CODEV DYNAMICS Transmission User Manual

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Product Information

The ENPULSE is a product designed to meet the end-to-end real-time requirements of video data. It features better control of delay jitter sensitivity and supports H265/H264 video compression as well as AES encryption. The adaptive retransmission mechanism implemented at the bottom layer enhances efficiency and reduces delay, resulting in improved performance and user experience, especially in interference environments.

Product Profile

- GH 6PIN Serial port
- GH 5PIN Ethernet Port (x2)
- USB-C Port
- Antenna interface (x2)
- Linking Hole
- Linking Status Indicators

Product Usage Instructions

1. Power on the aircraft and remote controller.
2. Align the slender screwdriver head (or any other slender object) with the trigger port for Enpulse binding and press and hold it for 2 seconds. The indicator light will flash quickly, indicating that the Enpulse is ready to be connected.
3. In the remote controller main interface, click on “ENPULSE” in the upper right corner to enter the binding interface. Press and hold “Bind” to initiate the binding process.
4. Once the connection is completed, the remote controller will start receiving data from the aircraft. The Bind Status will show as “Bind Success”.

FCC Statement

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

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. It should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Product Profile

Introduction

- Impulse uses CodevDynamics industry video transmission technology, video, data, and control three-in-one. End-to-end equipment is not restricted by wire control, and maintains high degree of freedom and mobility in space and distance.
- With the complete function buttons of the remote control, the operation and setting of the aircraft and the camera can be completed within a maximum communication distance of 10 kilometers. The image transmission system has two communication frequency bands, 5.8GHz and 2.4GHz, and users can switch according to environmental interference.
- Ultra-high bandwidth and bitstream support can easily cope with 4K resolution video data streams. The 200ms screen-to-screen low delay and delay jitter sensitive control are better, which meets the end-to-end real-time requirements of video data. Support H265/H264 video compression, AES encryption.
  The adaptive retransmission mechanism implemented at the bottom layer is not only much better than the application layer retransmission mechanism in terms of efficiency and delay, but also greatly improves the performance and user experience of the link in an interfering environment

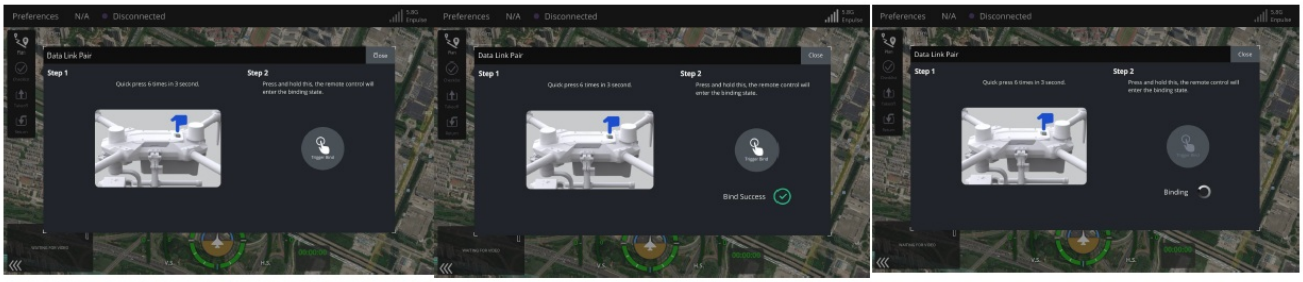
Diagram

1. GH 6PIN Serial port
2. GH SPIN Ethernet Port
3. USB-C Port

4. Antenna interface
5. Antenna interface
6. GH 5PIN Ethernet Port
7. GH 6PIN Serial port
8. GH 5PIN Ethernet Port
9. Linking Hole
10. Linking Status Indicators

Linking

1. Power on the aircraft and remote controller.
2. Align the slender screwdriver head (or another slender object) with the trigger port for Enpulse binding, press and hold for 2 seconds, the indicator light will flash quickly, the Enpulse is ready to be connected.
3. Enter the remote controller main interface, as shown in the figure below, Click “ENPULSE” in the upper right corner to enter the binding interface.Press and hold “Bind” to bind.



4. When the connection is completed, The controller will receive data from Aircraft. Bind Status will show as “Bind Success”

Specifications

1. Weight: 77.55g
2. Dimensions: 80*50 24cm
3. Operating Frequency: 2.4000 – 2.4835 GHz; 5.725-5.875 GHz
4. Max Transmission Distance(unobstructed ,free of interference): 10km
5. Interface: Ethernet port *3, Serial port *2. USB-C Port *1
6. Operating system: -20 ‘ C to 50 ” C (-4 ‘ F to 122 * F)
7. Input: 12V DC

FCC Statement

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

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance 20cm between the radiator& your body.
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 the 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.

Documents / Resources

	CODEV DYNAMICS Transmission [pdf] User Manual Transmission