

User Manual
Full HD Digital Transmission System
Model: Insight rx



- 1. The system boot time about 35 seconds, boot after completion, please search the IN - XXXXX SSID and link IN the beginning, the initial link password 12345678, need to modify the password or need to download the dedicated channel to channel Settings APP. Set the channel itself, please refer to the local laws and regulations allow use of channel.**
- 2. After our test, we found that the current most cameras on the market can only output 720 p, may has something to do with the camera's firmware or hardware. You can try other 1080 p resolution, image loading needs to wait for a few seconds.**

3. Our products provide the three applications. Insight is observed and extend hand software than 6 PWM output, allows you to control PWM equipment (yuntai, servo motor). Tower - Insight is ground station software, can show the parameters of the aircraft flight path and planning and update to the plane. Insight - is the Switch equipment exclusive software, allows you to modify the WiFi SSID, WiFi passwords, WiFi channel.

4. Update and support video guide, please contact the relevant dealer, or attention Argus's official website <http://www.ArgusFPV.com> to get the latest APP update.

5. In order to obtain good effect of the signal, please pay attention to the antenna put way, the receiver antenna effect is best vertically up. Transmitter antenna please ensure seismic section (copper) vertically upwards or downwards.

6. Features:

5G full hd digital transmission

- **digital video transmission, the input maximum support 1920 * 1080 @ 60 FPS, output up to 1920 * 1080 @ 30 FPS;**
- **using 5 g radio frequency technology, the transmission power of 100 mw (FCC certification standards);**
- **the ground side collocation 5 dbi omni antenna (standard), the measured effective transmission distance of 1.5 km.**
- **the ground side with 16 dbi directional antenna (choose), the measured effective transmission distance up to 5 km;**

7. Video input and output format

- **the HDMI input;**
- **5 g wi-fi full hd video output: Android mobile phone, tablets, after connected with app can display use;**

Anti-interference,

- **up/down link adopts MIMO antenna technology and OFDM modulation method, with advanced algorithm, effectively improve the stability of the system data bandwidth and complex environment to improve the dynamic performance of the system;**
- **down link state real time monitoring of each channel interference, the optimal channel dynamic selection work transmission channels (up to 24);**

- can support as many as 24 devices at the same place and the same time work at the same time;

Low latency,

- system 80 ms delay;

Note: the above time delay for the use of computer HDMI output signal, comparing with computer screen mobile phone APP that the gap between the data delay, due to the use of a variety of camera hardware and software in hd signal output signal generated by the difference between different delay will be relatively large. So please as far as possible choose low latency photographic equipment.

OSD function,

- cooperate with the pix apm pixw without external OSD, when using the APP information overlay function can be realized;

8. Fit the flight controllers

- without any restriction with pix apm pixw APP, insight itself has a built-in digital products.

- from the machine model and information security

- the ground side can link more mobile phone or PAD

- data encryption transmission, only after the end of the surface of frequency authorization can receive video data, guarantee the information security;

9. The battery and charge,

- the built-in battery 1300 mAh capacity on the ground, the equipment can work continuously for 2 hours. Continuous use can use charging treasure equipment connection.

- the sky the input voltage 5 v (optional wide voltage input module 7-28 v)

10.

Material: aluminum alloy

Power supply (ground) : 5 v DC power input; Built-in lithium battery; Power consumption: 1.5 3 w

Power supply (sky) : 5 v DC power input; Power: 3-5 w

Size (ground) : 48 * 68 * 15 (mm)

Size (sky) : 62 * 32 * 23 (mm)

Weight (ground) : 100 g

Weight (sky) : 58 g

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

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

15.105 Information to the user.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

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.

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

FCCID: 2AK3TINSIGHTRX