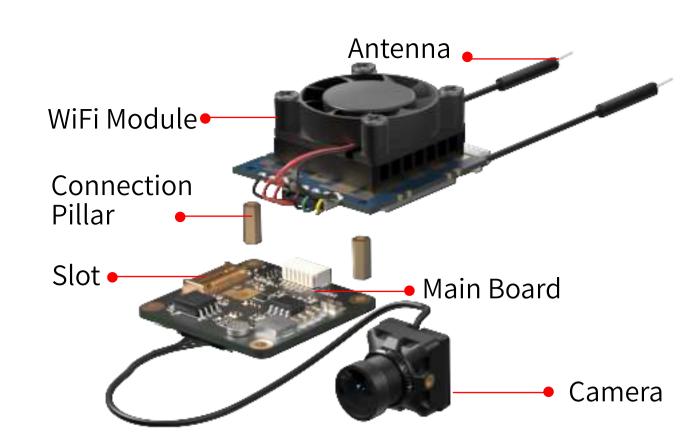
# WiFiLink Installation and Usage Guide

## 1 Component



## Installation

Metal pillars must be used to connect the main board with the WiFi module to ensure effective heat transfer from the main board to the WiFi module.



## Installation Method 2 Offset Stacking



## Other Precautions

## Antenna Layout

#### ·Antenna Installation: Ensure the two tail antennas are sufficiently spread

apart to avoid entanglement, which could reduce signal interference. · Antenna Direction:

#### Adjust the antennas to point upwards whenever

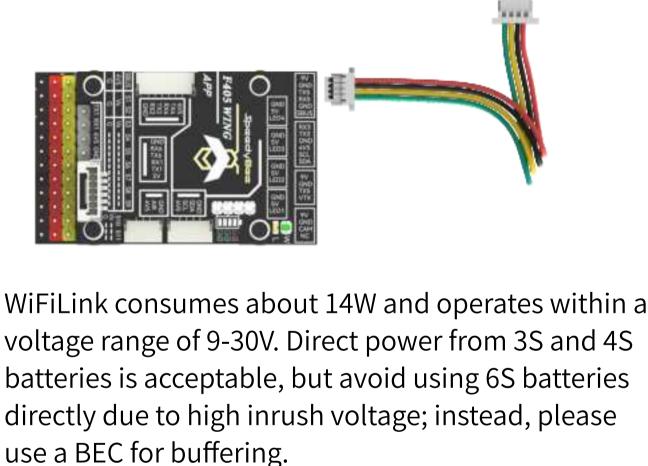
possible to avoid obstruction by the drone or battery, ensuring the best signal transmission.



The wiring sequence of the two ends of the 4PIN

#### power cable is opposite. Confirm the direction before connecting to ensure correct insertion

and avoid damaging the device.



#### Resolution 1080P@60FPS/1080P@90FPS/720P@120FPS

Model

Sensor

**FOV** 

Specifications

WiFiLink

**IMX415** 

160°

Power Supply	DC 9-30V (BEC power supply highly recommended. Non-direct power supply from Lipo battery)	
Lens Module	1919mm/M12 Lens/MIPI Cable	
Specs	Length 200mm	
Hole Distance	25.5*25.5mm	
PCB Size	30mm*30mm (Main Board)	
	32mm*32mm (WiFi Board)	
Weight	30g	
Antenna	IPEX1 (5G)	
Power Amplifier	29dBm	
WiFiLink FAQ		
5 How to Use WiFiLink		
WiFiLink req steps below	uires no configuration. Simply follow the to use it:	

#### phone. FPVue APP Download: https://github.com/gehee/FPVue\_android/releases

Install the APP

PixelPilot Download:

https://github.com/OpenIPC/PixelPilot/releases Copy and Replace the Key

Copy the "gs.key key" file generated by WiFiLink

Install the FPVue APP or PixelPilot on an Android

into the phone's storage.

#### Codec OSD -- -1.02 degree No compatible wifi adapter found. Recording 2 0.85 degree ₫ 3.93V No wfb-ng data. ₫ 15.73V ☐ 1920x1080@0 0.0 Kpbs 14.7 ms (b) 00:38 gs.key

No compatible wifi adapter found.

₫ 3.93V

₫ 15.73V

-- -1.02 degree

2 0.85 degree

No wfb-ng data.

☐ 1920x1080@0 0.0 Kpbs 14.7 ms

Set the Channel to 173, and the Video Codec to H.265.

Set Parameters

No compatible wifi adapter found .0 Kobs 14.7 ms No compatible wifi adapter found

#### Auxiliary Tool Links OTG Cable Reference to:

□ 1920x1080@0 0.0 Kpbs 14.7 ms

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

## 6 How to Flash WiFiLink

Card Flashing Steps:

#### Prepare Files Copy the "WiFiLink-part0.bin" and "WiFiLink-part1.bin"

card flashing files to the root directory of an empty SD card. Upgrade Steps

Insert the SD card into the camera's main board and

power it on. The camera will automatically enter upgrade mode (about 15 seconds). Once the upgrade is complete (about 1 minute), the

green light will stay on and the SD card content will be cleared. After re-powering, a new configuration file ("gs.key" and "user") will be generated on the SD card. Card flashing file:

https://www.runcam.com/download/runcamwifilink

## How to Obtain WiFiLink Keys and Configuration Files Insert the empty SD card into the camera and power

it on. The camera will automatically generate the

required configuration files upon startup. 8 How to Set WiFiLink Parameters

### It is recommended to use Notepad++ to edit the user

file, which only supports modifying the parameters listed under Available Values, including:

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

#### 9 How to Use the Ethernet Port Default Settings:

Username:root Password:12345

IP Address: 192.168.1.10

#### **10** How to Pair with Ground Station WiFiLink is paired with the FPVue APP by default. If

the WiFiLink's "gs.key" key to the corresponding location on the ground station. What Other Ground Stations Are Compatible

you need to pair it with another ground station, copy

## Computer and Radxa ZERO 3W Development Board How to Use with a PC Ground Station

·Step 1

Download:

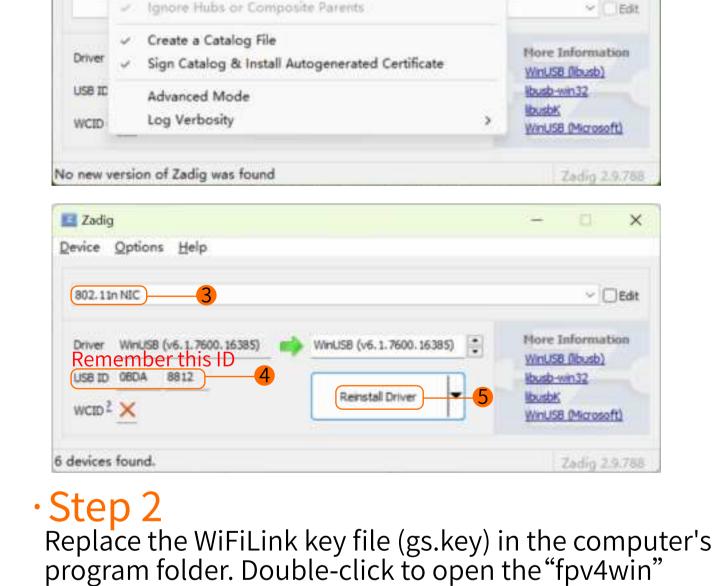
Follow the steps below:

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

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

List All Devices

Device Options Help



**PERME** 

Visit:

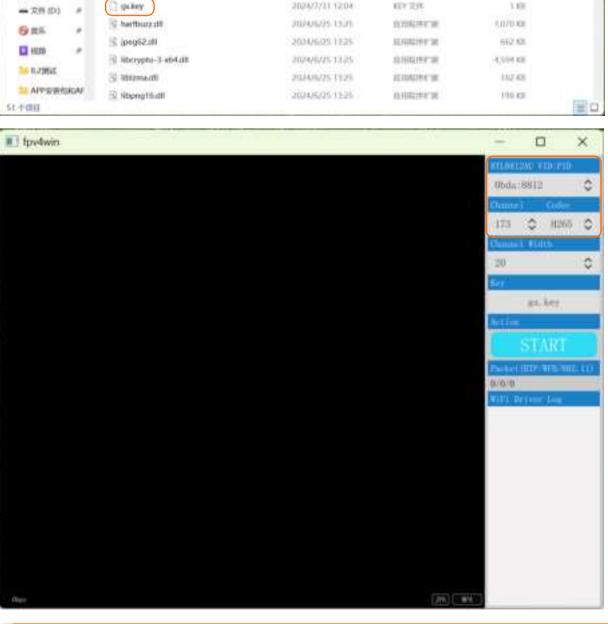
@ broffrommerd! 2004/6/25 13:25 OneDrive: S. brotlidecdli 2020/07/25 13:25 - 中田 化焦定数 75 (0) © double-convenion.dit 2024/5/25 12:25 GREEN C freetype.dll 670.68

program, select the correct network adapter, Channel,

烈 (putwin-0.05-beta 中間前

TE primpine

and Codec, then click START to begin use.



# 13 How to Use with Radxa ZERO 3W

Contact our technical support for detailed guidance.

Troubleshooting: What to Do If

Check Power Supply: Ensure the power supply is normal and verify that the Channel, Codec, and Key are correctly matched.

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

#### Troubleshooting: No FC OSD Information on Screen Check Configuration

#### Ensure that the configuration settings are correct. The three parameters should be: 115 (corresponding to

cross-connected.

115200), 0, 1, or 2 (corresponding to Mavlink1 or 2).



 Check Serial Port Confirm that the flight controller serial port data is normal and available, and ensure that the serial port wiring is correct. Note that TX and RX must be