About the use of the 620Q AI camera web page instructions

catalogue

1 product presentation

1.1 operational principle

The latest version 620QAI camera standard edition implements a variety of AI functions, but it is not possible to open all the functions. Different modes can be used for different applications to achieve corresponding functions.

1.2 product appearance

At present, the 620QAI camera series provides a total of three models, including two hemispherical cameras and one barrel (gun) camera, to meet the installation and monitoring needs of different scenarios.

Model 1 (Semi-spherical): Equipped with built-in microphone and speaker for audio playback and capture. Its compact design makes it ideal for indoor ceiling or wall mounting, commonly used in offices, shops, and other spaces with high aesthetic requirements. Features infrared backlighting and white light illumination capabilities, enabling full-color monitoring even at night.

Figure 1.1 Built-in speaker hemispherical model

The second type (hemispherical) has a built-in microphone for audio capture and an external speaker interface to connect external speakers for expanded sound output. It also adopts a hemispherical design, which is suitable for indoor environments and supports infrared light filling for stable operation in low-light conditions.

Figure 1.2 Semi-spherical model with external speaker

Model 3 (Tube/Gun Type): Equipped with built-in microphone and speaker, this device supports audio playback and capture while allowing external speaker connections. Its rugged construction enables long-distance surveillance with enhanced environmental adaptability. Featuring dual infrared and white light illumination, it is ideal for indoor/outdoor environments including entrances, corridors, and perimeter areas.

Figure 1.3 Built-in speaker gun model

1.3 attended mode

All three products are connected to a network switching device (such as a router or switch) on the same LAN as the computer for network communication and power supply.

All models support PoE (Power over Ethernet), functioning as Power-Delegated (PD) devices that receive power through network cables. When connected to a PoE-enabled switch or router, simply plug the cable into the cameras RJ45 port to simultaneously establish both network connectivity and power supply – eliminating the need for an additional 12V power cable. This streamlined approach ensures clean and efficient wiring.

If the network cable is connected to a PoE powered switch or router, the camera can be directly powered through the network cable without external power.

If the network cable is connected to a normal switch or router that does not support PoE power supply, you need to connect a power adapter through the 12V power interface to ensure

normal operation of the device.

The power supply mode is flexible and optional, and users can freely configure according to the actual network environment.

The second hemisphere camera is equipped with a special external speaker interface, which can be connected to the external speaker through the audio line to play the prompt sound triggered by the system (such as alarm sound, voice reminder, etc.) and realize the local sound warning function.

Note: The network cable must be connected to the same LAN as the computer in order to access the camera web page and configure it through the browser.

1.4 Web page notes

All products in this series feature a self-developed visual interface webpage. Users can directly access the camera IP address through a browser to enter the operation interface. The webpage supports real-time preview, camera settings, video record, national standard configuration, and network setup functions. Its intuitive operation design facilitates rapid deployment and daily management. Below is a brief introduction to the main features.

2 Use of camera web pages

2.1 Web login and IP Settings

2.1.1 System platform interface login

The login steps on the system platform interface are as follows:

The default IP address of the camera is 192.168.1.31 and the port is 8080.

Set the computer to be on the same LAN as the camera. For example, if the camera IP is 192.168.1.31, set the computer IP to 192.168.1.x (where x is a number between 2 and 254).

Open Google Chrome or Microsoft Edge.

Enter the following in the address bar: http://192.168.1.31:8080/#/login

Enter the default login information: user name: admin password: admin

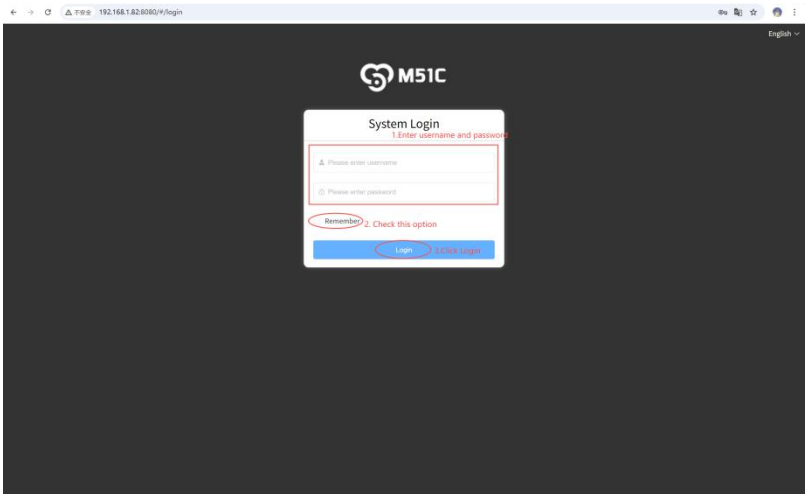

Figure 2.1 System platform login page

After login, you can enter the visual operation interface of the camera to configure subsequent functions.

2.1.2 Camera IP address Settings

If you want to modify the camera IP address to a specified LAN, there are two ways to do this: web page, IP scanning tool.

2.1.2.1 Set IP on web page

Step: Enter the web page-click the "Settings" tab-select "Network". As shown in Figure 2.2:

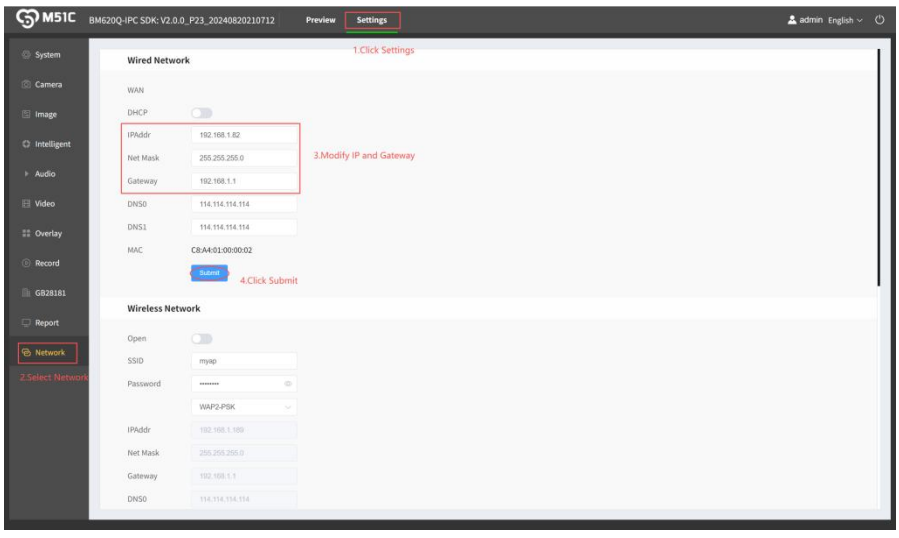

Figure 2.2 Set IP on web page

2.1.2.2 IP scanner tool set IP

If you cannot access the cameras default IP address, follow these steps to use the IP scan tool to set the cameras IP address:

- Prepare a Windows computer and run the configuration tool BMLiteTool.exe.

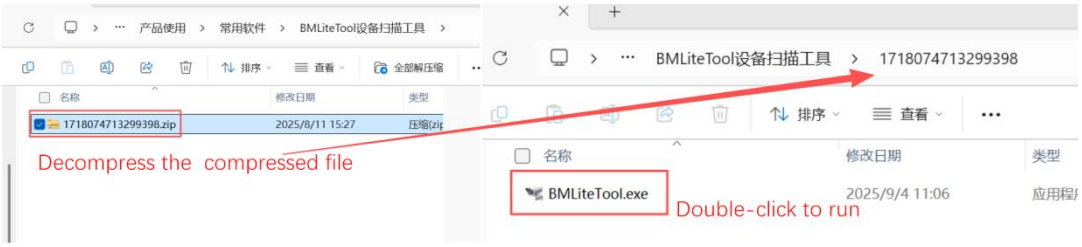

Figure 2.3 Running BMLiteTool.exe tools

- After starting the tool, click refresh in the lower left corner to start searching for devices on the LAN, select the devices with the prefix "c" in the device list (if not found, temporarily disable the Windows firewall and try again), double-click or click Edit.

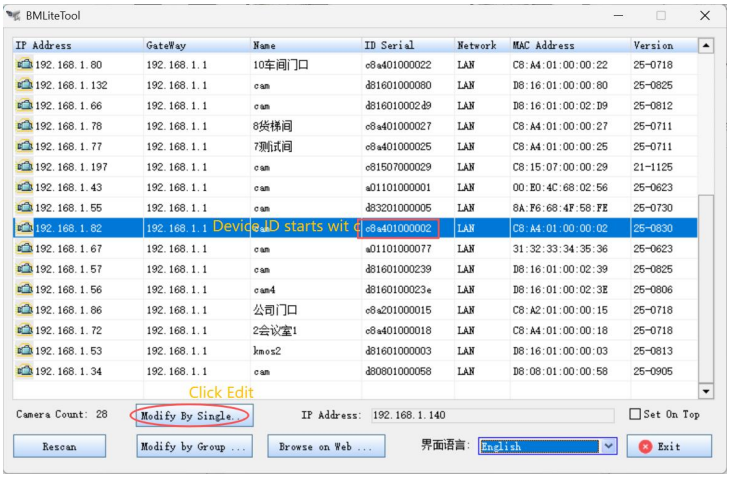

Figure 2.4 Click Refresh to search for devices on the LAN

- The default IP address of the 620Q series camera is: 192.168.1.31. The device is usually scanned with this IP address. If there is an IP conflict in the LAN, you need to change it to a new unique IP address.

- In the tool, modify the IP address, subnet mask and gateway. After confirming that there is no error, click "Set Parameters" to complete the configuration.

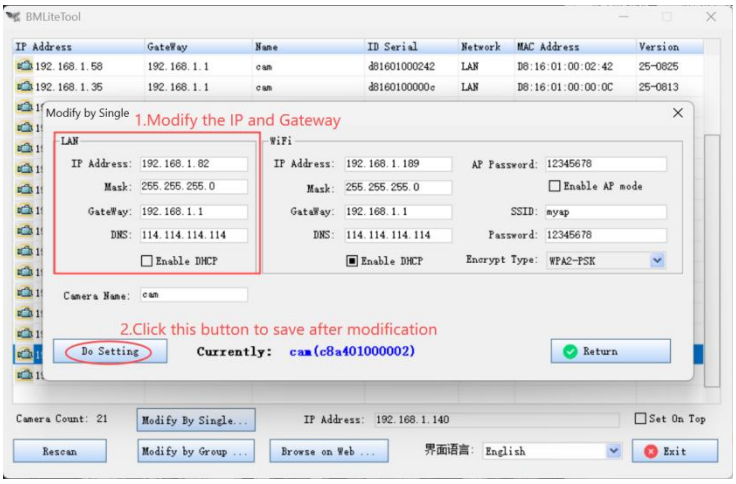

Figure 2.5 Modify the camera IP and gateway

Suggestion: Before modification, please ensure that the target IP address does not conflict with other devices in the LAN.

After the IP address is configured, the camera will access the network using the new network parameters. The devices management interface can then be accessed through a browser.

2.2 Web page function instructions

2.2.1 Preview the web page introduction

After successful login, the system will automatically enter the preview interface (as shown in Figure 2.6).

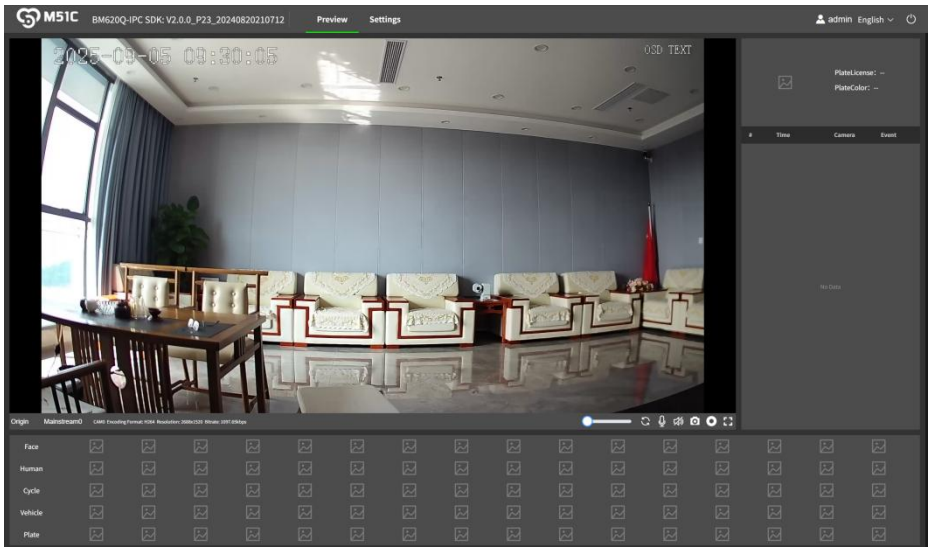

Figure 2.6 Preview interface

The interface layout is as follows:

Page header area:

1) Display the SDK version information of the device;

2) The header has two main tabs, "Preview" and "Configuration", which are used to switch the functional modules;

3) The rightmost part is the operation button area, which provides language switching and logout functions, so that users can adjust the interface language or log out safely according to their needs.

Main display area (upper left): Occupies the main part of the interface, used for real-time playback of the camera monitoring screen. The small toolbar at the bottom of the screen provides a variety of quick functions, including full screen, broadcast, recording, snap, etc., which users can directly operate in the preview interface.

Right information bar:

1) The upper area displays the captured license plate identification information, including the license plate number, color, and time of capture.

2) The lower area is the event record list, which records all kinds of captured events in real time, such as face, vehicle and other identification information and timestamp.

Bottom snapshot slot: Display the recent snapshot thumbnail, support a variety of target types, including face, human form, non-motor vehicle, motor vehicle and vehicle, etc. Click the thumbnail to quickly view the details, so that users can grasp the dynamic monitoring in real time and check the recognition results.

For rotatable cameras (such as the second movable hemispherical camera mentioned earlier), clicking the camera icon in the preview interface will display directional control buttons (as shown in Figure 2.7). Users can remotely control the cameras rotation using the up, down, left, and right arrow buttons on the webpage, allowing them to adjust monitoring angles and achieve flexible security deployment.

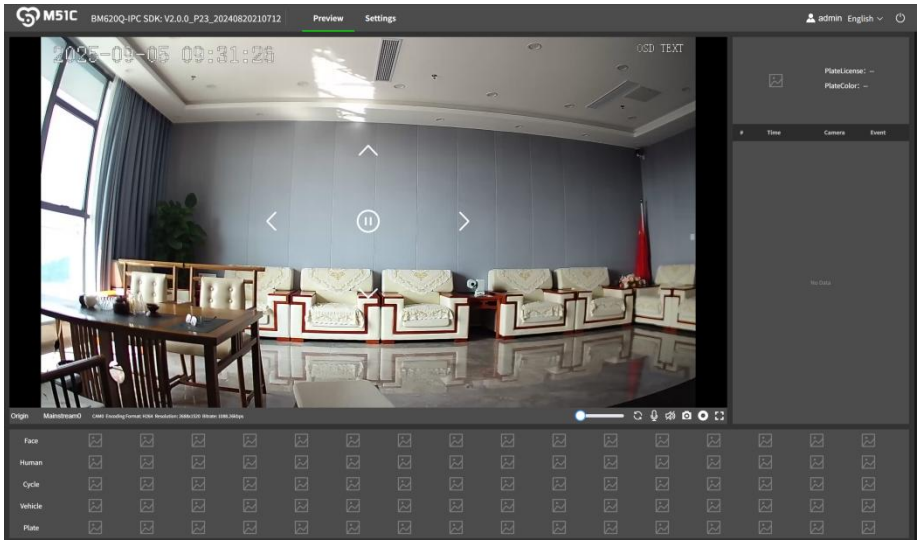

Figure 2.7 Direction control button

Note the progress bar in the lower right corner of the video preview. Drag it to manually adjust the focus, as shown in Figure 2.8.

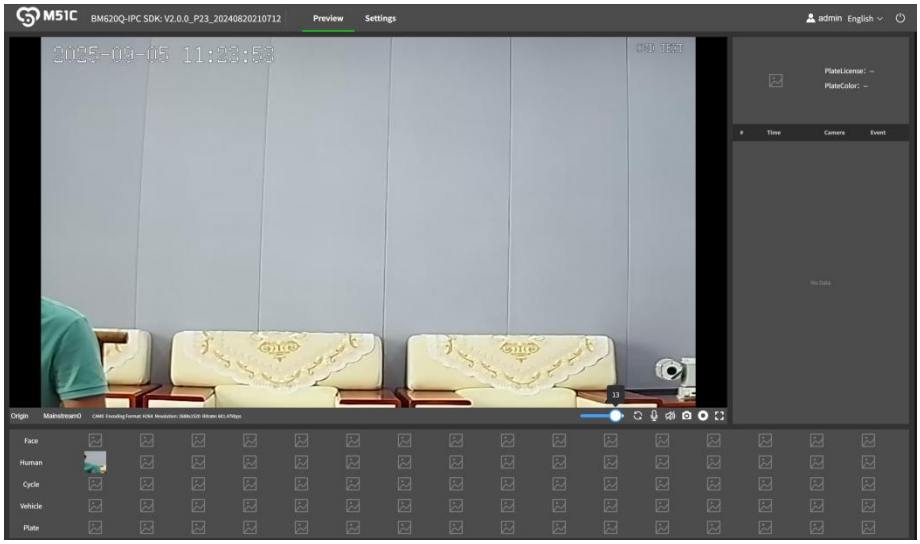

Figure 2.8 Manual Zoom

2.2.2 Configuration page introduction

Click the "Configuration" tab on the header to enter the system configuration page.

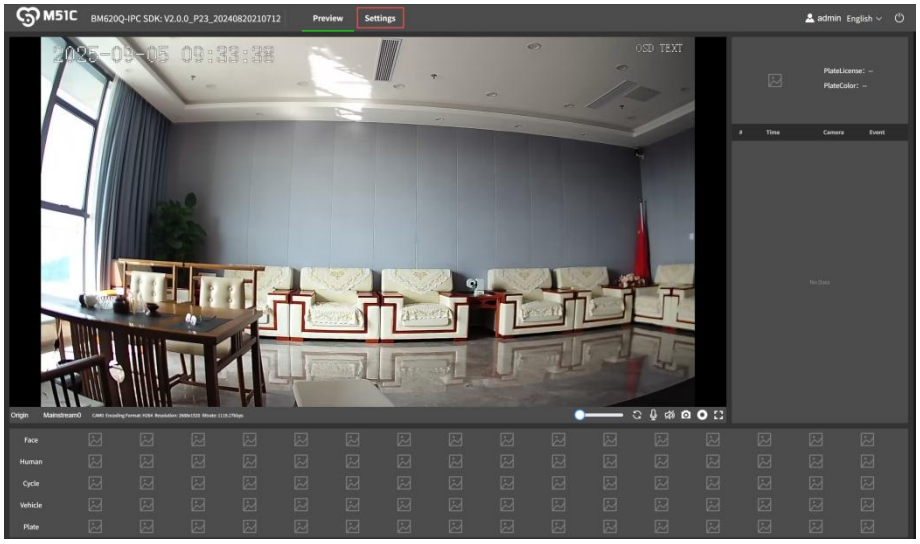

Figure 2.9 Click the Settings tab

As shown in Figure 2.10, the left side of the settings interface has a functional navigation sidebar, which contains multiple configuration items, such as system information, layer overlay, video playback, national standard parameters, network Settings and other operations.

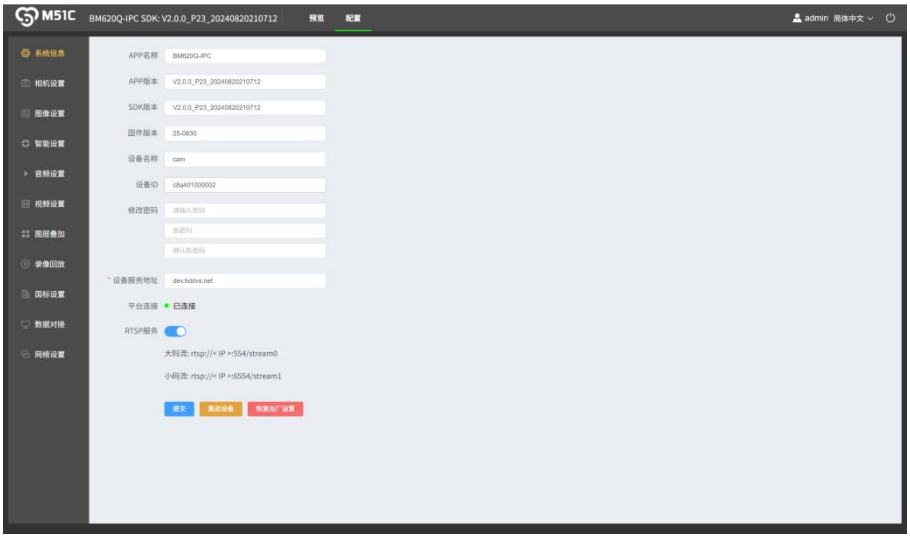

Figure 2.10 System configuration page

2.2.3 system info

As shown in Figure 2.11, on this page, users can modify the device name, account password and device service address. After modification, click the "Submit" button below to save the configuration.

In addition, the page also provides "restart device" and "restore factory Settings" functions, which can be operated as needed.

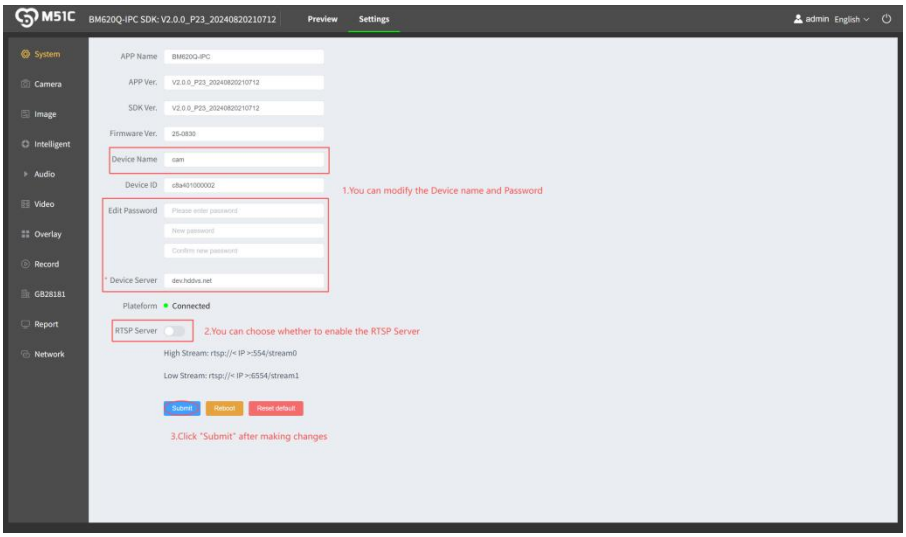

Figure 2.11 System information page

2.2.4 Camera Settings

As shown in Figure 2.12, the camera settings page allows users to configure operational modes and frame rates, with default settings typically remaining active. Additional features include adjustable fill light patterns, night/day mode selection, and support for screen rotation (0°,90°,180°,270°) along with mirror and vertical/horizontal flipping functions.

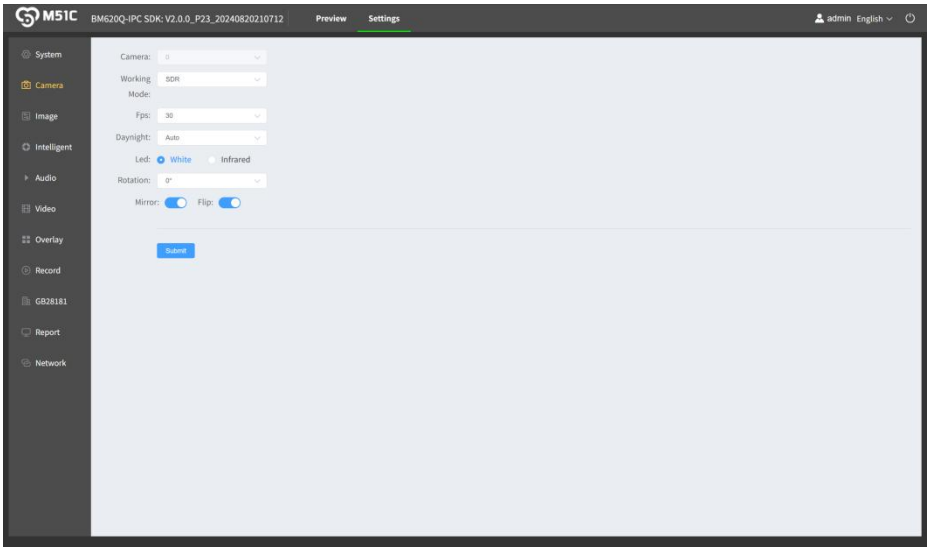

Figure 2.12 Camera Settings Page

About fill lights and day/night mode:

There are two options for the fill light: white and infrared.

The first hemisphere and the third gun machine choose white light fill, and the second hemisphere chooses infrared fill.

There are three types of day and night mode:

Day mode: the fill light is off, and the picture is full color;

Night mode: the fill light is always on, the picture is full color in white light mode, and black and white in infrared mode;

Auto Mode: The camera automatically switches based on ambient lighting. When light is sufficient, it does not activate the fill light and displays full-color images; when lighting dims, it automatically activates the corresponding fill light—— Full-color images are shown when white light is activated, and black-and-white images are displayed when infrared is activated.

If the camera is installed at an Angle that causes the image to be misaligned, you can correct it by enabling the "Mirror" and "Flip" functions. To flip the image 180° , you must enable both the mirror and the up/down flip.

2.2.5 Image Settings

As shown in Figure 2.13, the image setting can select the image properties.

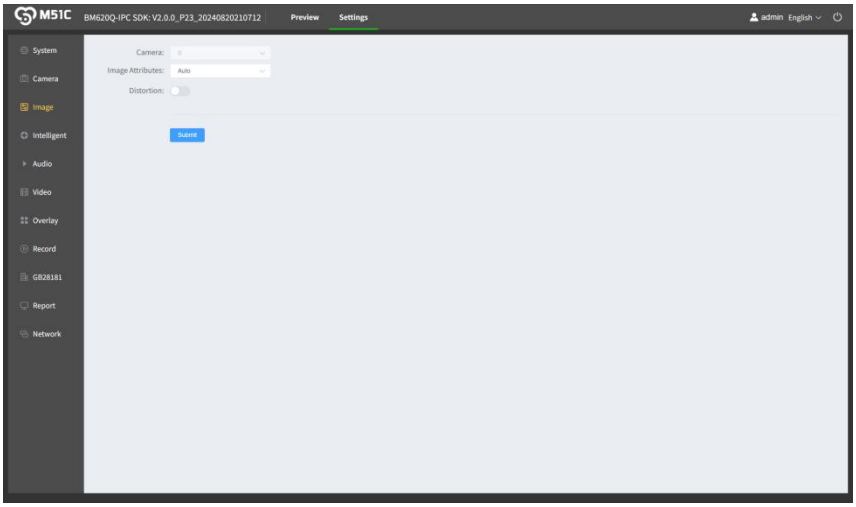

Figure 2.13 Image Settings Page

2.2.6 Smart Settings

The deployment function in the intelligent Settings page is currently unavailable. Users can configure and manage AI algorithms through the PC client software provided by our company.

The relevant functions are being developed and improved continuously, and will be supported through page upgrade in the future. Please look forward to it.

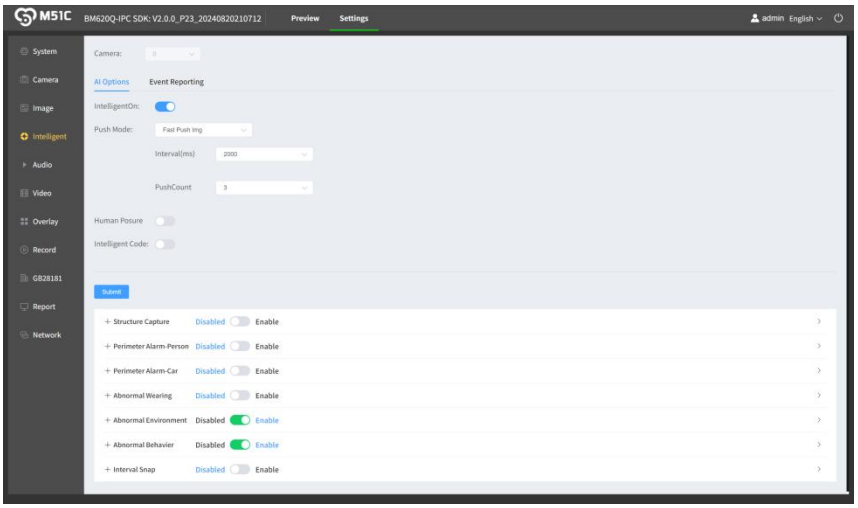

Figure 2.14 Intelligent Settings Page

2.2.7 Audio setup

The audio setup page adjusts microphone and speaker parameters.

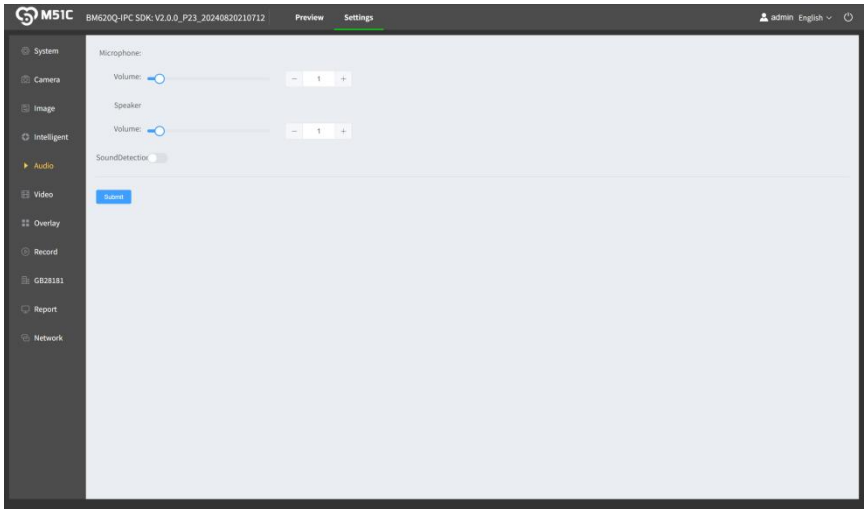

Figure 2.15 Audio Settings Page

2.2.8 Video setup

The video setup page allows you to adjust the bitstream parameters.

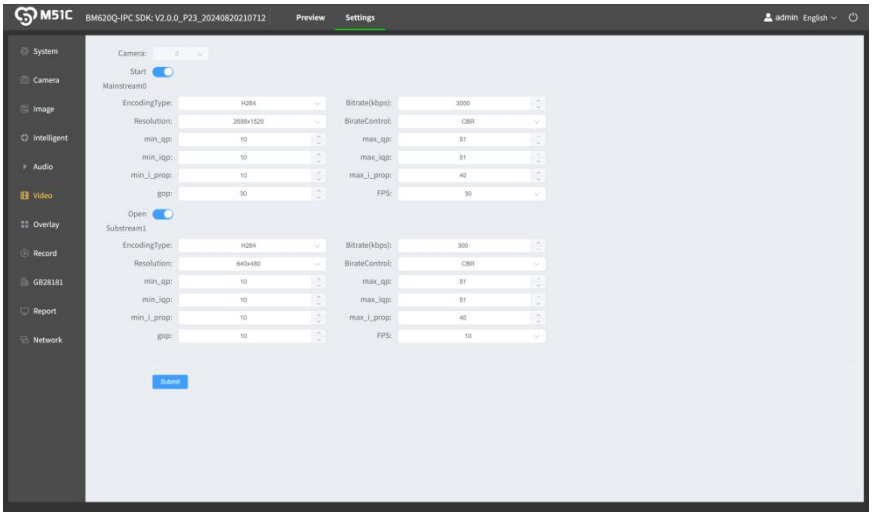

Figure 2.16 Video Settings page

2.2.9 Layer Overlay

On the layer overlay page, you can add text information such as time, location, and channel name to the camera screen for easy identification and management. Please select the video channel (main stream 0 or substream 1) first, and then make relevant Settings.

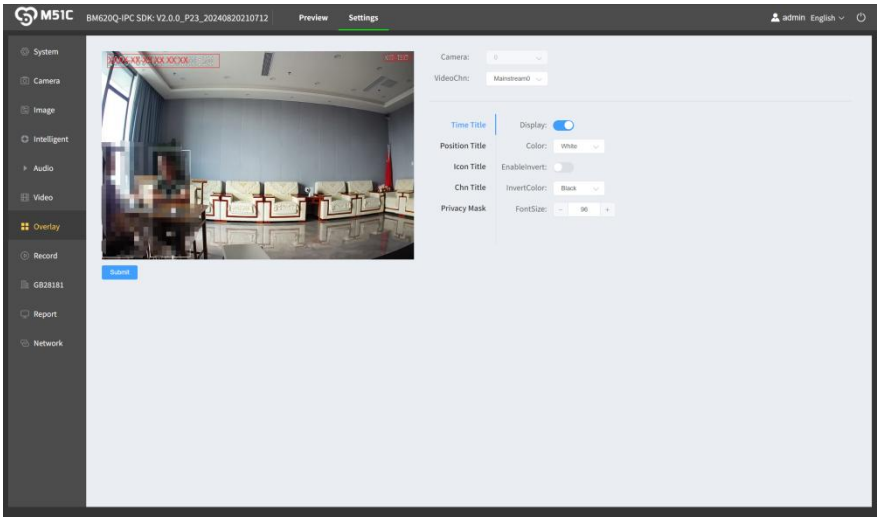

Figure 2.17 Layer overlay page

2.2.10 Record

On the video Record page, you can delete or download video files on the device.

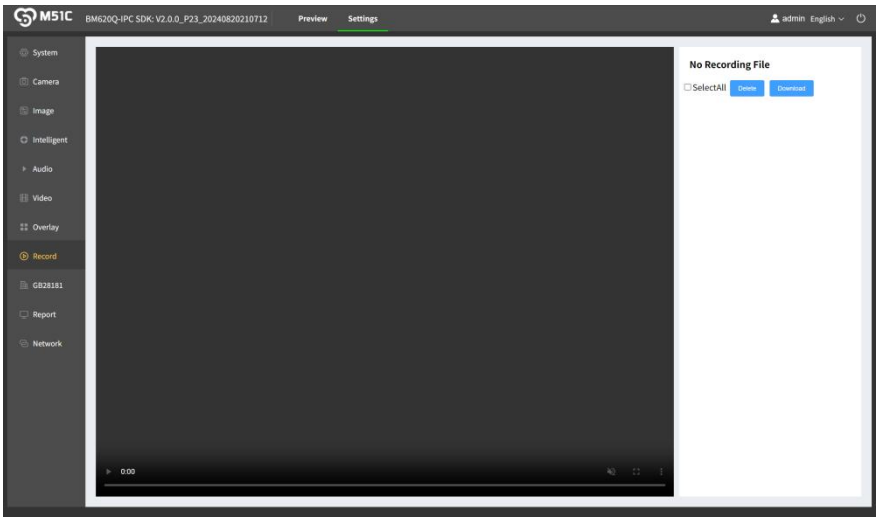

Figure 2.18 Video record page

2.2.11 GB28181

In the GB28181 setting page, you can add national standard parameters.

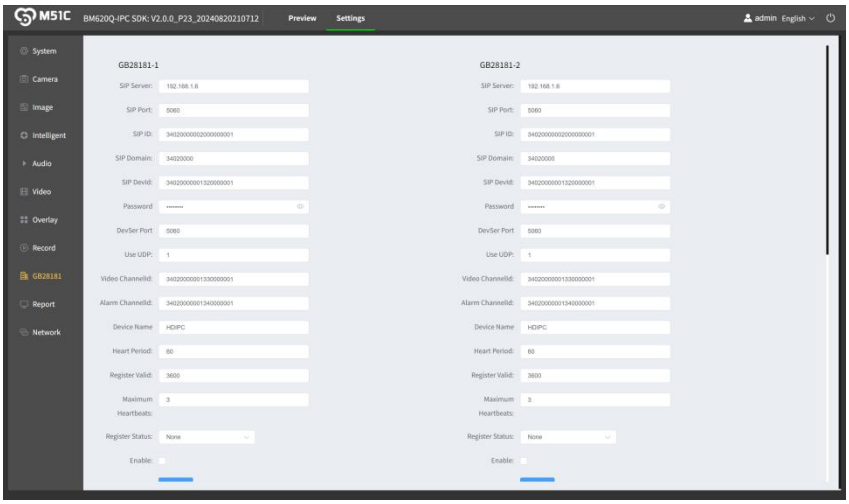

Figure 2.19 GB28181 setting page

2.2.12 Data Report

The function of the data report page is currently unavailable. Users can configure and manage the data interface through the PC client software provided by our company.

The relevant functions are being developed and improved continuously, and will be supported through page upgrade in the future. Please look forward to it.

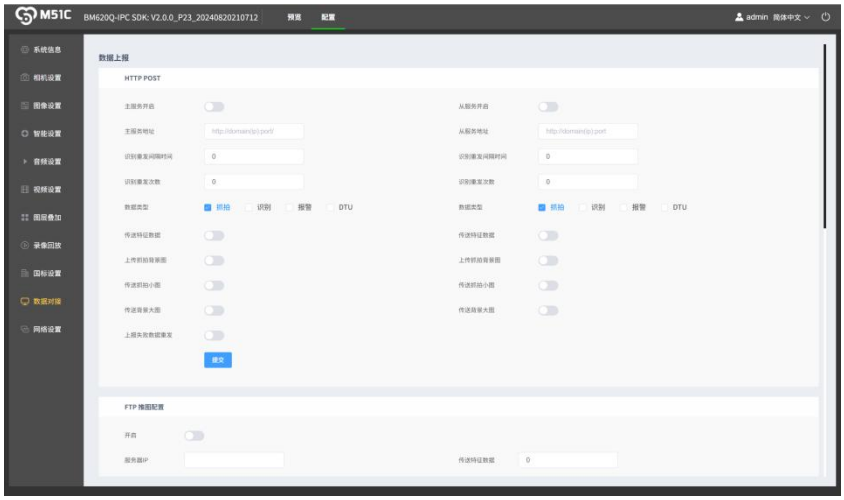

Figure 2.20 Data Report page