

SYSCOM 421

User Manual

HOLLYVIEW

Powered by Hollyland

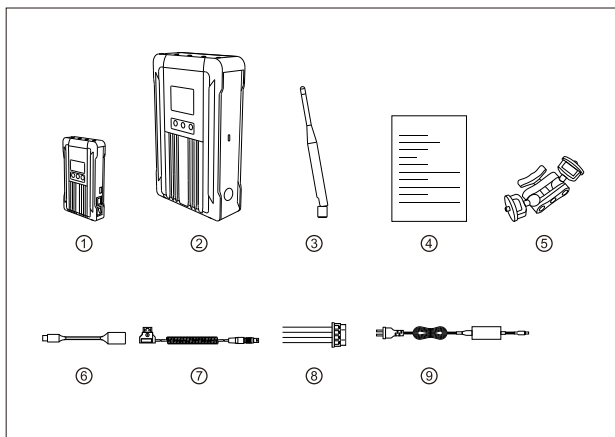
FOREWORD

Thank you for purchasing the Hollyland SYSCOM 421 Wireless HD Video Transmission System. Please read this manual carefully before using the product and wish you a pleasant experience.

■ KEY FEATURES

- 1800ft Transmission Range
- The lowest achievable latency is 0.07s
- 5.1-5.9 GHz Frequency Band Width, Supports Frequency Configuration for Different Territories
- Supports 4 SDI Input and HDMI Input, 4 SDI Output and HDMI Output
- 4 Transmitters Use the Same Wireless Channel with Strong Anti-Interference Ability
- Supports TALLY and RS485/RS422 Control
- Transmitter Supports 7-36V DC Wide Voltage Input
- Receiver Supports 18-36V DC Wide Voltage Input
- Support USB Firmware Upgrade Interface
- Stable & Reliable Industrial Metal Case
- With RJ45 Interface, Supports Network Pass Through between Transmitter and Receiver, and Achieves RTSP Pull and Push Streaming

PACKING LIST



PACKING LIST(4 TX & 1 RX)

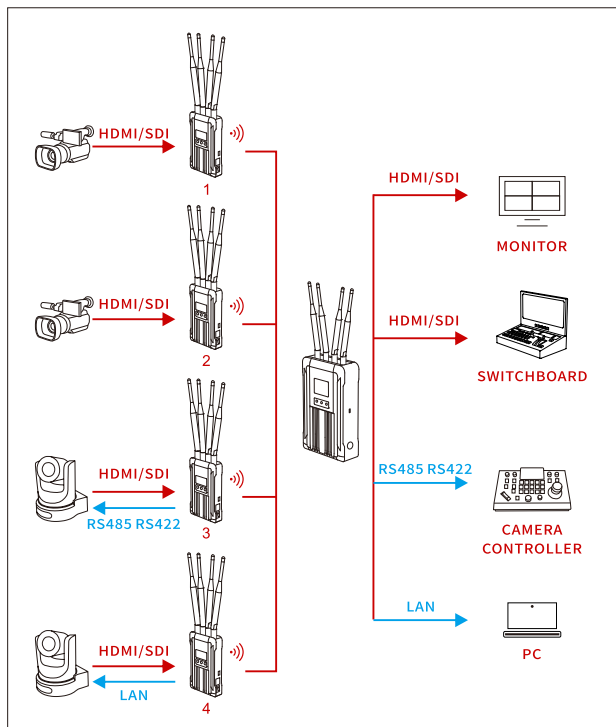
① Transmitter	x4
② Receiver	x1
③ 5GHz Antenna	x25
④ User Guide	x1
⑤ 7-Inch Magic Arm	x4
⑥ OTG Cable	x1
⑦ DC Conversion Cable	x4
⑧ RS485/RS422 Interface Cable	x5
⑨ Power Adapter	x1

PACKING LIST

PACKING LIST(2 TX & 1 RX)

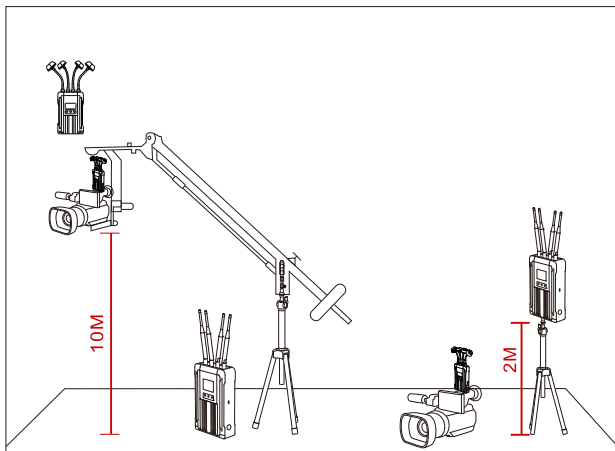
① Transmitter	x2
② Receiver	x1
③ 5GHz Antenna	x15
④ User Guide	x1
⑤ 7-Inch Magic Arm	x2
⑥ OTG Cable	x1
⑦ DC Conversion Cable	x2
⑧ RS485/RS422 Interface Cable	x3
⑨ Power Adapter	x1

TYPICAL SETUP

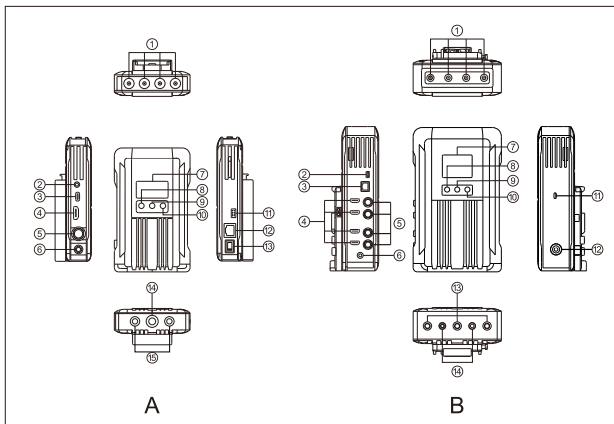


Note: The above is a typical connection diagram for the SYSCOM 421 with the standard packing: 4 transmitters and 1 receiver. The actual connection is based on the package you purchase.

TYPICAL SETUP



Enhancing stability performance of the system , it is recommended to use mushroom antennas (optional accessories) when there is a huge height difference between the transmitter and the receiver.



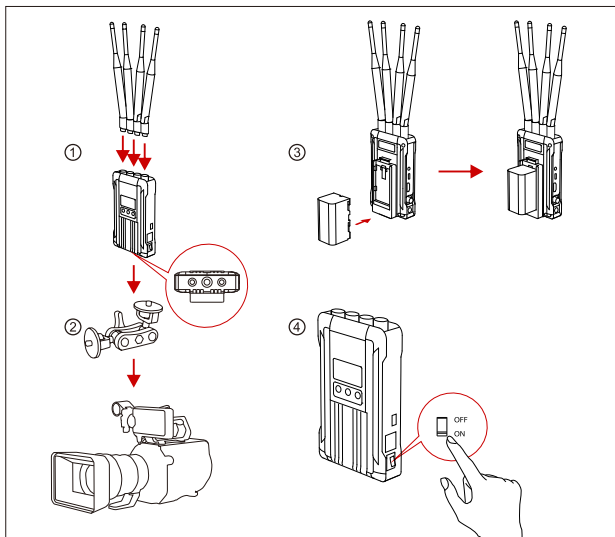
A TRANSMITTER

- ① RP-SMA Antenna Interface
- ② 3-Segment 3.5mm TALLY Output
- ③ USB Type-C Interface
- ④ HDMI Input
- ⑤ SDI Input
- ⑥ DC Power Input
- ⑦ OLED Display
- ⑧ UP
- ⑨ MENU/OK
- ⑩ DOWN
- ⑪ RS485/RS422 Interface
- ⑫ LAN Interface
- ⑬ DC Power Switch
- ⑭ 3/8-16 Screw Hole
- ⑮ 1/4-20 Screw Hole

B RECEIVER

- ① RP-SMA Antenna Interface
- ② RS485/RS422 Interface
- ③ LAN Interface
- ④ HDMI Output
- ⑤ SDI Output
- ⑥ DC Power Input
- ⑦ TFT Display
- ⑧ UP
- ⑨ MENU/OK
- ⑩ DOWN
- ⑪ USB Type-C Interface
- ⑫ DC Power Switch
- ⑬ 3/8-16 Screw Hole
- ⑭ 1/4-20 Screw Hole

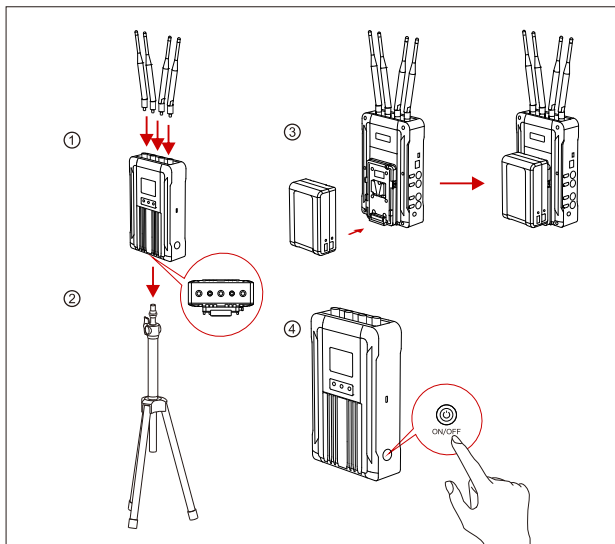
INSTALLATION



TRANSMITTER

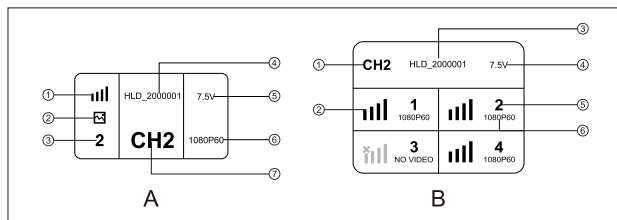
- ① Install antennas on the transmitter as demonstrated .
- ② Install magic arm on the 1/4 screw hole at the bottom of transmitter.
- ③ Fix the transmitter on the camera through magic arm.
- ④ Connect the HDMI/SDI output port of the camera to the HDMI/SDI input port of the transmitter with an HDMI cable/SDI cable.
- ⑤ Install the batteries (compatible with NP-F970 battery or the same series) .
- ⑥ Turn on the device by pressing the power switch to "ON" .

INSTALLATION



RECEIVER

- ① Install antennas on the receiver as demonstrated.
- ② Install magic arm on the 1/4 screw hole at the bottom of receiver.
- ③ Install the battery (compatible with V-mount large capacity batteries) .
- ④ Turn on the device by pressing the power switch to "ON". The power indicator will show with a blue light .

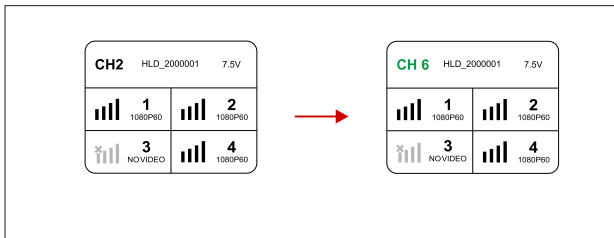


A TRANSMITTER

- ① Signal Strength
- ② Scene Mode
- ③ Device ID
- ④ Device SSID
- ⑤ Power Supply Voltage
- ⑥ Video Format
- ⑦ Channel Display

B RECEIVER

- ① Channel Display
- ② Signal Strength
- ③ Device SSID
- ④ Power Supply Voltage
- ⑤ Device ID
- ⑥ Video Format



■ NOTES:

Low Power Indicator: The low power warning will be triggered when the battery power is too low. And the battery icon will start to blink.

QUICK GUIDE

ENTER MENU

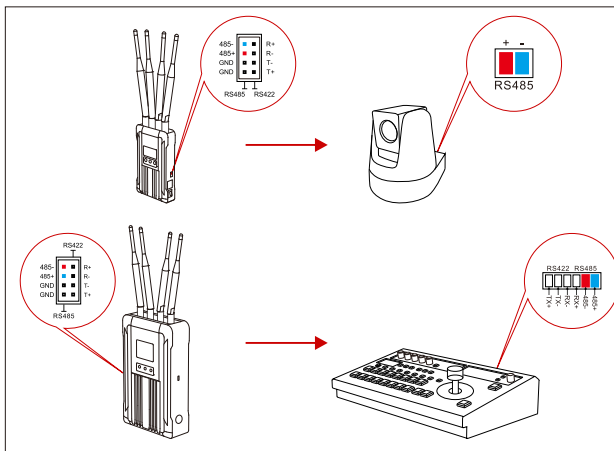
Long press the MENU button of the transmitter and receiver to enter the main menu.

CHANNEL CHANGE

Press the "UP" or "DOWN" button on the receiver to switch to another channel, press the "MENU" button to confirm the channel, and the transmitter channel will be automatically switched.

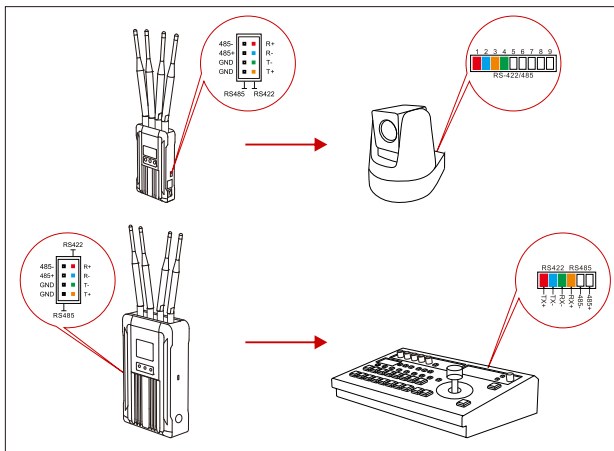
RS485/RS422 INTERFACE USE METHOD

RS485 CONNECTION



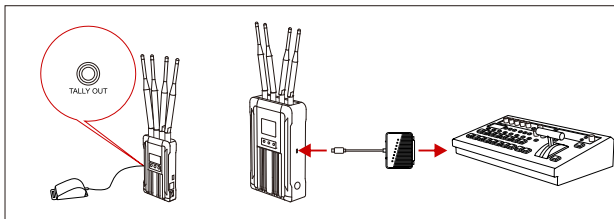
QUICK GUIDE

■ RS422 CONNECTION



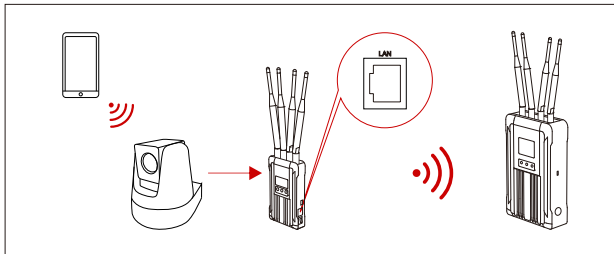
1. Connect the transmitter and the receiver with the RS485/RS422 signal cable.
2. As demonstrated above, connect the transmitter with the terminal device and connect the receiver with the switch. The line sequence shall correspond to the colors.
3. Select the corresponding baud rate on both the transmitter and the receiver. (Baud rate setting path: enter the menu-system setting-serial port setting)
4. The terminal equipment which connected with the transmitter could be controlled by the lever arm on the switch.

TALLY CONTROL USE METHODS



1. Connect the TALLY lights to the TALLY out interface on the transmitter.
2. Connect the USB Type-C interface with the TALLY box on the receiver, and connect the switcher and the TALLY box with a D-Sub Female 25 signal cable.
3. TALLY lights could be controlled by the switches on the switcher.

LAN INTERFACE USE METHOD



Connect the LAN interface on the device with a network cable, and set the IP of the camera to be consistent with the device.

■ NOTES:

The device IP is 192.168.218.x network segment.

FIRMWARE UPGRADE

1. Copy the upgrade firmware to a USB stick.
2. Insert the USB stick into the OTG converter and connect it with the USB Type-C upgrade interface on the transmitter.
3. Restart the device, and the device will enter into the upgrade interface automatically.
4. Once the upgrade is complete, the device will display “upgrade successfully”, and reboot automatically.

■ Please keep continuous power supply during the upgrading.

PARAMETERS

	Transmitter	Receiver
Interface	SDI INPUT BNC FEMALE HDMI INPUT TYPE A FEMALE 3.5MM TALLY OUTPUT 4 ANTENNA RP-SMA MALE DC POWER INPUT USB TYPE-C LAN RS485/RS422	SDI1, SDI2, SDI3, SDI4 OUTPUT (BNC FEMALE) HDMI1, HDMI2, HDMI3, HDMI4 OUTPUT (TYPE A FEMALE) 4 ANTENNA (RP-SMA MALE) DC POWER INPUT USB TYPE-C LAN RS485/RS422
Supply Power Range	7~36V DC	18~36V DC
Power Consumption	<12W	<32W
Weight	431.5g (External Antenna Excluded)	1621g (External Antenna Excluded)
Dimension	(LxWxH :88x30x144mm External Antenna and Battery Plate Excluded	(LxWxH :148x62x242mm External Antenna and Battery Plate Excluded
Input/Output Video Format	HDMI: 480P60 Hz 576P50 Hz 720P50/60 Hz 1080i50/60 Hz 1080P24/25/30/50/60 Hz SDI: 720P50/60 Hz 1080i50/60 Hz 1080P24/25/30/50/60 Hz	HDMI: 480P60 Hz 576P50 Hz 720P50/60 Hz 1080i50/60 Hz 1080P24/25/30/50/60 Hz SDI: 720P50/60 Hz 1080i50/60 Hz 1080P24/25/30/50/60 Hz
Frequency	5.1~5.9GHz	5.1~5.9GHz
Transmission Power	MAX 22dBm	MAX 22dBm
Receiver Sensitivity	-90dBm	-90dBm
Lowest Transmission Latency	0.07s	0.07s
Bandwidth	40MHz	40MHz

If encounter any problems in using the product or need any help, please follow these ways to get more technical support:

 Hollyland Products User Group

 HollylandTech

 HollylandTech

 sales@Hollyland-tech.com

 www.hollyland-tech.com



 Hollyland Products User Group

 HollylandTech

 HollylandTech

 sales@Hollyland-tech.com

 www.hollyland-tech.com

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FCC WARNING

This device complies with part 15 of the FCC Rules. 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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 instructions, 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 off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.