Product Manual



Before operating the device, please read this manual carefully and keep it for future reference

Contents

1. Maintenance and Care 1

2.Product Overview 1

3.Product Features 1

4. Specifications 2

5. Installation and Connection 3

5.1 Component Installation Instructions 3

5.2 Wiring Diagram 3

6. Product Dimensions Drawing 4

7. Logging into the Web Management Interface 5

8. Web Interface Menu Description 7

1. Maintenance and Care

- Although this camera requires almost no special maintenance, you can maintain its good condition and performance by following the steps below:
- Regularly wipe the camera lens with a damp, soft cloth. Do not use rough materials such as tissue paper or clothing to wipe the lens, as this may scratch the lens surface.
- Note: Users should not attempt to repair the device beyond the scope described in the operating instructions. All other repair work should be performed by qualified personnel.

2.Product Overview

2.4GHz WiFi camera is a high-performance industrial-grade network camera that features outstanding image quality, robust environmental adaptability, and a wide range of functions. It supports convenient access and configuration via a standard web browser (WEB UI), making it suitable for a variety of applications such as vehicle monitoring, industrial inspection, and more.

3.Product Features

1) Utilizes a 1/3" 3MP sensor
2) Supports H.264 and H.265 encoding formats
3) Supports ONVIF protocol
4) Supports digital wide dynamic range, 3D noise reduction, backlight compensation, and white balance
5) Waterproof rating IP69K
6) Can be installed at the rear and sides of vehicles

4. Specifications

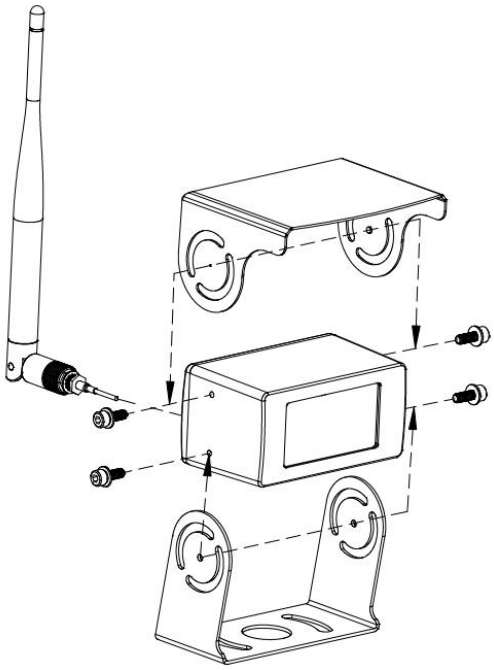
Parameter Category	Technical Specifications
Image Sensor	1/3-inch CMOS GC2083
Video Frame Rate	1–20 fps
Resolution	Main Stream: 3MP (2304×1296), 1080P (1920×1080), 720P (1280×720); Sub Stream:448P (800×448), 360P (640×360)
Microphone	Optional
Number of IR LEDs	18 PCS
Scanning System	Progressive Scan
Gain Control	Automatic
White Balance	Automatic
Electronic Shutter	Auto
Backlight Compensation	Auto
Power Supply Voltage	DC 12V
Lens	2.8mm
Lens Angle	H: 105°±5°; V: 56°±3°; D: 133°±5°
Ethernet	RJ-45 Ethernet, 10M/100M Auto-negotiation
Power Consumption (at 12V)	Day Mode: 165±20 mA Night Mode: 250±30 mA
Operating Temperature	-20°C to +70°C, Max Humidity 95%
Storage Temperature	-30°C to +80°C, Max Humidity 95%

5. Installation and Connection

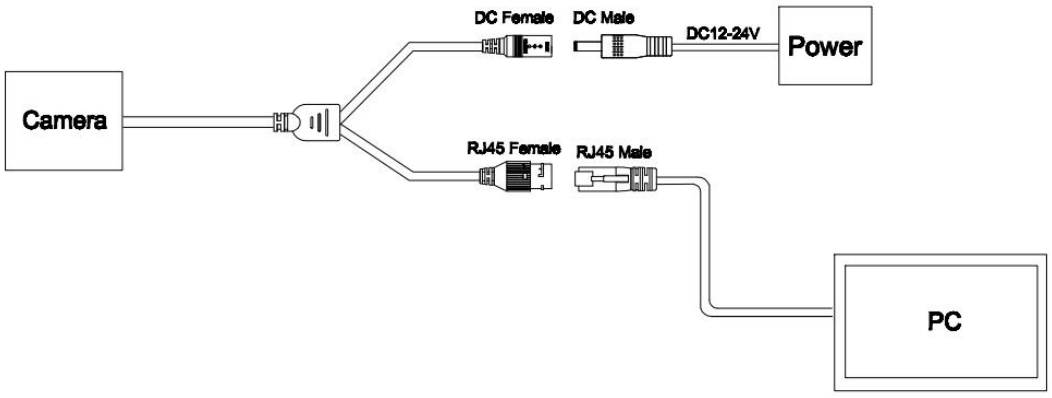
5.1 Component Installation Instructions

2.4GHz WiFi camera

1. According to the installation screw model, use the corresponding drill bit to drill the installation holes, and first install the camera bracket in place.
2. Adjust the sunshade to the desired angle and secure the sunshade **to** the bracket using a hex key.
3. Screw one antenna into the antenna interface on the back of the camera and align the antenna vertically.
4. Please check if your vehicle already has a suitable opening or whether the connection cable can be routed into the vehicle interior. Otherwise, you must drill an appropriate hole in a suitable location. For proper installation of the cable seal on the camera cable, the hole must have a diameter of approximately 20 mm.



5.2 Wiring Diagram

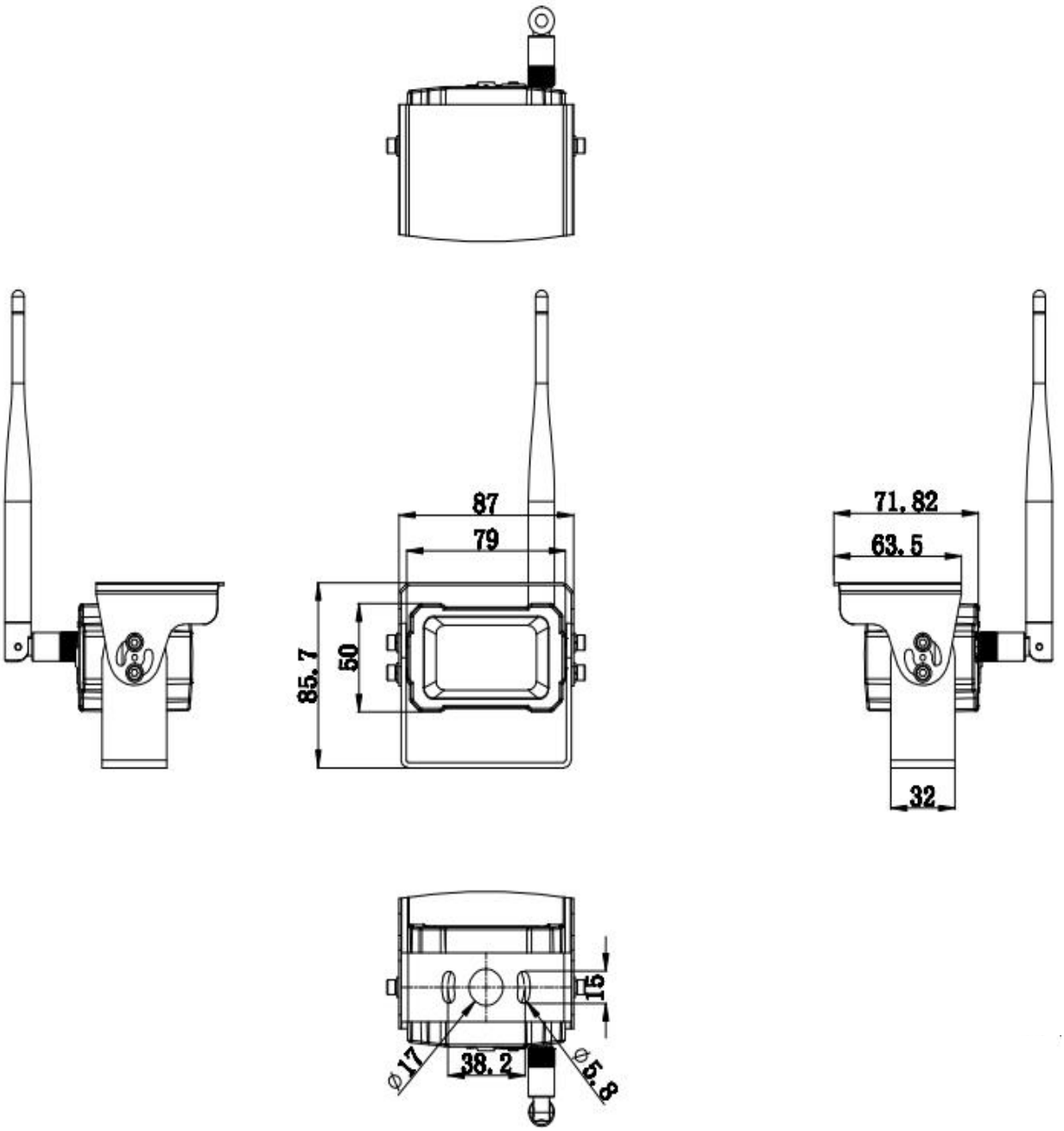


1) Network Connection: Connect one end of the network cable to the camera's network port, and the other end directly to your computer, network video recorder (NVR) or digital video recorder (DVR), or connect to the local area network via a network switch.

2) Power Connection: Supply power to the camera (DC: 12V).

3) Status Confirmation: After powering on and connecting to the network, the camera will enter normal working status.

6. Product Dimensions Drawing



7. Logging into the Web Management Interface

Please follow the steps below to access and configure the camera via a computer browser.

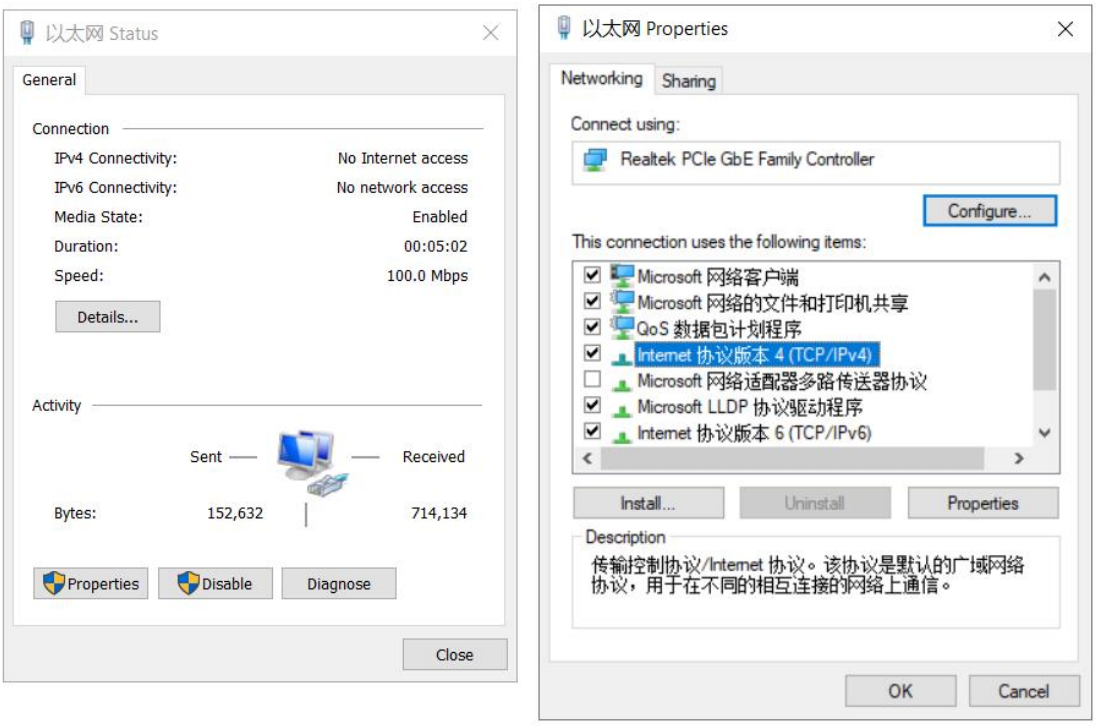
Step 1: Configure the Computer IP Address

Since the camera's default IP address is **192.168.1.11**, you need to set your computer's IP address to the same subnet (e.g., **192.168.1.2**).

1.Open the computer's **Network and Internet Settings**. See the image below:

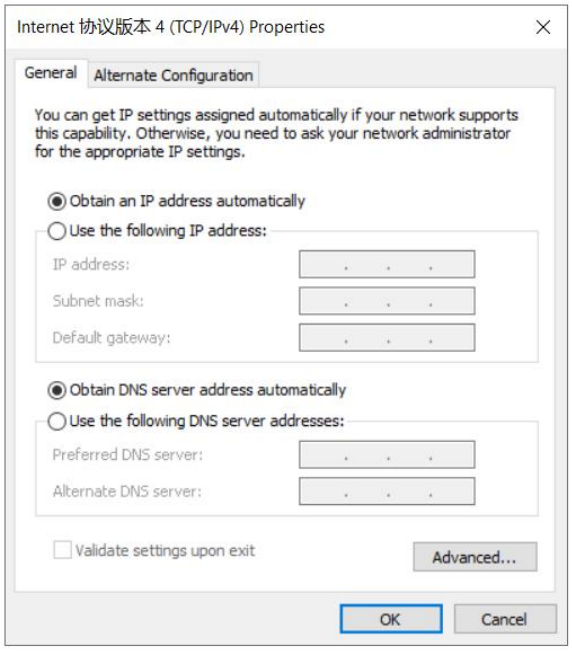


2.Locate the Ethernet connection currently connected to the camera, double-click to open it, and select **Properties**. See the image below:



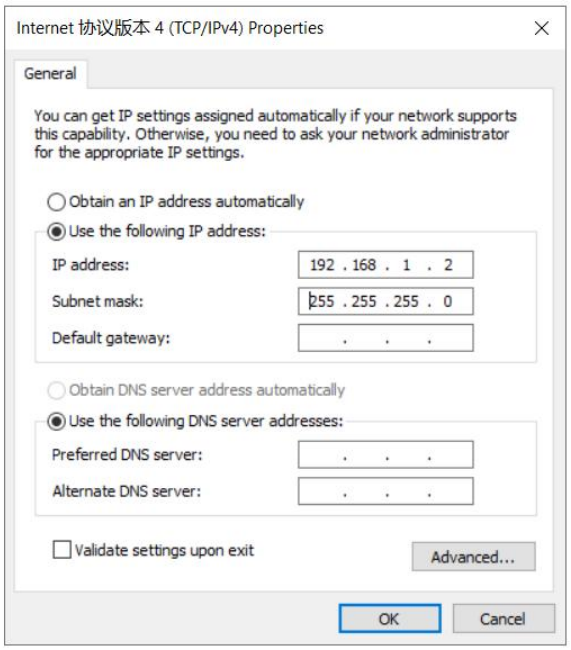
3. In the list, select **Internet Protocol Version 4 (TCP/IPv4)**, then double-click to open it. See the image below:





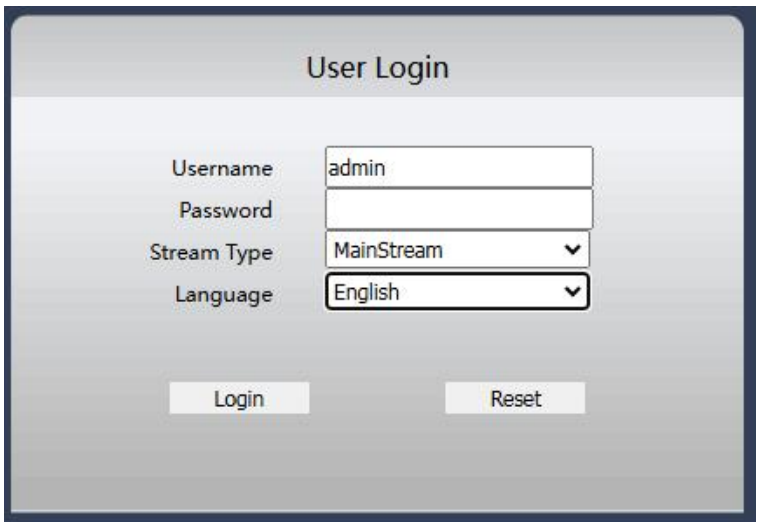
4.Click **Use the following IP address** and set as follows:
(1) **IP Address**: 192.168.1.2 (the last digit can be any number between 2 and 254).
(2) **Subnet Mask**: 255.255.255.0.
(3) **Default Gateway**: Can be left blank.
Finally, click **OK** to save the settings. See the image below:





Step 2: Log into the Camera

1. Open the browser (such as Google Chrome or Mozilla Firefox).
2. Enter the camera's IP address in the address bar: 192.168.1.11.
3. The browser will redirect to the login page. Enter the default username in the username field: admin. The initial password is blank. Additionally, other languages can be selected for different countries. As shown in the figure below:
4.Click the Login button to enter the camera's web management interface and begin configuring various parameters. See the image below



8. Web Interface Menu Description

1. Remote Settings → Camera Configuration:
   OSD Configuration: Such as displaying the channel name, time, etc. See the image below:

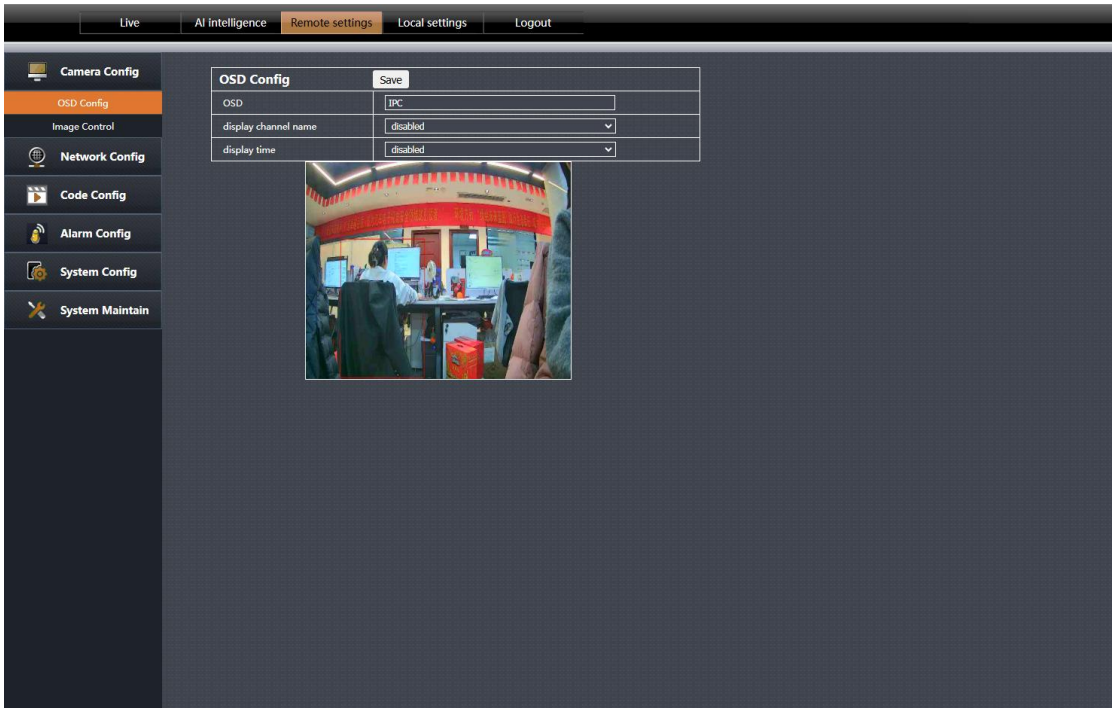
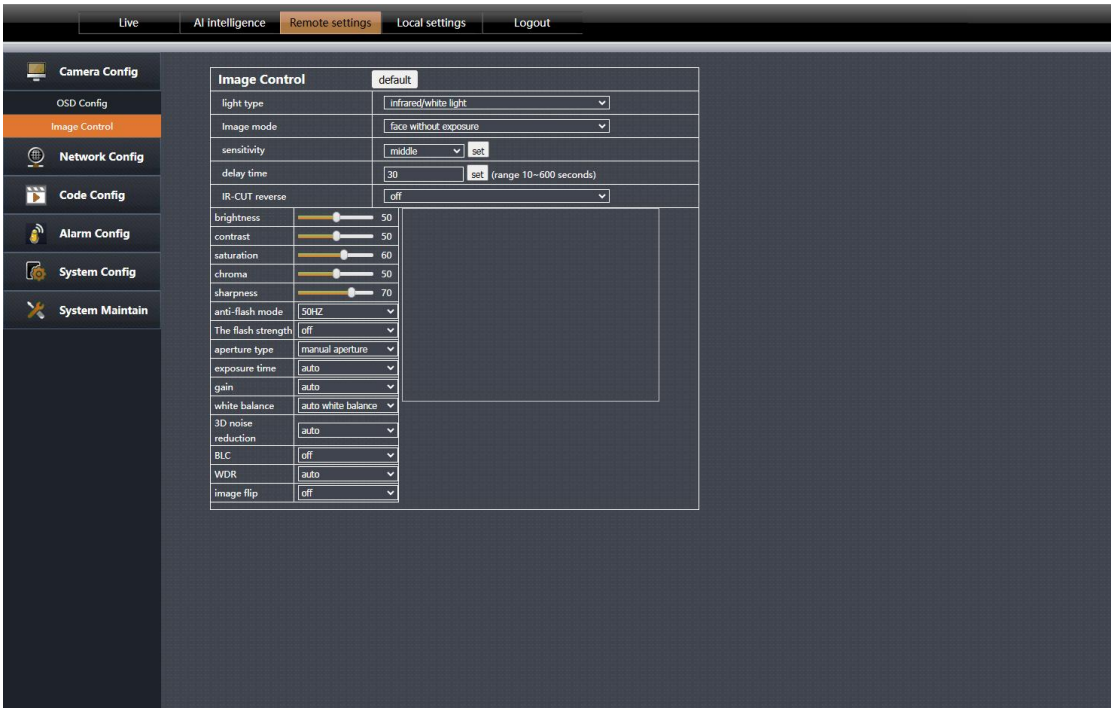
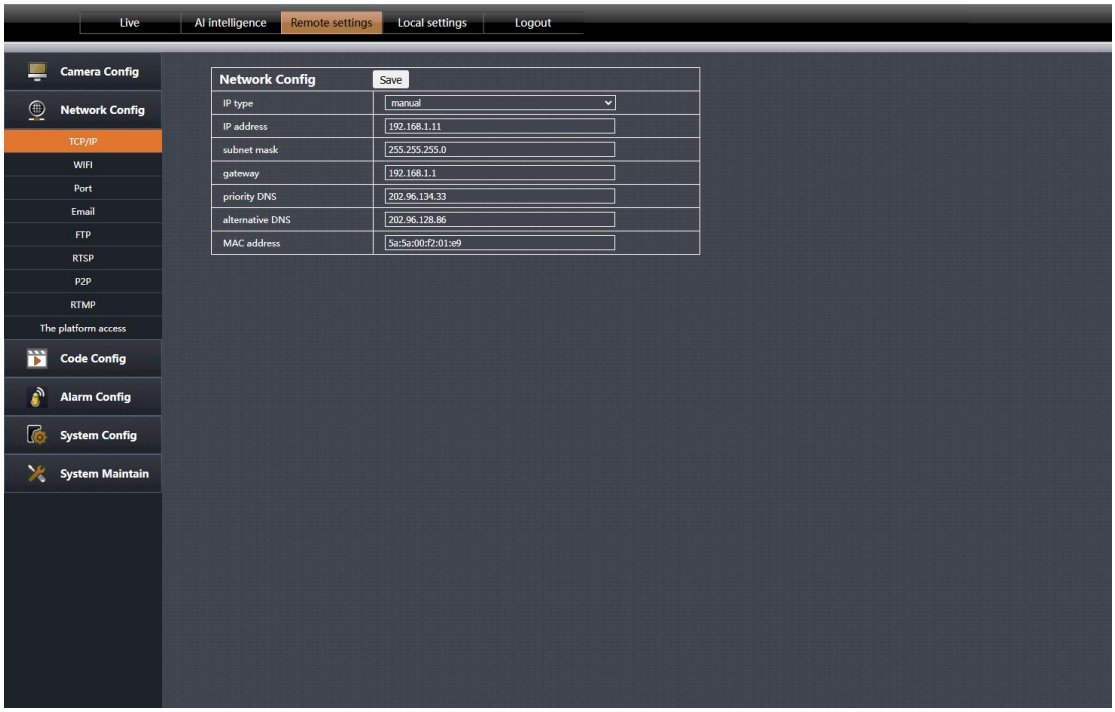


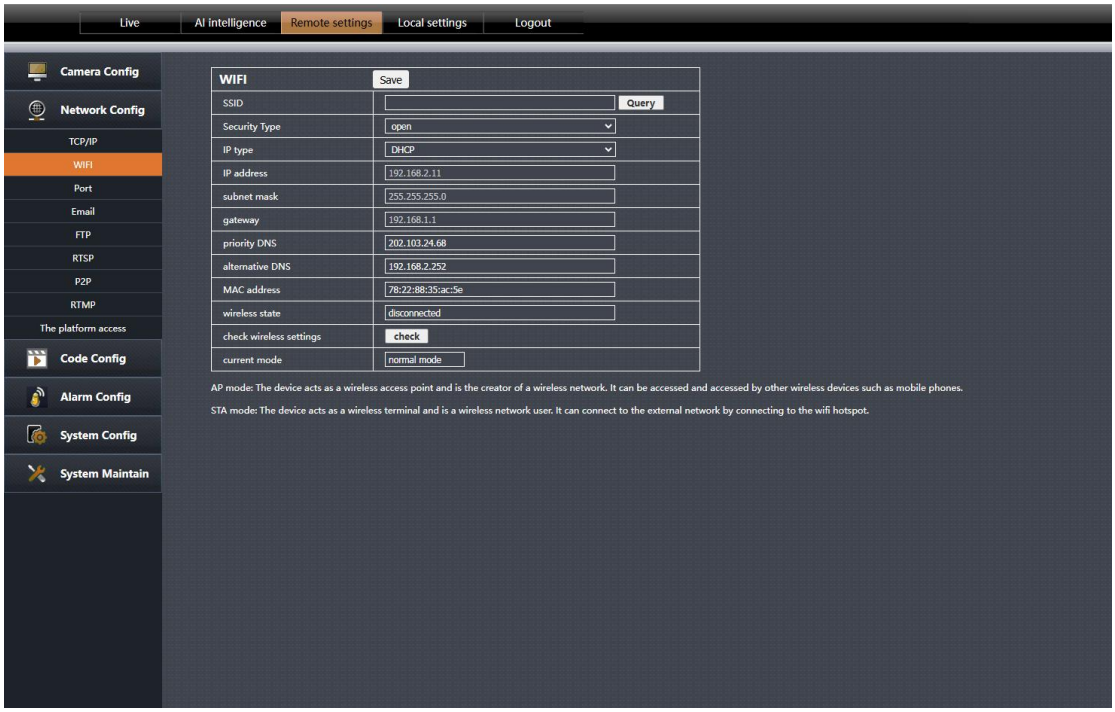
Image Configuration: Settings for brightness, contrast, saturation, hue, etc. See the image below:



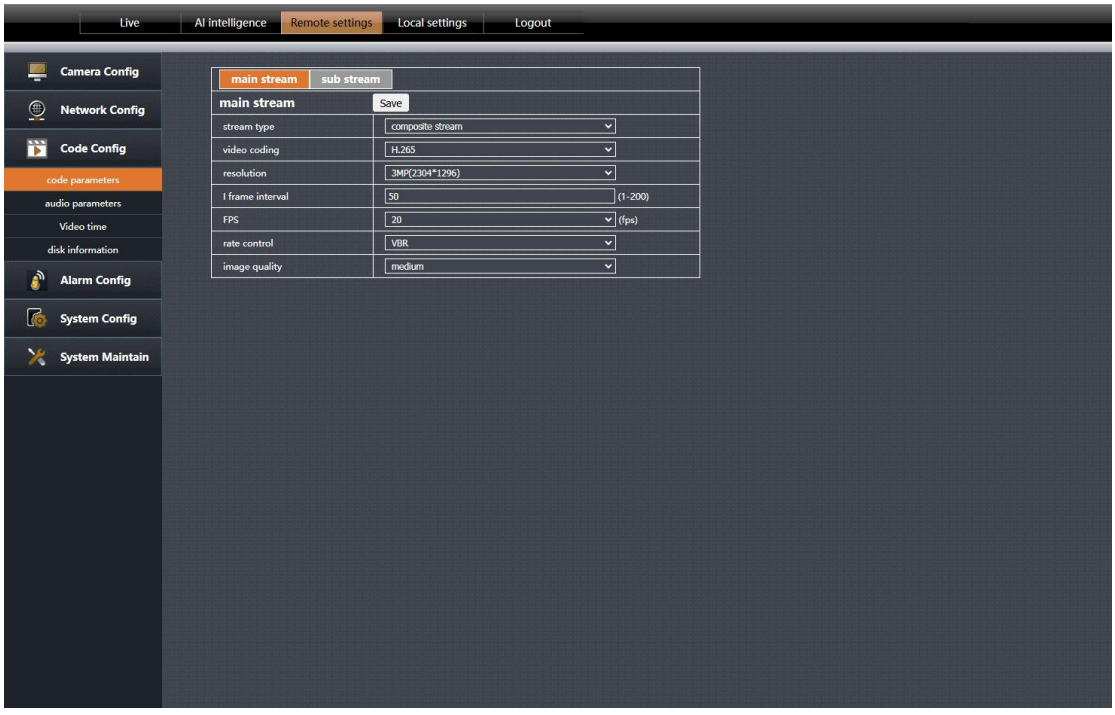
2. Remote Settings → Network Configuration:
Network Configuration: Modify the camera's IP address. See the image below:



Wireless Configuration:
Hotspot Mode: The device acts as a wireless access point, creating a wireless network for other devices (e.g., smartphones) to connect and access.
Normal Mode: The device acts as a wireless client, connecting to an external Wi-Fi hotspot to access the network. See the image below:



3. Remote Settings → Encoding Configuration:
Video Encoding: The settings must match the display device; otherwise, the image may not appear.
Encoding Parameters: To ensure optimal display on the connected monitor, it is recommended to set the camera's resolution to match the monitor's resolution. See the image below:



FCC Statement

* 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 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.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment
The distance between user and products should be no less than 20cm

Warranty and Support Information

Thanks for selecting our product.

Please retain proof of purchases and warranty information.

Hardware Warranty

* Subject to the provisions described below, our product is protected for One year against defects in material and workmanship.

* Should a product fail to perform as described above within the warranted period, it will be repaired or replaced with the same or functionally equivalent product by us.

* This warranty does not apply if , in the judgement of us, the product fails due to damage from shipment, handling, storage, accident,
abuse or misuse, or if it has been used or maintained in a manner not conforming to product manual instructions, has been modified in any way. Repair by anyone other than us or an approved agent will void this warranty. The maximum liability of our company under this warranty is limited to the purchase price of the product covered by the warranty.

* All defective products should be returned to our company with shipping charges prepaid. we will not accept collect shipments.