iShare Flip

4K60 Wireless Extenders

Datasheet V1.0

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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

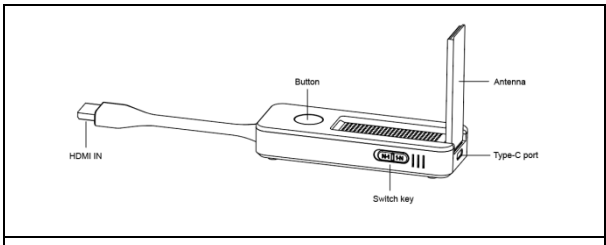
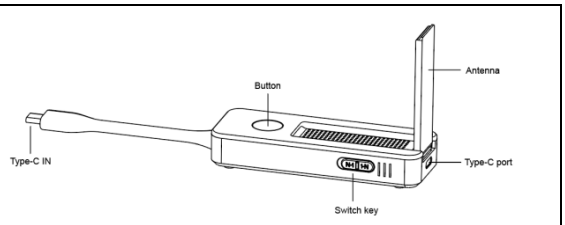
Output Power	802.11n HT20 /MCS0: 16 dBm ± 2 dB @ EVM ≤ -5dB 802.11n HT20 /MCS7: 13 dBm ± 2 dB @ EVM ≤ -28dB
	802.11n HT40 /MCS0: 16 dBm ± 2 dB @ EVM ≤ -5dB 802.11n HT40 /MCS7: 13dBm ± 2 dB @ EVM ≤ -28dB
	802.11ac VHT20 /MCS0: 16 dBm ± 2 dB @ EVM ≤ -5dB 802.11ac VHT20 /MCS8: 13 dBm ± 2 dB @ EVM ≤ -30dB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

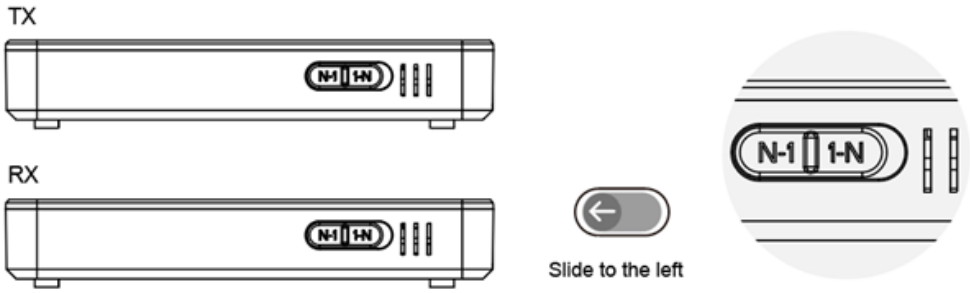
Flashing red	Searching for receiver
Flashing blue	Waiting for connection
Static blue	Connected and start presenting
Flashing purple	No video input

(4) SWITCH KEY

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

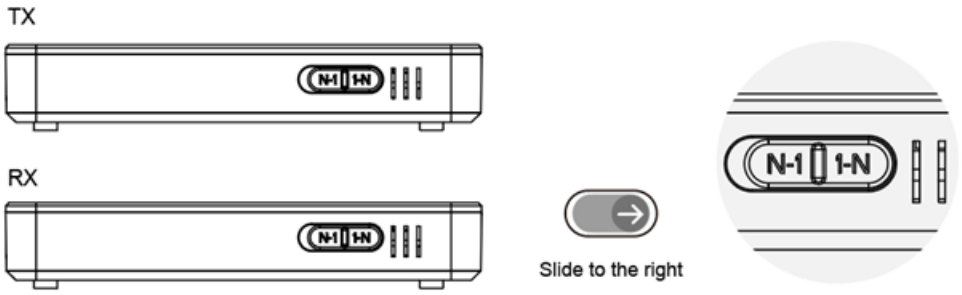
Important: *If the TX and RX switch buttons are not set to the same mode, the devices will not connect.*

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.

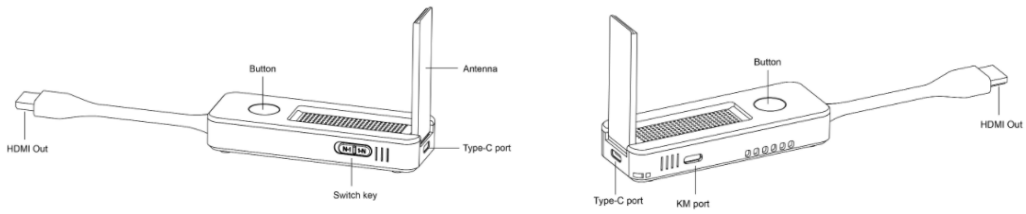
(5) POWER SUPPLY (REAR TYPE-C PORT)

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.