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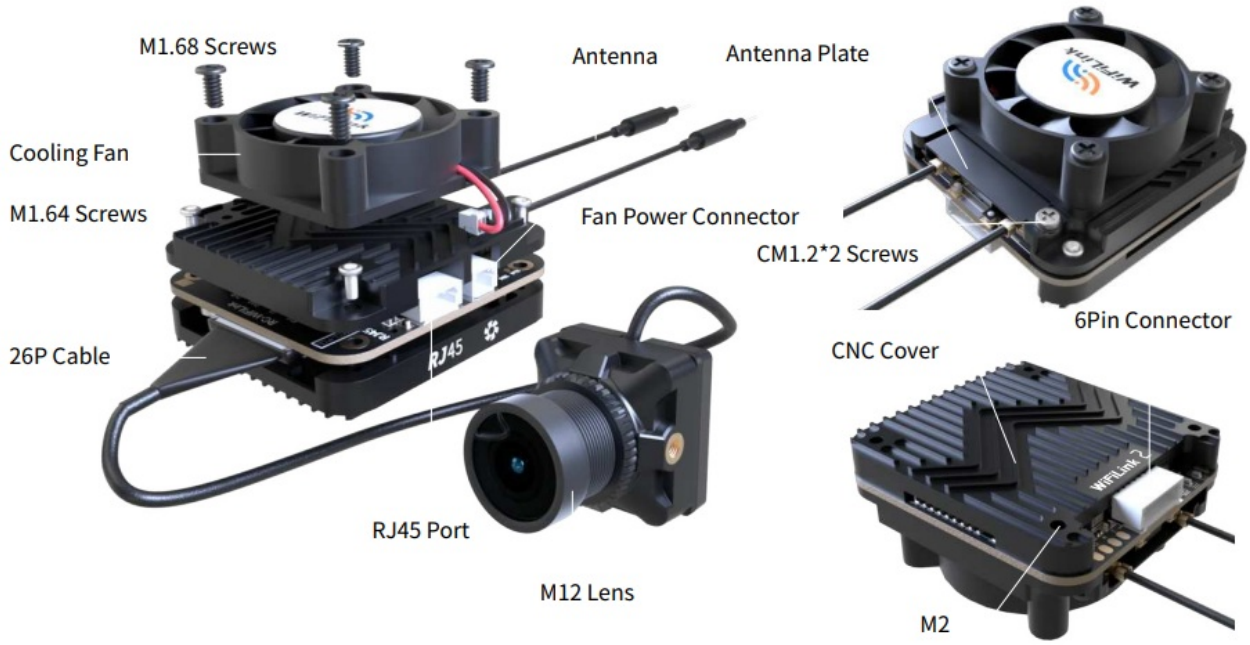
RunCam WiFiLink 2 Based on OpenIPC

Product Features

- M1.68 Screws Cooling Fan
- M1.64 Screws

- 26P Cable
- Antenna
- Antenna Plate
- Fan Power Connector CM1.2*2 Screws
- CNC Cover
- 6Pin Connector
- RJ45 Port
- M12 Lens M2



Installation Operation Notes

Antenna Installation

When installing the WiFiLink 2 on the aircraft, pay attention to the following two points:

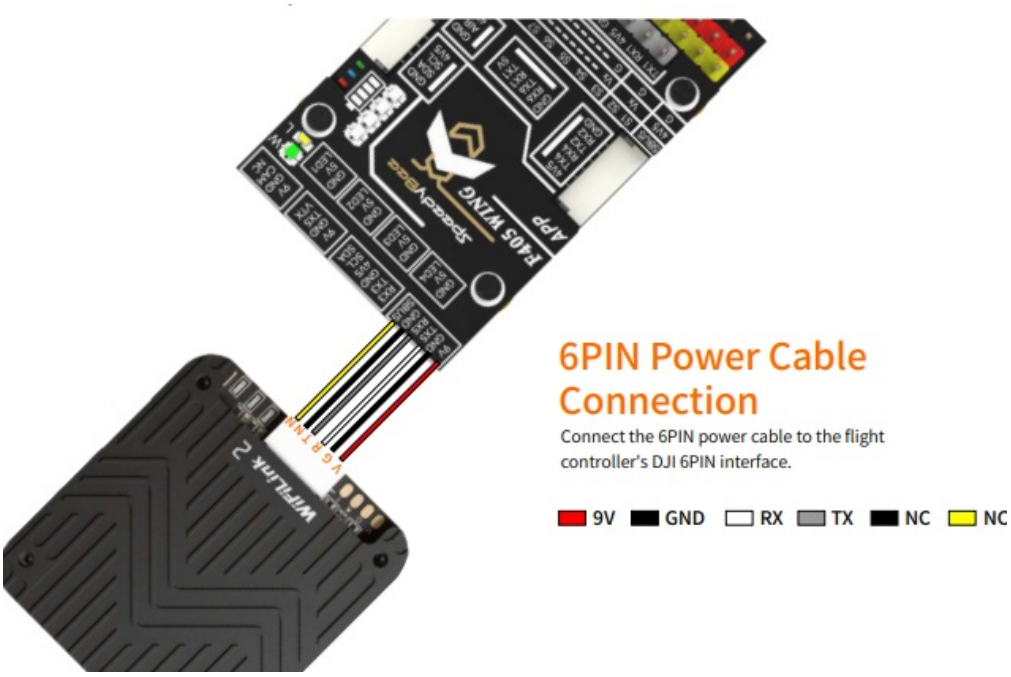
Antenna Layout:

Ensure that the two tail antennas are fully spread apart to avoid entanglement and reduce signal interference.

Antenna Orientation:

Point the antennas upward to avoid obstructions from the fuselage or battery, ensuring optimal signal performance.

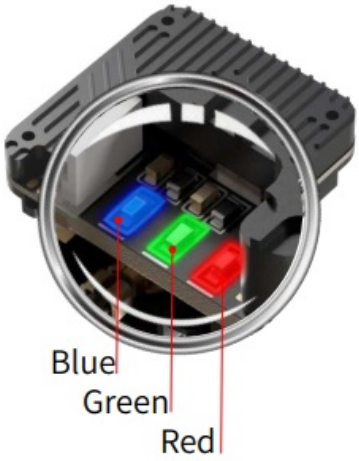
Refer to the diagram for the optimal antenna layout



Light Introduction

Light Status	Indication
Green Off	Audio off
Green Solid	Audio on
Green Fast Flash	Firmware upgrade
Green Slow Flash	Recording on

Blue Solid	WiFiLink Startup
Blue Fast Flash	WiFi Error
BGlrueen&Alternating Flash	High Temp Warning (>90°C)



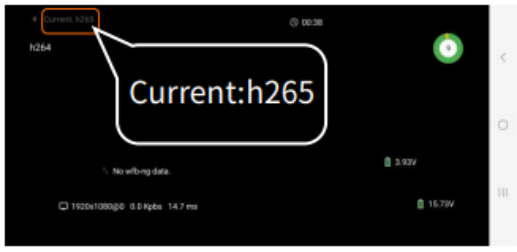
Usage Instructions

Install the APP

- PixelPilot Download Link: https://github.com/OpenIPC/PixelPilot/releases

Set Parameters

Set the Channel to 161 and the Video Codec to H. 265.



Auxiliary Tools Links

- OTG Cable Reference Link:
- https://item.jd.com/10087520840342.html#crumb-wrap 8812AU Wireless Adapter Reference Link:
- https://item.taobao.com/item.htm?id=597898122636

How to Flash WiFiLink 2

Card Flashing Steps:

1. Prepare Files
   Copy WiFiLink-part0.bin and WiFiLink-part1.bin to the root directory of an empty SD card.
2. Upgrade Steps
   Insert the SD card into the camera's mainboard and power it on. The camera will enter upgrade mode (about 15 seconds), with the green light flashing. After the upgrade (about 1 minute), the green light will turn off, and the SD card will be cleared. Upon re-powering, new configuration files (gs, key and user) will be generated.

Card Flashing File Address:
https://www.runcam.com/download/runcamwifilink2

How to Obtain Configuration Files
Insert an empty SD card into the camera and power it on. It will generate the configuration files automatically.

How to Set Parameters

It is recommended to use Notepad++ to edit the user file. Only the parameters listed under "Available values" can be modified, including:

Channel	Codec
ResolutionRatio	Bitrate
Mirror	Flip
Rotate	Contrast
Hue	Saturation
Luminance	……

How to Use the Ethernet Port

Default Settings:

IP Address	192.168.1.10
Username	root
Password	12345

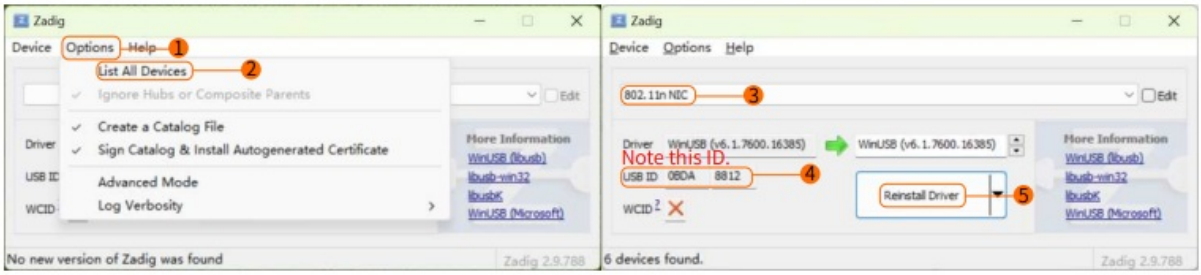
How to Use with a PC Ground Station

Program Download:https://github.com/OpenIPC/fpv4win/releases

Follow these steps:

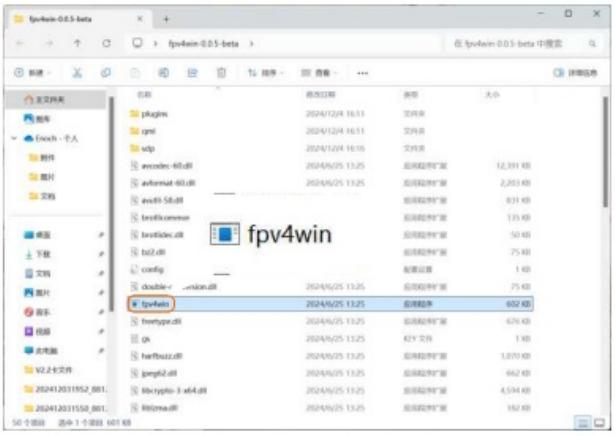
1. Step One

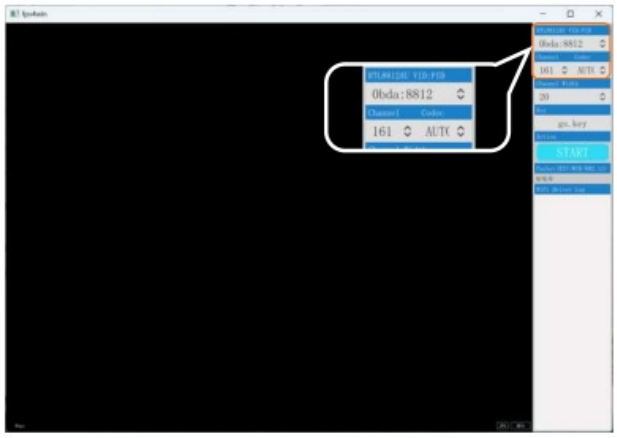
   Insert the 8812AU wireless adapter into the computer and reconfigure the driver using the Zadig program.



2. **Step Two**

   Double-click the fpv4win program, select the network card, Channel, and Codec, then click START to use.





How to Use with Radxa ZERO 3W

- Visit:https://support.runcam.com/hc/en-us

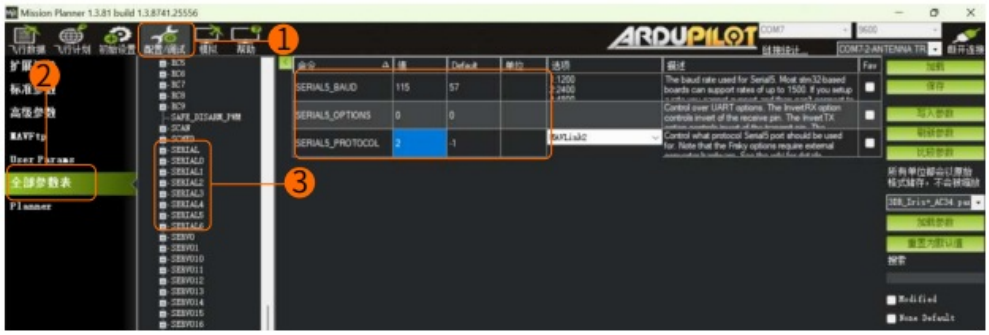
- Contact our technical support team for detailed guidance.

What to Do if There Is No Display

Check if the power supply is normal and verify that the Channel and Codec settings are correct.

What to Do if FC OSD Information Is Missing

1. **Check Configuration**

   Verify that the configuration settings are correct. The three parameters should be: 115 (corresponding to 115200), 0, 1, or 2 (corresponding to MAVlink 1 or 2).
2. 

   Check the Serial Port

   Confirm that the FC serial port data is normal and available, and the wiring is correct, with TX and RX cross-connected.

Specifications

Model	WiFiLink 2
Sensor	IMX415
FOV	160°
Resolution	1080P@60FPS/1080P@90FPS/720P@120FPS
Power Supply	9-22V(Max15W)
Lens Module	19*19mm/M12 Lens/MIPI Cable 130mm
Hole Distance	25.5*25.5mm

PCB Size	30.6mm*33mm
Weight	30g (with fan) / 25g (without fan)
Antenna	2dB/IPEX1 5G
Power	5.8 GHz:≤29dBm (FCC),≤20dBm(CE)

Power Value Reference Table

Values	20	25	30	35	40	45	50	55	58
dBm	16	20	22	24	26	27	28	28.5	29
mW	40	100	160	250	400	500	630	700	800

Frequently Asked Questions

How to Use with a PC Ground Station:

Can I use WiFiLink 2 with any aircraft?

The compatibility of WiFiLink 2 with different aircraft may vary. It is recommended to refer to the product documentation or contact technical support for specific compatibility information.

How do I know if my firmware is up-to-date?

You can check for firmware updates by visiting the manufacturer's website or using the provided flashing instructions to update the firmware of WiFiLink 2.

What should I do if I encounter connectivity issues?

If you experience connectivity issues, ensure that the antennas are properly

installed and oriented as per the installation instructions. Additionally, check the network settings and connections for any issues.

Can I customise the parameters for optimal performance?

Yes, you can customise certain parameters using recommended tools like Notepad++ as mentioned in the usage instructions. Be cautious while modifying parameters to avoid any adverse effects on performance.

Is technical support available for setup assistance?

If you require assistance with setting up or using WiFiLink 2, you can contact our technical support team for guidance and troubleshooting help.

Documents / Resources

	RunCam WiFiLink 2 Based on OpenIPC [pdf] User Manual WiFiLink 2, WiFiLink 2 Based on OpenIPC, WiFiLink 2, Based on OpenIPC, OpenIPC

References

- User Manual

RunCam Based on OpenIPC, OpenIPC, RunCam, WiFiLink 2, WiFiLink 2 Based on OpenIPC

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