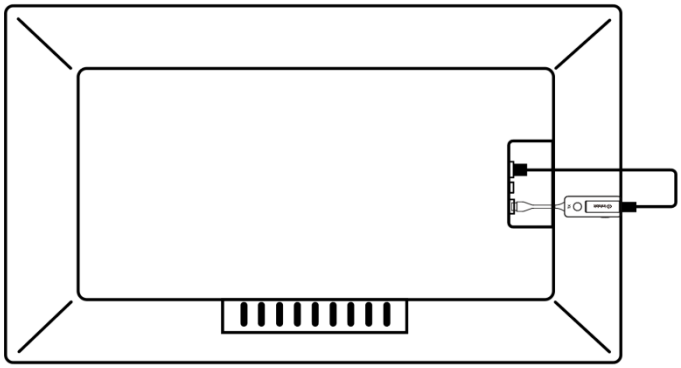
LED indicator	Description
Flashing blue	Waiting for connection
Static blue	Connected and start to present

(4) SWITCH KEY: Switch N-1 mode or 1-N mode

(5) KM PORT: KM function (Keyboard/ Mouse / Touch Panel)

(6) TYPE-C PORT: The Type-C port is used to connect an external power supply, ensure the power supply provides 5V/2A for optimal performance.

6. RECEIVER INSTALLATION



(1) Connect the receiver to the HDMI port of your display device.

(2) Power the receiver by connecting its Type-C port to the TV's USB port using the provided USB cable.

Note: The receiver requires a power supply of approximately 5V/2A. If your TV cannot provide sufficient power, please use an external power adapter to ensure proper operation.

7. PAIRING

Before using the system, always ensure that the **transmitter (TX) and receiver (RX) are set to the same operating mode** (N-to-1 mode or 1-to-N mode).

If the devices are in the same mode but cannot connect, they have not been paired in advance. In this case, pairing is required.

Important: The system supports both ***N-to-1 mode*** and ***1-to-N mode***, and each mode requires a separate pairing process.

7.1 HOW TO CHECK PAIRING STATUS

- If the TX and RX are set to the same mode but the TX LED keeps flashing red continuously, this indicates that the TX and RX are not paired.
- In this case, follow the pairing instructions below.

7.2 N-TO-1 MODE PAIRING

In this mode, multiple transmitters (TXs) can connect to a single receiver (RX).

1. Set both the TX and RX switch buttons to **N-to-1 mode**.
2. Connect the RX to the display and power it on.
3. Connect the TX to the video source.
4. When the TX LED flashes red, press and hold the **TX button for about 8 seconds** until the LED flashes rapidly in red. This indicates the TX has entered pairing mode.
5. Release the button, and the TX will restart and attempt to connect with the RX.
6. After successful pairing, the TX will automatically begin streaming to the RX.

7.3 1-TO-N MODE PAIRING

In this mode, a single transmitter (TX) can connect to up to four receivers (RXs).

1. Set both the TX and RX switch buttons to 1-to-N mode.
2. Connect the RX to the display and power it on.
3. Connect the TX to the video source.
4. When the RX is ready, press and hold the **RX button for about 8 seconds** until the RX enters pairing mode.
5. The RX will search for the TX and establish a connection.

6. After successful pairing, the TX will automatically begin streaming to the RX(s).

7.4 ADDITIONAL NOTES

- Users may choose to pair both modes (N-to-1 and 1-to-N) in advance. Once paired, switching between modes will allow the devices to connect automatically without repeating the pairing process.
- Pairing may take up to **1 minute** depending on the environment.
- If the TX and RX are not set to the same mode, the devices will not connect.
- In **N-to-1 mode**, pairing must be initiated from the **TX side**.
  In **1-to-N mode**, pairing must be initiated from the **RX side** (long-press RX button).

8. START STREAMING

Before streaming, always make sure that the transmitter (TX) and receiver (RX) are set to the same operating mode (N-to-1 or 1-to-N). If the TX and RX are not in the same mode, the devices will not connect.

Power Supply Reminder

- **HDMI version** → Must be powered via the rear Type-C power port. Please connect to a 5V/2A power adapter.
- **Type-C (Display Port 1.4) version** → Normally powered directly from the source device via the Type-C video input port. If the source device cannot provide sufficient power, connect an external 5V/2A adapter to the rear Type-C power port.

8.1 N-TO-1 MODE STREAMING

In this mode, multiple transmitters (TXs) can wirelessly project to a single receiver (RX).

1. Set both the TX and RX switch buttons to N-to-1 mode.
2. Connect the RX to the display device and power it on.
3. Connect the TX to your PC or video source as described in the Power Supply Reminder above.

4. The TX LED will turn red, then change to flashing blue.
5. Press the TX button once to start streaming. The PC screen will be transmitted to the RX.
6. If multiple TX units are paired, pressing the button on any TX will switch the display to that PC's screen.

8.2 1-TO-N MODE STREAMING

In this mode, one transmitter (TX) can project wirelessly to up to four receivers (RXs).

1. Set both the TX and RX switch buttons to 1-to-N mode.
2. Connect each RX to its display device and power it on.
3. Connect the TX to your PC or video source as described in the Power Supply Reminder above.
4. The TX LED will turn red, then change to flashing blue.
5. Press the TX button once to start streaming. The PC screen will be transmitted to all paired RX units simultaneously.

NOTES

1. If you encounter connection issues, are using an additional TX, or need to connect with a different RX, please perform pairing first (see **SECTION 7: PAIRING**)
2. In **N-to-1 mode**, pairing must be initiated from the **TX side**.
   In **1-to-N mode**, pairing must be initiated from the **RX side** (long-press RX button).
3. Wireless transmission distance depends on the mode, number of RX units, and surrounding environment. Always fully extend the foldable antenna for best performance.

9.TOUCH PANEL BACK CONTROL

9.1 ABOUT TOUCH BACK CONTROL

iShare Flip supports touch panel back control function when connecting with the touch panel, user can touch the screen to control the PC easily, eliminating the need

for a mouse or keyboard. You can manage data with your finger or a specified stylus, ensuring that technical limitations no longer disrupt your meeting flow. With a simple tap, you can switch slides, open presentations, share emails, or start videos.

9.2 HOW TO USE TOUCH BACK CONTROL

Step 1: Connect the receiver to the display with a touch panel and connect the USB cable (for touch functionality) between the receiver and the display. Please connect the “KM” USB C port at the side.

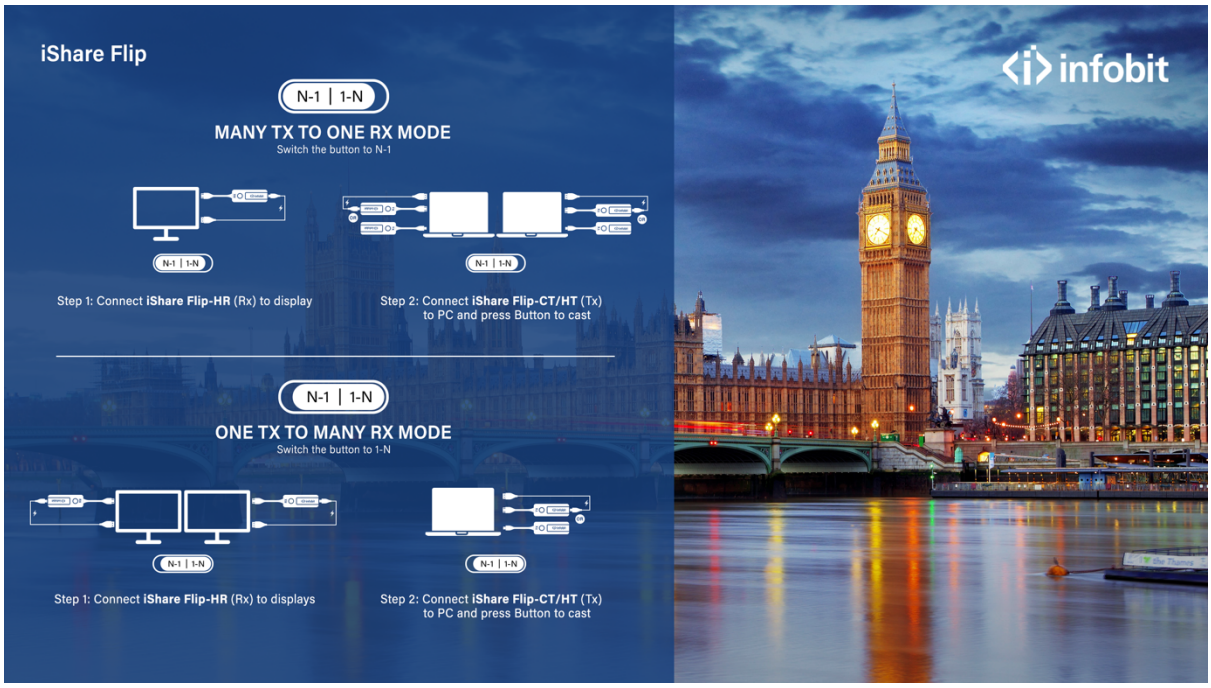
Step 2: For HDMI transmitter, connect the transmitter to the PC using a Type-c cable. For Type C transmitter, there is no need to connect a Type-c cable with PC.

Step 3: Click the touch panel to control the PC.

10. GUIDE SCREEN

There is one guide screen to show the quick connection instructions.

Note: The guide screen is by default in factory, does NOT support to change by the users.



11. FAQ

11.1 Transmitter LED Indicator Stays Constant Red

If the transmitter's LED indicator remains constant red for more than 30 seconds, it indicates that the device did not boot up successfully.

POSSIBLE CAUSE:

While the transmitter's HDMI IN port supports power delivery, the video source's HDMI port may not provide sufficient power. Insufficient power can prevent the transmitter from booting up properly.

SOLUTION:

To ensure stable operation, always connect the USB power supply to the transmitter, even if the HDMI IN port is in use.

11.2 The transmitter's LED indicator is flashing red continuously

Please follow below steps to troubleshoot the issue:

1) Place the transmitter and receiver close to each other.

2) Make sure you power the transmitter separately via type C cable with sufficient 5V2A power supply,

3) Verify that the Receiver is powered on and displaying the main interface.

4) If the Receiver is on and the transmitter indicator has been flashing red for more than three minutes, it indicates that the devices are not paired. Please refer to section, "Pairing a Transmitter and Receiver," in the manual to re-establish pairing.

11.3 The transmitter's LED indicator is flashing purple continuously

If the transmitter's LED indicator is flashing purple, it indicates that the transmitter and receiver are successfully paired, but the transmitter is not detecting a video source from the HDMI input.

POSSIBLE CAUSE:

1) Incompatible resolution settings between the video source and the transmitter.

2) A faulty HDMI port on the video source device.

SOLUTION:

1) Adjust the video source's output resolution to match the supported resolutions listed in the transmitter's specifications.

2) If the issue persists, test the transmitter with a different video source.

11.4 Video stuttering when plays video

The product supports 5.8G Wi-Fi transmission and incorporates our unique anti-interference technology, allowing it to function smoothly up to 100 meters in clear line of sight. However, in areas with high interference, the transmission range may be significantly reduced.

(1) Ensure that both the transmitter and receiver are used within the same space, maintaining within 30 meters, with no walls or other obstacles in between.

(2) Too much distance or obstacle between transmitter and receiver.
Try using shorter distances.

(3) Restart both the TX and RECEIVER devices. Upon reboot, the TX and RECEIVER will automatically seek the best channel to connect under interference conditions.

11.5 I do have picture, but no (or bad) sound

The product supports up to 2CH PCM stereo. Check the audio setting in the settings menu of the connected HDMI source and manually set it to 2CH PCM stereo when the automatic setting does not work.

11.6 High Latency When Streaming 4K30 Video

When streaming 4K30 video, you may experience higher latency compared to 1080P60.

Since at 30 frames per second (fps), each frame has twice the latency compared to 60 fps. This results in an overall increase in transmission latency. If low latency is critical for your application, we recommend switching the video source resolution to 1080P60. This will significantly reduce latency and improve performance.

Q: The transmitter and receiver do not connect even though both devices are powered on.
A: Please check that both the TX and RX are set to the **same operating mode** (N-to-1 or 1-to-N). If the LED on the TX keeps flashing red in the same mode, the devices are not paired. Please refer to *Pairing a Transmitter and Receiver* section.

Q: Do I always need to use the external power supply for the transmitter?
A:

- **HDMI version** → Yes, the transmitter must always be powered via the rear Type-C port with a 5V/2A adapter.
- **Type-C version** → In most cases, the transmitter is powered directly from the source device. If the source device does not provide sufficient power, please connect an external 5V/2A adapter to the rear Type-C port.

Q: Why is the wireless transmission distance shorter than expected?
A: The actual distance depends on the environment and the selected mode:

- 1-to-1: up to 100 m (line of sight, no interference)
- 1-to-2: ~50 m
- 1-to-3: ~25 m
- 1-to-4: ~10 m
  For best performance, always fully extend the foldable antenna and avoid walls or interference sources.

Q: My source device has a Type-C port, but I get no image when using the Type-C transmitter.
A: The source device must support Display Port over Type-C (DP Alt Mode, version 1.4 or 1.2). If your device does not support Display Port output, the transmitter will not display video.