



Pyro Ultra

User Manual

V0.1

Preface

Thank you for choosing the Pyro Ultra Wireless High-Definition Video Transmission System. This product features the latest image encoding and decoding technology, combined with dual-band (5G & 2.4G) wireless transmission technology, enabling ultra-low latency video transmission.



Scan the QR code to access the full user manual on our website.

Key Features

■ Key Features

Core Technology Strength

- **Proprietary TWiFi Transmission Technology:** Supports efficient one-to-many video transmission in broadcast mode, delivering optimal performance for up to ten receivers. Integrated with a dynamic frequency management system that automatically selects the best available channels at startup, enabling seamless automatic frequency hopping for interference resistance, while maintaining stable signal transmission even in complex environments.

Transmission Performance

- **Ultra-low Latency Transmission:** Achieves ultra-low latency of 22ms for 1080p60 signals in interference-free environments, meeting the demands of professional real-time monitoring.
- **Ultra-long Transmission Range:** In non-broadcast mode, supports up to 1.5 km line-of-sight wireless transmission (in open environments). Seamless cross-system coordination is available when paired with our Pyro-series devices.

Full HD Compatibility

- **Multi-interface UHD Support:**
 - HDMI Port: Supports 4K60 ultra-high-definition video transmission.
 - SDI Port: Supports stable 1080p high-definition signal transmission, compatible with broadcast equipment.
- **Flexible Streaming Solutions:** The receiver supports 4K60 UVC plug-and-play streaming and 1080p RTMP protocol streaming, ensuring instant compatibility with mainstream live streaming platforms.

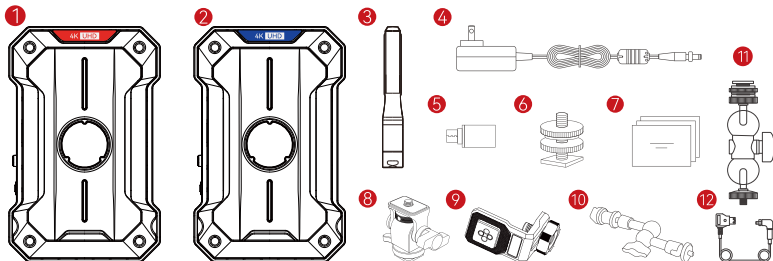
Professional Adaptability

- **Dynamic Frequency Selection Certification:** Certified for DFS (Dynamic Frequency Selection), automatically avoids radar frequency interference and complies with worldwide spectrum regulations.
- **Multiple Power Supply Options:** Supports three power modes: locking DC input, NP-F lithium battery, and optional V-mount/Gold-mount battery plates, meeting the needs of both outdoor mobile use and fixed installations.

Ecosystem Compatibility

- **Seamless Pyro-series Integration:** In non-broadcast mode, fully compatible with Pyro-series devices, enabling system-level collaborative operation across ecosystem devices and building a flexible, scalable wireless transmission matrix.
- * **Note:** All specifications are based on official Hollyland laboratory test data

Package Contents



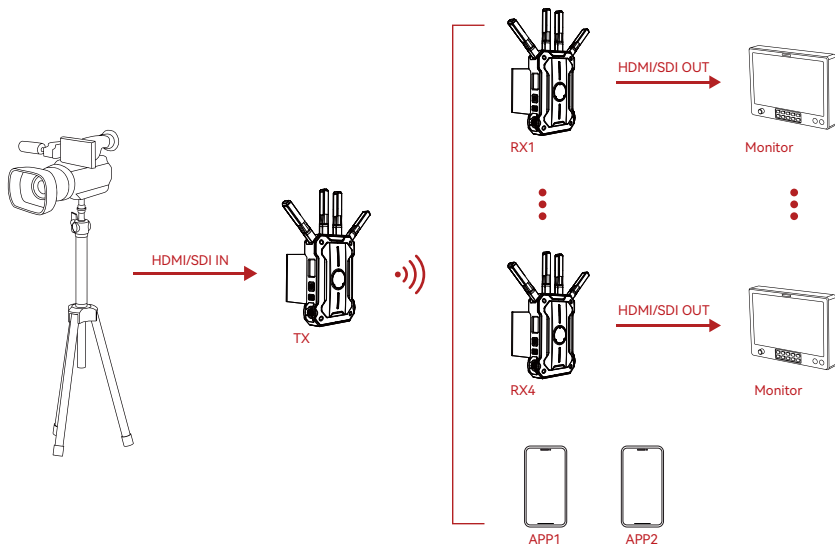
SKU Package Options	1TX & 1RX	1TX & 2RX	1TX	1RX
① Transmitter	1	1	1	-
② Receiver	1	2	-	1
③ Easy-Install Antenna	9	13	5	5
④ DC Power Adapter 12V/2A	1	1	-	1
⑤ OTG Adapter	1	1	1	1
⑥ Cold Shoe	-	-	1	-
⑦ Quick Guide & Packing List Card & Warranty Card	1	1	1	1
⑧ Rotatable Cold Shoe Mount	-	-	-	-
⑨ Screw Fitting for Stabilizer	-	-	-	-
⑩ Magic Arm	-	-	-	-
⑪ Double Ball Head with Cold Shoe Mount	1	1	-	-
⑫ D-Tap to Locking DC Power Adapter Cable x1	1	1	-	-

Note: 1. The quantity and appearance of accessories may vary depending on the purchased package configuration. Please refer to the actual packing list included with your purchase.

2. Items ③, ④, ⑧, ⑨ and ⑩ are available for optional purchase on Hollyland official website if needed.

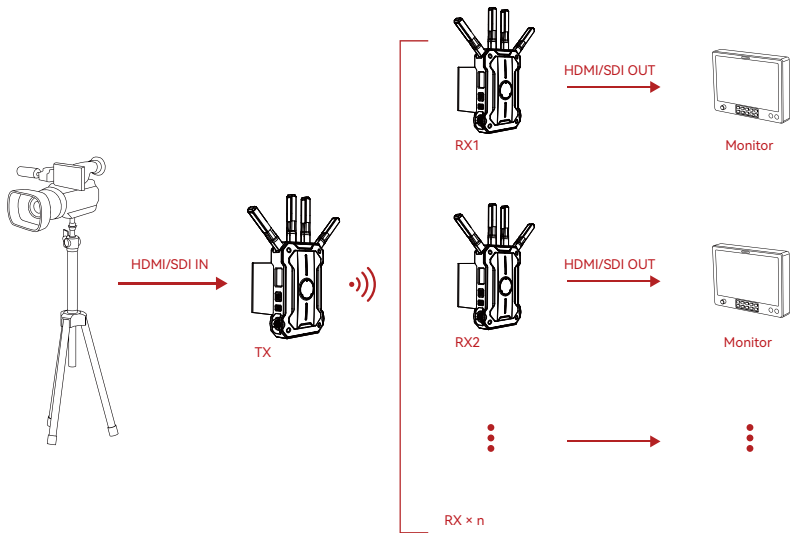
System Connection

■ Non-broadcast: 1TX & 4RXs + 2 APPs



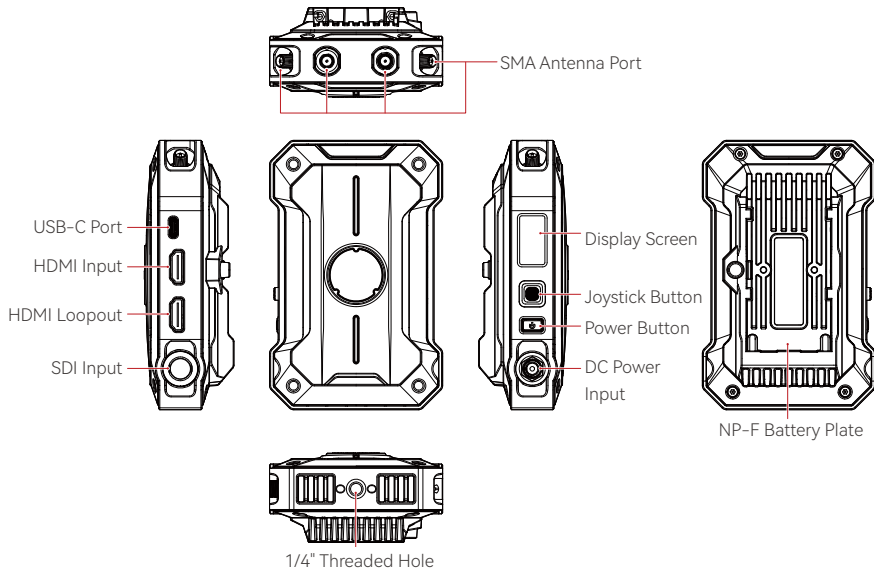
System Connection

Broadcast: 1TX & Unlimited RXs



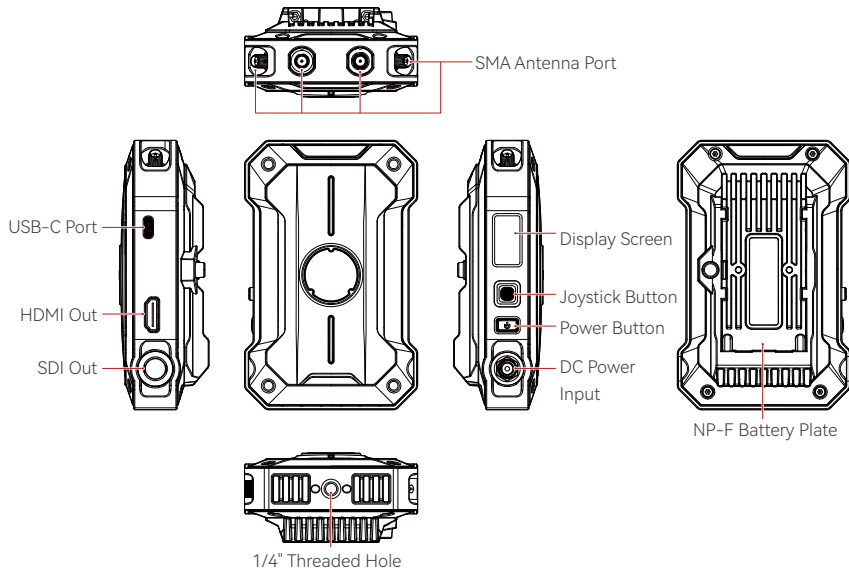
Ports & Controls

Transmitter



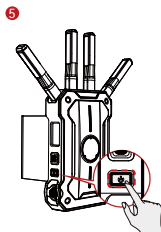
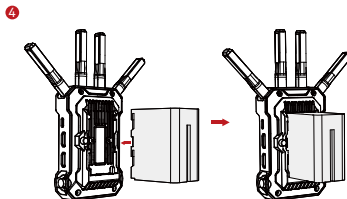
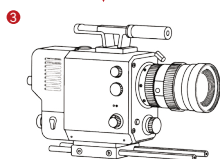
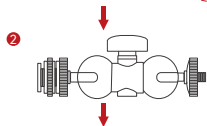
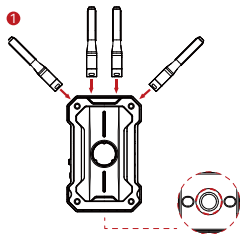
Ports & Controls

Receiver



Product Installation

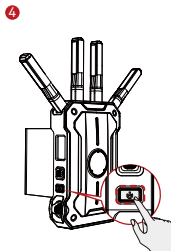
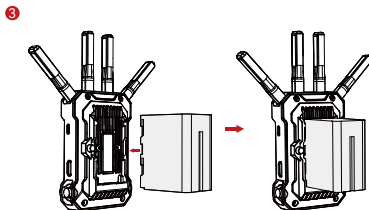
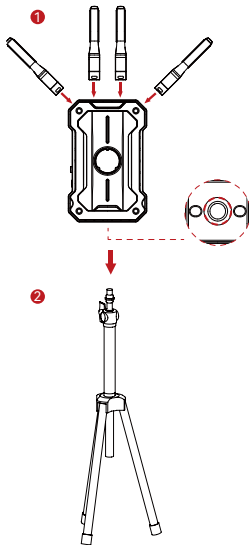
Transmitter Installation



1. Install the antennas according to the indicated orientation.
2. Mount the transmitter to the camera using the double ball head with cold shoe mount.
3. Connect the transmitter to the camera via HDMI or SDI cables.
4. Install the battery (compatible with NP-F970 or equivalent series batteries).
5. Press the power button to turn on the device.

Product Installation

Receiver Installation



1. Install the antennas according to the indicated orientation.
2. Mount the receiver to the stand using the 1/4" threaded hole at the bottom.
3. Install the battery (compatible with NP-F970 or equivalent series batteries).
4. Press the power button to turn on the device.

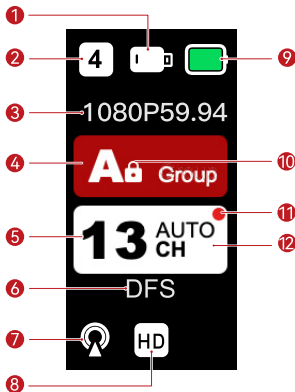
Quick Start

Entering the Menu

Press and hold the joystick button for 3 seconds to enter the menu interface. Move the joystick up or down to navigate through the menu options. Press the joystick button to confirm the selection.

Page Details

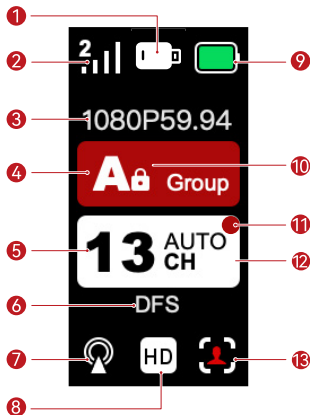
■ Transmitter Home Page



Transmitter Home Page	
① USB-C Connection	⑥ DFS
② Receiver Connection Count	⑦ Broadcast Mode
③ Resolution	⑧ HD Mode
④ Current Group	⑨ Battery Level
⑤ Current Channel	⑪ Channel Status
⑩ Press and hold the Joystick Button upward to activate group lock. Once enabled, other receivers will no longer be able to join this group	
⑫ Move the Joystick Button up or down to select "AUTO" to enable seamless auto frequency hopping	

Quick Start

Receiver Home Page



Receiver Home Page	
① USB-C Connection	⑦ Broadcast Mode
② Camera No. & Signal	⑧ HD Mode
③ Resolution	⑨ Battery Level
④ Current Group	⑪ Channel Status
⑤ Current Channel	⑬ Focus Mode
⑥ DFS	
⑩ Press and hold the Joystick Button upward to activate group lock. Once enabled, other receivers will no longer be able to join this group	
⑫ Move the Joystick Button up or down to select "AUTO" to enable seamless auto frequency hopping	

Quick Start

Function Overview

Transmitter Function Overview



Scene Mode

Provides optimized presets based on different shooting scenarios



Group Pairing

Transmitters and receivers in the same group will automatically pair



Fan Settings

Selects different fan modes to meet heat dissipation needs



Broadcast Mode

When enabled, one transmitter can connect to unlimited receivers. Optimal performance is achieved with up to 10 receivers



System Settings

Views device-related information and configures settings



Back



HD Mode

Fixed at 8~12 Mbps bitrate



Smooth Mode

Extends transmission range while maintaining latency as low as 22ms



Freeze Frame

When enabled, the receiver will display the last transmitted frame if the signal is interrupted



Language

Switches the language between Chinese and English



Network Info

Views WiFi name (SSID) and password



Version Info

Views system version information



Reset

Resets to default settings

Quick Start

Function Overview

Receiver Function Overview



Frequency Scan

Displays the signal quality of available channels. Allows the user to select the optimal channel or activate automatic frequency hopping



Group Pairing

Transmitters and receivers in the same group will automatically pair



Language

Switch the language between Chinese and English



Fan Settings

Selects different fan modes to meet heat dissipation needs



Network Info

Views WiFi name (SSID) and password



Focus Mode

Only one receiver within a group can have Focus Mode enabled at a time. When enabled, transmission latency can be as low as 22 ms, depending on the environment. Other receivers in the same group will keep the same



System Settings

Views device-related information and configures settings



Version Info

Views system version information



Back



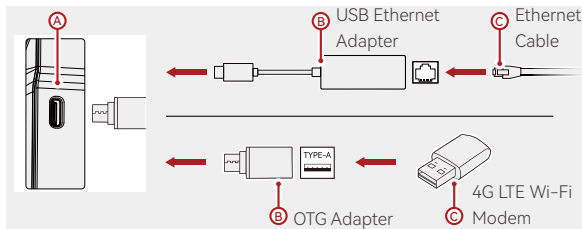
Reset

Resets to default settings

Quick Start

Receiver Streaming Overview

RTMP Streaming



Operation Steps:

1. Connect the receiver to a data-enabled 4G LTE Wi-Fi Modem or a wired Ethernet connection using the OTG adapter;
2. Check the USB-C port indicator for connection status:

Network Status:



Streaming Status:



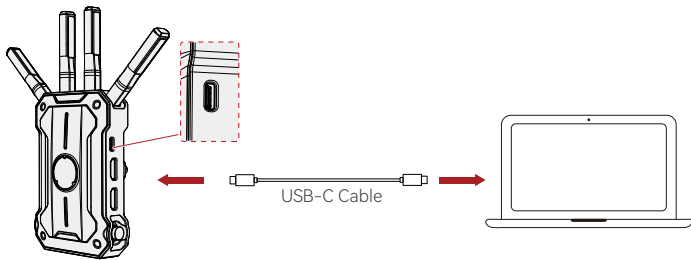
Streaming Interrupted:



3. Enter the streaming URL via the HollyView app, then start streaming.

Quick Start

UVC Streaming



Operation Steps:

1. Connect the receiver (already receiving video signals) to the computer via a USB-C cable;
2. Open your streaming software (e.g., OBS) and check if a new video source has been added;
3. Select the video source and start streaming.

Quick Start

■ APP Installation and Connection

1. HollyView APP Download



2. APP Connection Guide

On your mobile device, go to WiFi settings and select the device WiFi network (SSID: HLD + Device ID). Enter the WiFi password or scan the QR code on the transmitter body using the APP to establish connection. (Default password: 12345678. If the WiFi password has been changed, QR code scanning will not work). Once connected, open the APP to start video monitoring.

Product Specifications

	Transmitter	Receiver
Model	Pyro Ultra	
Product Name	Wireless Video Transmission System	
Interfaces	DC IN: 2.0 Barrel Connector HDMI IN: HDMI 2.0 HDMI LOOPOUT: HDMI 2.0 SDI IN: 3G SDI Type-C: USB 2.0 Antenna: SMA Male Connector	DC IN: 2.0 Barrel Connector HDMI OUT: HDMI 2.0 SDI OUT: 3G SDI Type-C: USB 3.0 Antenna: SMA Male Connector
Power Supply Voltage Range	Battery Power Input: 6.8-8.4V DC Power Input: 6-16V	
Power Consumption	Non-broadcast: 11W Broadcast: 14W	7W
Net Weight	320g	
Dimensions	(L*W*H): 124.5*80*34.9mm	
RX Sensitivity	/	Non-broadcast: -85dBm; Broadcast: -80dBm

Product Specifications

	Transmitter	Receiver
Input/Output Video Formats	• HDMI: 720p50/59.94/60 1080p23.98/24/25/29.97/30 1080p50/59.94/60 4k(3840*2160)23.98/24/25/29.97/30 4k(3840*2160)50/59.94/60 • SDI: 720p50/59.94/60 1080i50/59.94/60 1080p23.98/24/25/29.97/30 1080p50/59.94/60	• HDMI: 720p50/59.94/60 1080p23.98/24/25/29.97/30 1080p50/59.94/60 4k(3840*2160)23.98/24/25/29.97/30 4k(3840*2160)50/59.94/60 • SDI: 720p50/59.94/60 1080i50/59.94/60 1080p23.98/24/25/29.97/30 1080p50/60
Operating Frequency	5G 5.150~5.250GHz 5.470~5.725GHz 5.725~5.850GHz	2.4G 2.412~2.462GHz
Transmission Latency	≥ 22ms	
Bandwidth	Non-broadcast: 20MHz; Broadcast: 20MHz	

*Note: The product's operating frequency and wireless transmission power may vary depending on the regulations of different countries and regions. Please refer to local laws and regulations for details.

Support



Hollyland User Group



HollylandTech



HollylandTech



HollylandTech



support@hollyland.com



www.hollyland.com

FCC Notice:

The device complies with the FCC rules, Part 15. Operation is subject to the following two conditions:

- 1.This device may not cause harmful interference, and
- 2.This device must accept any interference received, including interference that may cause undesired operation.Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment o- and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1.Reorient or relocate the receiving antenna.
- 2.Increase the separation between equipment and receiver.
- 3.Connect the equipment into an outlet on a circuit di-erent from that to which the receiver is connected.
- 4.Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be located or operating in conjunction with any other antenna or transmitter.

ISED Notice:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC Radiation Exposure Statement:

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and any part of your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions spécifiques pour satisfaire les normes. Cet équipement est conforme aux limites d'exposition au rayonnement d'ISD établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et toute partie de votre corps. Cet émetteur ne doit pas être co-localisé ou exploité conjointement avec une autre antenne ou émetteur.

HOLLYVIEW

Powered by Hollyland

Manufacturer: Shenzhen Hollyland Technology Co., Ltd.
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Road, Shiyan Street, Baoan District, Shenzhen, 518108, China
MADE IN CHINA