

WiFi Camera Module User Manual

1. Product Overview

This product is a compact WiFi wireless camera module, composed of a high-definition camera lens, flexible FPC connecting cable, main control circuit board, WiFi antenna and power-supply wiring harness. It features ultra-small size, simple wiring, stable wireless transmission, plug-and-play performance, and can be embedded into DIY devices, monitoring equipment, smart toys, aerial models and other equipment to realize real-time video monitoring via WiFi connection.

2. Main Features

1. Compact & lightweight design, easy for embedded installation and secondary development
2. Built-in WiFi module, supports wireless real-time video transmission
3. Flexible FPC cable, convenient for angle adjustment of the camera lens
4. Simple power-supply wiring (red-positive, black-negative, blue-reserved wire), stable power input
5. High-definition imaging sensor, clear real-time picture output
6. Wide application scenarios, compatible with multiple smart hardware devices

3. Wiring Definition

- Red wire: Power supply positive (+)
- Black wire: Power supply negative (-, GND)
- Blue wire: Reserved wire (for extended functions)
- Antenna: WiFi signal receiving & transmitting antenna, do not bend or damage it forcibly

4. Installation Steps

1. Fix the camera module at the target position, adjust the lens angle via the flexible FPC cable to obtain the required shooting view.
2. Connect the power-supply wires strictly according to the wiring definition to avoid reverse connection which may damage the module.
3. Power on the module, wait for 30-60 seconds for the WiFi module to start and emit a hotspot signal.
4. Search and connect the module's WiFi hotspot with your mobile phone/tablet.
5. Open the matched monitoring APP to view real-time video images.

5. Technical Parameters

- Working Voltage: DC 3.7V
- Wireless Protocol: WiFi 2.4GHz
- Transmission Distance: 10-30m (open area, no obstacles)

- Image Sensor: High-definition CMOS sensor
- Working Temperature: -10°C ~ 60°C
- Antenna Type: Built-in external whip antenna

6. Notes

1. Do not use power supply exceeding the rated voltage, otherwise the module will be burned out.
2. Keep the antenna away from metal shielding objects to ensure stable WiFi signal.
3. Do not bend the FPC cable repeatedly to prevent internal circuit breakage.
4. Avoid using this product in high-temperature, humid or dusty environments for a long time.
5. This module is for technical research and legal monitoring only; unauthorized illegal monitoring is prohibited by law.

FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your 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 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.