



# TrafficX Series Camera User Manual

Version: V1.0  
Date: 2024-03-13

<b>Chapter 1. Introduction.....</b>	<b>4</b>
1.1 Copyright Statement.....	4
1.2 Safety Instruction.....	4
1.3 Revision History.....	5
<b>Chapter 2. Product Introduction.....</b>	<b>6</b>
2.1 Product Overview.....	6
2.2 Hardware Overview.....	7
2.3 Related Documents.....	8
<b>Chapter 3. Configuration Flow.....</b>	<b>9</b>
<b>Chapter 4. Installation.....</b>	<b>11</b>
Installation Angle Recommendations.....	11
Installation Guide.....	13
<b>Chapter 5. Network Connection.....</b>	<b>25</b>
Setting the Camera over the LAN.....	25
Connect the Camera to the PC Directly.....	25
Connect via a Switch or a Router.....	25
Dynamic IP Connection.....	25
<b>Chapter 6. Accessing the Camera.....</b>	<b>27</b>
Assigning an IP Address.....	27
Assigning an IP Address Using Smart Tools.....	27
Assigning an IP Address via Browser.....	31
Accessing from the Web Browser.....	33
<b>Chapter 7. Live Video.....</b>	<b>34</b>
<b>Chapter 8. Settings.....</b>	<b>40</b>
Media.....	40
Video.....	40
Image.....	43
Network.....	49
TCP/IP.....	49
HTTP.....	51
RTSP.....	51
UPNP.....	53

DDNS.....	54
Email.....	55
FTP.....	57
VPN.....	59
More.....	60
Storage.....	61
Traffic.....	64
LPR.....	64
Violation Management.....	84
Smart Search.....	89
Interface.....	92
Post.....	95
System.....	98
System Setting.....	98
Security.....	100
Logs.....	105
Maintenance.....	106
<b>Chapter 9. Services.....</b>	<b>110</b>

# Chapter 1. Introduction


Thank you for purchasing our product. If there is any question or request, please do not hesitate to contact your dealer.

This manual may contain several technically incorrect places or printing errors, and the content is subject to change without notice. The updates will be added into the new version of this manual. We will readily improve or update the products or procedures described in the manual.

This Manual explains how to use and manage Milesight TrafficX Camera. Please read this manual carefully before the operation and retain it for future reference.

## 1.1 Copyright Statement

This manual may not be reproduced in any form or by any means to create any derivative such as translation, transformation, or adaptation without the prior written permission of Xiamen Milesight IoT Co., Ltd (Hereinafter referred to as Milesight).

 reserves the right to change this manual and the specifications without prior notice. The latest specifications and user documentation for all Milesight products are available on our official website <http://www.milesight.com>

## 1.2 Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss. The precaution measures are divided into “Warnings” and “Cautions”

**Warnings:** Serious injury or death may be caused if any of these warnings is neglected.

- This installation must be conducted by a qualified service person and should strictly comply with the electrical safety regulations of the local region
- To avoid risk of fire and electric shock, do keep the product away from rain and moisture before installed.
- Do not touch components such as heat sinks, power regulators, and processors, which may be hot
- Source with DC/AC 24V
- Please make sure the plug is firmly inserted into the power socket
- When the product is installed on a wall or ceiling, the device should be firmly fixed

- If the product does not work properly, please contact your dealer. Never attempt to disassemble the camera by yourself

**Cautions:** Injury or equipment damage may be caused if any of these cautions are neglected.

- Make sure that the power supply voltage is correct before using the camera
- Do not store or install the device in extremely hot or cold temperatures, dusty or damp locations, and do not expose it to high electromagnetic radiation
- Only use components and parts recommended by manufacturer
- Do not drop the camera or subject it to physical shock
- To prevent heat accumulation, do not block air circulation around the camera
- Laser beams may damage image sensors. The surface of image sensors should not be exposed to where a laser beam equipment is used
- Use a blower to remove dust from the lens cover
- Use a soft, dry cloth to clean the surface of the camera. Stubborn stains can be removed using a soft cloth dampened with a small quantity of detergent solution, then wipe dry
- Do not use volatile solvents such as alcohol, benzene or thinners as they may damage the surface finishes
- Save the package to ensure availability of shipping containers for future transportation

## 1.3 Revision History

**Table 1.**

Version	Revision Content	Release Date
V1.0	First release	March 2024

# Chapter 2. Product Introduction

## 2.1 Product Overview

Milesight TrafficX camera is equipped with two 5MP AF lenses, featuring infrared capabilities. It is powered by a next-generation chip and advanced image processing technology. The camera incorporates GPS technology and offers optional 4G cellular module for seamless connectivity. It ensures excellent compatibility and delivers powerful traffic monitoring and analysis capabilities 24/7.

With three robust data supports - **99% capture rate, 98% license plate recognition rate, and high recognizable speed up to 250km/h** - the Milesight TrafficX camera provides reliable and accurate surveillance in various traffic scenarios.

- **Dual-Sensor Evidence Collection**

The dual-sensor of TrafficX camera focusing on different aspects, provides simultaneous evidence with a unified timeline. ANPR sensor focuses on vehicle close-ups and license plate recognition, while the Evidence sensor captures clear full overviews of the surrounding environment. It enables comprehensive and high-precision data and information retrieval.

- **Ace-Level Vehicle Acquisition Capability**

Thanks to the high-performance chip and the revolutionary Frame Parity Flashing and Global Shutter technology, this camera provides a comprehensive and groundbreaking level of enhancement. It achieves an impressive vehicle capture rate of 99% and a vehicle recognition rate of 98%. It is capable of capturing vehicles traveling at speeds up to 250 km/h. With a coverage distance of 50 meters, it showcases extraordinary capabilities in capturing vehicle-related information.

- **Traffic Violation Detection**

AI-based TrafficX series cameras accurately detect and alert violation events such as Red Light Violation (**TS5511-GH**), Reverse Driving Detection, No-plate Vehicle Detection, Black/White List Detection and Vehicle Event Detection based on recognized vehicle features. (e.g. It can be applied to detect truck violations in restricted city areas, detect the unauthorized usage of emergency lanes/bus lanes, etc.)

- **Easy Deployment and Management**

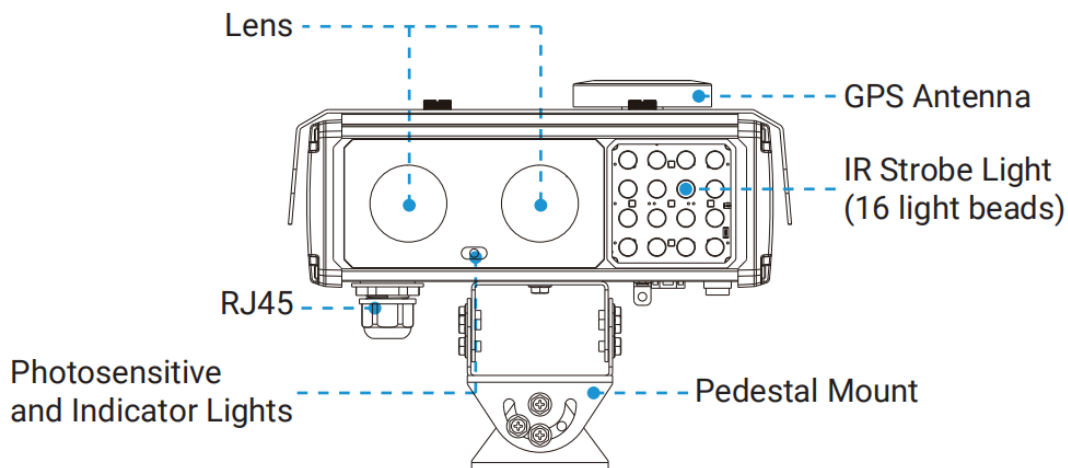
Easy camera deployment, professional-grade IP67 protection and reliable construction. Optional 4G LTE allows wireless transmission via SIM card, eliminating the need for

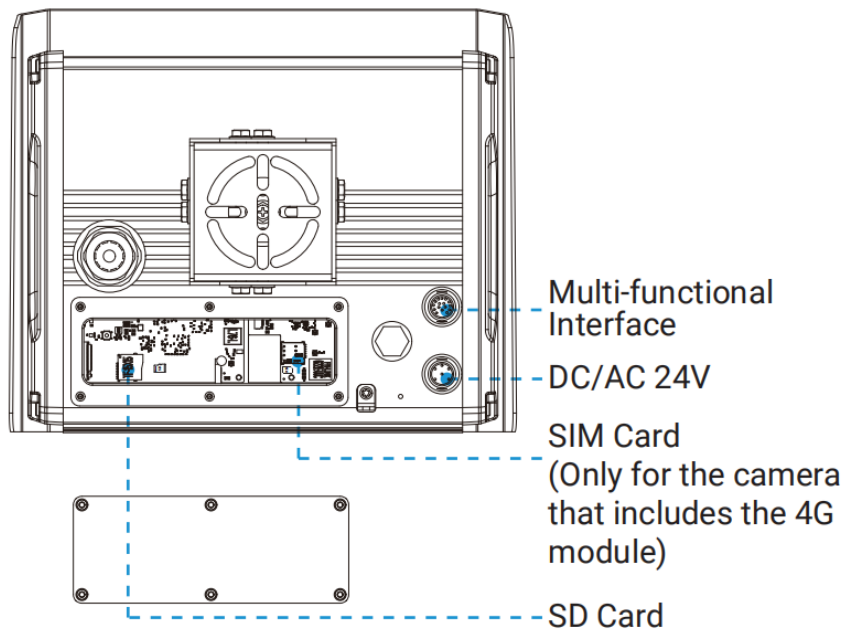
complex network cable connections. Built-in GPS facilitates precise location information collection and management, aiding in vehicle tracking, evidence gathering, and crime investigation.

- **High Compatibility**

The high compatibility sets this camera apart. Unlike some conventional cameras that only record the image on an SD card, this device supports CGI/APIs and TCP/HTTP/MQTT protocols for easy integration, allowing you to transmit customizable POST data to any third-party system.

## 2.2 Hardware Overview





## 2.3 Related Documents

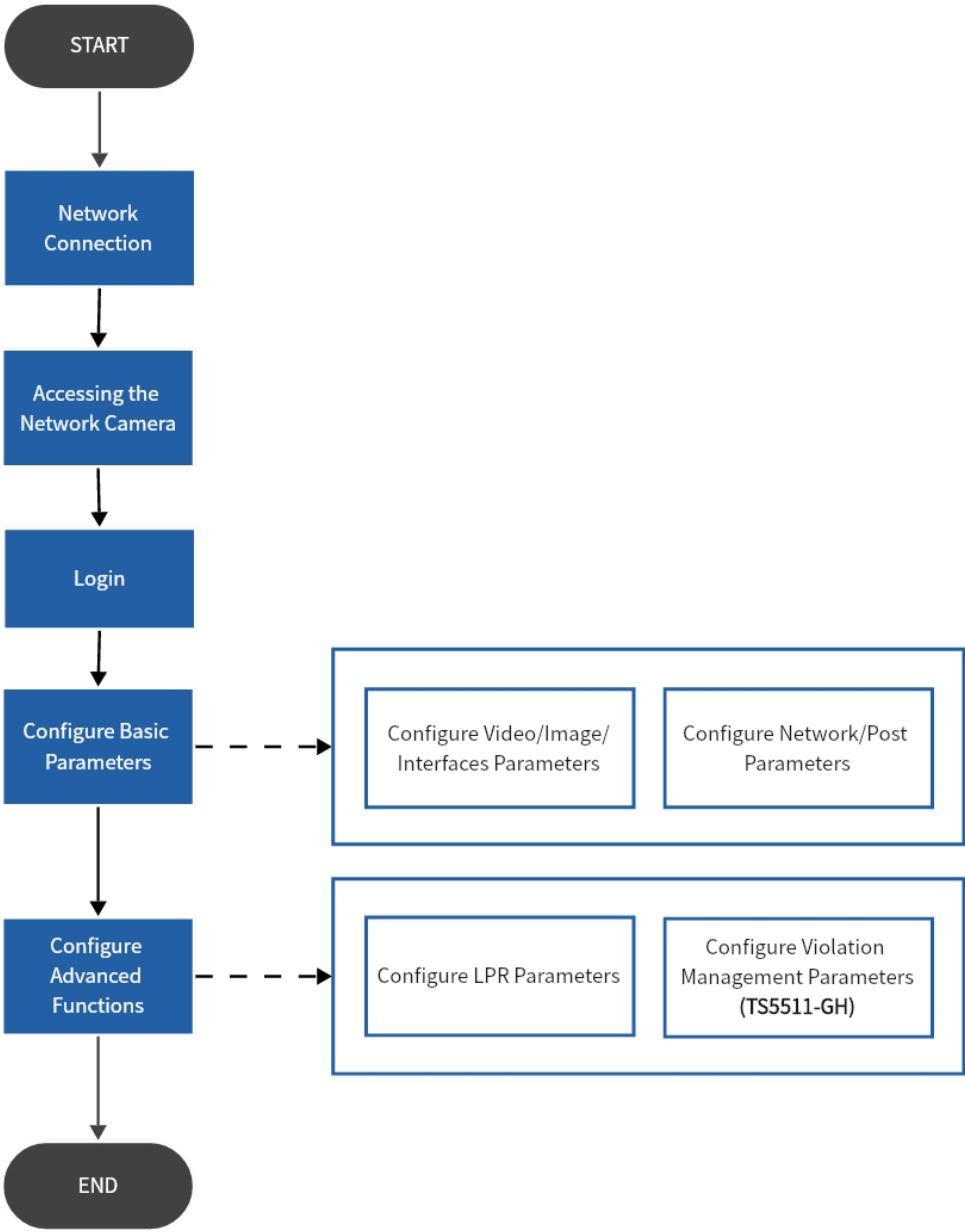
**Table 2.**

Document Type	Link
<b>TrafficX Camera</b>	
Data sheet	<a href="https://resource.milesight.com/milesight/security/document/datasheet/ipc/traffic/trafficx/milesight-trafficx-series-datasheet-en.pdf">https://resource.milesight.com/milesight/security/document/datasheet/ipc/traffic/trafficx/milesight-trafficx-series-datasheet-en.pdf</a>
Quick Start Guide	<a href="https://resource.milesight.com/milesight/security/document/user-manual/intelligent-traffic/milesight-trafficx-series-quick-start-guide-en-v1.0.pdf">https://resource.milesight.com/milesight/security/document/user-manual/intelligent-traffic/milesight-trafficx-series-quick-start-guide-en-v1.0.pdf</a>
Demo - Detailed AI LPR Attributes	<a href="https://www.youtube.com/watch?v=NK1sdRAg-bQ">https://www.youtube.com/watch?v=NK1sdRAg-bQ</a>



# Chapter 3. Configuration Flow

The configuration flow of TrafficX Camera is shown in the following figure.



More configuration details is shown in the following table.

**Table 3. Description of flow**

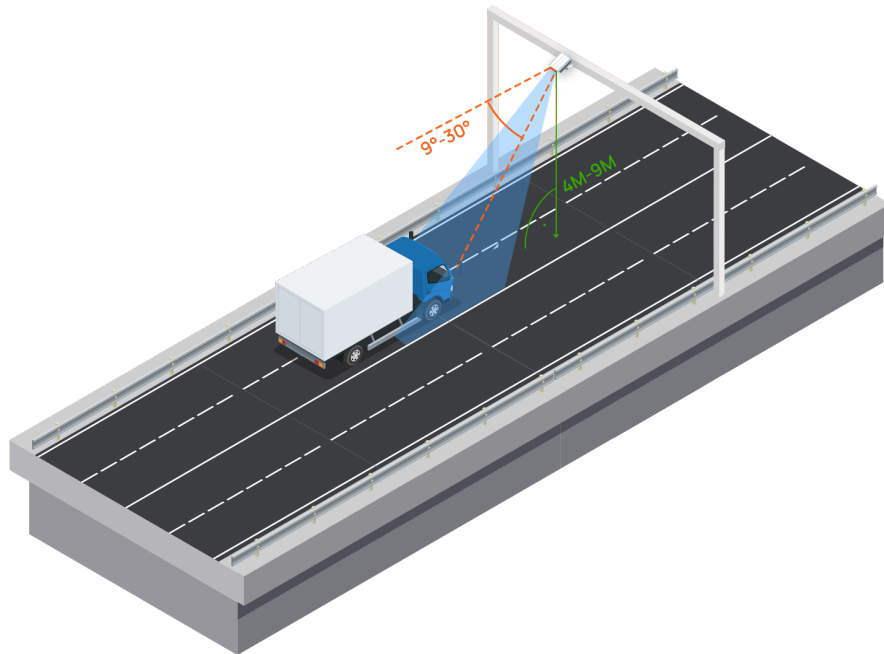
<b>Configuration</b>	<b>Description</b>	<b>Reference</b>
<b>Network Connection</b>	Connect the network camera. You can set the camera over the LAN or dynamic IP connection.	<a href="#">Setting the Camera over the LAN (page 25)</a>
<b>Accessing the Network Camera</b>	Accessing from IP address, web browser and Milesight back-end software are available.	<a href="#">Assigning an IP Address (page 27)</a>
<b>Configure Basic Parameters</b>	After login the camera, you can adjust the video/image/interface/network/post parameters as needed.	<a href="#">Video (page 40)</a> <a href="#">Image (page 43)</a> <a href="#">Interface (page 92)</a> <a href="#">TCP/IP (page 49)</a> <a href="#">Post (page 95)</a>
<b>Configure Advanced Functions</b>	Configure LPR-related settings and other advanced functions.	<a href="#">LPR (page 64)</a> <a href="#">Violation Management (page 84)</a>

# Chapter 4. Installation

## *Installation Angle Recommendations*

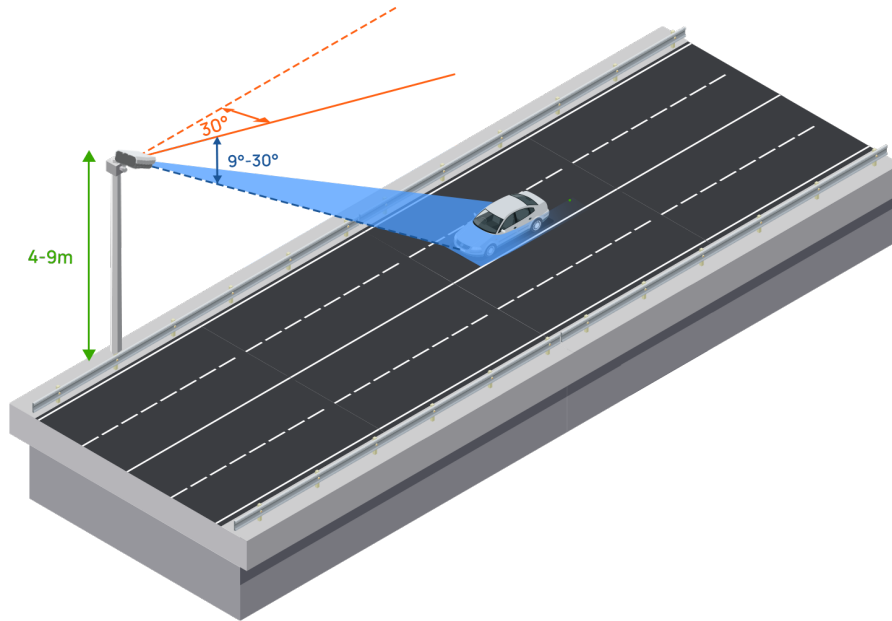
1. Overhead Installation - Top-mounted - Camera positioned above the lane.

- Height: 4-9 m
- Pitch angle: 9°-30°



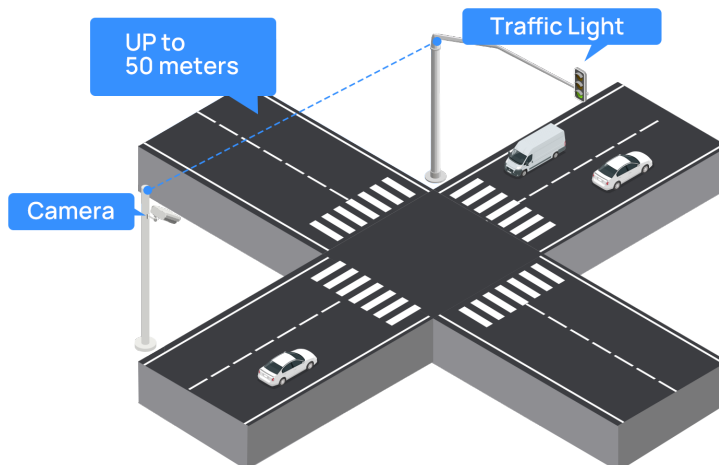
2. Transversal Installation - Side-mounted - Device installed on a utility pole near the road.

- Height: 4-9 m
- Pitch angle: 9°-30°
- Tilt angle: Maximum 30°



 **Note:**

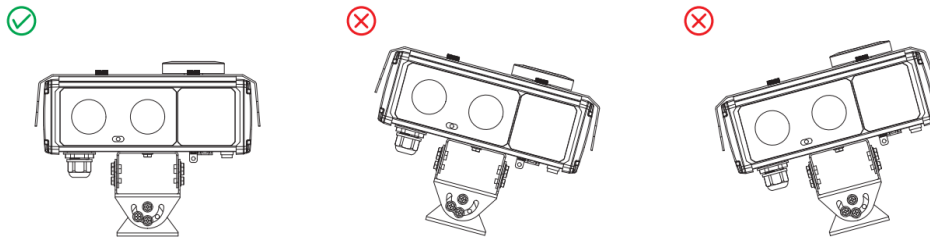
1. You can also use the Auxiliary Installation view in the Live Video interface after accessing the camera to determine the installation angle and field of view. For detailed instructions, please refer to the [Live Video \(page 34\)](#) section.
2. The camera can detect traffic lights up to a distance of 50 meters.



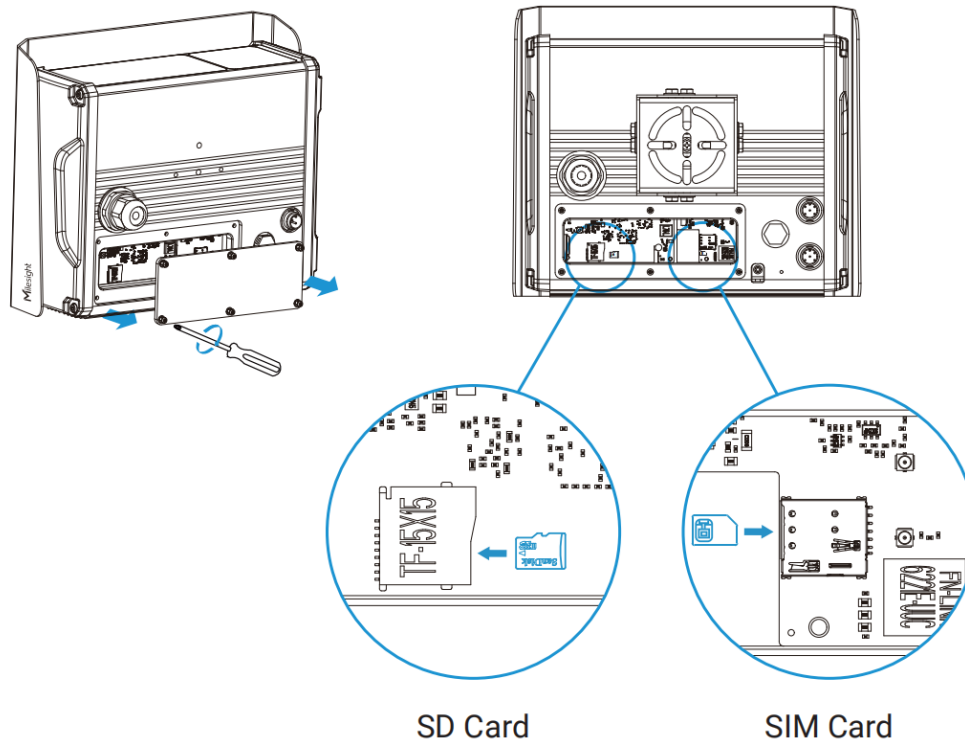
## Installation Guide

### Note:

1. If the installation environment is column-style, it is recommended to purchase the A01 Pole Mount auxiliary bracket for use.
2. If necessary, loosen the screws on the rain cover to adjust it to the appropriate position.
3. The safety latch in the packaging can be used to connect the camera and secure parts together before installation, preventing them from falling off.
4. Please ensure that the camera is installed in the center position, and it is not recommended to adjust or tilt it towards the left or right direction.



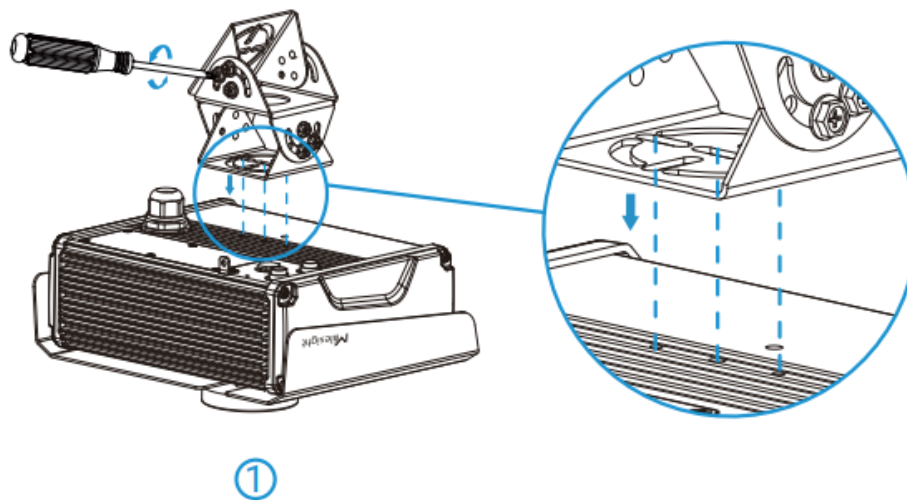
**Step 1:** Use a screwdriver to open the back cover at the bottom of the camera. Insert the SD card and SIM card. Close the back cover and tighten the screws securely.

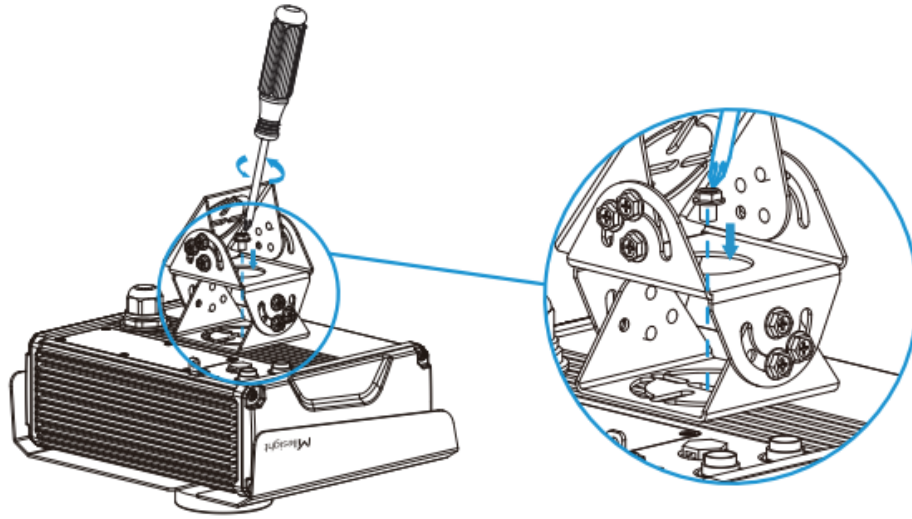


**Note:** Only cameras that include a 4G module require the insertion of a SIM card.

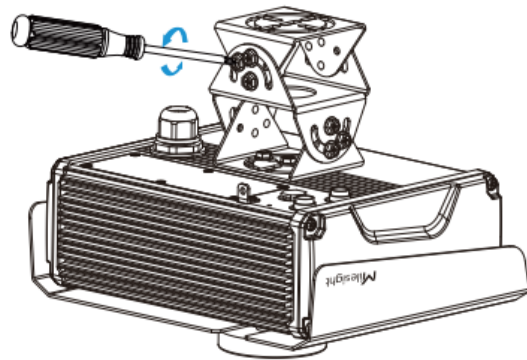
### Installation of the Pedestal Mount

**Step 2:** Loosen the screws on both sides of the bracket as shown in the diagram, and the bracket will be able to rotate. Align the center hole of the mounting bracket with the center hole on the bottom of the camera, insert the screws and tighten them to secure it. After resetting the bracket, tighten the bracket screws.



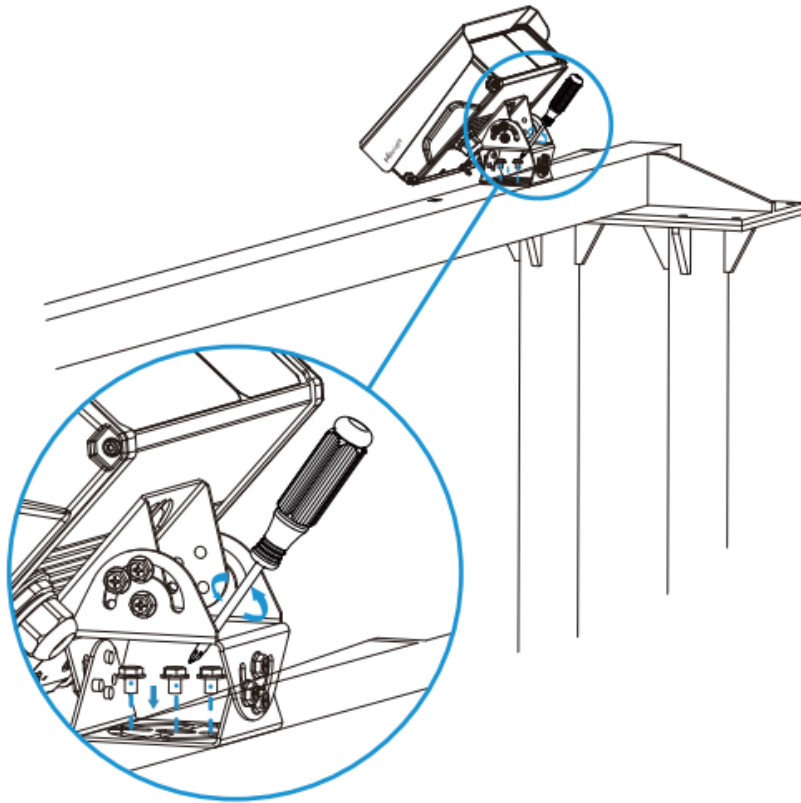


②



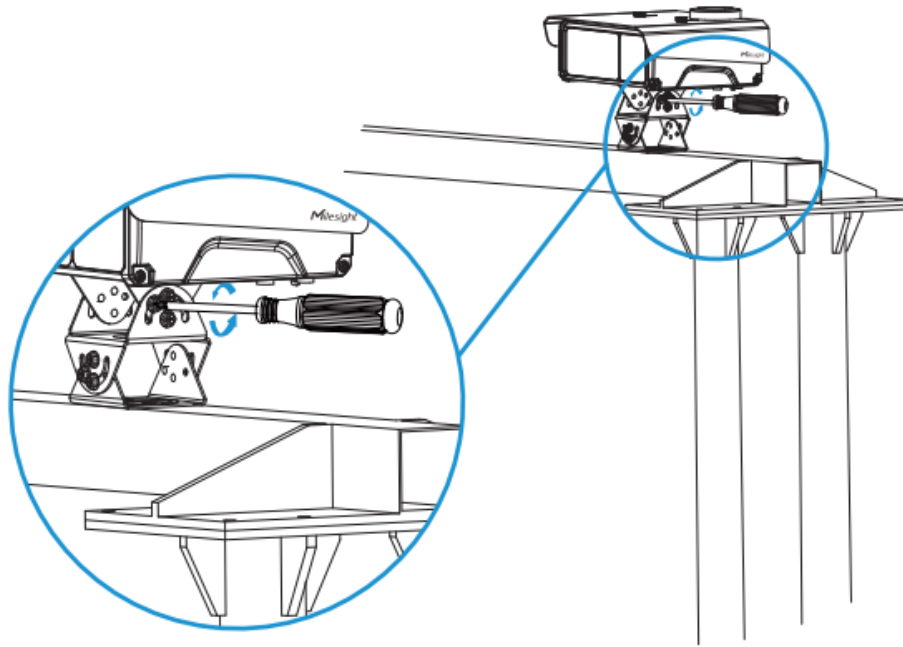
③

**Step 3:** Place the assembled camera with the bracket onto the gantry. Use screws to secure the bracket to the gantry.



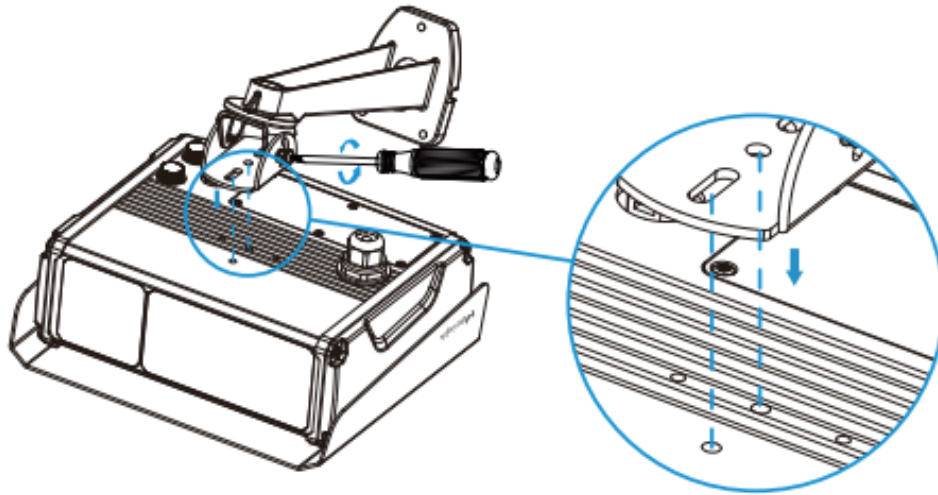
**Step 4:** To adjust the camera angle, loosen the screws indicated on the bracket as shown in the diagram. The bracket can then be rotated for adjustment. Once it is properly adjusted, tighten the screws to secure the bracket in place.



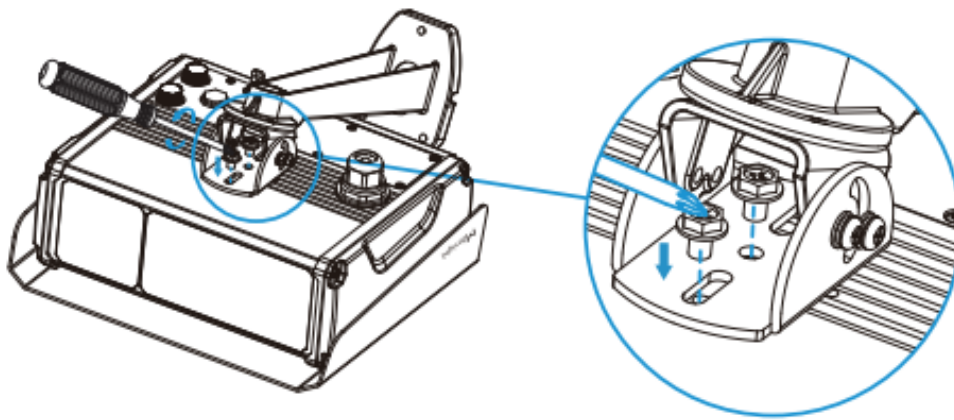


### Installation of the Wall Mount Bracket

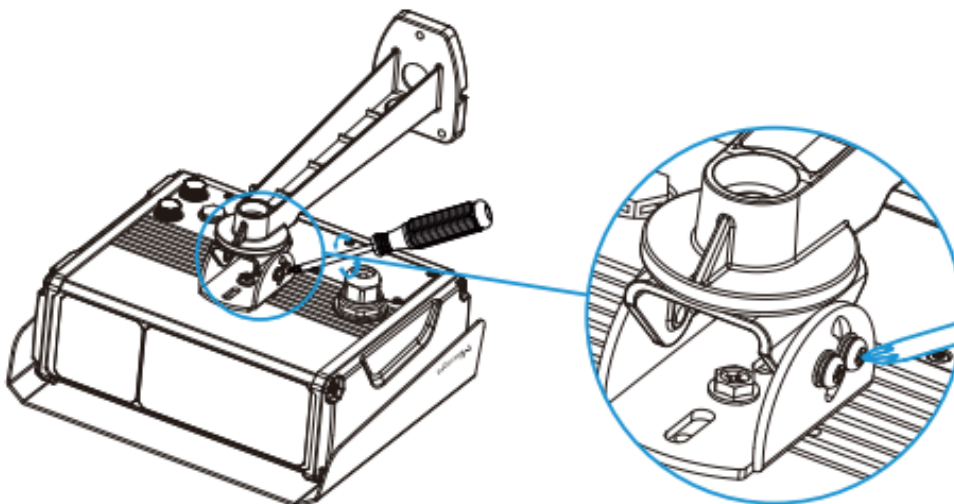
**Step 2:** Loosen the screws on both sides of the bracket as shown in the diagram, and the bracket will be able to rotate. Align the center hole of the wall mount bracket with the center hole on the bottom of the camera, insert the screws and tighten them to secure it. After resetting the bracket, tighten the bracket screws.



①

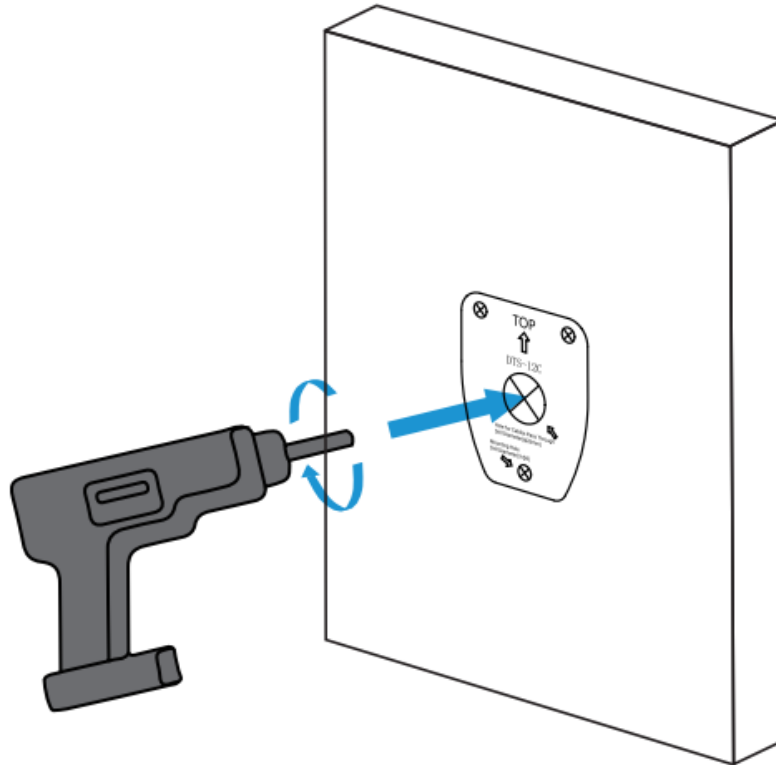


②



③

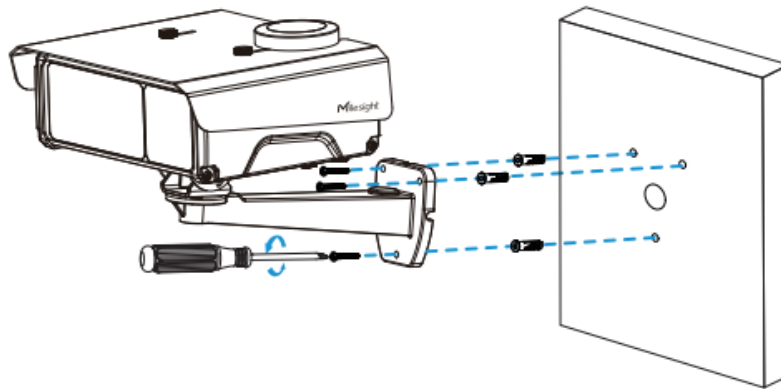
**Step 3:** According to the instructions on the perforation-assisted stickers, punch holes at the corresponding installation positions on the vertical plane.



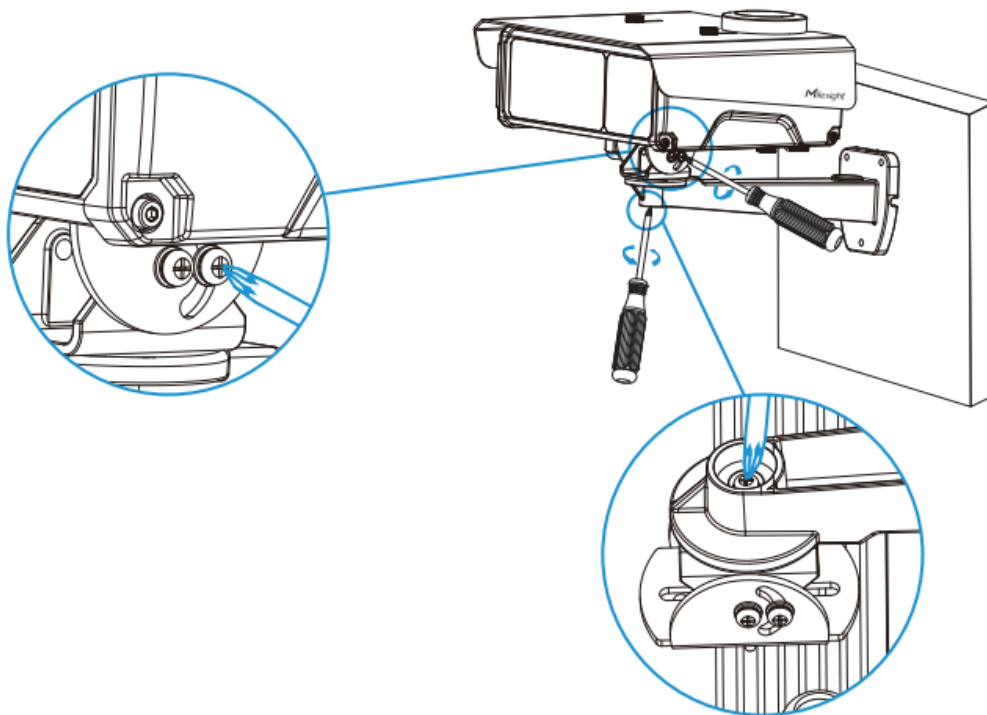
 **Note:**

1. Inspect the condition of the installation surface to ensure sufficient support and strength, avoiding wall detachment or collapse.
2. Before drilling, please ensure to carefully review the hole instructions on the sticker. The diameter of the three screw holes should be #8mm to ensure a secure installation. The hole intended for cable passage should have a diameter of #26mm to facilitate smooth wiring without any tension or interference.

**Step 4:** Align the bracket with the screw holes on the surface, and secure the camera bracket using screws.



**Step 5:** To adjust the camera angle, loosen the screws indicated on the bracket as shown in the diagram. The bracket can then be rotated for adjustment. Once it is properly adjusted, tighten the screws to secure the bracket in place.

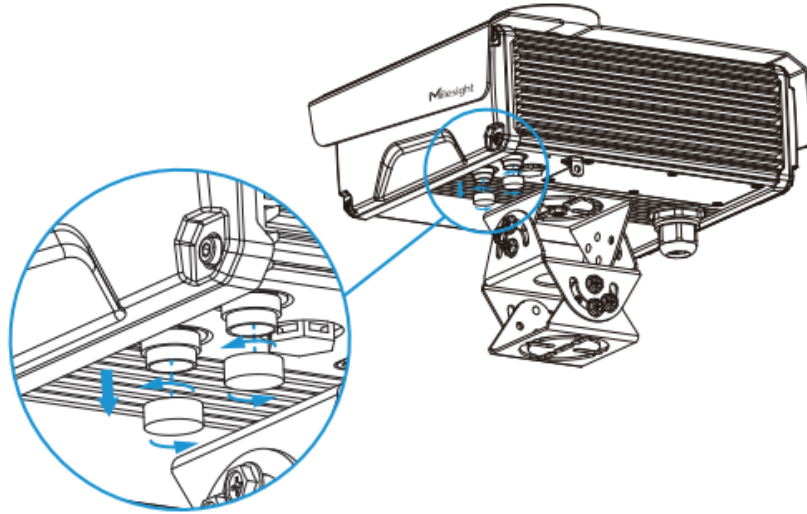


 **Note:**

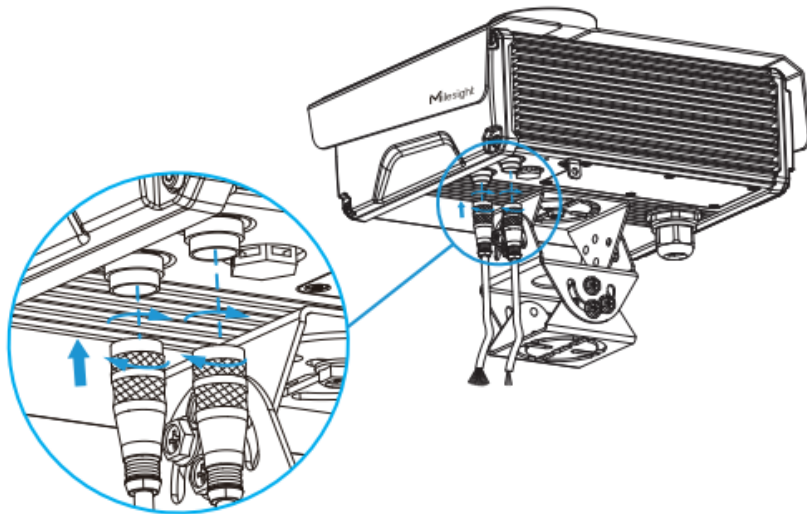
The screws in the bracket section can be adjusted to rotate up and down. The large screw at the bottom can be adjusted to rotate left and right.

**Cable Connection**

**Step 1:** Unscrew the protective cover at the indicated position on the camera, remove the protective covers from the two tail wires, connect them to their respective positions, and tighten the threaded connectors.



①



②

 **Note:**

**Table 4. The options of the multi-functional cables**

Color	Function
Yellow	IN1

Color	Function
White	IN2
Blue	IN3
Red	IN4
Orange	GND
Black	ALARM OUT
Gray	ALARM OUT

**Table 5. The options of the multi-functional cables**

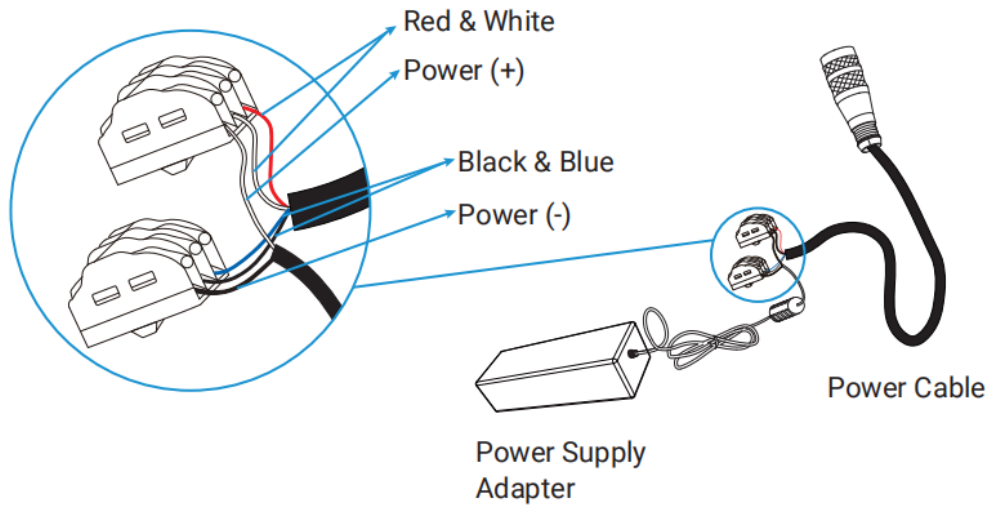
Color	Function
Pink	RS485 A
Green	RS485 B
Light Blue	Strobe Out1
Brown	Strobe Out2
Purple	Strobe GND
Red&White	SYNC
Black&White	SYNC GND

**Table 6. The options of the power cables**

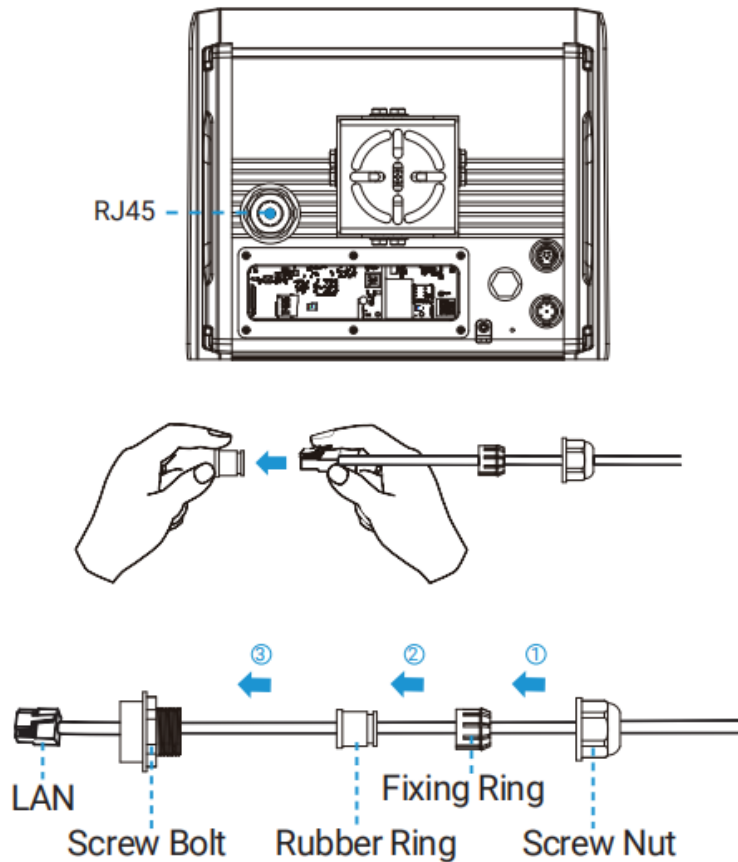
Color	Function
Red	Power+
White	Power+
Black	Power-
Blue	Power-

To connect the power cable to the power adapter, follow these steps:

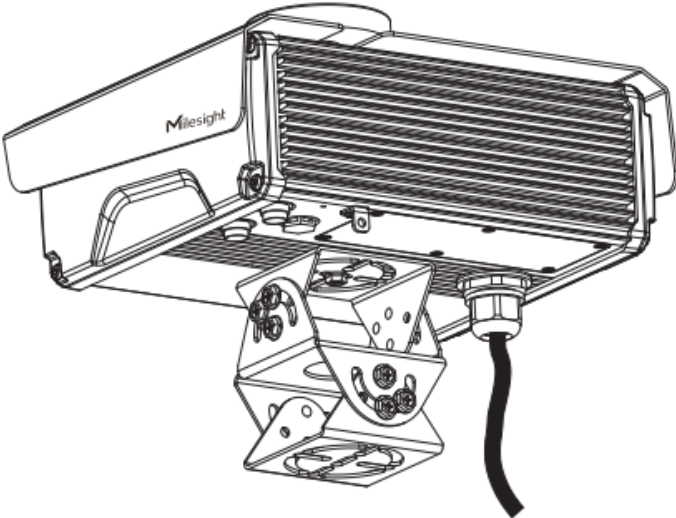
1. The power cable has 4 connectors: red and white cable connectors, as well as black and blue cable connectors.
2. Use one terminal with 3 holes to connect the red and white power cables. There is an additional hole for connecting the positive power supply wire of the adapter.
3. Use the other terminal to connect the black and blue power cables. Another hole is designated for connecting the negative power supply wire of the adapter.



**Step 2:** Remove the waterproof protective cover of the RJ45 interface and take out the rubber ring. Use an Ethernet cable to connect the following two in sequence.



**Step 3:** Insert the Ethernet port into the interface and tighten the waterproof protective cover.





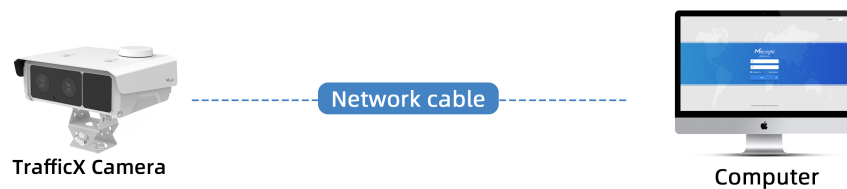
# Chapter 5. Network Connection

## *Setting the Camera over the LAN*

Connecting the camera to a switch or a router is the most common connection method. The camera must be assigned an IP address that is compatible with its LAN.

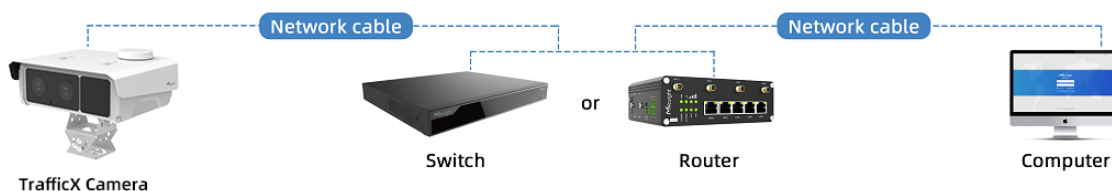
### *Connect the Camera to the PC Directly*

In this method, only the computer connected to the camera will be able to view the camera. The camera must be assigned a compatible IP address to the computer. Details are shown as the following figure.



### *Connect via a Switch or a Router*

Refer to the following figure to set network camera over the LAN via the switch or router.



## *Dynamic IP Connection*

Step1: Connect the network camera to a router;

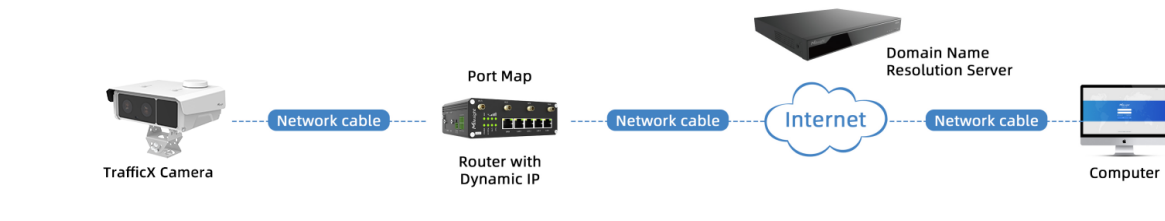
Step2: On the camera, assign a LAN IP address, the Subnet mask and the Gateway;

Step3: On the router, set port forwarding. E.g. 80, 8000 and 554 ports. The steps for port forwarding vary depending on different routers. Please look up the router's user manual for assistance with port forwarding;

Step4: Apply a domain name from a domain name provider;

Step5: Configure the DDNS settings in the setting interface of the router;

Step6: Visit the camera via the domain name.



# Chapter 6. Accessing the Camera

## Assigning an IP Address

The Network Camera must be assigned an IP address to be accessible. The default IP address of Milesight network cameras is 192.168.5.190.

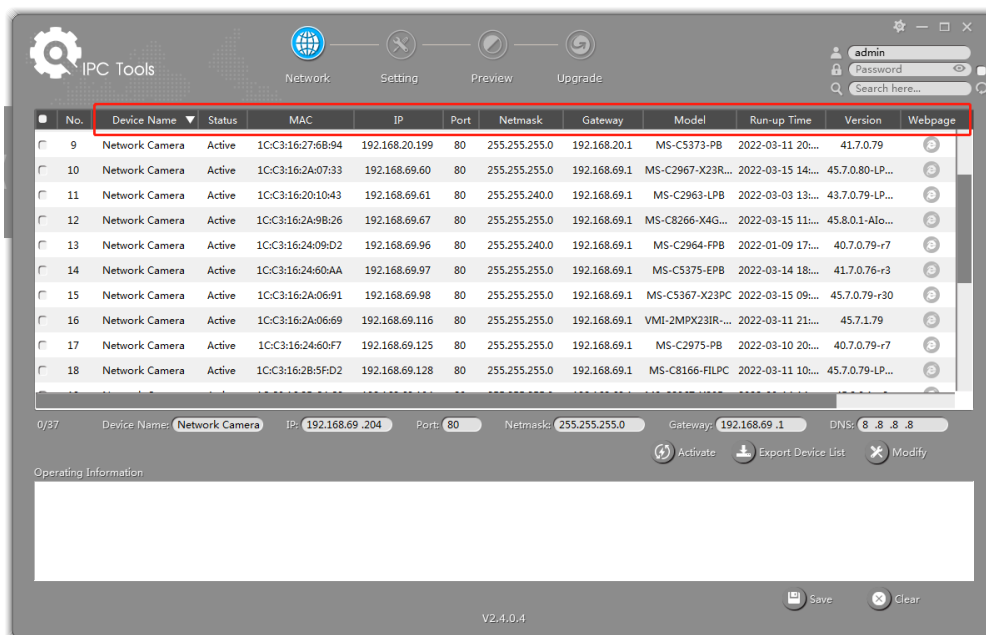
You can also change the IP address of the camera via Smart Tools or browser. Please connect the camera in the same LAN of your computer.

## Assigning an IP Address Using Smart Tools

Smart Tools is a software tool which can automatically detect multiple online Milesight network cameras in the LAN, set IP addresses, and manage firmware upgrades. It's recommended to use when assigning IP addresses for multiple cameras.

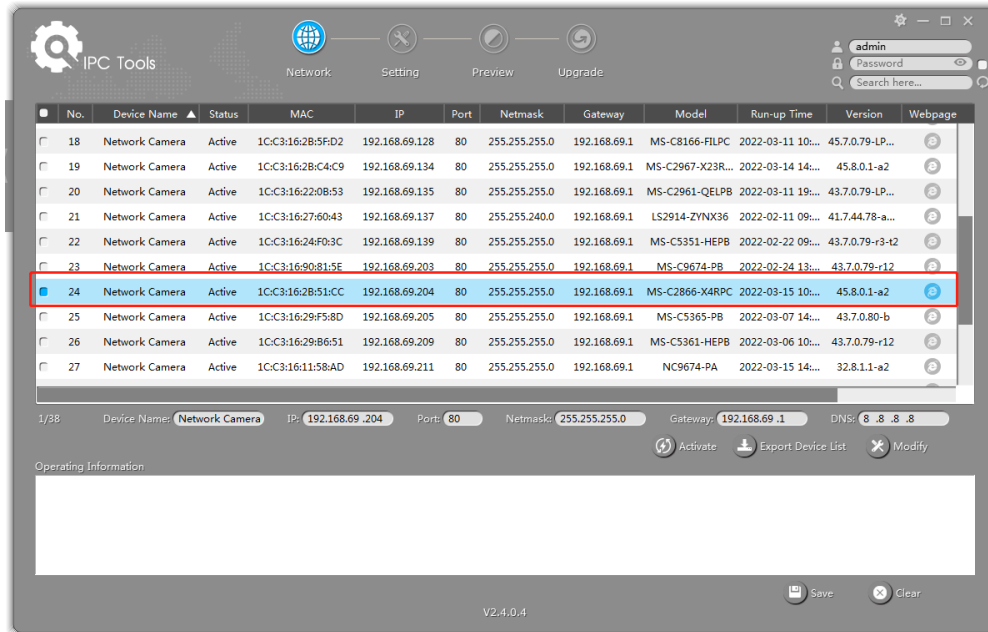
**Step1:** Install Smart Tools (The software could be downloaded from our website);

**Step2:** Start Smart Tools, click the IPC Tools page, then enter the device information, such as IP address, MAC address, Status, Port number, Netmask, and Gateway, then all related Milesight network camera in the same network will be displayed. Details are shown as the figure below;

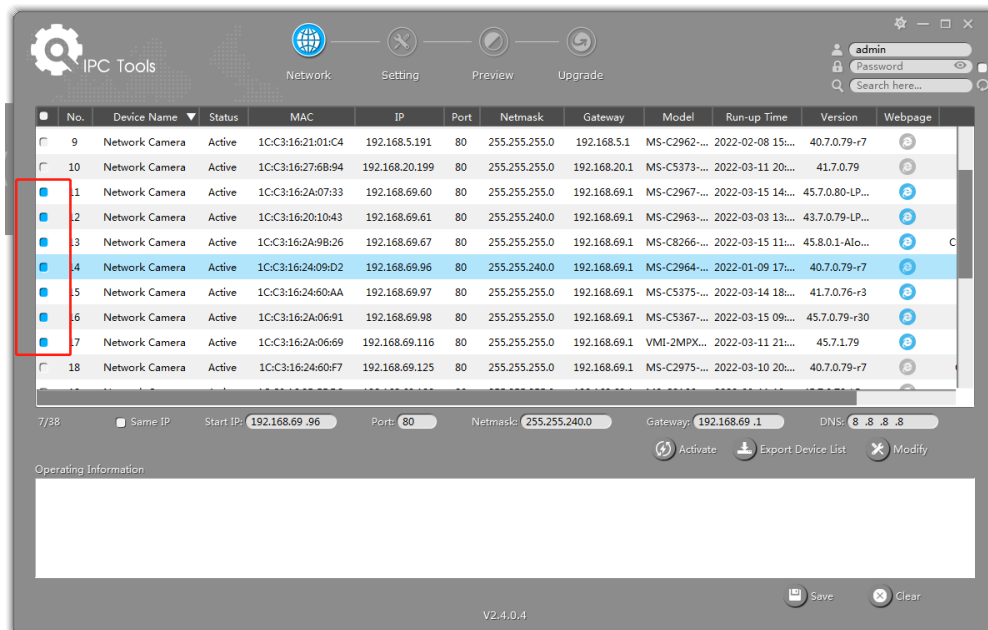


**Step3:** Select a camera or multiple cameras according to the MAC addresses;

*Select single camera:*



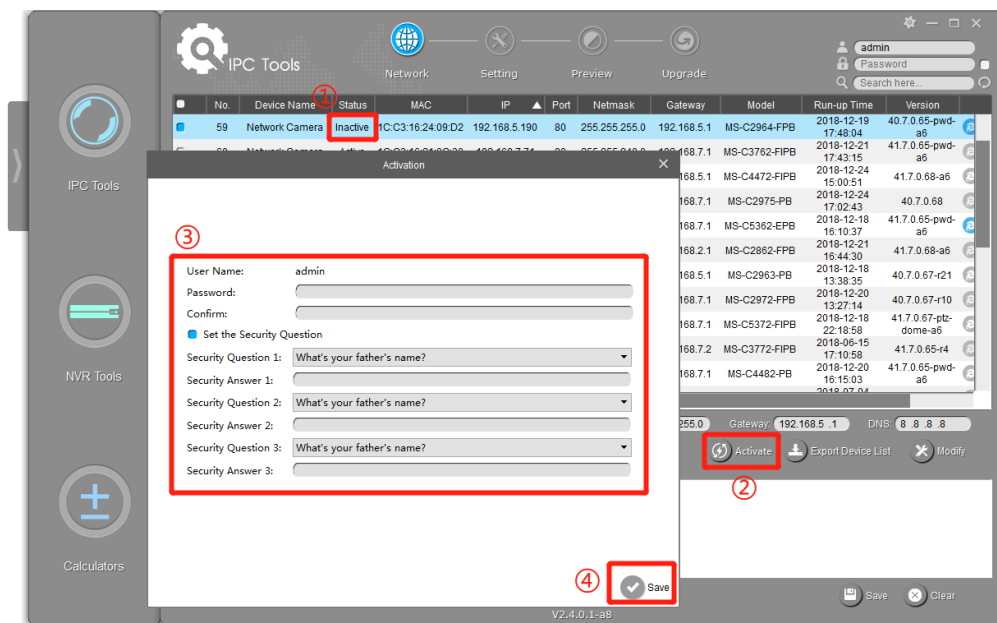
*Select multiple cameras:*



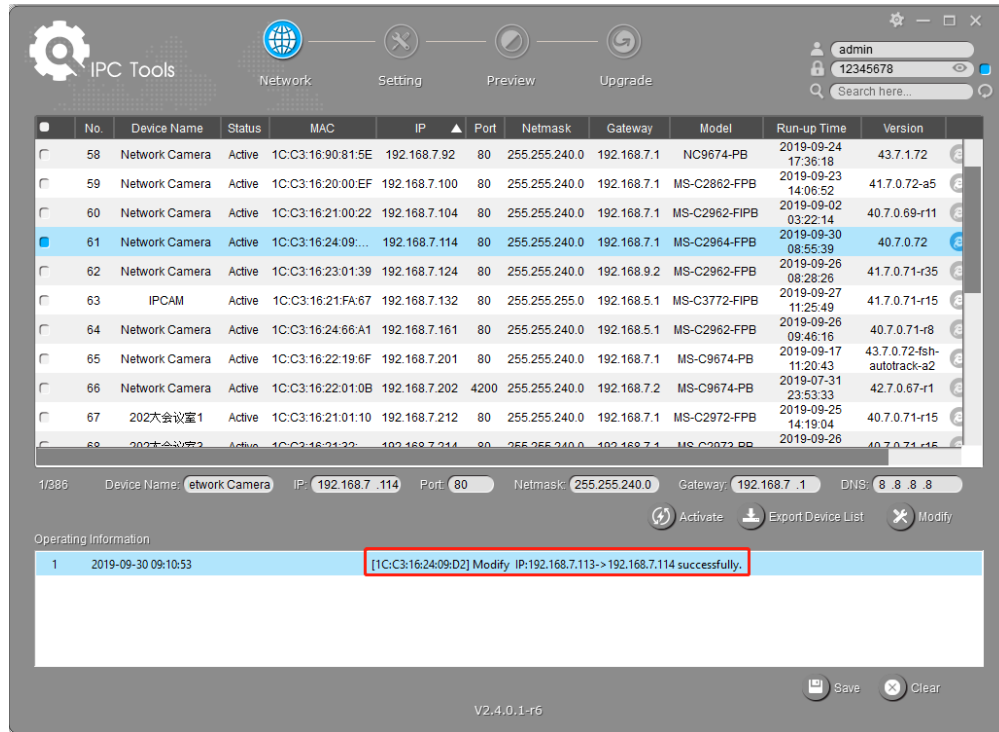
**Step4:** If the selected camera shows "Inactive" in the status bar, click "Activate" to set the password when using it for the first time. You can also set the security questions when activating the camera in case that you forget the password (You can reset the password by answering three security questions correctly). Click 'Save' and it will show that the activation was successful.

 **Note:**

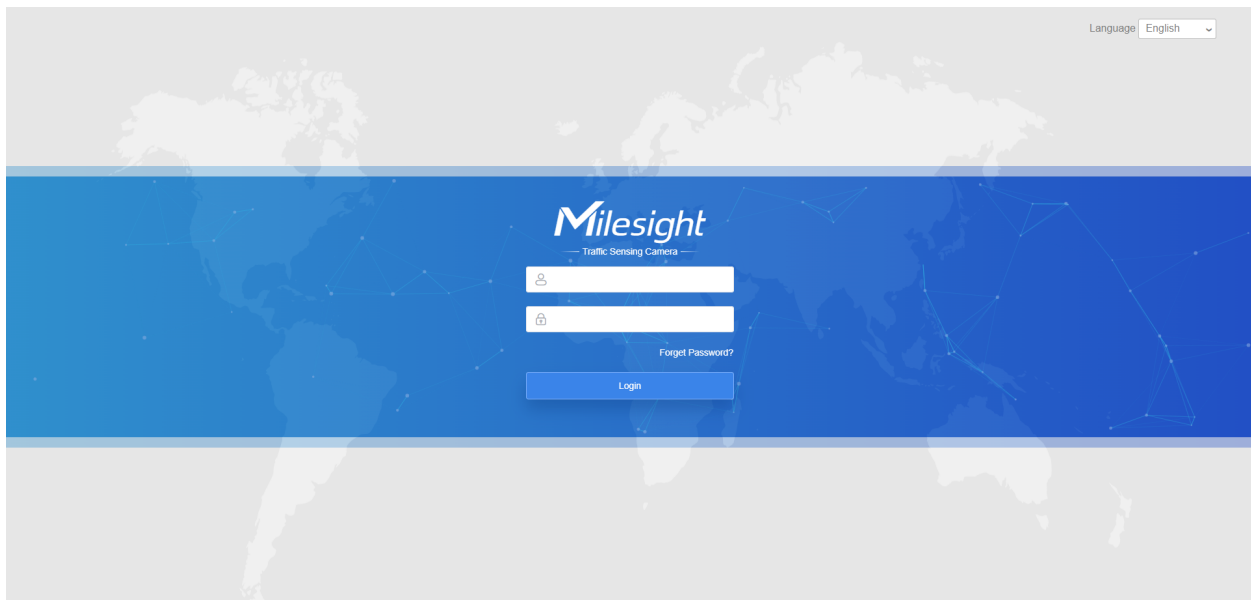
- Password must be 8 to 32 characters long, contain at least one number and one letter.
- You need to upgrade Smart Tools version to V2.4.0.1 or above to activate the camera.



**Step5:** After activation, you can change the IP address or other network values, and then click "Modify" button.



**Step6:** By double clicking the selected camera or the browser of interested camera, you can access the camera via web browser directly. The Internet Explorer window will pop up.



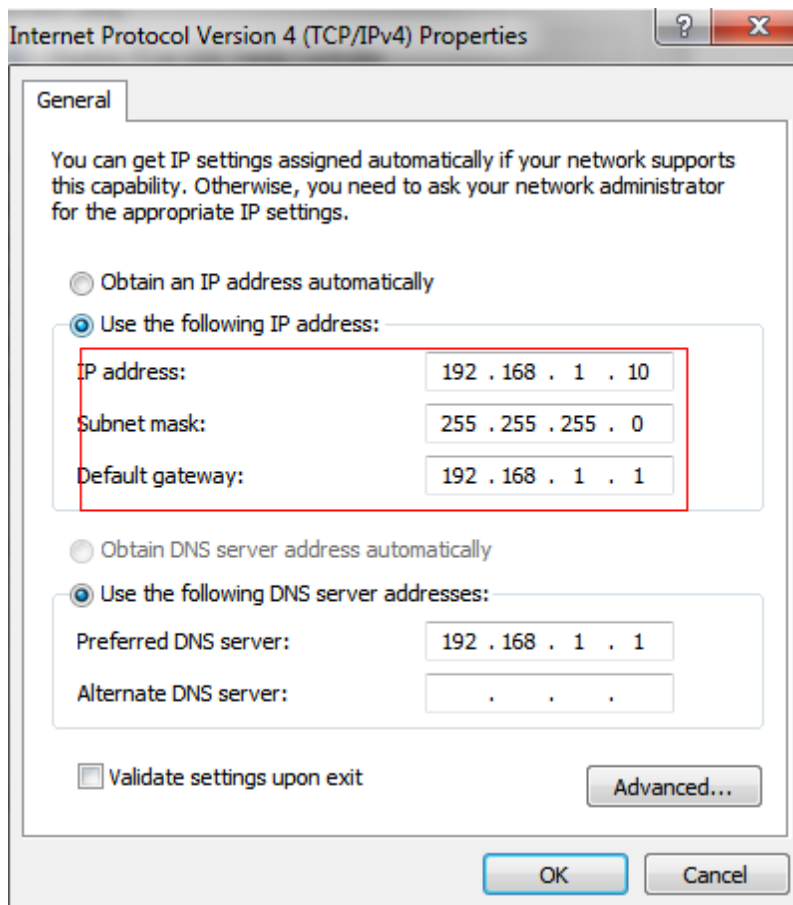
More usage of Smart Tools, please refer to the **Smart Tools User Manual**.

## Assigning an IP Address via Browser

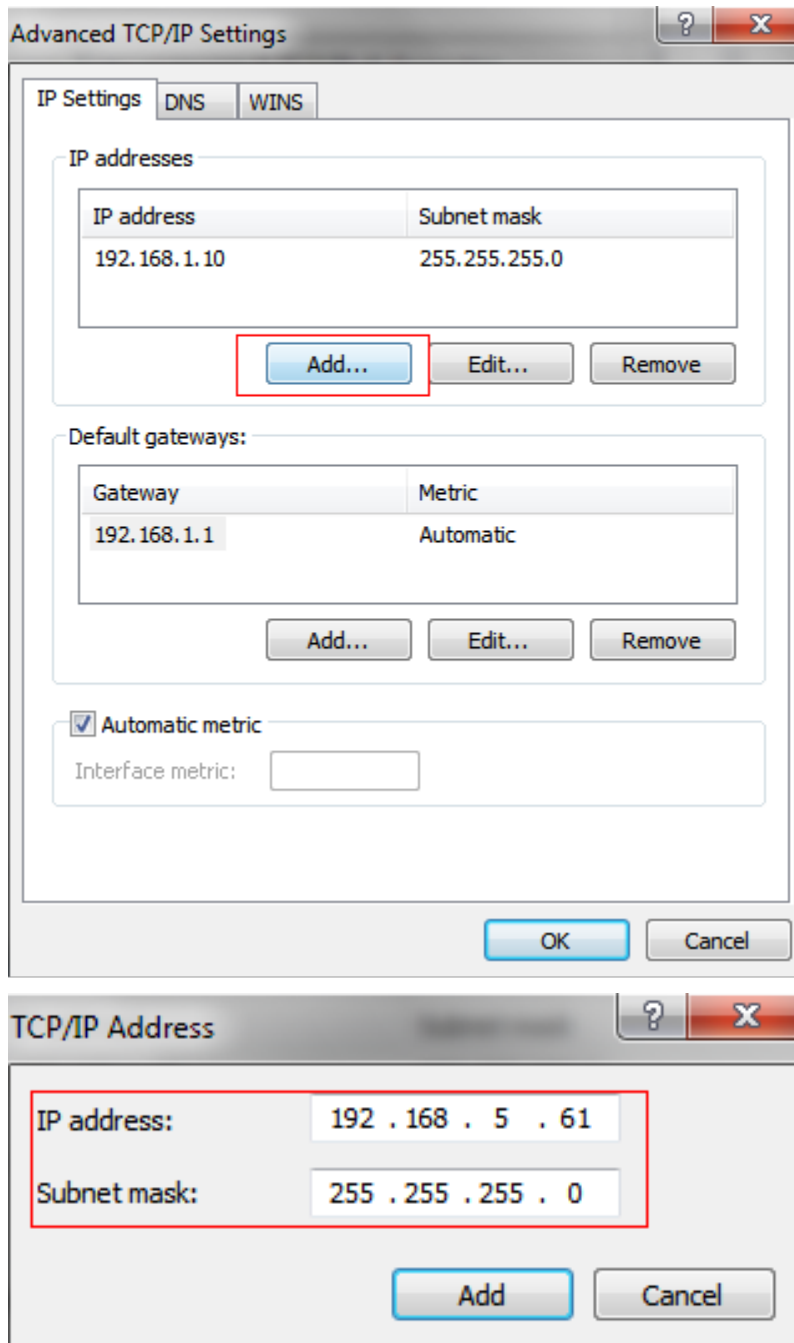
If the network segment of the computer and that of the camera are different, please follow the steps to change the IP address:

**Step1:** Change the IP address of computer to 192.168.5.0 segment, here are two ways as below:

**a.** Start-->Control Panel-->Network and Internet Connection-->Network Connection-->Local Area Connection, and double click it;



**b.** Click “Advanced”, and then click “IP settings”--> “IP address”--> “Add”. In the pop-up window, enter an IP address that in the same segment with Milesight network camera ( e.g. 192.168.5.61, but please note that this IP address shall not conflict with the IP address on the existing network);



**Step2:** Start the browser. In the address bar, enter the default IP address of the camera: <http://192.168.5.190>;

**Step3:** You need to set the password first when using it for the first time. And you can also set three security questions for your device after activation. Then you can log in to the camera with the user name (admin) and a custom password.

 **Note:**



- Password must be 8 to 32 characters long, contain at least one number and one letter.
- You can click the “forget password” in login page to reset the password by answering three security questions when you forget the password, if you set the security questions in advance.

**Step4:** After login, please select “Settings” --> “Network” --> “TCP/IP”. The Network Settings page appears (Shown as below Figure);

The screenshot displays the 'Network Settings' page for a Mlesight Traffic Sensing Camera. The interface includes a sidebar with navigation options like Media, Network, Storage, Traffic, Interfaces, Post, and System. The main content area is titled 'TCP/IP' and is divided into three sections: IPv4, IPv6, and MTU. In the IPv4 section, the 'Static' radio button is selected, and the IP address is set to 192.168.64.156. The IPv6 section shows 'Manual' as the mode. The MTU section has a value of 1500. A 'Save' button is located at the bottom of the form.

**Step5:** Change the IP address or other network values. Then click “Save” button;

**Step6:** The change of default IP address is completed.

## Accessing from the Web Browser

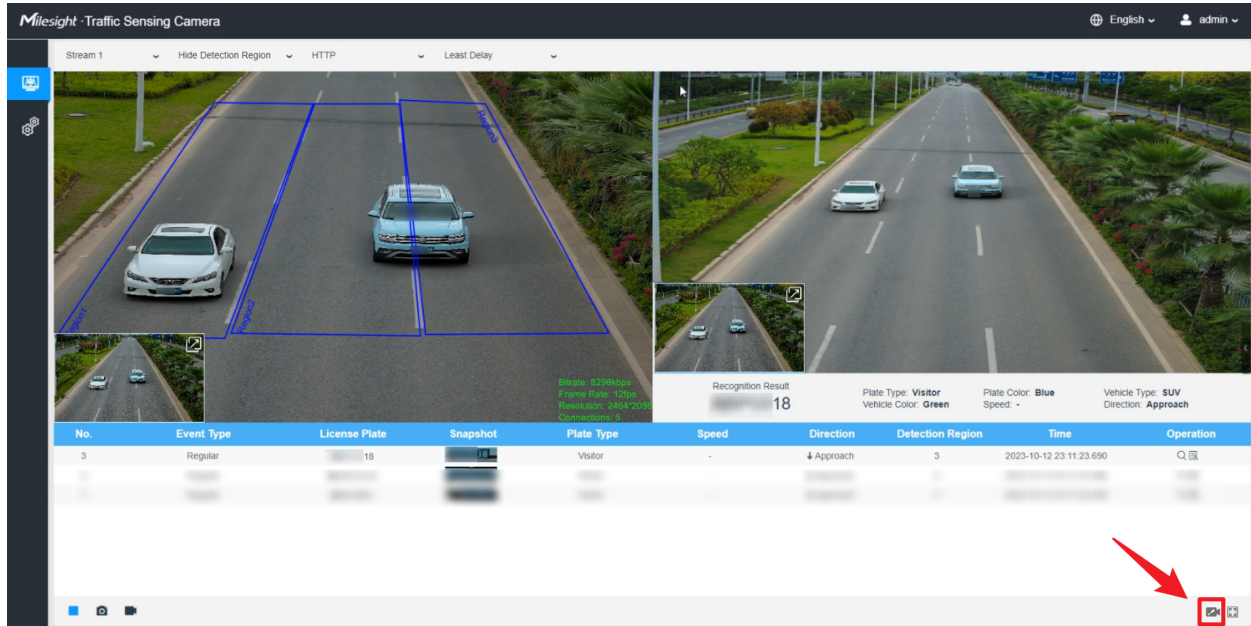
The camera can be used with the most standard operating systems and browsers.

The recommended browsers are Firefox, Chrome, Safari. Additionally, we highly recommend using the Mplayer plugin for optimized browser playing performance, ensuring a smoother and more seamless playing experience.



# Chapter 7. Live Video

Welcome to the Live Video interface! In order to make the most of the features in the Live Video interface, please carefully review the relevant instructions and annotations.


## Auxiliary Installation View

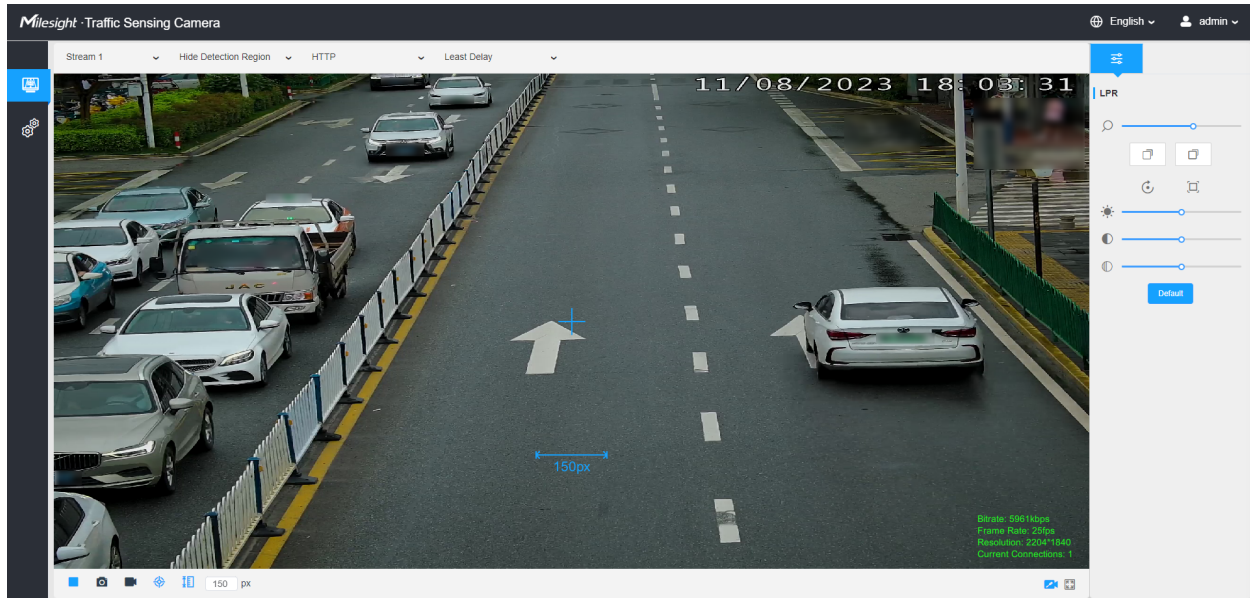


The screenshot displays the Milesight Traffic Sensing Camera interface. At the top, there are navigation options: "Stream 1", "Hide Detection Region", "HTTP", and "Least Delay". The main area shows a live video feed of a road with two cars. A blue detection region is overlaid on the road. Below the video, there is a "Recognition Result" section showing "18" and details: "Plate Type: Visitor", "Vehicle Color: Green", "Plate Color: Blue", "Speed: -", "Vehicle Type: SUV", and "Direction: Approach". Below this is a table with the following columns: No., Event Type, License Plate, Snapshot, Plate Type, Speed, Direction, Detection Region, Time, and Operation. The table contains one row of data.



No.	Event Type	License Plate	Snapshot	Plate Type	Speed	Direction	Detection Region	Time	Operation
3	Regular	18		Visitor	-	Approach	3	2023-10-12 23:11:23.690	

When entering the interface for the first time, we recommend clicking on the Auxiliary

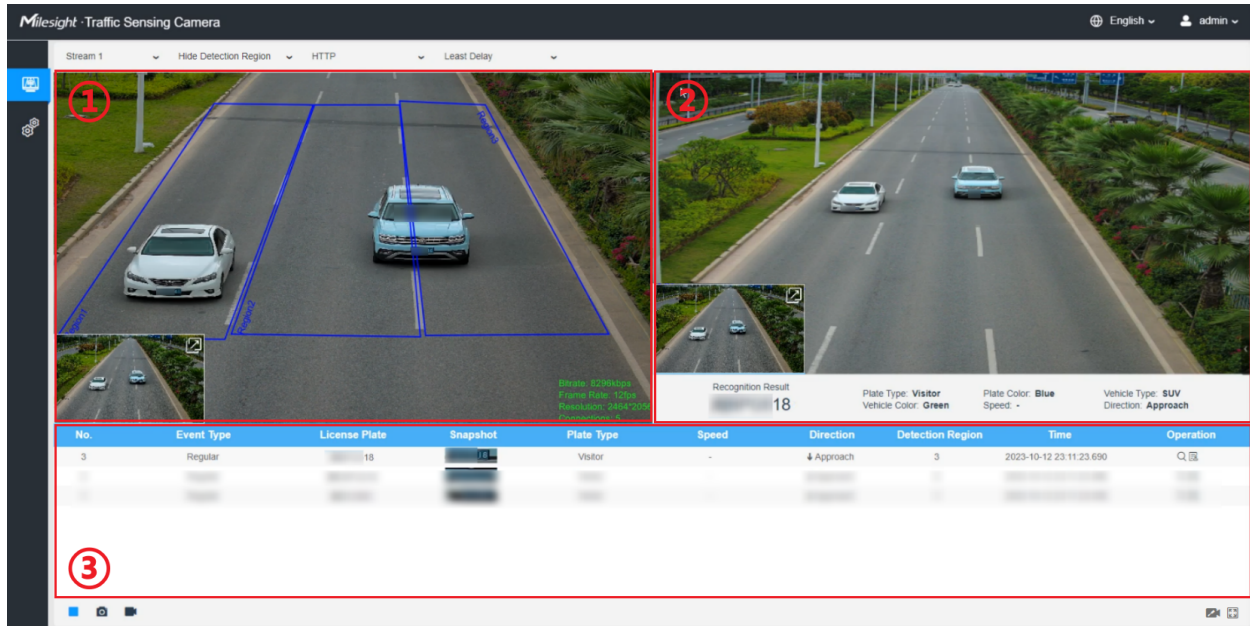
Installation View icon  located at the bottom right corner to access the Auxiliary Installation mode.



In Auxiliary Installation mode, there are two auxiliary tools available:

1. You can use the Crosshair  to assist with adjusting the viewing angle. It's better to zoom in to cover 2~3 lanes. (If camera is installed at roadside with some angles, it's better to zoom in to cover 1~2 lanes.)
2. You can use the Ruler  to view and measure the width of the license plate, ensuring it falls within the recommended size range. The recommended display pixel size for the license plate on the screen is 150 to 190 pixels. The width of license plate should be more than 150 pixels for better recognition.

## Overview of the Live Video interface



The live video is divided into three functional blocks:

### Module 1:

Real-time video stream view captured by two cameras. Here are some quick operations: In this module, you can rapidly switch between the images of the two cameras by clicking the arrow on the thumbnail, or you can directly click anywhere within the video frame for switching. Double-clicking on an image expands it to full screen. When in full-screen mode, double-clicking or pressing the Esc key allows you to exit full-screen mode. The thumbnail of the video can be moved according to your preference.

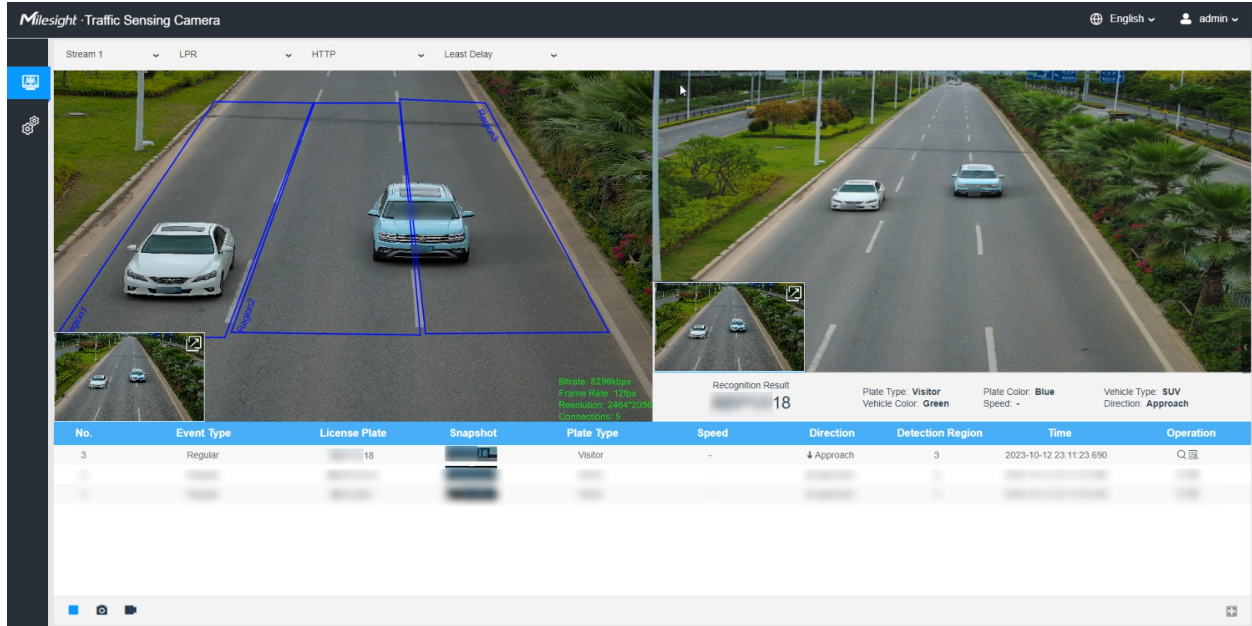
### Module 2:

Displays in real-time the images captured by two sensors and provides real-time recognition results of vehicles. This includes Plate Type, Plate Color, Vehicle Type, Vehicle Color, Direction, and more.



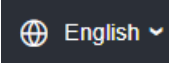
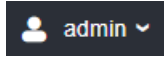
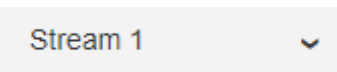
 **Note:** In the future, models supporting vehicle speed will be introduced.

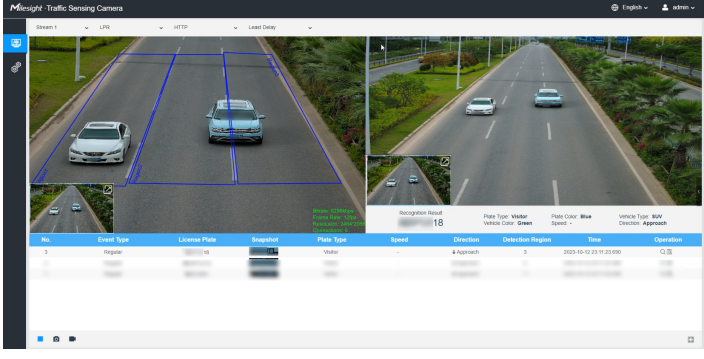





### Module 3:


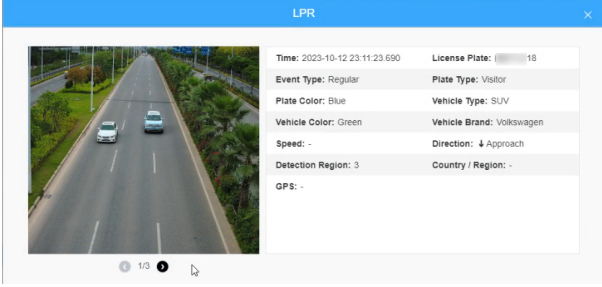

Shows detailed information records of all captured vehicles and allows for management operations. It includes the ability to directly add a vehicle to the Black List/White List, and view three snapshots of the vehicle (Overview, LPR, and clear thumbnail image captured by LPR).



**Table 7. Description of the buttons**


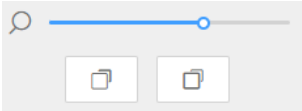
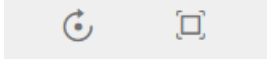

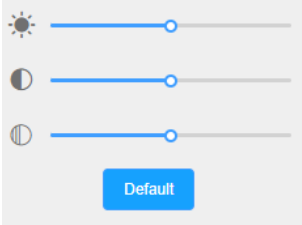
No.	Parameter	Description
1	 Live Video	Click to access the live view page.
2	 Settings	Click to access the configuration page.
3		Click to select system language.
4		Display the user name and click to logout.
5		Choose the stream ( <b>Stream 1/Stream 2</b> ) to show on the current video window.

No.	Parameter	Description
6	<div style="border: 1px solid #ccc; padding: 5px; width: fit-content; margin: 0 auto;">Hide Detection Region ▾</div>	<p>Choose the options (<b>Hide Detection Region/LPR/Violation Management</b>) to hide/display detection region on the current video window.</p> 
7	<div style="border: 1px solid #ccc; padding: 5px; width: fit-content; margin: 0 auto;">HTTP ▾</div>	<p>The optional streaming transmission methods are UDP/TCP/HTTP.</p>
8	<div style="border: 1px solid #ccc; padding: 5px; width: fit-content; margin: 0 auto;">Least Delay ▾</div>	<p>The optional video modes are Least Delay/Balanced/Best Fluency.</p>
9	<div style="text-align: center;">                       Stop/Play                 </div>	<p><b>Stop/Play</b> live view.</p>
10	<div style="text-align: center;">                       Snapshot                 </div>	<p>Click to capture the current image and save to the configured path.</p>
11	<div style="text-align: center;">                       Start/Stop Recording                 </div>	<p>Click to <b>Start Recording</b> video and save to the configured path. Click again to <b>Stop Recording</b>.</p>
12	<div style="text-align: center;">                       Auxiliary Installation View                 </div>	<p>Click to enter the Auxiliary Installation view.</p> <p><b>Note:</b> The Auxiliary Installation View button is available only when the "Hide Detection Region" mode is selected.</p>
13	<div style="text-align: center;">                       Full Screen                 </div>	<p>Click to display images at full-screen.</p>

No.	Parameter	Description
<p style="background-color: #007bff; color: white; padding: 2px; text-align: center;">Operation</p>	 LPR Logs	 <p>Clicking on it will display detailed LPR Logs. On the left side, up to three images can be displayed in the following order: Violation Evidence, Vehicle Snapshot, and Full Snapshot.</p>
	 Add	<p>You can add this LPR record to the Black List/White List.</p>

Click the arrow on the far right to expand the LPR Sensor image adjustment options.

**Table 8. Description of the buttons**

No.	Parameter	Description
		<p><b>Zoom:</b> Adjust the Zoom length of the lens.</p> <p><b>Focus-/Focus+:</b> Adjust focus of the lens.</p>
		<p>Lens Initialization, Auxiliary Focus.</p>
		<p><b>Brightness:</b> Adjust the Brightness of the scene.</p>
		<p><b>Contrast:</b> Adjust the color and light contrast.</p>
		<p><b>Saturation:</b> Adjust the Saturation of the image. Higher Saturation makes colors appear more "pure" while lower one appears more "wash-out".</p>
		<p><b>Default:</b> Restore brightness, contrast and saturation to default settings.</p>

# Chapter 8. Settings

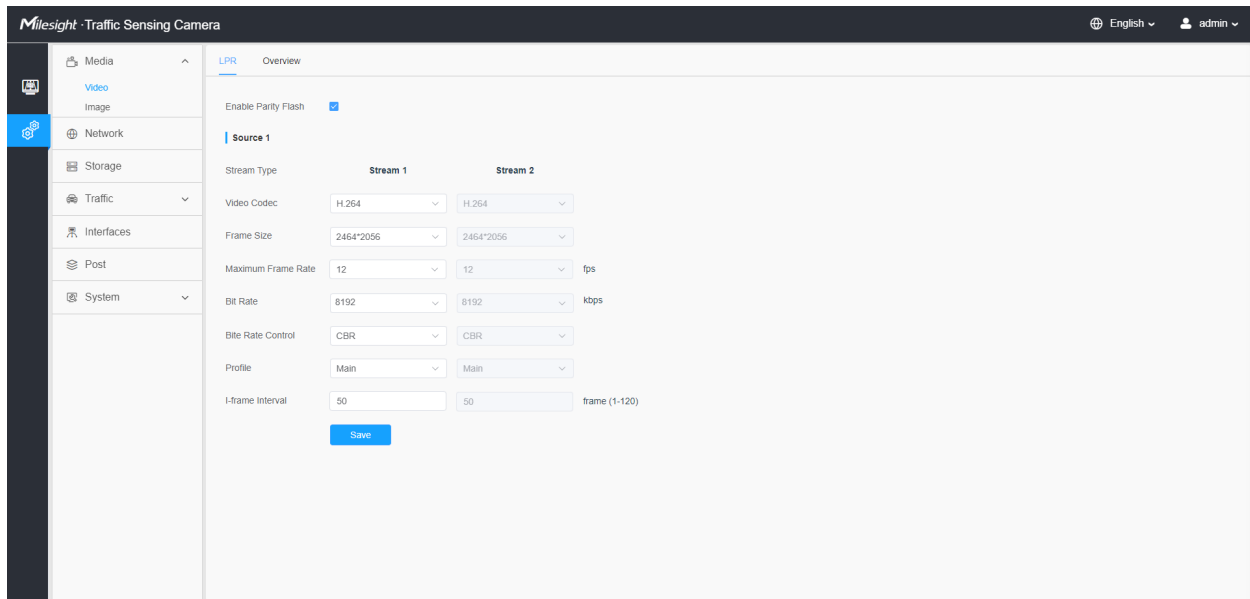
## Media

### Video

TrafficX camera is equipped with two sensors: the LPR Sensor and the Overview Sensor. The LPR sensor is designed specifically for capturing vehicle information, with a primary focus on license plate recognition. Conversely, the Overview sensor offers a broader perspective of the scene, providing a comprehensive view of the surrounding area. Together, these sensors offer powerful traffic functionalities.

In this module, you can configure video-related settings. Use the 'LPR' option to adjust video stream settings for the LPR Sensor, and use the 'Overview' option to adjust video stream settings for the Overview Sensor.

#### [LPR]:



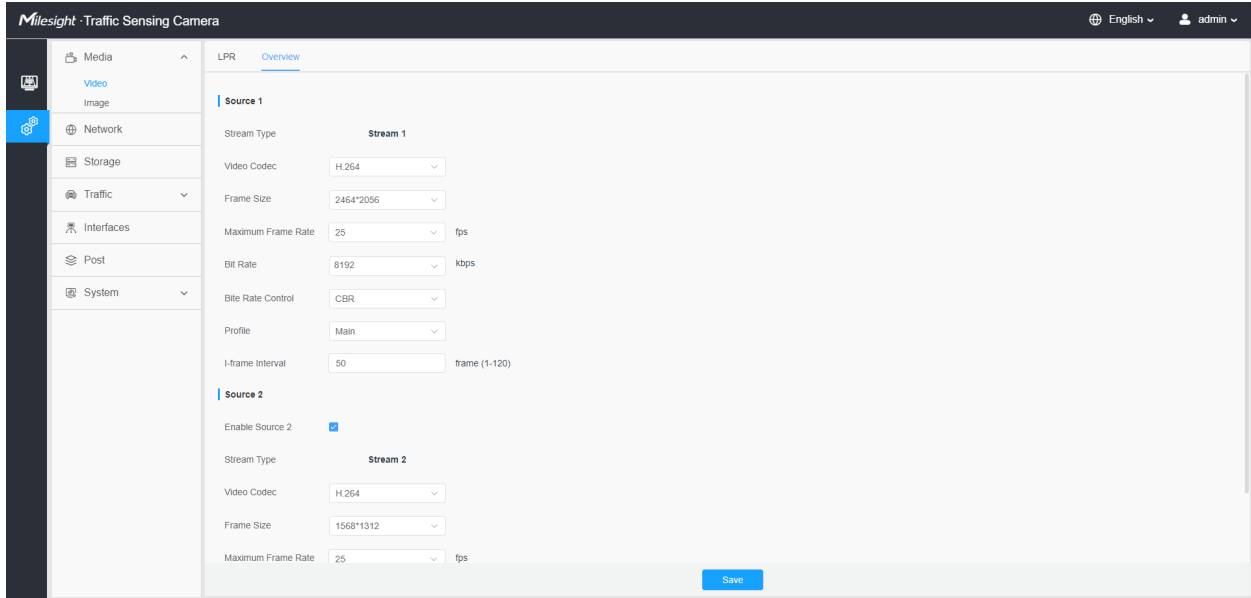
The screenshot displays the 'MileSight Traffic Sensing Camera' web interface. The top navigation bar includes the logo, 'English', and 'admin'. A left sidebar contains menu items: Media, Video, Image, Network, Storage, Traffic, Interfaces, Post, and System. The main content area is titled 'LPR Overview' and features a 'Source 1' configuration section. At the top, 'Enable Parity Flash' is checked. Below, settings for 'Stream 1' and 'Stream 2' are shown:

	Stream 1	Stream 2
Video Codec	H.264	H.264
Frame Size	2464*2056	2464*2056
Maximum Frame Rate	12	12
Bit Rate	8192	8192
Bit Rate Control	CBR	CBR
Profile	Main	Main
I-frame Interval	50	50




A 'Save' button is located at the bottom of the configuration area.


#### [Overview]:





**Table 9. Description of the buttons**

Parameters		Function Introduction
LPR	Enable Parity Flash	<p>Click on the 'Enable Parity Flash' checkbox to activate Frame Parity Flashing, which enhances the capture of both reflective and non-reflective license plate information.</p> <p>This feature provides the capability to recognize both reflective and non-reflective license plates. For situations involving both reflective and non-reflective plates, two video streams with different illumination intensities are provided using parity flashing and exposure strategies. Stream 1's image is suitable for recognizing non-reflective license plates, while enabling the feature will optimize Stream 2 for recognizing reflective license plates.</p> <p> <b>Note:</b> This technology is only applicable to the LPR Sensor.</p>
Overview	Enable Source 2	<p>The Overview Sensor supports enabling and configuring two separate video streams, Stream 1 and Stream 2.</p> <p> <b>Note:</b> Only the Overview option allows for the selection to enable Video Source 2.</p>
Stream Type	LPR	<p>After enabling Parity Flash, two streams will be provided. One is for overview purposes, while the other is for automatic license plate recognition. Stream 1 consists of long exposure frames, which better capture the vehicle and its surroundings. On the other hand, Stream 2 consists of short exposure frames, specifically designed to focus on capturing clear images of license plates.</p> <p> <b>Note:</b> Stream 2 does not allow for customization or settings.</p>

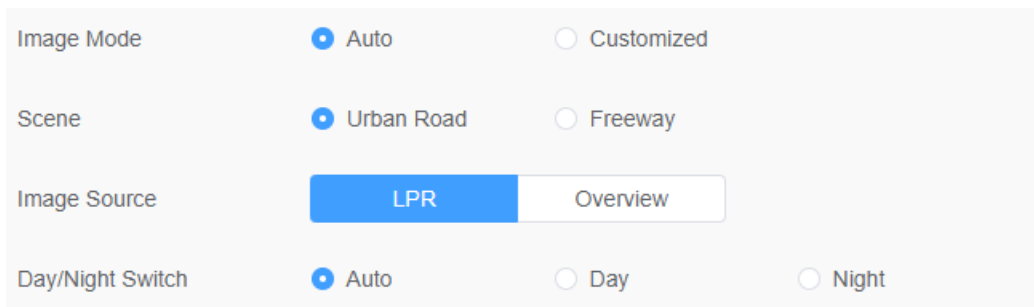
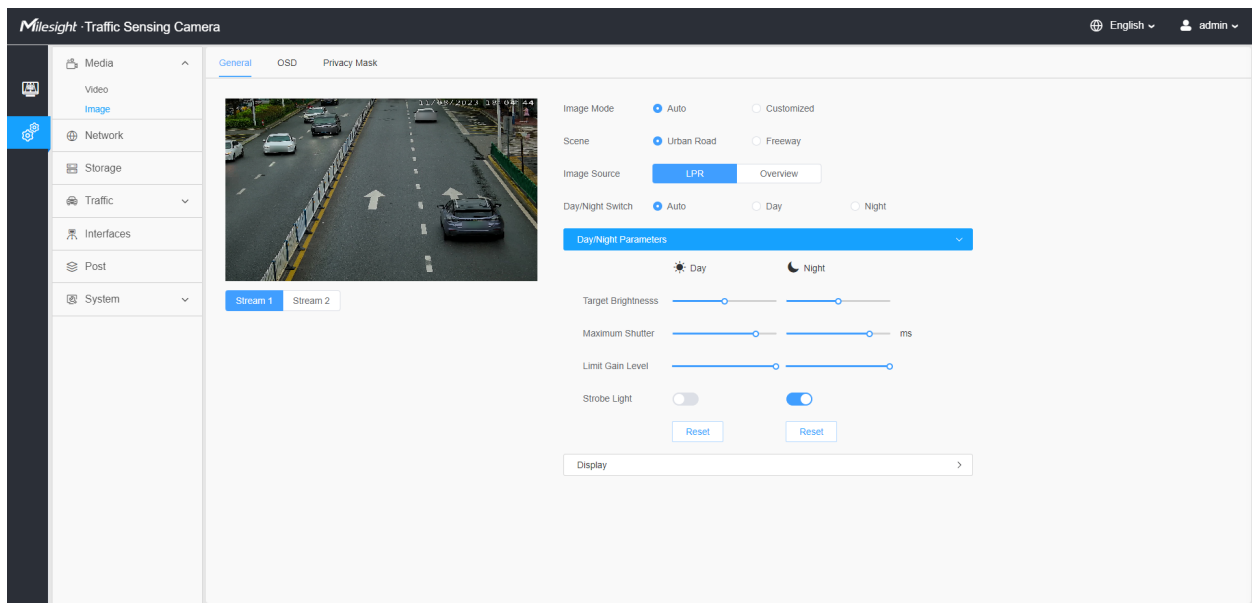
Parameters	Function Introduction	
	<b>Overview</b>	The Overview Sensor supports enabling and configuring two separate video streams, Stream 1 and Stream 2.
<b>Video Codec</b>	H.265/H.264/MJPEG are available.	
<b>Frame Size</b>	<p>Options include 5M(2464*2056), 4M(2204*1840), 3M(1910*1592), 2M(1568*1312), 1M(1104*928), 515P(784*656).</p> <p>For <b>Source 1</b>, it includes 2464*2056, 2204*1840, 1910*1592, 1568*1312, 1104*928.</p> <p>For <b>Source 2</b>, it include 1568*1312, 1104*928, 784*656.</p>	
<b>Maximum Frame Rate</b>	<p>Maximum refresh frame rate per second, selectable within the range of 1 to 25 frames per second (fps).</p> <p> <b>Note:</b> Please note that enabling Frame Parity Flashing will limit the maximum refresh frame rate range for LPR to 1-12 frames per second (fps).</p>	
<b>Bit Rate</b>	<p>Transmitting bits of data per second, this item is optional only if you select the H.265/H.264.</p> <p>Set the bitrate to 16~16384 Kbps. The higher value corresponds to the higher video quality, and the higher bandwidth is required as well.</p>	
<b>Bit Rate Control</b>	<b>CBR:</b> Constant Bitrate. The rate of CBR output is constant.	
	<b>VBR:</b> Variable Bitrate. VBR files vary the amount of output data per time segment.	
<b>Image Quality</b>	<b>Low/Medium/High</b> are available, this item is optional only if you select VBR.	
<b>Profile</b>	The option is for H.264, Main/High/Base can be selected as needed.	
<b>I-frame Interval</b>	Set the I-frame interval to 1~120, 50 for the default. This item is optional only if you select the H.265/H.264. The number must be a multiple of the number of frames.	

## Image


In the 'Image' section, you can configure the general settings, OSD (On-Screen Display), and Privacy Mask for both LPR and Overview images.

### General

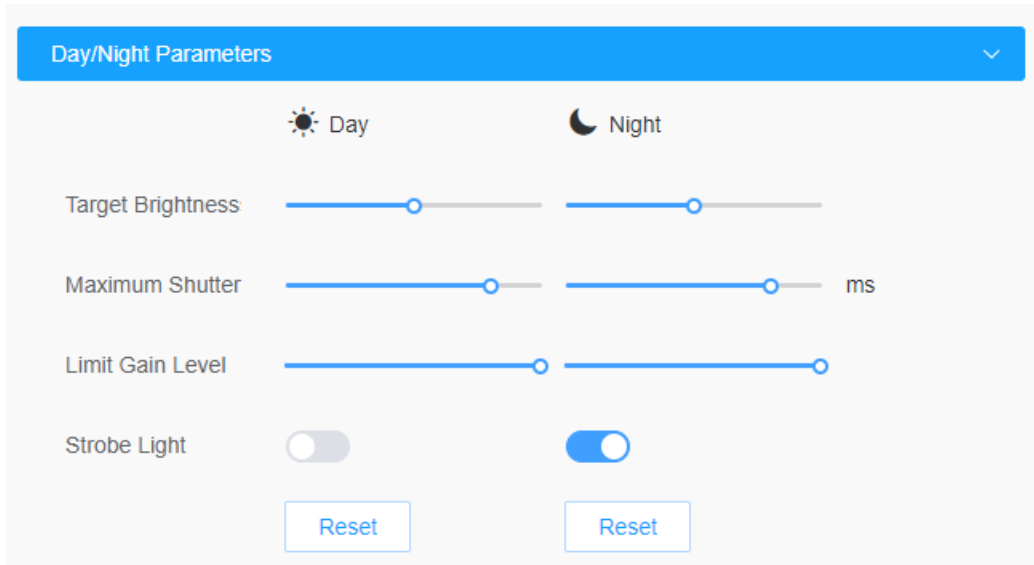
In the general configuration, you can adjust the image settings for both LPR and Overview cameras separately for day and night modes. This includes options such as Maximum Shutter, Limit Gain Level, Strobe Light, and more.




**Table 10. Description of the buttons**

Parameters	Function Introduction
<p><b>Image Mode</b></p>	<p>Two modes are available: Auto and Customized. Choosing different modes will result in some differences in the exposure parameters below.</p> <p><b>Auto Mode</b> is suitable for scenes where the surrounding lighting conditions may vary, such as outdoor road scenes. The algorithm provides adaptive adjustments to the exposure time, while also allowing for manual adjustments if desired.</p> <p><b>Customized Mode</b> is suitable for scenes with relatively stable lighting conditions, such as tunnels. In this mode, you can fine-tune the exposure time and gain level of the two video streams based on the actual scene, to meet specific requirements.</p>
<p><b>Scene</b></p>	<p>In the <b>Auto</b> mode, you can select between two scene types based on different vehicle speeds: Urban Road and Freeway. The image processing strategies and algorithmic approaches designed for each scene type aim to better match the corresponding vehicle speeds.</p> <p>The Urban Road scene type provides optimal support within the speed range of 30-80 km/h.</p> <p>The Freeway scene type offers improved support within the speed range of 80-250 km/h.</p> <p> <b>Note:</b> Please choose the appropriate scene type based on the actual speed range of vehicles in your specific usage scenario.</p>
<p><b>Image Source</b></p>	<p>You can configure the desired Day/Night Parameters separately for the LPR and Overview video sources, as per your requirements.</p>
<p><b>Day/Night Switch</b></p>	<p>The LPR and Overview video sources can be individually set to three modes: Auto, Day, and Night.</p>

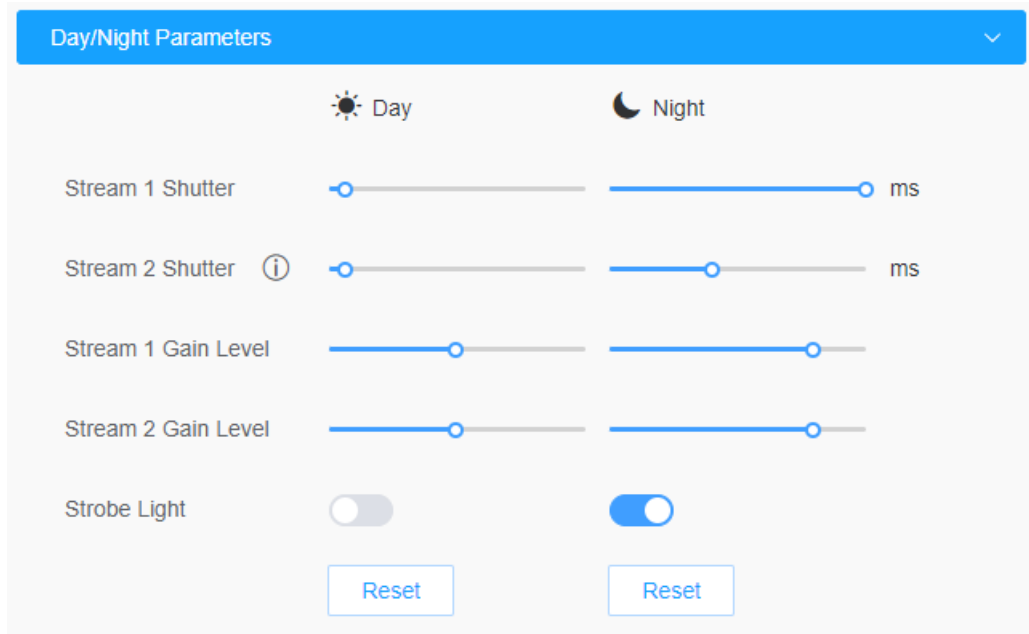
When the Image Mode is set to **Auto**, the Day/Night Parameters are as follows:





**Table 11. Description of the buttons**

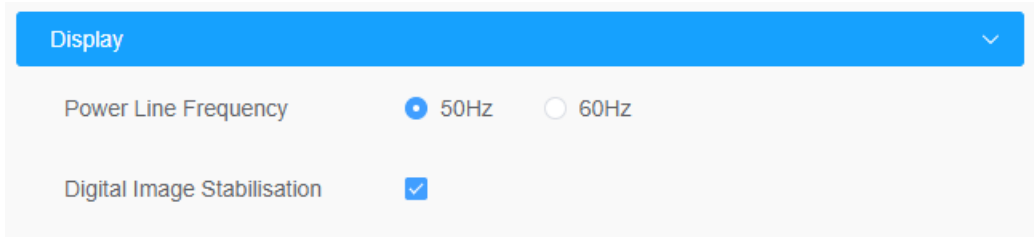
Parameters	Function Introduction
<b>Target Brightness</b>	When the Image Mode is set to Auto, you can manually adjust the target brightness value to meet your requirements.
<b>Maximum Shutter</b>	In Auto mode, set the Maximum Shutter time. The LPR sensor has a Maximum Shutter time adjustment range of 0.03 to 5 milliseconds, while the Overview sensor has a Maximum Shutter time adjustment range of 0.1 to 40 milliseconds.
<b>Limit Gain Level</b>	In Auto mode, set the Limit Gain Level. The adjustable range is from 1 to 100.
<b>Strobe Light</b>	Set the activation of the strobe light for day and night under LPR Sensor based on your requirements.
	Click the Reset button to restore the Day/Night Parameters to their default settings.

When the Image Mode is set to **Customized**, the Day/Night Parameters are as follows:



**Table 12. Description of the buttons**

Parameters	Function Introduction
<b>Stream 1 / Stream 2</b>	<p>If you have enabled 'Enable Parity Flash' in the video settings, you can adjust the shutter time and gain level of the LPR Sensor here. Stream 1 represents the long exposure frame, while Stream 2 represents the short exposure frame.</p> <p> <b>Note:</b> Please ensure that the shutter of Stream 2 is smaller than the shutter of Stream 1.</p>
<b>Shutter</b>	When the Image Mode is set to Customized, you can manually adjust the shutter time value to meet your requirements.
<b>Gain Level</b>	When the Image Mode is set to Customized, you can manually adjust the Gain Level to meet your requirements.
<b>Strobe Light</b>	Set the activation of the strobe light for day and night under LPR Sensor based on your requirements.
	Click the Reset button to restore the Day/Night Parameters to their default settings.

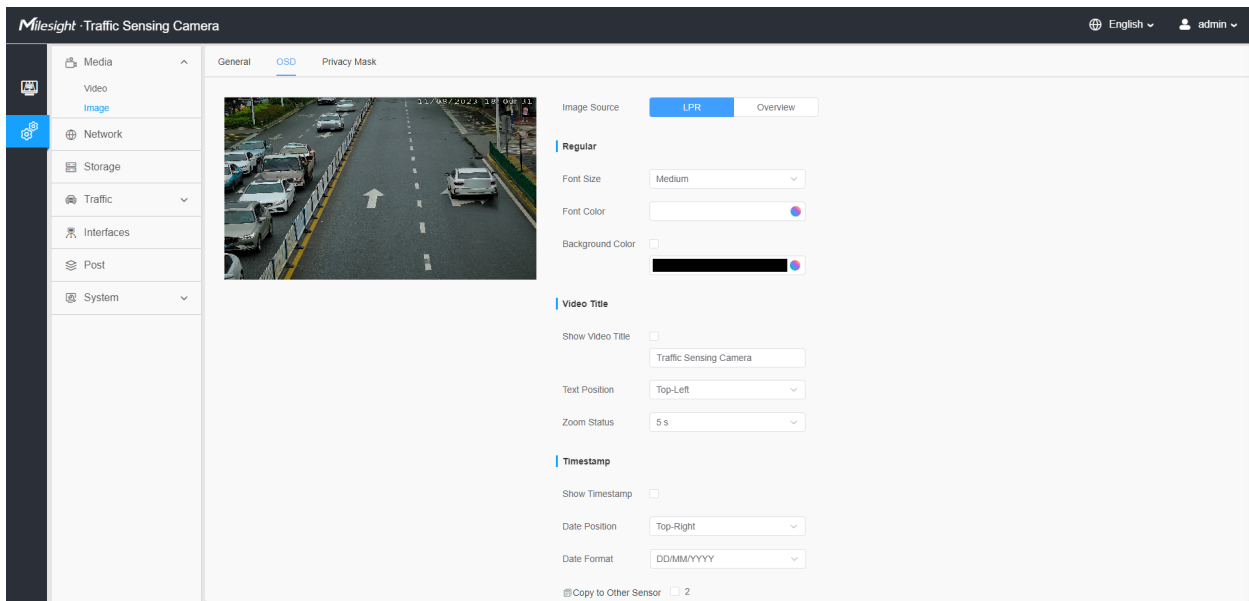


**Table 13. Description of the buttons**

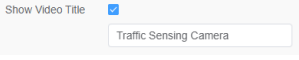
Parameters	Function Introduction
<b>Power Line Frequency</b>	Set the power line frequency to 50Hz/60Hz.
<b>Digital Image Stabilisation</b>	Click the checkbox to enable DIS (Digital Image Stabilization). It is a feature that helps reduce unwanted camera movements or shakes in the captured video footage by electronically compensating for the motion.

## OSD

In the OSD settings, you can configure OSD elements separately for two views, including Video Title and Timestamp.



**Table 14. Description of the buttons**

Parameters		Function Introduction
Image Source		Select LPR and Overview video streams to configure OSD settings.
Regular	Font Size	Smallest/Small/Medium/Large/Largest/Auto are available for title and date.
	Font Color	Enable to set different color for title and date.
	Background Color	<p>Enable to set different colors for display information background on screen.</p> <p>You can set different colors for font and background of image , then the image OSD will show as below:</p> <p><b>Traffic Sensing Camera</b></p>
Video Title	Show Video Title	Check the check box to show video title.
		Customize the OSD content.
	Text Position	OSD display position on the image.
	Zoom Status	2s/ 5s/ 10s/Always Open/ Always Close are available.
Timestamp	Show Timestamp	Check the checkbox to display date on the image.
	Date Position	Date display position on the image.
	Date Format	The format of date.
Copy to Other Streams		Copy the settings to other streams.

## Privacy Mask

Privacy mask enables to cover certain areas on the live video to prevent certain spots in the surveillance area from being viewed and recorded.

You can select the color type to use for covering specific areas on the live video. Each sensor supports a maximum of 24 masking areas, allowing a total of 48 masking areas when using two sensors.



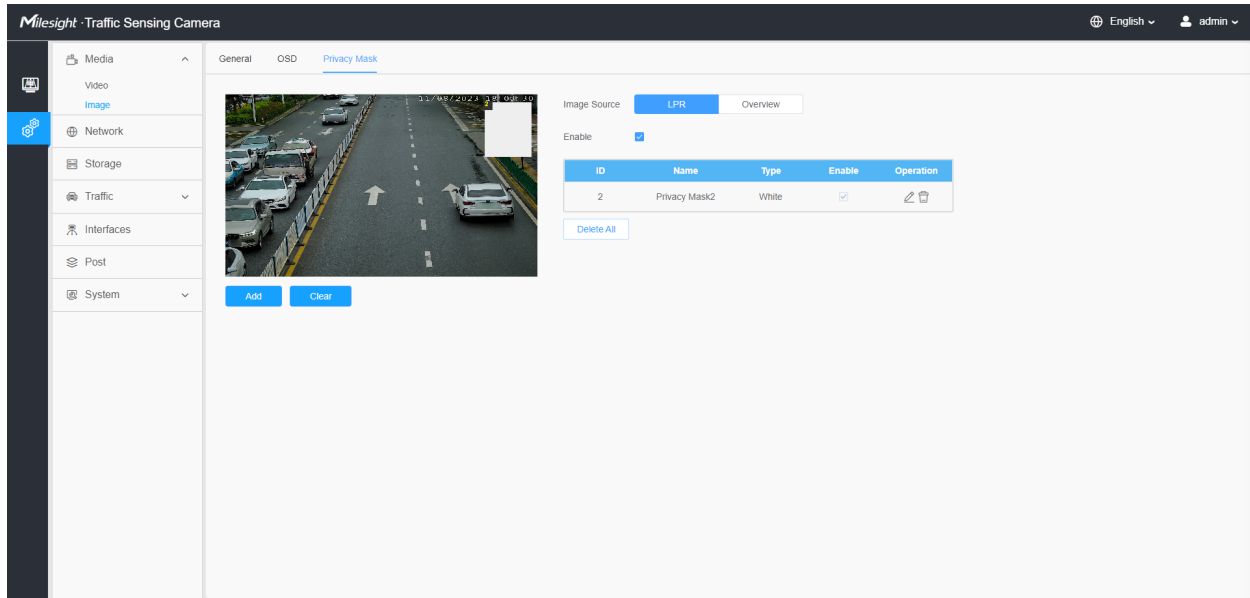



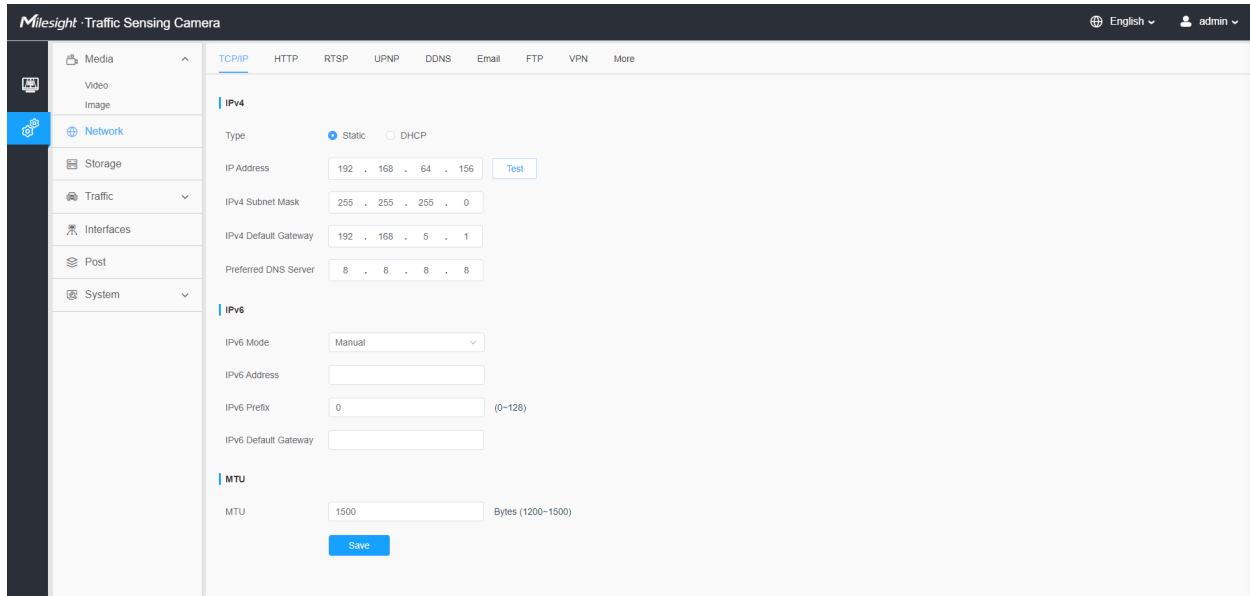


Table 15. Description of the buttons



Parameters	Function Introduction	
<b>Image Source</b>	Select LPR and Overview video streams to configure Privacy Mask settings.	
<b>Enable</b>	Check the check box to enable the Privacy Mask function.	
<b>Add</b>	Drew an privacy area on the live video as needed.	
<b>Clear</b>	Clear the area you drew on the live video.	
<b>Operation</b>		Enable/disable the selected privacy mask areas.
		Change the color of Mask area, there are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red and Purple
		Delete the privacy mask area

## Network

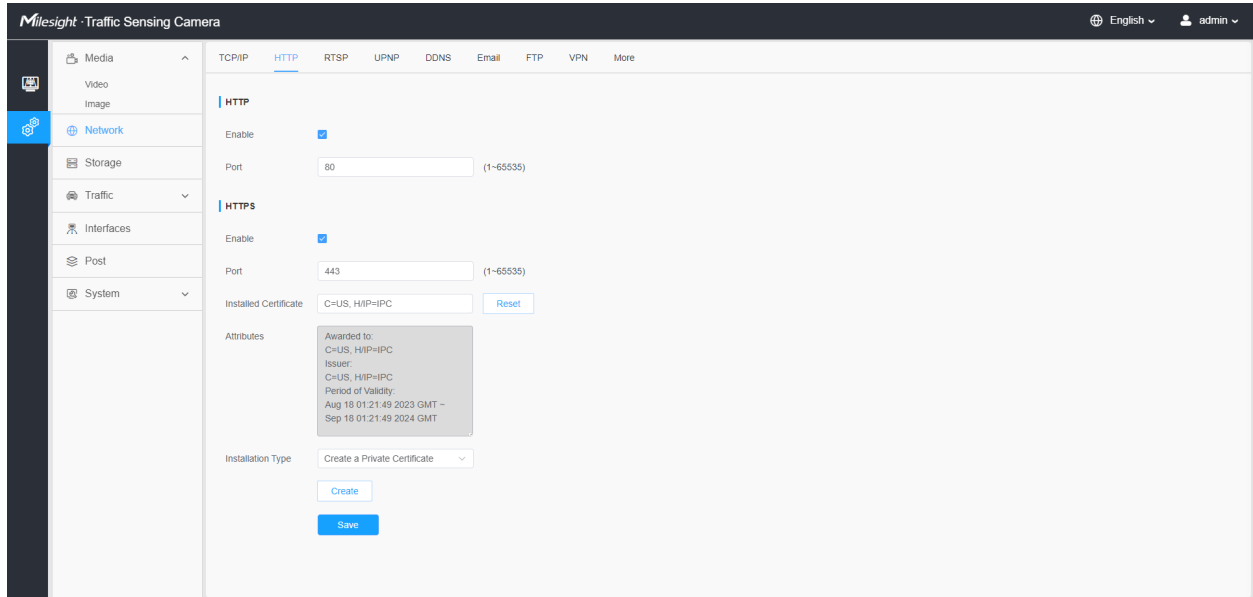
### TCP/IP



**Table 16. Description of the buttons**

Parameters	Function Introduction
IPv4	<p><b>Type:</b> Static Type and DHCP Type are optional for user to get IPv4 address automatically or use fixed IP address.</p> <p><b>IPv4 Address:</b> An address that used to identify a network camera on the network.</p> <p> <b>Note:</b> The <b>Test</b> button is used to test if the IP is conflicting.</p> <p><b>IPv4 Subnet Mask:</b> It is used to identify the subnet where the network camera is located.</p> <p><b>IPv4 Default Gateway:</b> The default router address.</p> <p><b>Preferred DNS Server:</b> The DNS Server translates the domain name to IP address.</p>
IPv6	<p><b>IPv6 Mode:</b> Choose different modes for IPv6: Manual/Route Advertisement/DHCPv6</p> <p><b>IPv6 Address:</b> IPv6 Address used to identify a network camera on the network</p> <p><b>IPv6 Prefix:</b> Define the prefix length of IPv6 address</p> <p><b>IPv6 Default Gateway:</b> The default router IPv6 address</p>
MTU	<p>Maximum Transmission Unit. The default value is 1500. You can customize the value from 1200 to 1500 as needed.</p>
	<p>Save the configuration.</p>

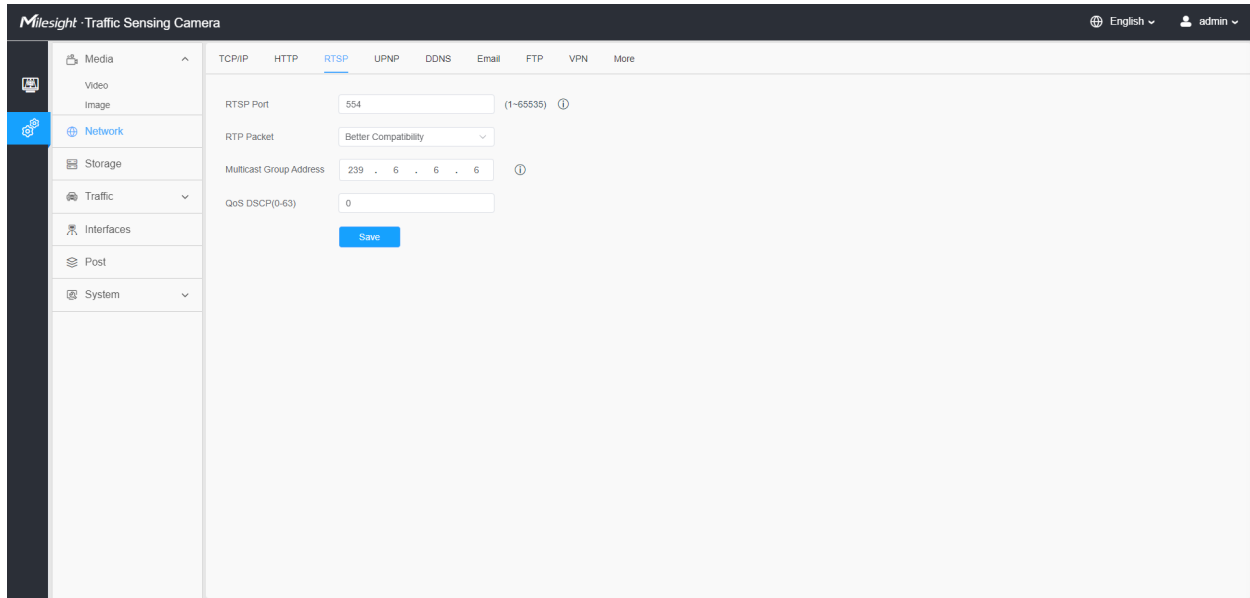
# HTTP



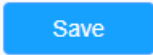
**Table 17. Description of the buttons**

Parameters	Function Introduction
HTTP	<p><b>Enable:</b> Start or stop using HTTP.</p> <p><b>Port:</b> Web GUI login port, the default is 80, the same with ONVIF port.</p>
HTTPS	<p><b>Enable:</b> Start or stop using HTTPSs.</p> <p><b>Port:</b> Web GUI login port via HTTPS, the default is 443.</p> <p><b>Note:</b> For more details about how to use enable HTTPS access, please refer to <a href="https://milesight.freshdesk.com/a/solutions/articles/69000797384">https://milesight.freshdesk.com/a/solutions/articles/69000797384</a>.</p>
Installed Certificate	Upload and set the SSL certificate.
Attributes	
Installation Type	
Save	Save the configuration.

# RTSP



**Table 18. Description of the buttons**

Parameters	Function Introduction
<b>RTSP Port</b>	The port of RTSP, the default is 554.
<b>RTP Packet</b>	There are Better Compatibility and Better Performance two options, if your camera's image mess up, please switch this option.
<b>Multicast Group Address</b>	Support multicast function.
<b>QoS DSCP</b>	The valid value range of the DSCP is 0-63.
	Save the configuration.

**Table 19. RTSP URL are as below:**

Stream		URL
<b>LPR</b>	<b>Stream 1</b>	rtsp://IP:RTSP Port/lprstream1
	<b>Stream 2</b>	rtsp://IP:RTSP Port/lprstream2 (Enable Parity Flash)
<b>Overview</b>	<b>Stream 1</b>	rtsp://IP:RTSP Port/overviewstream1
	<b>Stream 2</b>	rtsp://IP:RTSP Port/overviewstream2

**Table 20. RTSP Multicast URL are as below:**

Stream		URL
<b>LPR</b>	<b>Stream 1</b>	rtsp://IP:RTSP Port/mcastlprstream1

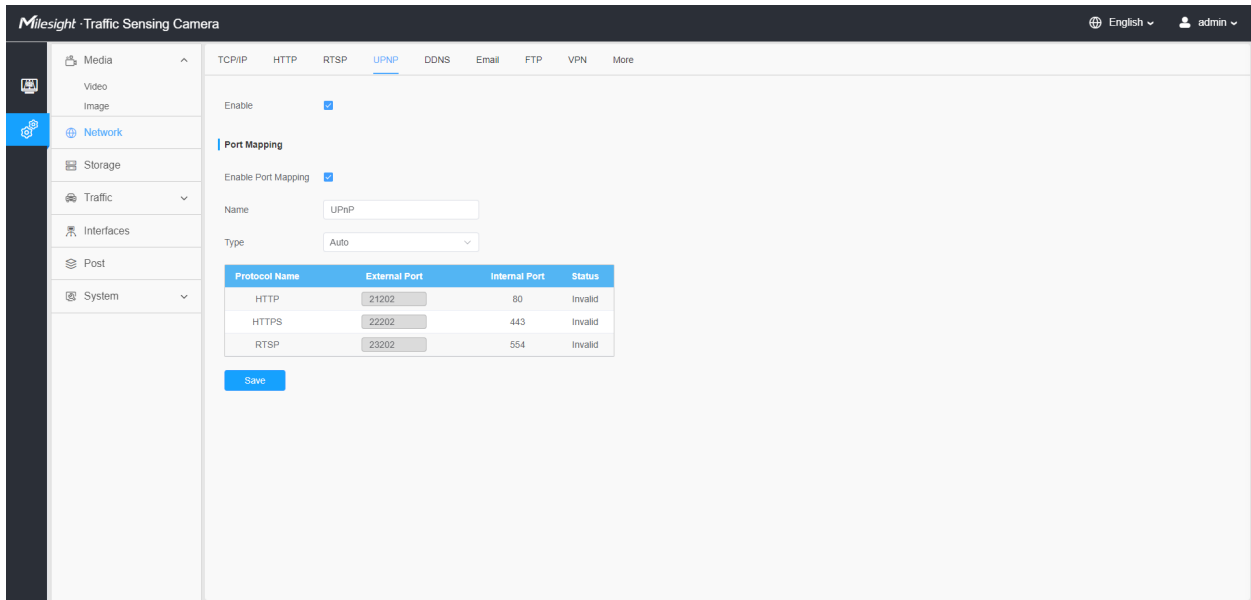
Stream		URL
	<b>Stream 2</b>	rtsp://IP:RTSP Port/mcastlprstream2 (Enable Parity Flash)
<b>Overview</b>	<b>Stream 1</b>	rtsp://IP:RTSP Port/mcastoverviewstream1
	<b>Stream 2</b>	rtsp://IP:RTSP Port/mcastoverviewstream2

**Note:**

- DSCP refers to the Differentiated Service Code Point; and the DSCP value is used in the IP header to indicate the priority of the data.
- A reboot is required for the settings to take effect.


## UPNP

Universal Plug and Play (UPNP) is a networking architecture that provides compatibility among networking equipment, software and other hardware devices. The UPNP protocol allows devices to connect seamlessly and to simplify the implementation of networks in the home and corporate environments. With the function enabled, you don't need to configure the port mapping for each port, and the camera is connected to the Wide Area Network via the router.



**Table 21. Description of the buttons**

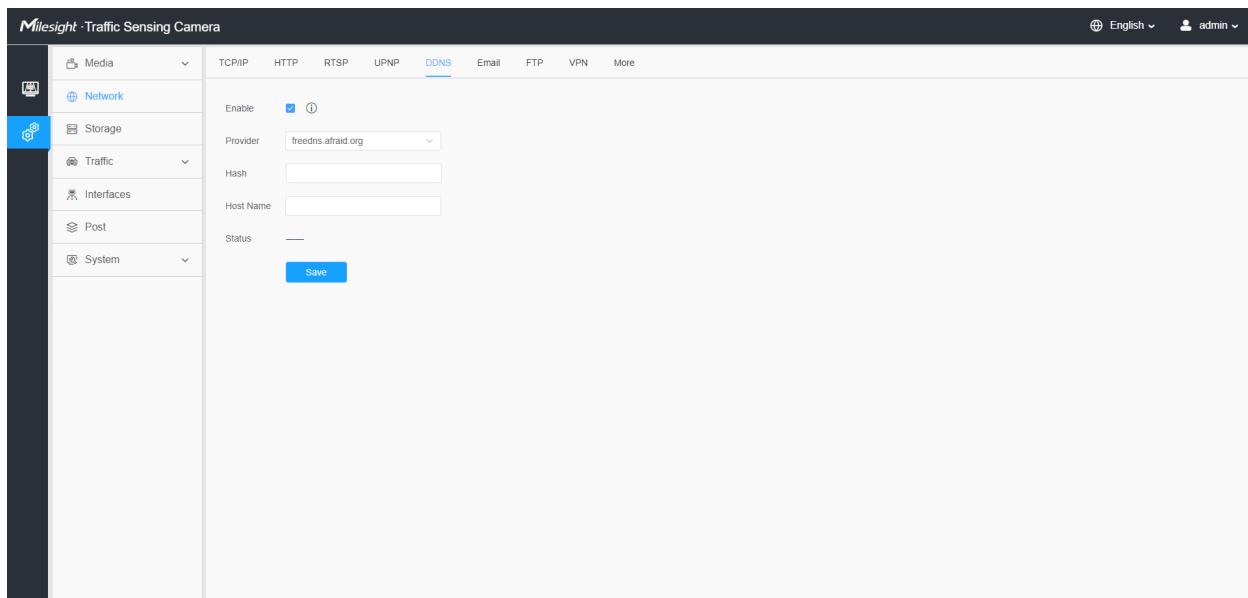
Parameters	Function Introduction
<b>Enable</b>	Check the checkbox to enable the UPNP function.

Parameters	Function Introduction
<b>Enable Port Mapping</b>	Check the checkbox to enable the Port Mapping
<b>Name</b>	The name of the device detected online can be edited
<b>Type</b>	<p><b>Auto:</b> Automatically obtain the corresponding HTTP and RTSP port, without any settings</p> <p><b>Manual:</b> Need to manually set the appropriate HTTP port and RTSP Port. When choose Manual, you can customize the value of the port number by yourself</p>
	Save the configuration.

## DDNS



DDNS allows you to access the camera via domain names instead of IP address. It manages to change IP address and update your domain information dynamically. You need to register an account from a provider.

 **Note:** For more details about how to set DDNS, please refer to <https://milesight.freshdesk.com/a/solutions/articles/69000643406>.



You can choose “ddns.milesight.com” as provider for DDNS. After enabling it, you can access the device via the URL “http://ddns.milesight.com/MAC address”.

**Table 22. Description of the buttons**

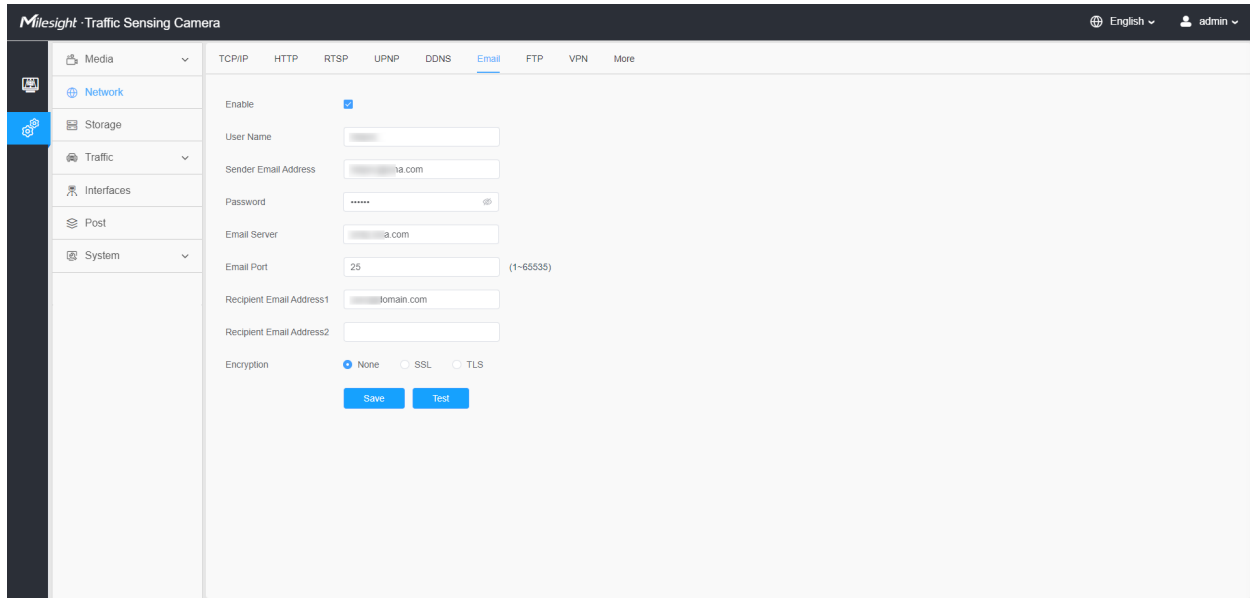
Parameters	Function Introduction
<b>Enable DDNS</b>	Check the checkbox to enable DDNS service.  <b>Note:</b> Recommend to enable and configure UPnP ports which can be used directly in DDNS.
<b>Provider</b>	Get support from DDNS provider: freedns.afraid.org, dyndns.org, www.no-ip.com, www.zoneedit.com. You can also customize the provider for DDNS.
<b>Hash</b>	A string used for verifying, only for "freedns.afraid.org".
<b>Host name</b>	DDNS name enabled in the account.
<b>Status</b>	Display DDNS running status.
	Save the configuration.

 **Note:**

- Please do the Port Forwarding of HTTP Port and RTSP Port before you use Milesight DDNS.
- Make sure that the internal and the external port number of RTSP are the same.

## Email



Alarm video files can be sent to specific mail account through SMTP server. You must configure the email settings correctly before using it.




**Table 23. Description of the buttons**

Parameters	Function Introduction
<b>Enable</b>	Check the checkbox to enable Email function.
<b>User Name</b>	The sender's name. It is usually the same as the account name.
<b>Sender Email Address</b>	Email address to send video files attached emails.
<b>Password</b>	The password of the sender.
<b>Email Server</b>	The email server IP address or host name(e.g. smtp.gmail.com).
<b>Email Port</b>	The default TCP/IP port for SMTP is 25(not secured). For SSL/TLS port, it depends on the mail you use.
<b>Recipient Email Address1</b>	Email address to receive video files.
<b>Recipient Email Address2</b>	Email address to receive video files.
<b>Encryption</b>	Check the checkbox to enable SSL or TLS if it is required by the SMTP server.



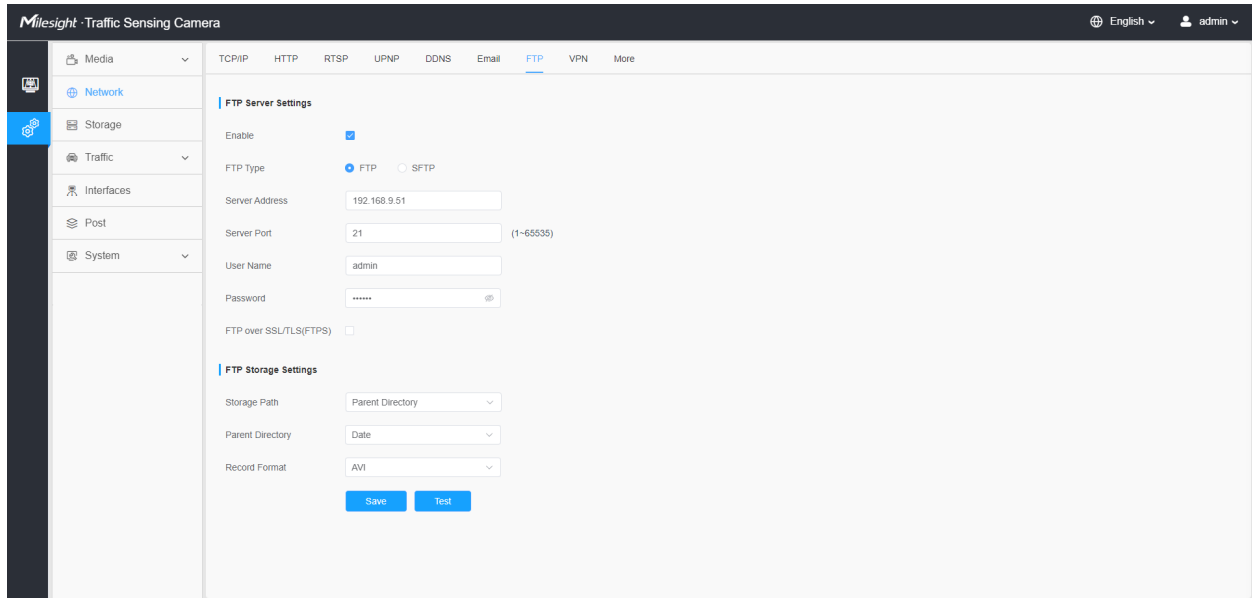
Parameters	Function Introduction
<p style="text-align: center;"><b>Snapshot Settings</b></p>	<p><b>Alarm Snapshot File Name:</b> Default(YYYY-MM-DD) /MM-DD-YYYY/ DD-MM-YYYY/ Add prefix/ Overwrite with the base file name/ Customize are available.</p> <p><b>Timing Snapshot File Name:</b> Default(YYYY-MM-DD) /MM-DD-YYYY/ DD-MM-YYYY/ Add prefix/ Overwrite with the base file name/ Customize are available.</p>
<p style="text-align: center;"></p>	<p>Save the configuration.</p>
<p style="text-align: center;"></p>	<p>Test whether the configuration is successful.</p>

 **Note:** You can refer to the following file name tip to customize the file name.

File Name Tip  
 &Device - Device Name  
 &Y - Year  
 &M - Month  
 &D - Day  
 &h - hour  
 &m - minute  
 &s - second  
 &ms - millisecond  
 && - &

## FTP

Alarm video files can be sent to specific FTP server. You must configure the FTP settings correctly before using it.



**Table 24. Description of the buttons**

Parameters		Function Introduction
FTP Server Settings	FTP Type	FTP and SFTP are optional.
	Server Address	FTP/SFTP server address.
	Server Port	The port of the FTP server. Generally it is 21. The port of the SFTP server. Generally it is 22.
	User Name	User name used to log in to the FTP/SFTP sever.
	Password	User password.
FTP Storage Settings	Storage Path	Storage Path where video and image will be uploaded to the FTP server. Four FTP storage path types are available, including Root Directory, Parent Directory, Child Directory and Customize.
	Parent Directory	Choose IP Address/ Device Name/ Date as the folder name of Parent Directory, or customize the folder name.
	Child Directory	Choose IP Address/ Device Name/ Date as the folder name of Child Directory, or customize the folder name.

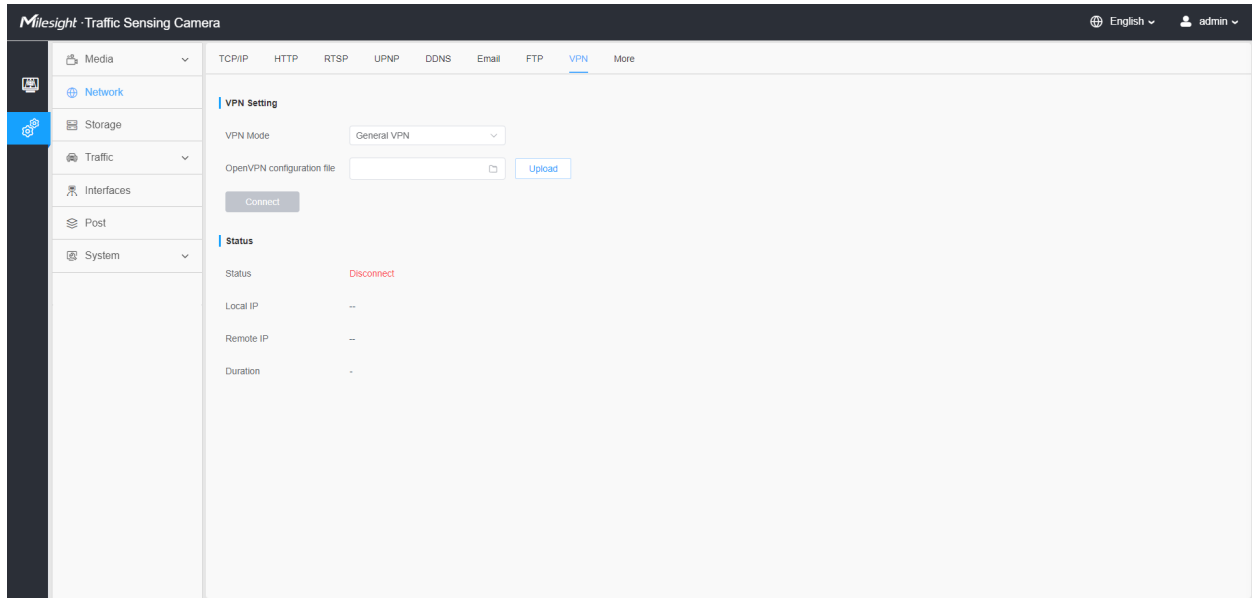
Parameters		Function Introduction
FTP Storage Settings	Multilevel Folder Name	If the storage path is more than two levels, enter Multilevel FTP storage path here manually.
	Alarm Action File Name	Choose the default(YYYY-MM-DD) or customize the alarm action file name.
	Video File Name	If you choose to customize the alarm action file name, YYYY-MM-DD/ MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available.
	Image File Name	If you choose to customize the alarm action file name, YYYY-MM-DD/ MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available.
	Timing Snapshot File Name	Default(YYYY-MM-DD) /MM-DD-YYYY/ DD-MM-YYYY/ Add prefix/ Overwrite with the base file name are available.
	Pre Second	Reserve the record time before alarm, 0~10 sec.
<div style="text-align: center;">Save</div>		Save the configuration, 0s ~ 10s are optional.
<div style="text-align: center;">Test</div>		Test whether the configuration is successful.

 **Note:**

- Parent Directory will be under Root Directory, and Child Directory will be under Parent Directory.
- You can refer to the following file name tip to customize the file name.

## VPN

In this interface, you can configure VPN settings. Once configured, you can access the camera's real-time video stream using a VPN connection.

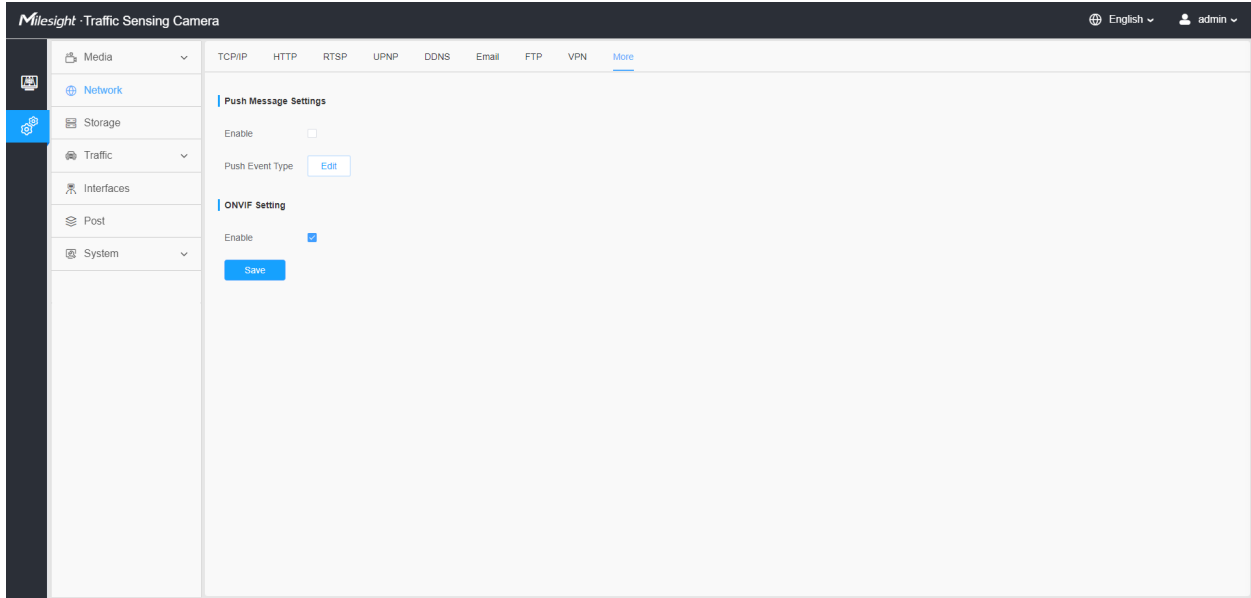


**Table 25. Description of the buttons**


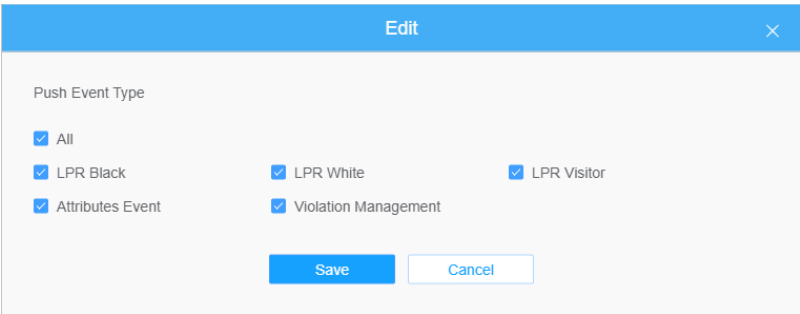
Parameters	Function Introduction
<p><b>VPN Settings</b></p>	<p>You can choose between General VPN import or connect to Milesight VPN. For detailed instructions, please refer to the Support article:  <a href="https://support.milesight.com/support/solutions/articles/69000829102-how-to-use-vpn-on-milesight-network-camera">https://support.milesight.com/support/solutions/articles/69000829102-how-to-use-vpn-on-milesight-network-camera</a></p>
<p><b>Status</b></p>	<p>Here, you can view the VPN status, Local IP, Remote IP, and Duration of the active connection.</p>

## More

Here you can set more functions, like Push Message Settings and ONVIF Settings.

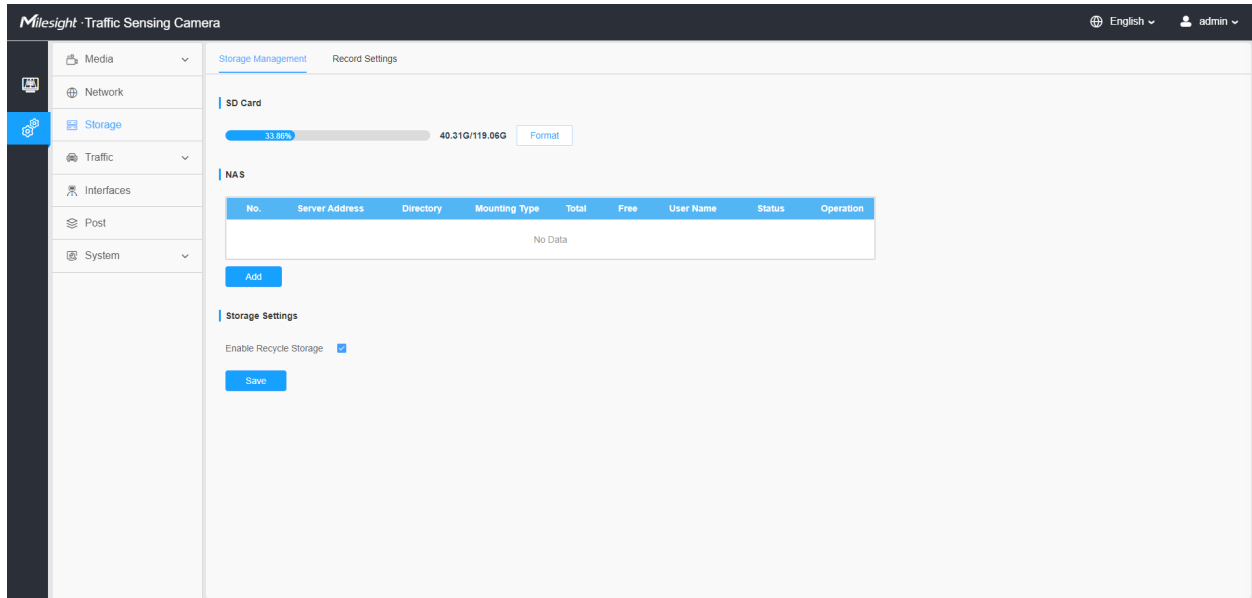


**Table 26. Description of the buttons**

Parameters	Function Introduction
<p><b>Push Message Settings</b></p>	<p><b>Enable:</b> Enable/disable the Push Message function</p> <p><b>Push Event Type:</b> You can click  to choose the types of Events' message which will be pushed to M-sight Pro App as shown below:</p>  <p>The 'Edit' dialog box shows the following checked options: All, LPR Black, LPR White, LPR Visitor, Attributes Event, and Violation Management. There are 'Save' and 'Cancel' buttons at the bottom.</p>
<p><b>ONVIF Setting</b></p>	<p>Here you can choose whether to enable or disable camera ONVIF function. If camera ONVIF function is enabled, it can be searched out, added and connected by third-party software through ONVIF protocols. Generally, the default status of ONVIF function is enabled.</p>

## Storage

You can manage and configure camera storage information through Storage Management. You can set camera recording settings in Record Settings.




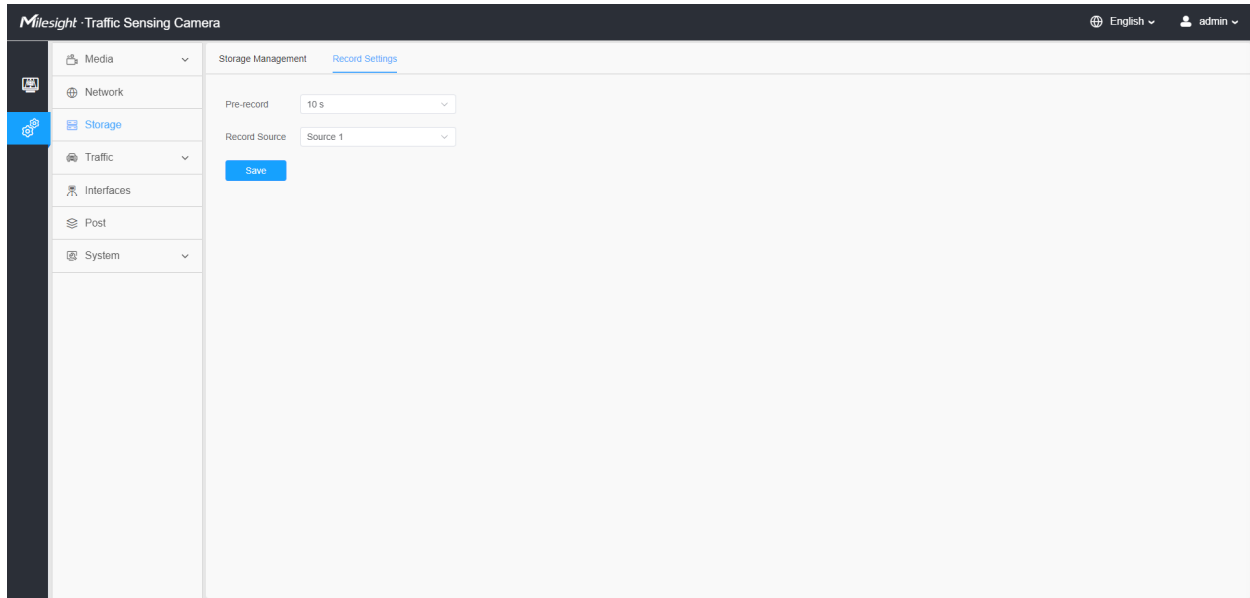
**Note: Before you start:**

- To configure record settings, please make sure that you have the network storage device within the network or the SD card inserted in your camera.
- Choose the storage mode according to your needs.


**Table 27. Description of the buttons**

Parameters	Function Introduction
SD Card	<b>Format:</b> Format SD card, the files in SD card will be removed.

Parameters	Function Introduction
<p style="text-align: center;"><b>NAS</b></p>	<p>The network disk should be available within the network and properly configured to store the recorded files, etc.</p> <p>NAS (Network-Attached Storage), connecting the storage devices to the existing network, provides data and files services.</p> <div data-bbox="613 457 1409 863" style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <div style="background-color: #00a0e3; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;"> <span>Add</span> <span>×</span> </div> <div style="padding: 10px;"> <p>Server Address * <input style="width: 100%;" type="text"/></p> <p>Directory * <input style="width: 100%;" type="text"/></p> <p>Mounting Type <input style="width: 100%;" type="text" value="NFS"/></p> <div style="display: flex; justify-content: center; gap: 20px; margin-top: 10px;"> <span style="background-color: #00a0e3; color: white; padding: 5px 15px; border-radius: 3px;">Save</span> <span style="border: 1px solid #ccc; padding: 5px 15px; border-radius: 3px;">Cancel</span> </div> </div> </div> <p><b>Server Address:</b> IP address of NAS server.</p> <p><b>Directory:</b> Input the NAS directory, e.g. “/path”.</p> <p><b>Mounting Type:</b> NFS and SMB/CIFS are available. And you can set the user name and password to guarantee the security if SMB/CIFS is selected.</p> <p> <b>Note:</b></p> <ul style="list-style-type: none"> <li>Up to 5 NAS disks can be connected to the camera.</li> <li>For more details about how to use NAS on Milesight Network Camera, please refer to <a href="https://milesight.freshdesk.com/a/solutions/articles/69000797902">https://milesight.freshdesk.com/a/solutions/articles/69000797902</a>.</li> </ul>
<p style="text-align: center;"><b>Storage Settings</b></p>	<p><b>Enable Recycle Storage:</b> After enabling recycle recording, when the storage space on the device (SD or NAS) is fully utilized, the system will automatically overwrite the oldest recorded data to accommodate new recordings. This allows for continuous recording without the need to manually delete old video files. This feature is enabled by default.</p>



**Table 28. Description of the buttons**

Parameters	Function Introduction
Pre-record	Record video 1~10 seconds prior to triggering an alarm to capture pre-alarm footage.
Record Source	Select the recording source for video capture.  <b>Note:</b> The recorded video source is provided by the Overview Sensor.

## Traffic

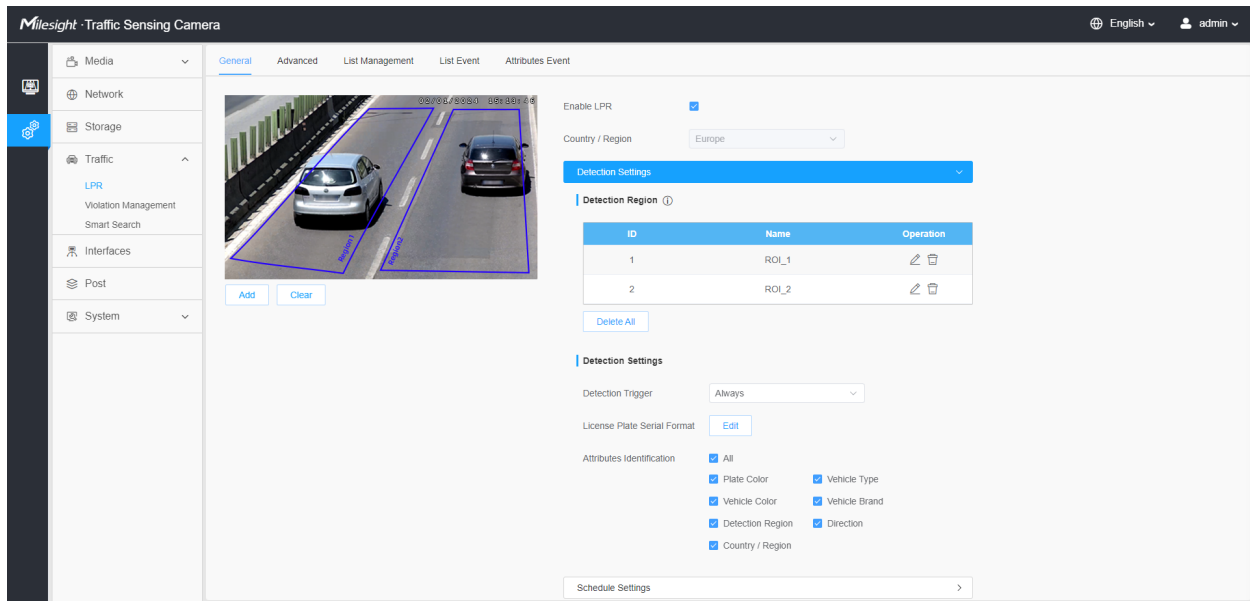
### LPR

Under the LPR function, you can configure LPR General, Advanced, List Management, List Event, and Attributes Event. You have the flexibility to set LPR rules and manage LPR Black Lists/White Lists. Additionally, you can trigger alarms based on Attributes Event, making it easy to manage LPR and related events.

#### General

In the "General" interface of "LPR", configure the relevant recognition areas, trigger modes, and recognition attributes for LPR. The real-time video stream view on the left represents the LPR Sensor view.





**Table 29. Description of the buttons**

Parameters	Function Introduction
Enable LPR	Enable/disable the LPR detection function.
Country/ Region	Select country/ region to detect the license plate.

The configuration steps for LPR recognition and other general settings are as follows:

**Step1:** Click the checkbox "Enable LPR" to activate the LPR recognition feature.

#### [Detection Settings]

**Step2:** You can draw the LPR recognition area on the left-side screen.

▼
**Detection Settings**

**Detection Region** ⓘ

ID	Name	Operation
1	ROI_1	
2	ROI_2	

Delete All

**Detection Settings**

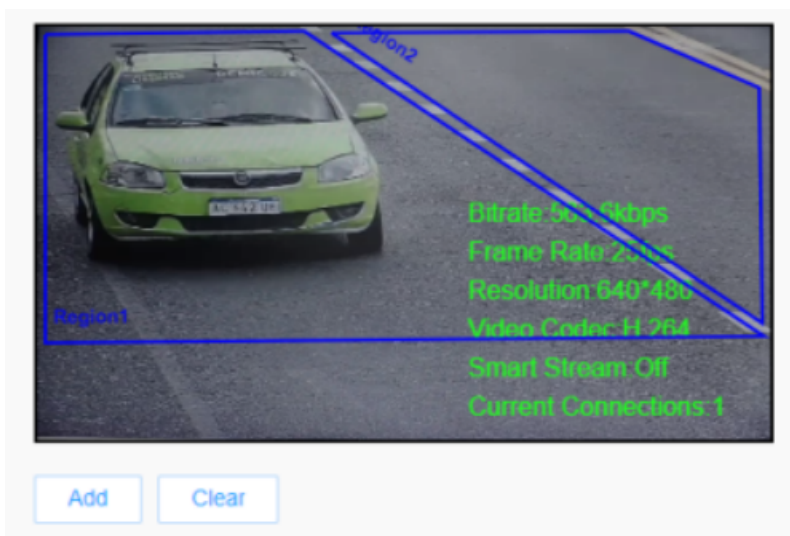
Detection Trigger: Always ▼

License Plate Serial Format: Edit

Attributes Identification:

- All
- Plate Color
- Vehicle Color
- Detection Region
- Country / Region
- Vehicle Type
- Vehicle Brand
- Direction

**Note:** The detection area can be drawn as an irregular quadrilateral, which greatly enhances the scene adaptability.



**Table 30. Description of the buttons**

Parameters	Function Introduction									
<b>Add</b>	<p>Draw on the screen to select the desired area of interest, then click the "Add" button to add that area. You can add up to four recognition areas, but for optimal performance, we recommend using 2-3 areas.</p> <p>You can edit the name of the area or delete the area in the list below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #007bff; color: white;"> <th>ID</th> <th>Name</th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">ROI_1</td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">ROI_2</td> <td style="text-align: center;"> </td> </tr> </tbody> </table> <p> <b>Note:</b> Only license plates larger than 150 pixels can be recognized.</p>	ID	Name	Operation	1	ROI_1		2	ROI_2	
ID	Name	Operation								
1	ROI_1									
2	ROI_2									
<b>Clear</b>	Click the "Clear" button to clear the area being drawn.									
<b>Delete All</b>	Click the "Delete All" button to delete all the added areas.									

**Step3:** Set Detection Settings.

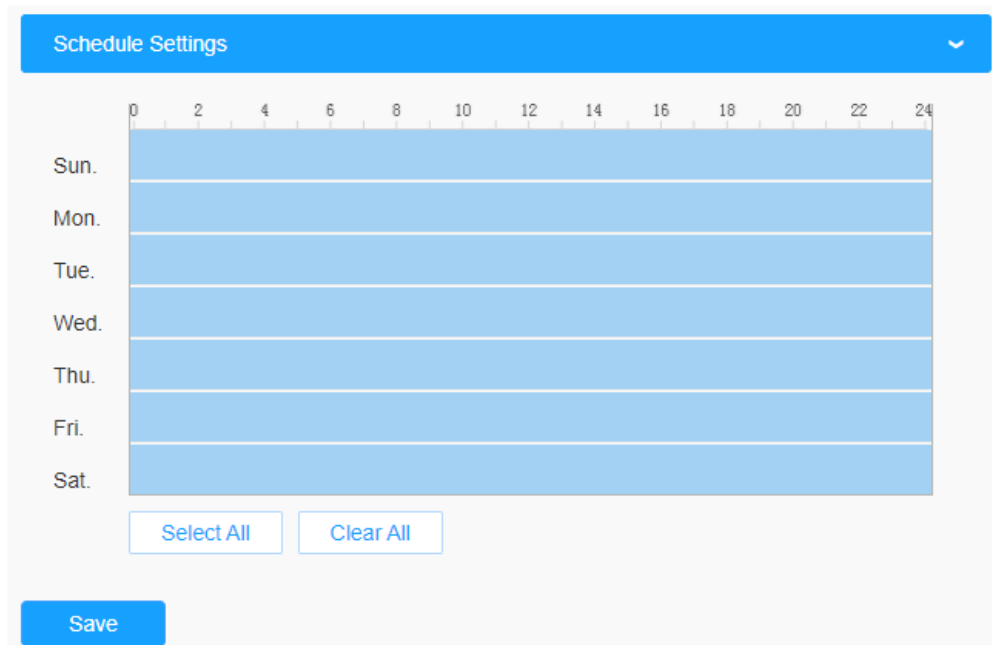
**Table 31. Description of the buttons**

Parameters	Function Introduction																				
<b>Detection Trigger</b>	<p><b>Always:</b> in this mode, camera will always detect license plates.</p> <p><b>Alarm Input:</b> in this mode, camera will only detect license plates during Alarm Input is being triggered.</p>																				
<b>License Plate Serial Format</b>	<div style="border: 1px solid #ccc; padding: 10px; margin-bottom: 10px;"> <div style="text-align: right; border-bottom: 1px solid #ccc; padding-bottom: 5px;">Edit <span style="float: right; font-size: 1.2em;">✕</span></div> <div style="margin-bottom: 5px;"><input checked="" type="checkbox"/> Filter out results with incorrect character count</div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.9em;"> <thead> <tr style="background-color: #007bff; color: white;"> <th>ID</th> <th>License Plate Character Count</th> <th>License Plate Serial Format</th> <th>Enable</th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">All</td> <td style="text-align: center;">*</td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">7</td> <td style="text-align: center;">AA111AA</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">6</td> <td style="text-align: center;">AAA111</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"> </td> </tr> </tbody> </table> <div style="margin-top: 5px;"> <span style="background-color: #007bff; color: white; padding: 2px 5px; border: 1px solid #007bff;">Add</span> <span style="border: 1px solid #007bff; padding: 2px 5px; margin-left: 10px;">Delete All</span> </div> <div style="font-size: 0.8em; margin-top: 5px;">                     A - Letters Only   1 - Numbers Only   * - Unrestricted Type                      Example:AA111*                 </div> <div style="text-align: right; margin-top: 5px;"> <span style="background-color: #007bff; color: white; padding: 2px 5px; border: 1px solid #007bff;">Save</span> <span style="border: 1px solid #007bff; padding: 2px 5px; margin-left: 10px;">Cancel</span> </div> </div> <p>License Plate Serial Format function supports formulating identification rules and can automatically do further processing, filter license plates in non-compliant formats to achieve more intelligent and accurate license plate recognition.</p> <p> <b>Note:</b> It supports up to 10 license plate characters.</p>	ID	License Plate Character Count	License Plate Serial Format	Enable	Operation	0	All	*	<input type="checkbox"/>		1	7	AA111AA	<input checked="" type="checkbox"/>		2	6	AAA111	<input checked="" type="checkbox"/>	
ID	License Plate Character Count	License Plate Serial Format	Enable	Operation																	
0	All	*	<input type="checkbox"/>																		
1	7	AA111AA	<input checked="" type="checkbox"/>																		
2	6	AAA111	<input checked="" type="checkbox"/>																		

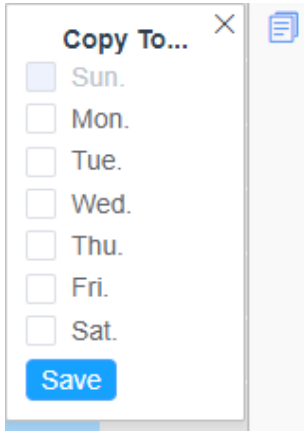
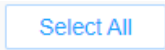
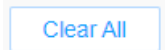
Parameters	Function Introduction																																																																																
<b>Attributes Identification</b>	<p>Check <b>Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, Detection Region, Direction, Country/Region</b>, or <b>All</b> to enable Attributes Identification, it will display the corresponding information on the Smart Search interface.</p> <ul style="list-style-type: none"> <li>• <b>Vehicle Type:</b> Car, SUV, Van, Bus, Truck, Fire engine, Ambulance, Motorbike, Bicycle and Other</li> <li>• <b>Vehicle Color:</b> Black, White, Gray, Red, Yellow, Green and Blue</li> <li>• <b>Plate Color:</b> Black, White, Red, Yellow, Green and Blue</li> <li>• <b>Vehicle Brand:</b></li> </ul> <table border="1" data-bbox="691 533 1378 1014"> <thead> <tr> <th colspan="5">Vehicle Brand</th> </tr> </thead> <tbody> <tr><td>Audi</td><td>Aston Martin</td><td>Alfa Romeo</td><td>Acura</td><td>BYD</td></tr> <tr><td>Buick</td><td>BMW</td><td>Bentley</td><td>Bugatti</td><td>CUPRA</td></tr> <tr><td>Cadillac</td><td>Chrysler</td><td>Chery</td><td>Chevrolet</td><td>Citroen</td></tr> <tr><td>Dodge</td><td>Daewoo</td><td>Daihatsu</td><td>DS</td><td>Dacia</td></tr> <tr><td>Ford</td><td>Ferrari</td><td>Fiat</td><td>GMC</td><td>Geely</td></tr> <tr><td>Honda</td><td>Haval</td><td>Hyundai</td><td>Infinity</td><td>Isuzu</td></tr> <tr><td>Jeep</td><td>Jaguar</td><td>Kia</td><td>Koenigsegg</td><td>Lincoln</td></tr> <tr><td>Lexus</td><td>Land Rover</td><td>Lamborghini</td><td>LYNK&amp;CO</td><td>Lancia</td></tr> <tr><td>McLaren</td><td>Mercedes-Benz</td><td>MITSUOKA</td><td>Mazda</td><td>MINI</td></tr> <tr><td>Maserati</td><td>Maybach</td><td>Mitsubishi</td><td>Mercury</td><td>MorrisGarages</td></tr> <tr><td>Nissan</td><td>Opel</td><td>Pagani</td><td>Porsche</td><td>Peugeot</td></tr> <tr><td>Renault</td><td>Rolls-royce</td><td>Rolls-royce</td><td>Seat</td><td>Suzuki</td></tr> <tr><td>Skoda</td><td>Subaru</td><td>Smart</td><td>Ssangyong</td><td>Saturn</td></tr> <tr><td>SAAB</td><td>Spyker</td><td>Shelby</td><td>Toyota</td><td>Tesla</td></tr> <tr><td>Volkswagen</td><td>Volvo</td><td></td><td></td><td></td></tr> </tbody> </table>	Vehicle Brand					Audi	Aston Martin	Alfa Romeo	Acura	BYD	Buick	BMW	Bentley	Bugatti	CUPRA	Cadillac	Chrysler	Chery	Chevrolet	Citroen	Dodge	Daewoo	Daihatsu	DS	Dacia	Ford	Ferrari	Fiat	GMC	Geely	Honda	Haval	Hyundai	Infinity	Isuzu	Jeep	Jaguar	Kia	Koenigsegg	Lincoln	Lexus	Land Rover	Lamborghini	LYNK&CO	Lancia	McLaren	Mercedes-Benz	MITSUOKA	Mazda	MINI	Maserati	Maybach	Mitsubishi	Mercury	MorrisGarages	Nissan	Opel	Pagani	Porsche	Peugeot	Renault	Rolls-royce	Rolls-royce	Seat	Suzuki	Skoda	Subaru	Smart	Ssangyong	Saturn	SAAB	Spyker	Shelby	Toyota	Tesla	Volkswagen	Volvo			
Vehicle Brand																																																																																	
Audi	Aston Martin	Alfa Romeo	Acura	BYD																																																																													
Buick	BMW	Bentley	Bugatti	CUPRA																																																																													
Cadillac	Chrysler	Chery	Chevrolet	Citroen																																																																													
Dodge	Daewoo	Daihatsu	DS	Dacia																																																																													
Ford	Ferrari	Fiat	GMC	Geely																																																																													
Honda	Haval	Hyundai	Infinity	Isuzu																																																																													
Jeep	Jaguar	Kia	Koenigsegg	Lincoln																																																																													
Lexus	Land Rover	Lamborghini	LYNK&CO	Lancia																																																																													
McLaren	Mercedes-Benz	MITSUOKA	Mazda	MINI																																																																													
Maserati	Maybach	Mitsubishi	Mercury	MorrisGarages																																																																													
Nissan	Opel	Pagani	Porsche	Peugeot																																																																													
Renault	Rolls-royce	Rolls-royce	Seat	Suzuki																																																																													
Skoda	Subaru	Smart	Ssangyong	Saturn																																																																													
SAAB	Spyker	Shelby	Toyota	Tesla																																																																													
Volkswagen	Volvo																																																																																

**[Schedule Settings]**

**Step4:** Schedule Settings.



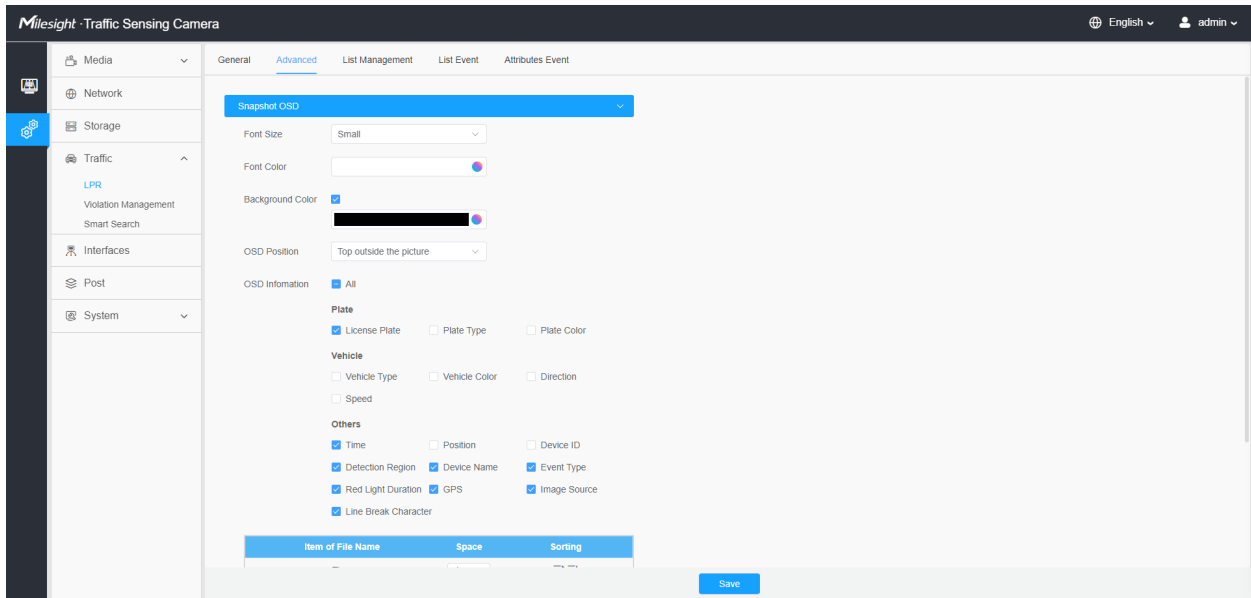
**Table 32. Description of the buttons**

Parameters	Function Introduction
	<p>Copy the schedule area to another date.</p>
	<p>Select all schedule.</p>
	<p>Clear all schedule.</p>




## Advanced


In the Advanced interface, you can configure Snapshot-related settings, including the display of Snapshot OSD and the format of Snapshot File Name.

### [Snapshot OSD]

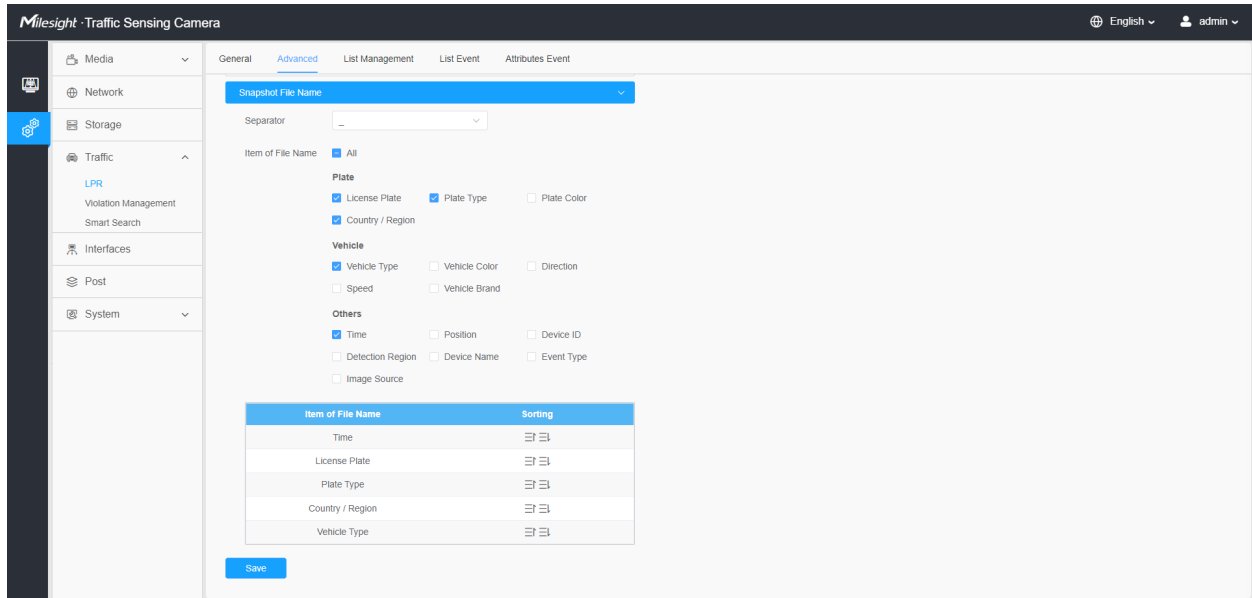


**Table 33. Description of the buttons**

Parameters	Function Introduction
<p style="text-align: center;"><b>Font Size</b></p>	<p>Smallest/Small/Medium/Large/Largest are available for OSD information.</p> <p> <b>Note:</b> Snapshot OSD font size and Image OSD font size are corresponded.</p>
<p style="text-align: center;"><b>Font Color</b></p>	<p>Enable to set different colors for OSD information.</p> <p> <b>Note:</b> Snapshot OSD font color and Image OSD font color are corresponded.</p>
<p style="text-align: center;"><b>Background Color</b></p>	<p>Check the checkbox to select background color of snapshot OSD information.</p> <p> <b>Note:</b> Background color cannot be the same with font color.</p>
<p style="text-align: center;"><b>OSD Position</b></p>	<p>Top/Bottom/Top outside the picture/Bottom outside the picture are available for OSD position.</p>



Parameters	Function Introduction
<p style="text-align: center;"><b>OSD Information</b></p>	<p>Customize the OSD content. You can set OSD Information as shown below:</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <p>OSD Information <input type="checkbox"/> All</p> <p><b>Plate</b></p> <p><input type="checkbox"/> License Plate    <input type="checkbox"/> Plate Type    <input type="checkbox"/> Plate Color</p> <p><b>Vehicle</b></p> <p><input type="checkbox"/> Vehicle Type    <input type="checkbox"/> Vehicle Color    <input type="checkbox"/> Direction</p> <p><input type="checkbox"/> Speed</p> <p><b>Others</b></p> <p><input type="checkbox"/> Time    <input type="checkbox"/> Position    <input type="checkbox"/> Device ID</p> <p><input type="checkbox"/> Detection Region    <input type="checkbox"/> Device Name    <input type="checkbox"/> Event Type</p> <p><input type="checkbox"/> GPS    <input type="checkbox"/> Image Source    <input type="checkbox"/> Line Break Character</p> </div> <p>When license plate is recognized and the alarm is triggered, the snapshot of license plate recognition will show as below:</p> 

**[Snapshot File Name]**



**Table 34. Description of the buttons**


Parameters	Function Introduction
<p><b>Separator</b></p>	<p>“-”, “_” and Space are available for File Name Separator format. The default separator is “-”.</p>
<p><b>Item of File Name</b></p>	<p>You can customize the snapshot file name according to items chosen.</p> <div data-bbox="613 1192 1412 1680" style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <p>Item of File Name <input checked="" type="checkbox"/> All</p> <p><b>Plate</b></p> <p><input checked="" type="checkbox"/> License Plate    <input checked="" type="checkbox"/> Plate Type    <input type="checkbox"/> Plate Color</p> <p><input checked="" type="checkbox"/> Country / Region</p> <p><b>Vehicle</b></p> <p><input checked="" type="checkbox"/> Vehicle Type    <input type="checkbox"/> Vehicle Color    <input type="checkbox"/> Direction</p> <p><input type="checkbox"/> Speed    <input type="checkbox"/> Vehicle Brand</p> <p><b>Others</b></p> <p><input checked="" type="checkbox"/> Time    <input type="checkbox"/> Position    <input type="checkbox"/> Device ID</p> <p><input type="checkbox"/> Detection Region    <input type="checkbox"/> Device Name    <input type="checkbox"/> Event Type</p> <p><input type="checkbox"/> Image Source</p> </div>

Each time when an item is checked, the list will add the item row, including the item name and sorting operation. You can click  and  button to sort these items, and choose



separator to connect these items name. Also, the content of Position and Device ID items can be customized. When you check all items, the function interface will show as below:

Item of File Name	Sorting
Time	☰☷
License Plate	☰☷
Plate Type	☰☷
Speed	☰☷
Direction	☰☷
Detection Region	☰☷
Position: <input type="text" value="Position"/>	☰☷
Device Name	☰☷
Device ID: <input type="text" value="Device ID"/>	☰☷
Plate Color	☰☷
Vehicle Type	☰☷
Vehicle Color	☰☷
Event Type	☰☷
Country / Region	☰☷
Vehicle Brand	☰☷
Image Source	☰☷

 **Note:** You need to check at least one item.

For example, you can choose items, separator and items sorting as below:

Item of File Name  All

**Plate**

License Plate     Plate Type     Plate Color

Country / Region

**Vehicle**

Vehicle Type     Vehicle Color     Direction

Speed     Vehicle Brand

**Others**

Time     Position     Device ID

Detection Region     Device Name     Event Type

Image Source

Item of File Name	Sorting
Time	⇌
License Plate	⇌

Once license plate is recognized, and the snapshot will be uploaded via FTP or Email or stored on your local LPR Picture File Path. Then, You can see the snapshot file name which you customize as shown below:

*Full-snapshot Recognized successfully*



420201116021729\_RT528N

*Full-snapshot Recognized failed*



*License plate snapshot Recognized successfully*



*License plate snapshot Recognized failed*

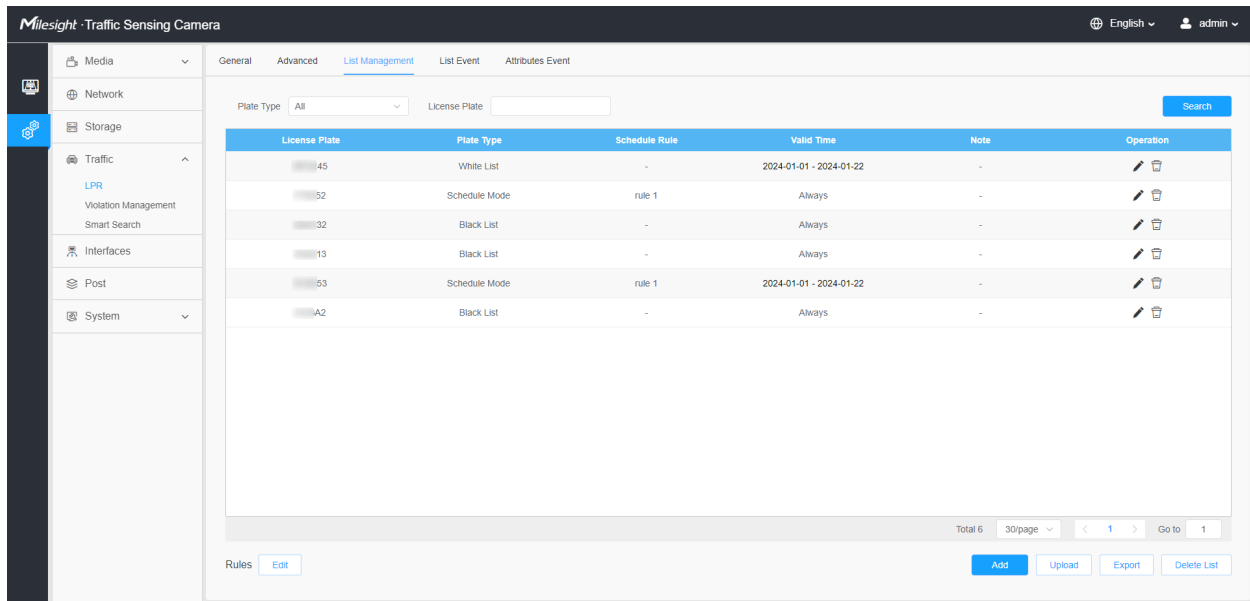


**Note:**


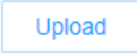

- If the item checked is not recognized successfully, then the item will be displayed with the specific symbol "#".
- The file name of full-snapshot will be preceded by a number of 4.

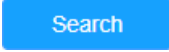

## List Management


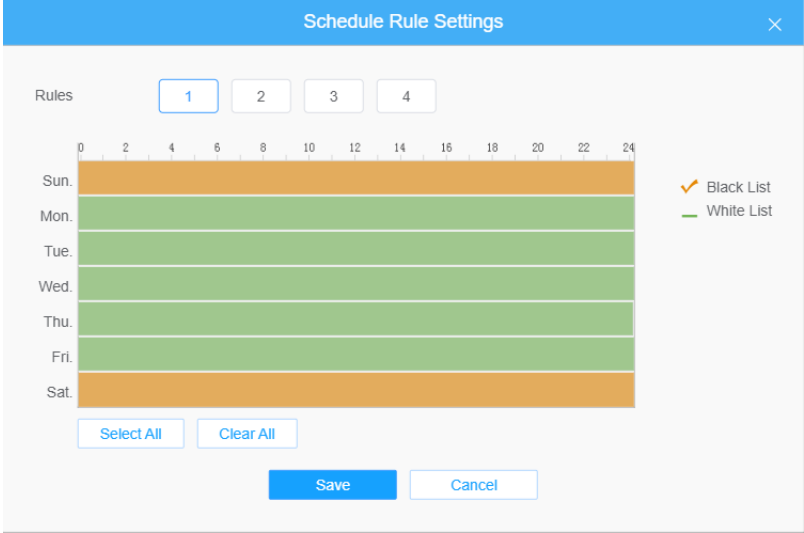
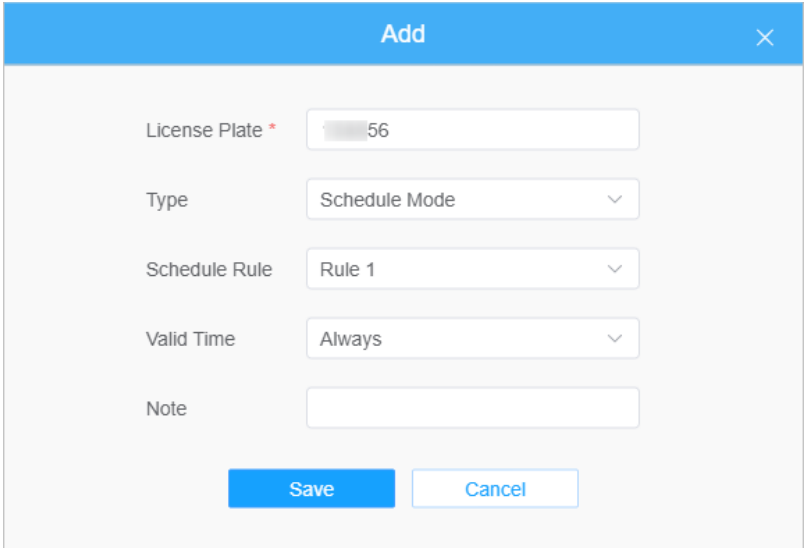

Add the license plates to this interface as Black or White type (Black/White List), and then you can set the alarm action for these license plates in the corresponding List Event interface. When these license plates are detected, the camera will respond according to your settings.



**Table 35. Description of the buttons**

Parameters	Function Introduction
<div style="text-align: center;">  <p><b>Add</b></p> </div>	<p>Click the Add button to add license plates as either Black or White type to the license plate management. You can select the effective time as 'always' or a specific time period. Click the Save button to save the added license plate list.</p> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <div style="background-color: #007bff; color: white; text-align: center; padding: 5px;">Add <span style="float: right;">✕</span></div> <div style="padding: 10px;"> <p>License Plate * <input type="text" value="14"/></p> <p>Type <input type="text" value="Black List"/></p> <p>Valid Time <input type="text" value="Always"/></p> <p>Note <input type="text"/></p> <div style="display: flex; justify-content: center; gap: 20px; margin-top: 10px;"> <span style="background-color: #007bff; color: white; padding: 5px 15px; border-radius: 5px;">Save</span> <span style="border: 1px solid #007bff; padding: 5px 15px; border-radius: 5px; color: #007bff;">Cancel</span> </div> </div> </div>
<div style="text-align: center;">  <p><b>Upload</b></p> </div>	<p><b>Batch Upload:</b> You can add a csv form with the license plate you want to add, click the "Browse" button to import the form to this interface, click the "Upload" button, the license plates will be added successfully.</p> <p> <b>Note:</b> You can first download the template as a reference in this interface.</p>

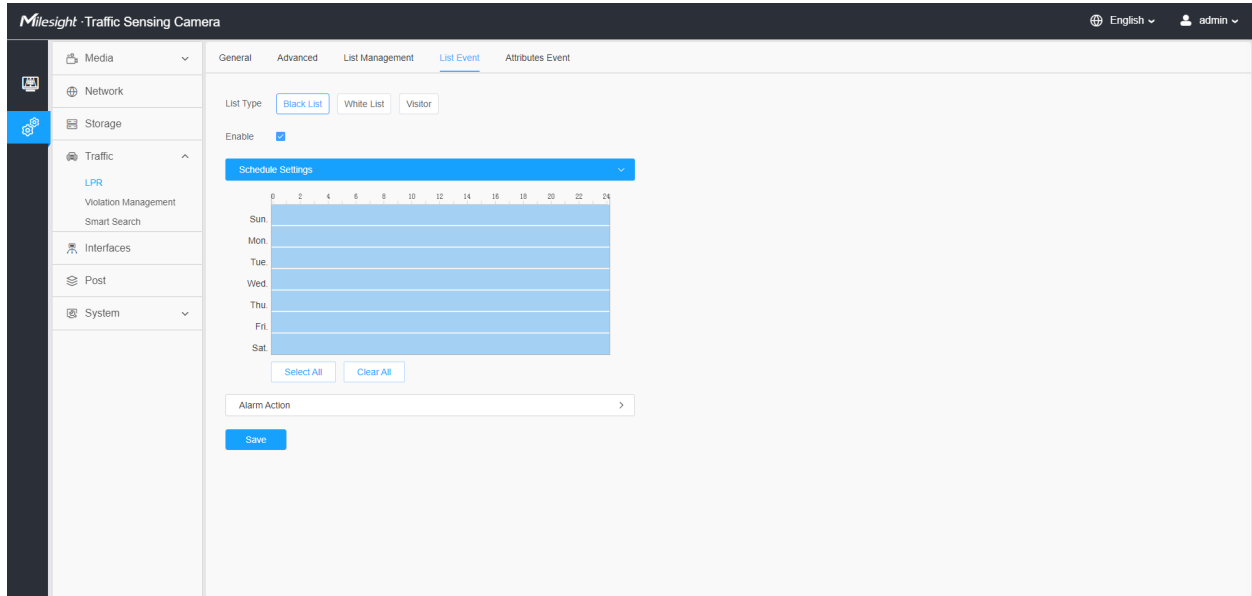
<b>Parameters</b>	<b>Function Introduction</b>
 <b>List Search</b>	Select Plate Type or directly enter the license plate number, click the "Search" button, the corresponding license plate will be displayed in the list below.
 <b>Export List</b>	Click the "Export List" button to export the license plate in the current list to a csv form locally.
<b>Delete List</b>	Click the "Delete List" button to delete all the license plate in the current list.

Parameters	Function Introduction
<p style="text-align: center;"><b>Schedule Rules</b></p>	<p>Click the "Edit"  button to customize a rule.</p>  <p>And then set the license plate to Schedule Mode and choose a custom schedule rule that can configure the license plate as Black List or White List at different times.</p>  <p> <b>Note:</b> Support setting up to 4 Schedule Rules for Schedule Mode.</p>

 **Note:** It supports adding 2,000 Black List and White List.

## List Event

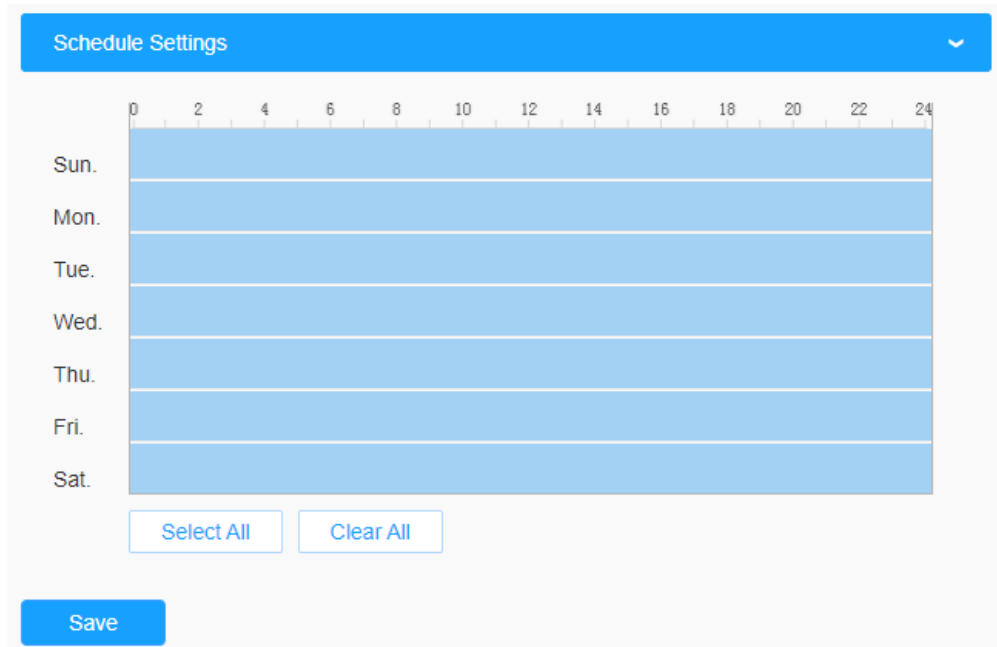
In the List Event section, you can select the schedule and alarm action for configuring List Events.



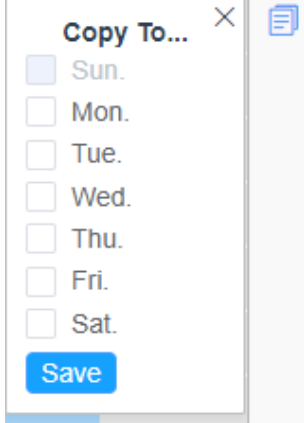


**Table 36. Description of the buttons**

Parameters	Function Introduction
List Type	Select the type of list you want to configure: Black List/White List/Visitor.
Enable	Select the recording source for video capture.

**[Schedule Settings]**



**Table 37. Description of the buttons**

Parameters	Function Introduction
	<p>Copy the schedule area to another date.</p>
	<p>Select all schedule.</p>
	<p>Clear all schedule.</p>

**[Alarm Action]**



Alarm Action
▼

**Record** ▼

Duration

Linkage  Save to Storage

Upload via FTP

---

**Snapshot** >

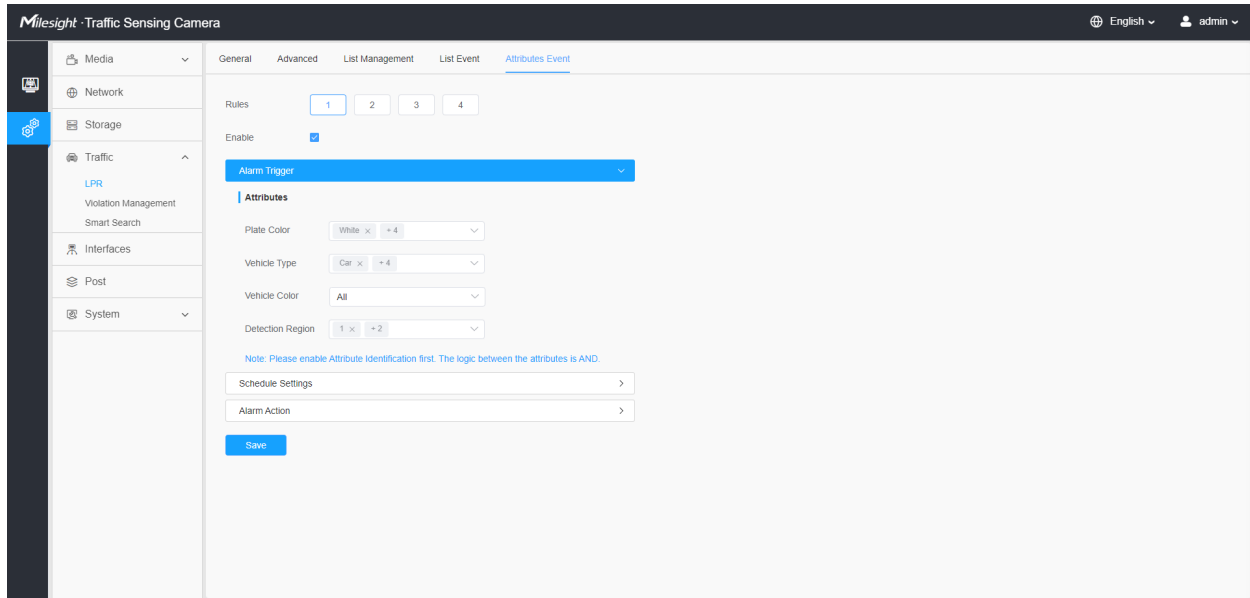
**External Output** >

**Table 38. Description of the buttons**

Parameters	Function Introduction
<b>Record</b>	<p><b>Duration:</b> Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available.</p> <p><b>Linkage:</b> Save alarm recording files into SD Card or NAS or Upload the recording files via FTP.</p>
<b>Snapshot</b>	<p><b>Snapshot Type:</b> Select the snapshot type you want to send, including License Plate, Vehicle Snapshot, Full Snapshot, and Violation Evidence.</p> <p><b>Linkage:</b> Save alarm recording files into SD Card or NAS, Upload the recording files via FTP and send alarm email.</p>
<b>External Output</b>	<p>If the camera equips with External Output, you can enable the action after configuring the trigger duration.</p>

## Attributes Event

You can specify up to 4 different rules for Attributes Events. Within the specified schedule, when a specific attribute is detected, it will trigger the pre-configured Alarm Action.



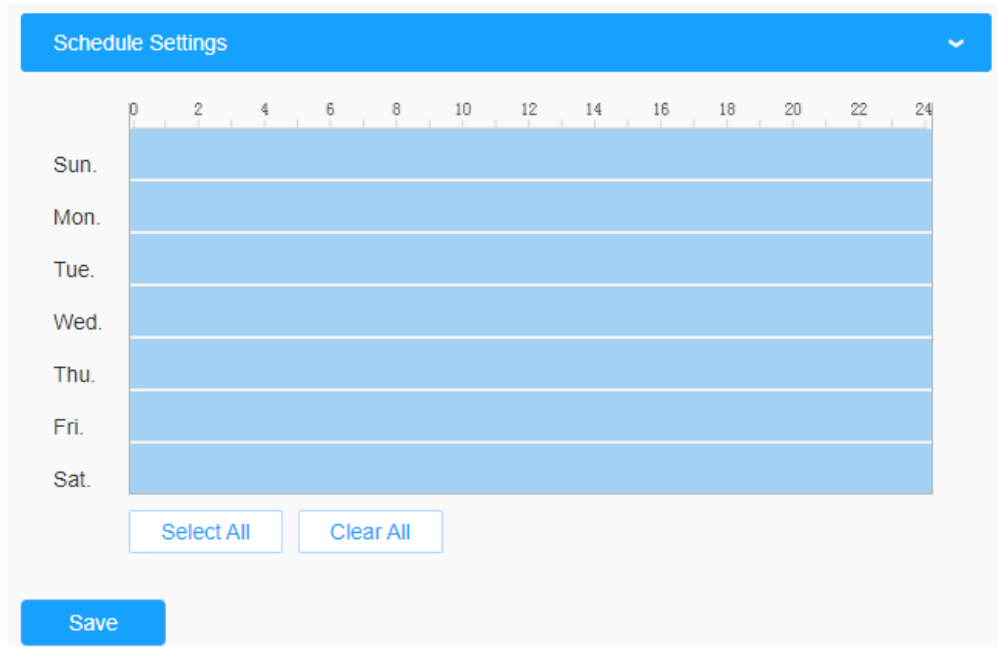
### [Alarm Trigger]

You can configure multiple triggered attributes, including Plate Color, Vehicle Type, Vehicle Color, and Detection Region. The following are the available specific options.

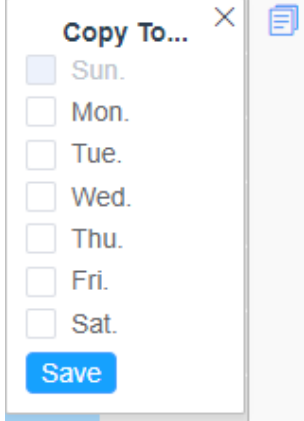


**Table 39. Description of the buttons**

Parameters	Function Introduction
<b>Plate Color</b>	The available options include All, Black, White, Red, Yellow, Green, and Blue.
<b>Vehicle Type</b>	The available options include All, Car, SUV, Van, Bus, Truck, Fire engine, Ambulance, Motorbike, Bicycle, and Other.
<b>Vehicle Color</b>	The available options include All, Black, White, Gray, Red, Yellow, Green, and Blue.
<b>Detection Region</b>	The available options include All, 1, 2, 3, and 4.

### [Schedule Settings]



**Table 40. Description of the buttons**

Parameters	Function Introduction
	<p>Copy the schedule area to another date.</p>
	<p>Select all schedule.</p>
	<p>Clear all schedule.</p>

**[Alarm Action]**

Alarm Action
▼

**Record** ▼

Duration

Linkage  Save to Storage

Upload via FTP

---

**Snapshot** >

**External Output** >

**Table 41. Description of the buttons**

Parameters	Function Introduction
<b>Record</b>	<p><b>Duration:</b> Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available.</p> <p><b>Linkage:</b> Save alarm recording files into SD Card or NAS or Upload the recording files via FTP.</p>
<b>Snapshot</b>	<p><b>Snapshot Type:</b> Select the snapshot type you want to send, including License Plate, Vehicle Snapshot, Full Snapshot, and Violation Evidence.</p> <p><b>Linkage:</b> Save alarm recording files into SD Card or NAS, Upload the recording files via FTP and send alarm email.</p>
<b>External Output</b>	<p>If the camera equips with External Output, you can enable the action after configuring the trigger duration.</p>

## *Violation Management*

In the Violation Management interface, you can configure the relevant settings and Alarm Action for violation events.

The screenshot shows the Milesight Traffic Sensing Camera web interface. The main content area is titled "Violation Management" and features a live camera feed on the left with overlaid detection lines for "Straight Trigger Line", "Left-turn Trigger Line", "Right-turn Trigger Line", and "Stop Line". Below the feed are "Add" and "Clear" buttons. To the right is the "Detection Settings" panel, which includes a "Detection Region" table, a "Delete All" button, and configuration options for "Detection Region Configuration" and "Detection Line Configuration".

ID	Name	Operation
1	ROI_1	
2	ROI_2	
3	ROI_3	

**Detection Region Configuration**

Region1 Region2 Region3 Region4

Lane Direction: Straight Lane x

**Detection Line Configuration**

Stop Line

Straight Trigger Line

Left-turn Trigger Line

Right-turn Trigger Line

Save

## [Detection Settings]

**Step1:** Set Detection Region. The detection region in Violation Management is synchronized with the Detection Region settings in LPR - [General \(page 64\)](#).

This close-up screenshot shows the configuration options for detection regions and lines. The "Detection Region Configuration" section includes four tabs: "Region1" (selected), "Region2", "Region3", and "Region4". Below the tabs is a "Lane Direction" dropdown menu currently set to "Straight Lane". The "Detection Line Configuration" section contains four checkboxes: "Stop Line" (checked), "Straight Trigger Line" (checked), "Left-turn Trigger Line" (unchecked), and "Right-turn Trigger Line" (unchecked).

**Detection Region Configuration**

Region1 Region2 Region3 Region4

Lane Direction: Straight Lane x

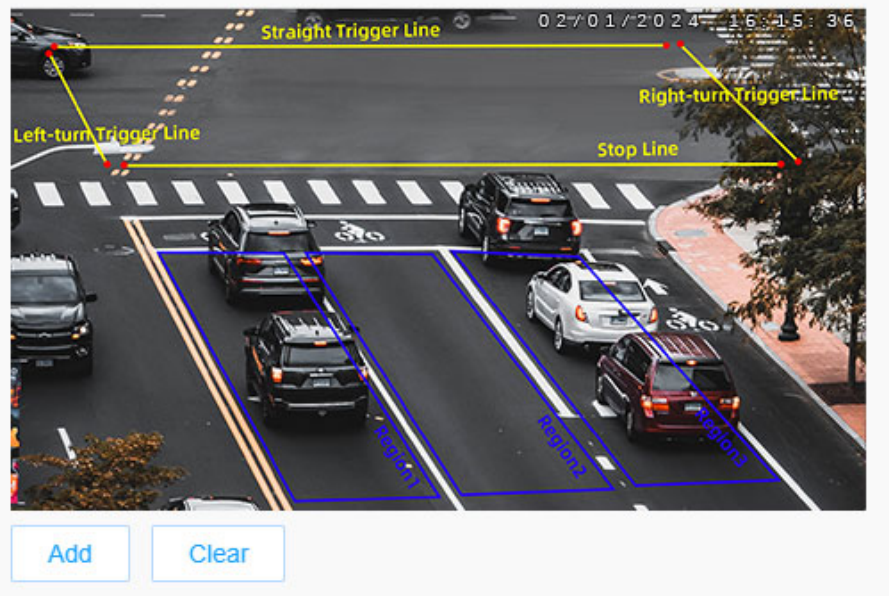
**Detection Line Configuration**

Stop Line

Straight Trigger Line

Left-turn Trigger Line

Right-turn Trigger Line



**Step2:** Define the lane direction and set trigger line. For all regions you have configured, please specify the Lane Direction as Straight Lane/Left-turn Lane/Right-turn Lane. Click on the selection box of Detection Line, and the corresponding Detection Line will appear on the left-side screen. You can use the mouse to drag and adjust it according to your needs.

**Note:** The settings in Step 2 are only required for the TS5511-GH model.

**[Detection Event]**

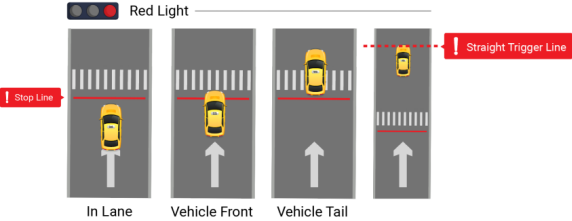
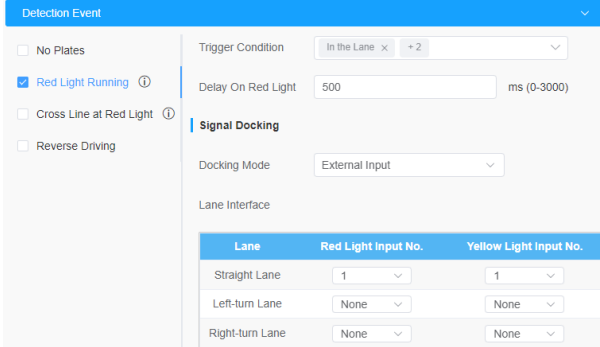
**Step3:** Set Violation Detection Event. The events include No Plates, Red Light Running, Cross Line at Red Light, and Reverse Driving.

**Note:** The functionalities of Red Light Running and Cross Line at Red Light are specific to the TS5511-GH model.

Detection Event
▼

<input type="checkbox"/> No Plates <input checked="" type="checkbox"/> Red Light Running ⓘ <input checked="" type="checkbox"/> Cross Line at Red Light ⓘ <input type="checkbox"/> Reverse Driving	<div style="border-bottom: 1px solid #ccc; padding-bottom: 5px;">                 Trigger Condition: <span style="border: 1px solid #ccc; padding: 2px;">Vehicle Tail Crossed the Stop Line</span> </div> <div style="border-bottom: 1px solid #ccc; padding-bottom: 5px;">                 Delay On Red Light: <span style="border: 1px solid #ccc; padding: 2px;">500</span> ms (0-3000)             </div> <div style="border-bottom: 1px solid #ccc; padding-bottom: 5px;"> <b>Signal Docking</b>                  Docking Mode: <span style="border: 1px solid #ccc; padding: 2px;">Video Analysis</span> </div> <div style="padding-bottom: 5px;">                 Area Settings: <span style="border: 1px solid #ccc; padding: 2px 10px;">Set</span> </div>
--	--

**Table 42. Description of the buttons**

Parameters	Function Introduction											
<p align="center"><b>No Plates</b></p>	<p>Click on the checkbox to enable the detection of vehicles without license plate.</p>											
<p align="center"><b>Red Light Running</b></p>	<p><b>Trigger Condition</b></p> <p><b>Trigger Condition:</b> Based on actual traffic requirements, you can select different Trigger Conditions, including In the Lane, Vehicle Front Crossed the Stop Line, Vehicle Tail Crossed the Stop Line, and Reached the Trigger Line.</p> <p>In other words, once the specified conditions are met, an alarm will be triggered if all the selected conditions are satisfied. You can apply multiple rules based on your specific requirements.</p> 											
	<p><b>Delay On Red Light</b></p> <p>"Delay on Red Light" is the delay time of red light running detection. Which means the camera will only start to do violation detection after the delay time (tolerance time). The range can be set from 0 to 3000ms.</p>											
	<p><b>Docking Mode</b></p> <p>Select the Signal Docking way.</p> <p><b>External Inputs:</b> It support 4 inputs for signal docking. (For Red Light Running, you can just connect inputs to Red Light, and no need to connect yellow light.)</p>  <table border="1" data-bbox="933 1465 1334 1579"> <thead> <tr> <th>Lane</th> <th>Red Light Input No.</th> <th>Yellow Light Input No.</th> </tr> </thead> <tbody> <tr> <td>Straight Lane</td> <td>1</td> <td>1</td> </tr> <tr> <td>Left-turn Lane</td> <td>None</td> <td>None</td> </tr> <tr> <td>Right-turn Lane</td> <td>None</td> <td>None</td> </tr> </tbody> </table>	Lane	Red Light Input No.	Yellow Light Input No.	Straight Lane	1	1	Left-turn Lane	None	None	Right-turn Lane	None
Lane	Red Light Input No.	Yellow Light Input No.										
Straight Lane	1	1										
Left-turn Lane	None	None										
Right-turn Lane	None	None										

Parameters	Function Introduction
	<p><b>Video Analysis:</b> It can recognize the traffic is ON or OFF based on the image analysis.</p> <p># Click “Set” button to enter the Area Settings interface.</p> <p># Click “+Area” button to set detection area of traffic light (It support two areas). Adjust the detection box to proper position, and define the lane direction of each area.</p> <p> <b>Note:</b> There is a digital zoom to help user adjust the detection area in an enlarged image easily. Calibrating the detection areas is done to improve the identification of traffic signal states.</p> 
<p><b>Cross Line at Red Light</b></p>	<p>Cross Line at Red Light refers to a situation where a vehicle crosses the Stop Line during a red light. There are two options available: Vehicle Front Crossed the Stop Line and Vehicle Tail Crossed the Stop Line. For explanations of other settings, please refer to the functionality description of Red Light Running above.</p>
<p><b>Reverse Driving</b></p>	 <p>Set the direction of travel within different regions as either Approach (towards the camera) or Away (moving away from the camera).</p> <p>Different regions can be configured with different conditions for Reverse Driving detection. Configurations such as distance (far/near) can be set, and once the conditions are met, an alarm will be triggered.</p>

**[Alarm Action]**

**Step4:** Set Alarm Action.



Alarm Action
▼

**Record** ▼

Duration

Linkage  Save to Storage

Upload via FTP

---

**Snapshot** >

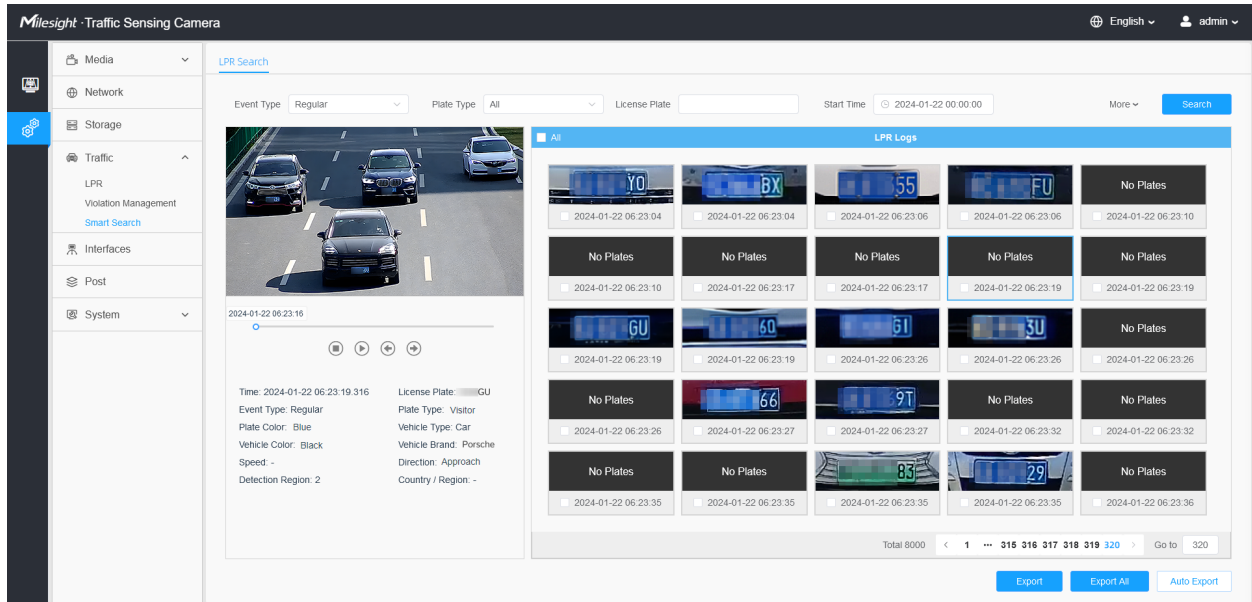
**External Output** >

**Table 43. Description of the buttons**

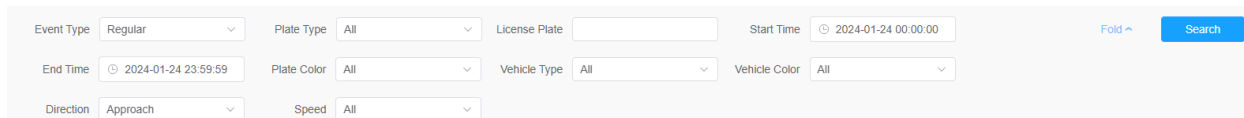
Parameters	Function Introduction
<b>Record</b>	<p><b>Duration:</b> Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available.</p> <p><b>Linkage:</b> Save alarm recording files into SD Card or NAS or Upload the recording files via FTP.</p>
<b>Snapshot</b>	<p><b>Snapshot Type:</b> Select the snapshot type you want to send, including License Plate, Vehicle Snapshot, Full Snapshot, and Violation Evidence.</p> <p><b>Linkage:</b> Save alarm recording files into SD Card or NAS, Upload the recording files via FTP and send alarm email.</p>
<b>External Output</b>	<p>If the camera equips with External Output, you can enable the action after configuring the trigger duration.</p>

## Smart Search

The real-time detection results will be displayed on the right side of Smart Search page, including detected time, live screenshot, license plate and vehicle attributes.



To access more filtering options, click the **"More"** button to expand.

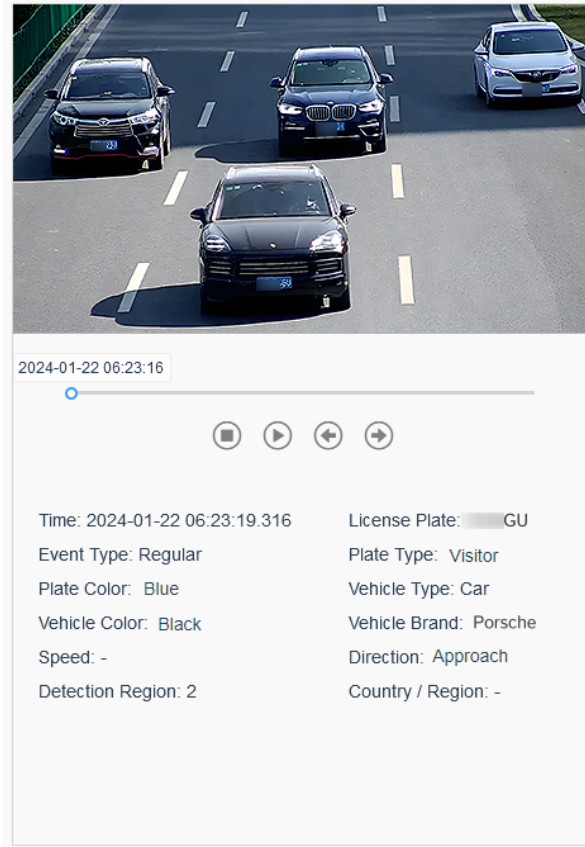


**Step1:** You can select Event Type/Plate Type/Vehicle Attributes/Direction, or directly enter the license plate number, then choose the start time and end time. Simply click the **"Search"** button, and the matching license plate information will be displayed below.

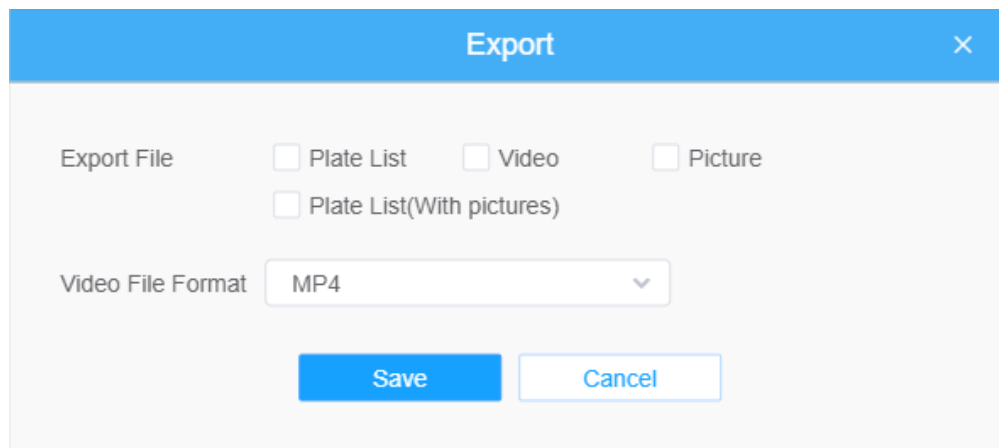
**Note:**

- It supports displaying 20,000 logs. When no SD card is inserted, the system can store up to 20,000 records. When an SD card is inserted, it allows direct reading from the card without the limitation of 20,000 records. The capacity of the card will primarily determine the available storage space.
- When an SD card or NAS is set in the storage management, the Smart Search records will be displayed up to 8,000 entries.

**Step2:** Click on the thumbnail photo under the LPR Logs, then the license plate details will be shown as below :



**Step3:** Click the "Export" or "Export All" button to export the desired files in the current list to a local folder.



**Step4:** Click the "Auto Export" button to automatically export the logs to FTP, Email or Storage.

### Auto Export ×

Enable

Day

Time

Export Time Range

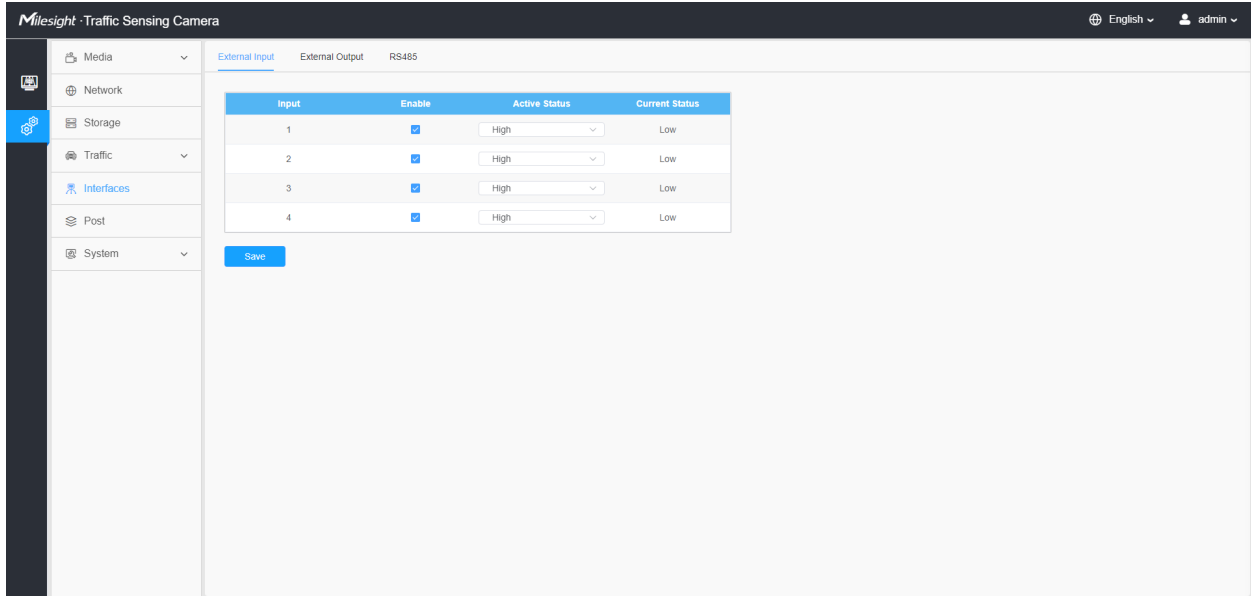
Export to  FTP  Email  Storage

## *Interface*


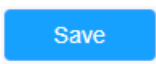
In the Interface settings, you can configure the interfaces and their related settings, including External Input, External Output, and RS485.

### **External Input:**

This setting allows you to configure the external input interface, which is used to receive signals or data from external devices. You can enable/disable the interface, set the parameters for the active status, and view the current status.

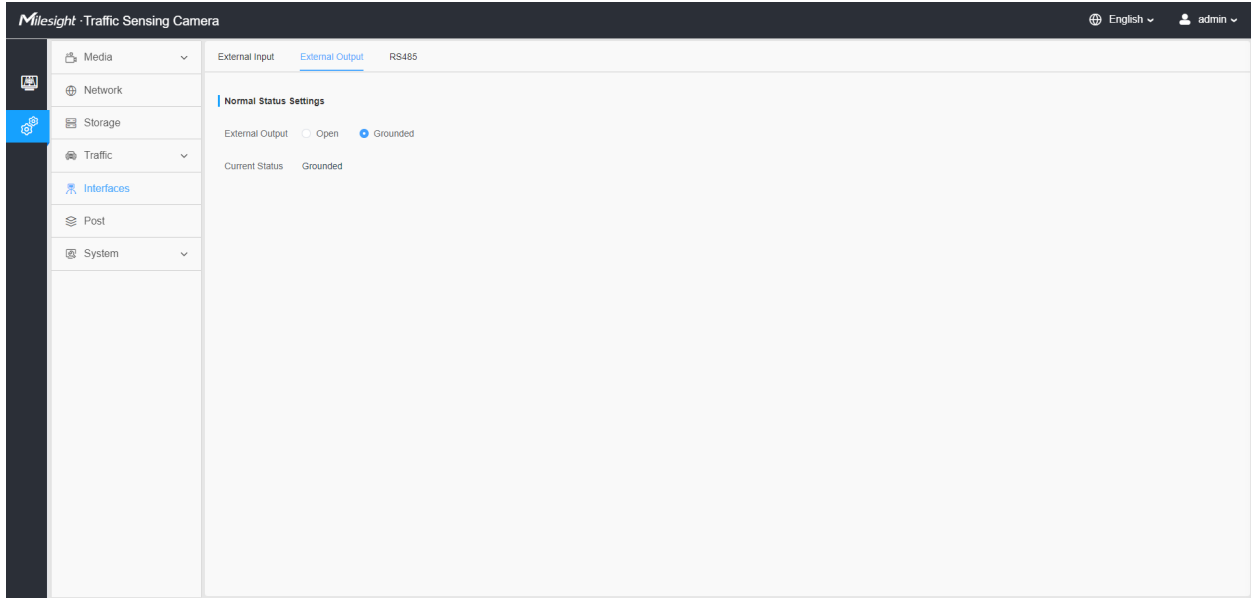


**Table 44. Description of the buttons**

Parameters	Function Introduction								
Input	<table border="1"> <tbody> <tr> <td>Yellow</td> <td>IN1</td> </tr> <tr> <td>White</td> <td>IN2</td> </tr> <tr> <td>Blue</td> <td>IN3</td> </tr> <tr> <td>Red</td> <td>IN4</td> </tr> </tbody> </table> <p> <b>Note:</b> Four input interface numbers: Please review the labels affixed to the Multi-functional Interface Cable before configuring External Input. The labels indicate the colors of the four Input interfaces as shown above.</p>	Yellow	IN1	White	IN2	Blue	IN3	Red	IN4
Yellow	IN1								
White	IN2								
Blue	IN3								
Red	IN4								
Enable	Click the checkbox to enable the corresponding interface functionality.								
Active Status	When configuring the interface as active, you can set the logic level to either high or low.								
Current Status	The current voltage status of the interface.								
	Save the configuration.								

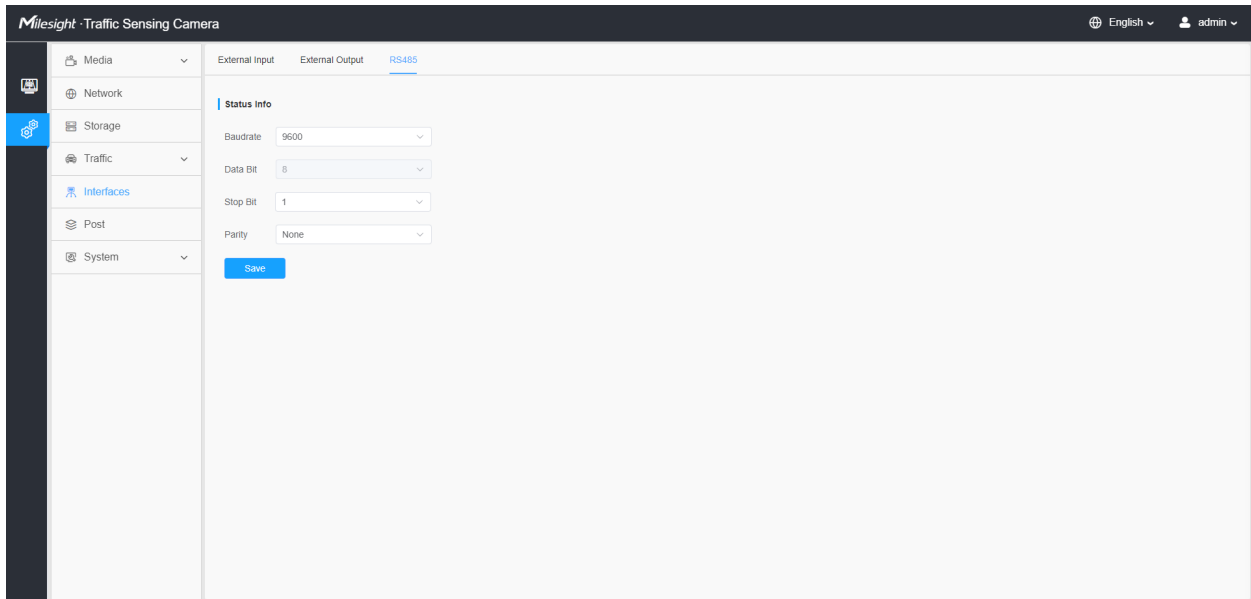
### External Output:

Configure the normal status of the External Output.



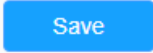
### RS485:

You can view and configure the RS485-related information here, such as Baudrate, Data bit, Stop bit, and Parity.



**Table 45. Description of the buttons**

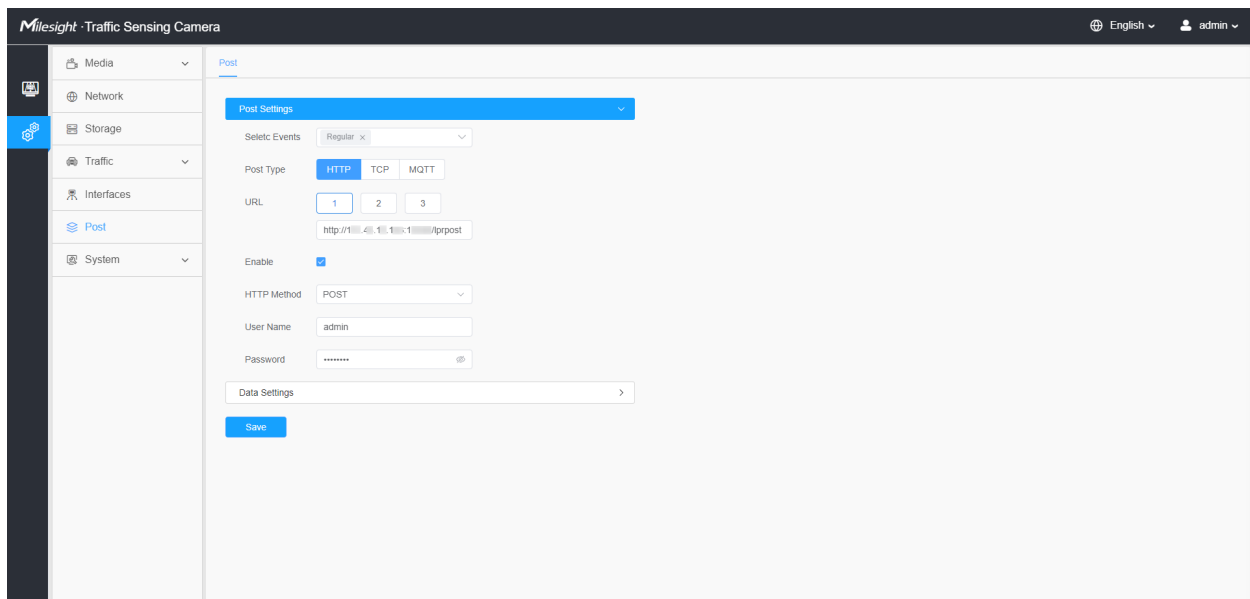
Parameters	Function Introduction
<p><b>Baudrate</b></p>	<p>The transmission rate can be configured in bits per second. Available options include 2400, 4800, 9600, 19200, and 38400. The default setting is 9600.</p>

Parameters	Function Introduction
<b>Data Bit</b>	The data bit defines the number of bits used to transmit data in each data byte. The data bit is set to 8, which allows each byte to transmit 8 bits of information.
<b>Stop Bit</b>	The stop bit is configured to indicate the number of bits that mark the end of a data frame. Available options for the stop bit include 1 bit and 2 bits. The stop bit setting ensures the integrity of data and enables the receiving side to correctly interpret the data.
<b>Parity</b>	The error detection and correction method can be configured. Available options include (None) No Parity, (Odd Parity) Odd Parity, and (Even Parity) Even Parity. The parity bit can be used to validate the integrity of data. The default selection is None.
	Save the configuration.

## Post

You can select the "Post Event" option under "Post Settings" to send data via HTTP/TCP/MQTT Post Type. The elements related to the presentation of data can be configured using the "Data Settings".

### [Post Settings]:

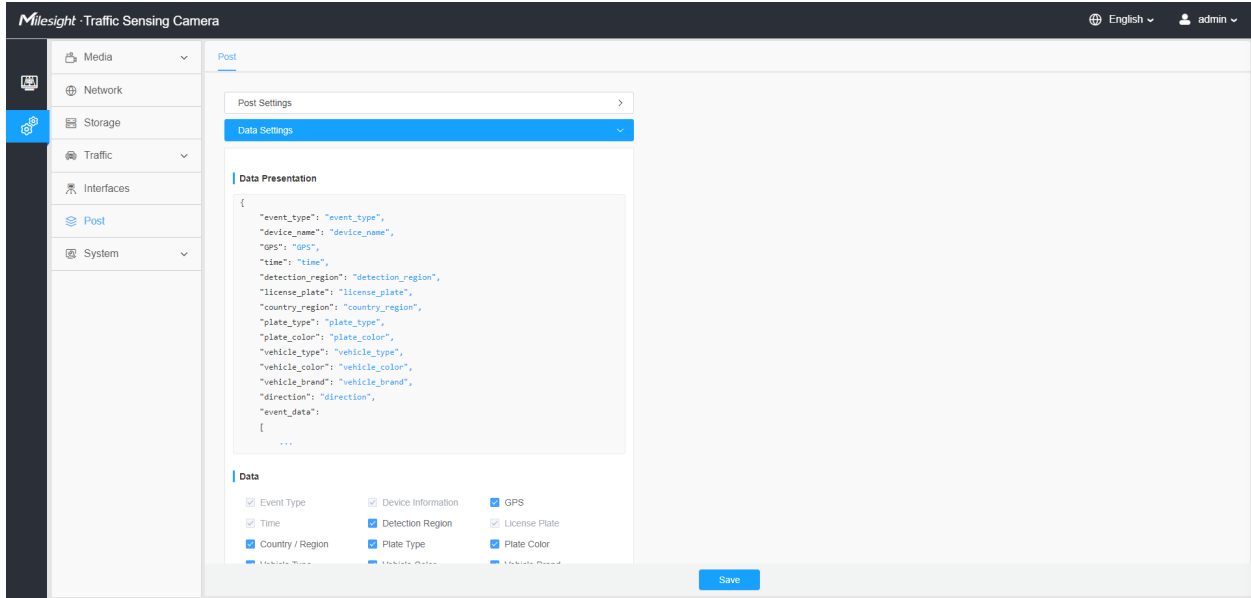


**Table 46. Description of the buttons**

Parameters		Function Introduction
<b>Select Events</b>		Choose the events you want to push, including Regular, List Event, Attributes Event, and Violation Event. When the selected event is triggered, information will be pushed to third-party devices or software compatible with Milesight.
<b>Post Type</b>		Information can be pushed by <b>HTTP</b> , <b>TCP</b> or <b>MQTT</b> .
<b>HTTP</b>	<b>URL</b>	The HTTP URL format can be customized,for example: http://{ip}:{port}/api/ httpEvent?xxxxxx
	<b>Enable</b>	Click the checkbox to enable HTTP Post Type.
	<b>HTTP Method</b>	There are two HTTP push methods, including Post and Get.
	<b>User Name</b>	Receiver name.
	<b>Password</b>	Receiver password.
<b>TCP</b>	<b>Enable</b>	Click the checkbox to enable TCP Post Type.
	<b>Camera Port</b>	Enter the camera port, with a range of 1 to 65535.
<b>MQTT</b>	<b>Enable</b>	Click the checkbox to enable MQTT Post Type.
	<b>Topic</b>	Fill in the topic for subscription and publishing.
	<b>Port</b>	MQTT broker port to receive data.
	<b>Host</b>	MQTT broker address to receive data.
	<b>User Name</b>	The username used for connecting to the MQTT broker.
	<b>Password</b>	The password used for connecting to the MQTT broker.

**[Data Settings]:**





**Data**

- Event Type
- Time
- Country / Region
- Vehicle Type
- Direction
- Vehicle Coordinates
- Device Information
- Detection Region
- Plate Type
- Vehicle Color
- Event Data
- GPS
- License Plate
- Plate Color
- Vehicle Brand
- License Plate Coordinates

**Snapshot**

- License Plate
- Violation Evidence
- Vehicle Snapshot
- Full Snapshot

**Table 47. Description of the buttons**

Parameters	Function Introduction
<p style="text-align: center;"><b>Data</b></p>	<p>Select the information you want to push. The information format can be directly viewed above and copied.</p> <p><b>Note:</b></p> <p>License Plate Coordinates represent the coordinates of the license plate at the time of event generation. Vehicle Coordinates represent the coordinates of the vehicle at the time of event generation.</p>

Parameters	Function Introduction
<b>Snapshot</b>	Select the snapshots you want to push: <ul style="list-style-type: none"> <li>• License plate: Snapshot of the license plate</li> <li>• Vehicle snapshot: Snapshot of the vehicle</li> <li>• Full snapshot: Complete snapshot</li> <li>• Violation evidence: Snapshot for violation evidence</li> </ul>

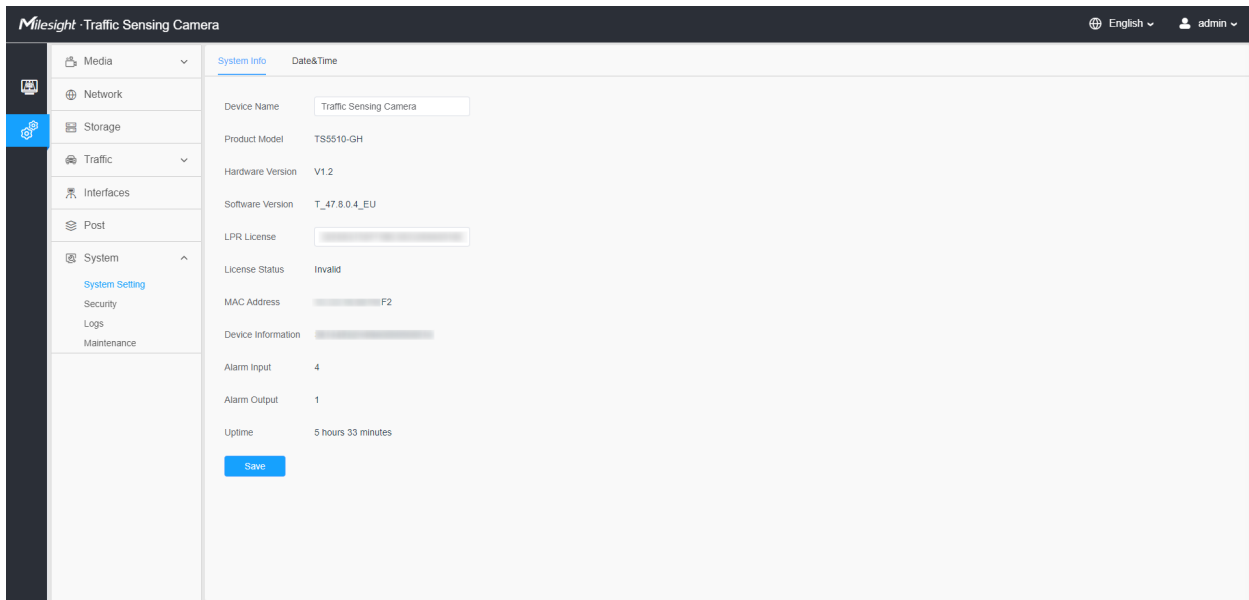
## System

### System Setting

You can access the 'System Setting' to configure System Information, Date & Time settings.




#### System Info

All information about the hardware and software of the camera can be checked on this page.

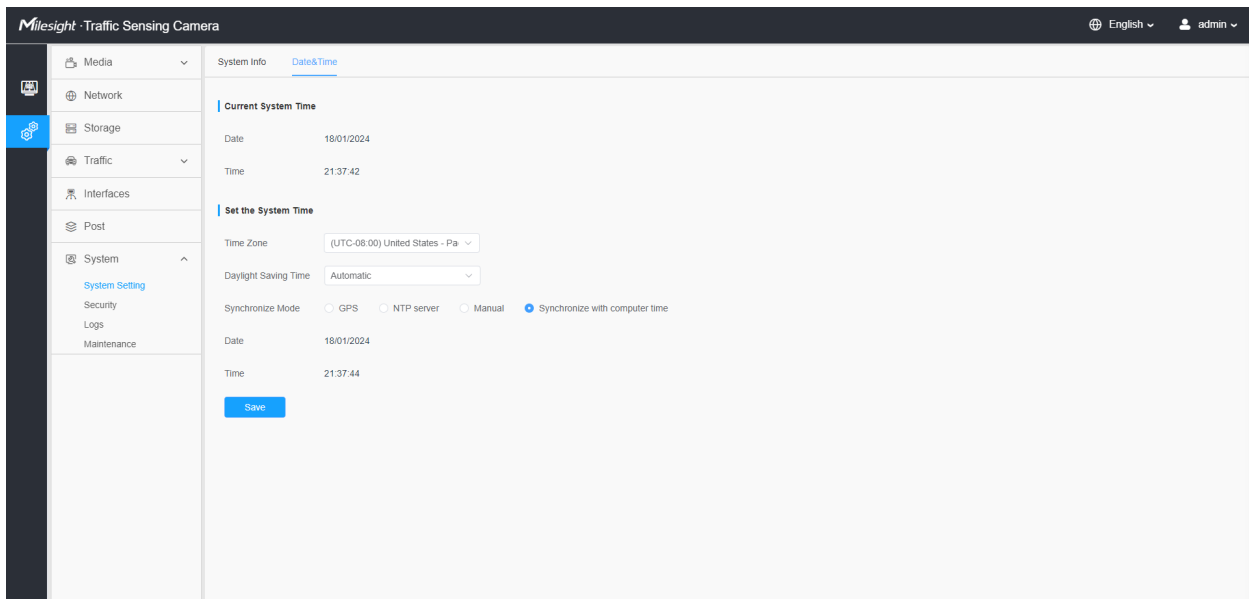


**Table 48. Description of the buttons**

Parameters	Function Introduction
<b>Device Name</b>	The device name can be customized.

Parameters	Function Introduction
<b>Product Model</b>	The product model of the camera.
<b>Hardware Version</b>	The hardware version of the camera.
<b>Software Version</b>	The software version of the camera can be upgraded.
<b>LPR License</b>	Generated by camera's information.
<b>License Status</b>	Show present license status, including <b>Valid</b> and <b>Invalid</b>
<b>MAC Address</b>	Media Access Control address.
<b>Device Information</b>	The device information, including information about alarm I/O and clipper chip.
<b>Alarm Input</b>	The number of Alarm Input interface.  <b>Note:</b> The Alarm Input will appear only when the camera have alarm input/output interface.
<b>Alarm Output</b>	The number of Alarm Output interface.  <b>Note:</b> The Alarm Output will appear only when the camera have alarm input/output interface.
<b>Uptime</b>	The elapsed time since the last restarted of the device.
	Save the configuration.

## Date & Time



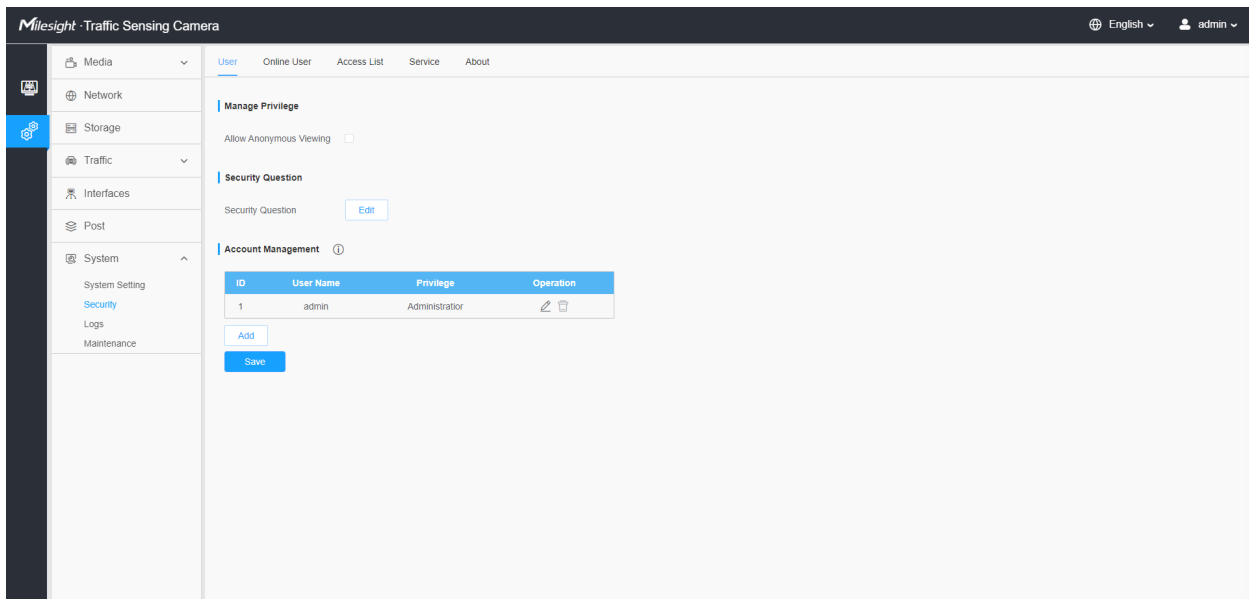
The screenshot shows the 'Date & Time' configuration page in the Mlesight Traffic Sensing Camera web interface. The page is divided into two main sections: 'Current System Time' and 'Set the System Time'. The 'Current System Time' section displays the current date as 18/01/2024 and the current time as 21:37:42. The 'Set the System Time' section allows for manual configuration, including a dropdown for Time Zone (set to '(UTC-08:00) United States - Pa'), a dropdown for Daylight Saving Time (set to 'Automatic'), and radio buttons for Synchronize Mode (GPS, NTP server, Manual, and Synchronize with computer time, which is selected). The Date and Time fields are set to 18/01/2024 and 21:37:44, respectively. A 'Save' button is located at the bottom of the configuration area.

**Table 49. Description of the buttons**

Parameters	Function Introduction
Current System Time	Current date&time of the system.
Set the System Time	<b>Time Zone:</b> Choose a time zone for your location.
	<b>Daylight Saving time:</b> Enable the daylight saving time.
	<b>Synchronize Mode:</b> GPS, NTP server, Manual and Synchronize with computer time are optional.
	<p><b>GPS:</b> Select the option to utilize GPS signals for accurately determining the current time.</p> <p><b>NTP server:</b> Input the address of NTP server.</p> <p><b>NTP Sync:</b> Regularly update your time according to the interval time.</p> <p><b>Manual:</b> Set the system time manually.</p> <p><b>Synchronize with computer time:</b> Synchronize the time with your computer.</p>
<div style="background-color: #007bff; color: white; padding: 5px; display: inline-block; border-radius: 3px;">Save</div>	Save the configuration.



## Security

### User



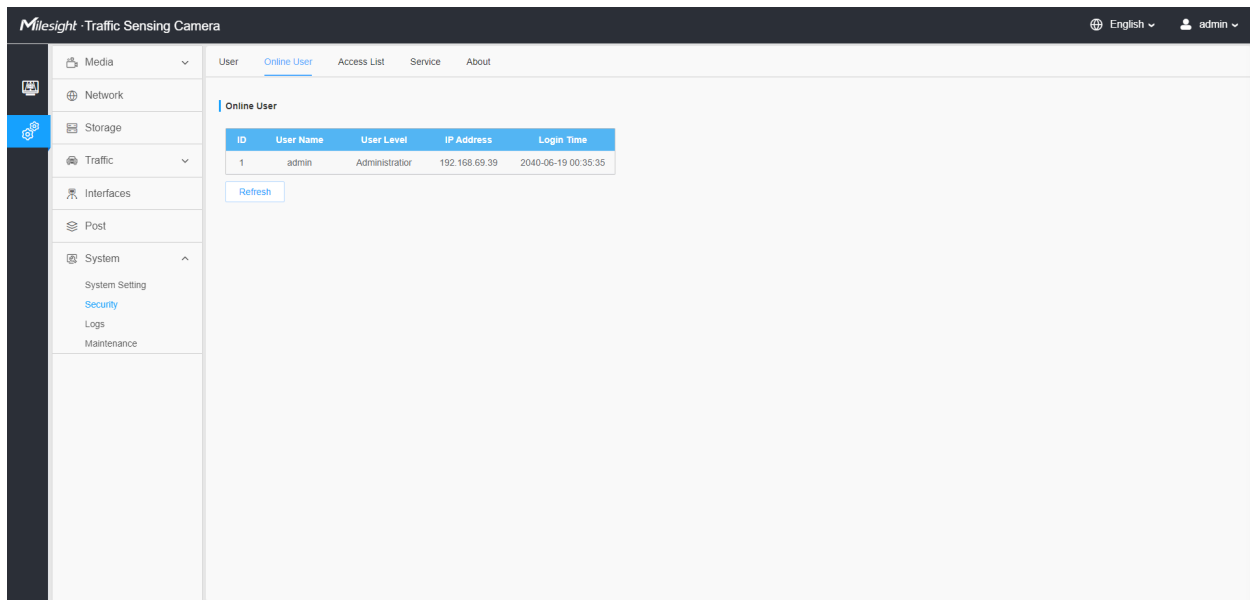
**Table 50. Description of the buttons**

Parameters	Function Introduction
<p><b>Manage Privilege</b></p>	<p><b>Allow anonymous viewing:</b> Check the checkbox to enable visit from whom doesn't have account of the device.</p>
<p><b>Security Question</b></p>	<p>Click "Edit" button to set three security questions for your camera. In case that you forget the password, you can click "Forget Password" button on login page to reset the password by answering three security questions correctly.</p> <div data-bbox="532 522 1330 1171" style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <div style="background-color: #007bff; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;"> <span>Security Question Settings</span> <span>×</span> </div> <div style="padding: 10px;"> <p>Admin Password* <input type="password"/></p> <p>Security Question1 <span>What's your father's name? ▾</span></p> <p>Answer1* <input type="text"/></p> <p>Security Question2 <span>What's your father's name? ▾</span></p> <p>Answer2* <input type="text"/></p> <p>Security Question3 <span>What's your father's name? ▾</span></p> <p>Answer3* <input type="text"/></p> <div style="display: flex; justify-content: center; gap: 20px; margin-top: 10px;"> <span style="background-color: #007bff; color: white; padding: 5px 15px; border-radius: 4px;">Save</span> <span style="border: 1px solid #007bff; padding: 5px 15px; border-radius: 4px; color: #007bff;">Cancel</span> </div> </div> </div> <p>There are twelve default questions below, you can also customize the security questions.</p> <div data-bbox="532 1278 1330 1732" style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <div style="border-bottom: 1px solid #ccc; padding-bottom: 5px;"> <span style="border: 1px solid #007bff; padding: 2px 5px; border-radius: 4px; display: inline-block;">What's your father's name? ▾</span> </div> <div style="display: flex; gap: 10px; padding-top: 5px;"> <div style="border-right: 1px solid #ccc; padding-right: 5px;"> <p style="background-color: #e9ecef; padding: 2px 5px; margin: 2px 0;"><b>What's your father's name?</b></p> <p style="padding: 2px 5px; margin: 2px 0;">What's your favorite sport?</p> <p style="padding: 2px 5px; margin: 2px 0;">What's your mother's name?</p> <p style="padding: 2px 5px; margin: 2px 0;">What's your mobile number?</p> <p style="padding: 2px 5px; margin: 2px 0;">What's your first pet's name?</p> <p style="padding: 2px 5px; margin: 2px 0;">What's your favorite book?</p> <p style="padding: 2px 5px; margin: 2px 0;">What's your favorite game?</p> </div> <div style="padding: 2px 5px; margin: 2px 0;"> <p style="padding: 2px 5px; margin: 2px 0;">What's your favorite food?</p> <p style="padding: 2px 5px; margin: 2px 0;">What's your lucky number?</p> <p style="padding: 2px 5px; margin: 2px 0;">What's your favorite color?</p> <p style="background-color: #e9ecef; padding: 2px 5px; margin: 2px 0;">What's your best friend's name?</p> <p style="padding: 2px 5px; margin: 2px 0;">Where did you go on your first trip?</p> <p style="padding: 2px 5px; margin: 2px 0;">Customized Question</p> </div> </div> </div>

Parameters	Function Introduction
<p style="text-align: center;"><b>Account Management</b></p>	<p>Click “<b>Add</b>” button, it will display Account Management page. You can add an account to the camera by entering Admin Password, User Level, User Name, New Password, Confirm, and edit user privilege by clicking . The added account will be displayed in the account list.</p> <p><b>Admin Password:</b> You can add an account only after you enter the correct admin password.</p> <p><b>User Level:</b> Set the privilege for the account.</p> <p><b>User Name:</b> Input user name for creating an account.</p> <p><b>New Password:</b> Input password for the account.</p> <p><b>Confirm:</b> Confirm the password.</p> <p>You can edit and delete the account in the account list under the admin account. For the default admin account, you can only change the password, and it cannot be deleted.</p> <p> <b>Note:</b></p> <ul style="list-style-type: none"> <li>• Support up to 20 users, including a default user and 19 custom added users.</li> <li>• The operator privilege is all checked by default.</li> </ul>

## Online User

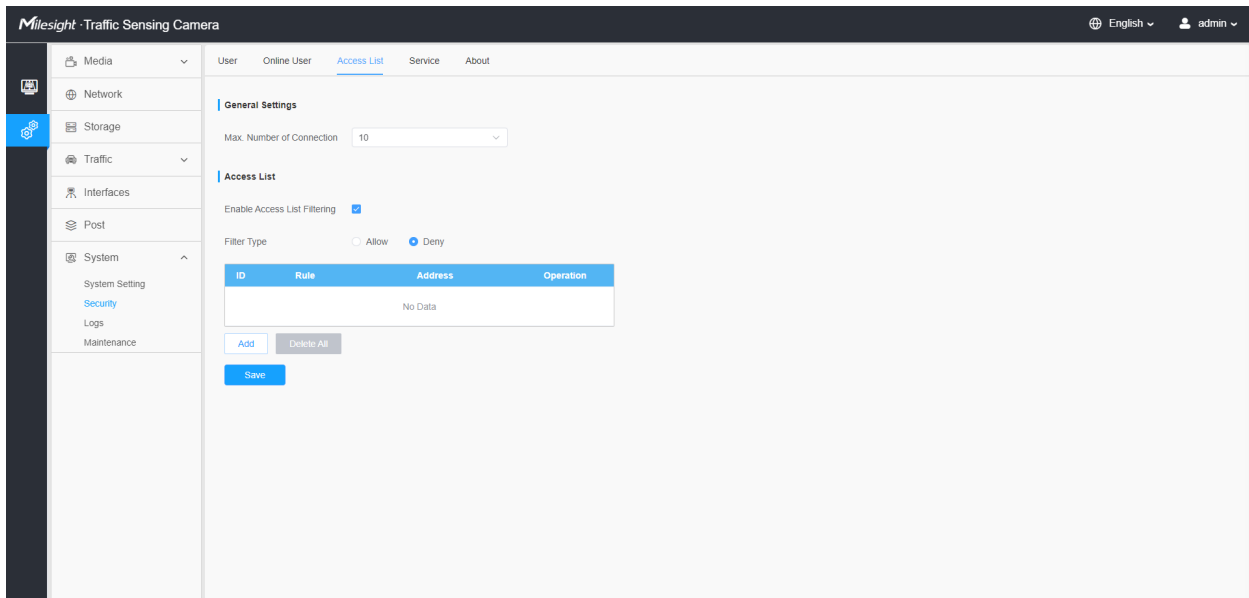
Here real-time status of user logging in camera will be shown.



**Table 51. Description of the buttons**

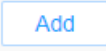
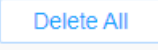


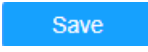
Parameters	Function Introduction
Refresh	Click to get latest status of user accessing to camera.
ID	Record serial number of user logging in camera. <b>Note:</b> <ul style="list-style-type: none"> <li>• There are at most 30 records shown at the list.</li> <li>• There is only one record if the same user logs in camera by the same IP address.</li> </ul>
User Name	Name of user logging in camera.
User Level	Level of user logging in camera.
IP Address	Device IP address where user logging in camera web located.
Login Time	Camera system time of user logging in camera.

## Access List

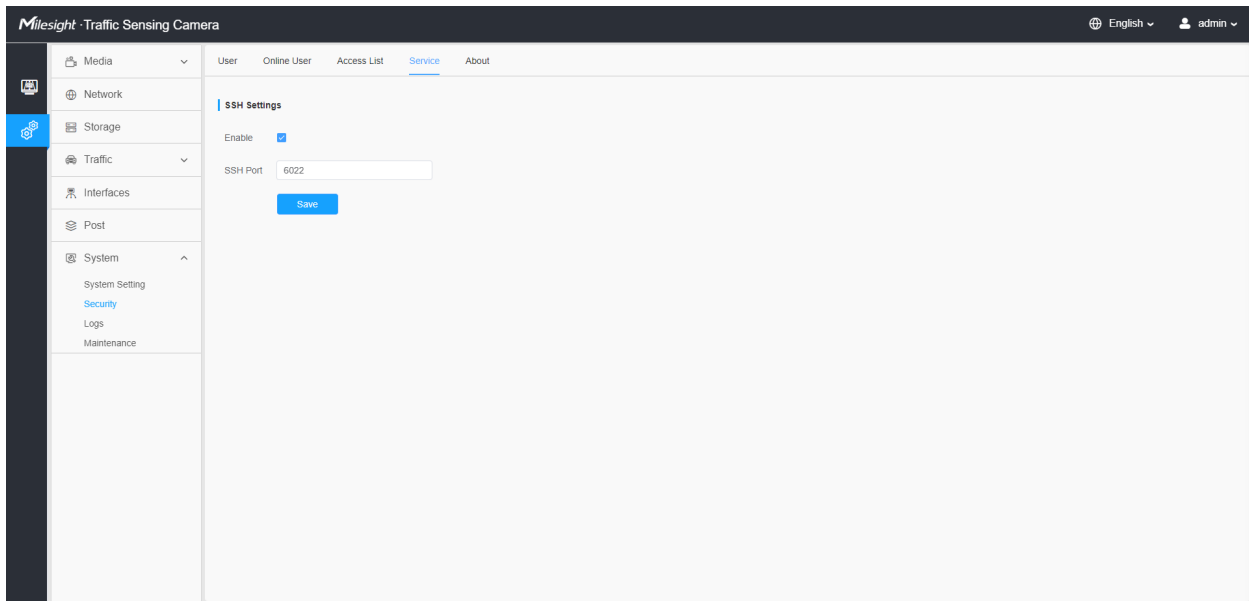


**Table 52. Description of the buttons**

Parameters	Function Introduction
General Settings	<b>Max. Number of Connection:</b> Select the maximum number of concurrent streaming. Options include No Limit, 1~10.
Access List	<b>Enable Access List Filtering:</b> Able to access or restrict access for some IP address.
Access List	<b>Filter type:</b> Allow or deny access.

Parameters	Function Introduction	
		<b>Rule:</b> Single, Network and Range are available. <b>IP address:</b> Input the address to get the access to the device.
		Delete all the access list.
		Edit the selected IP on access list.
		Delete the selected IP on access list.
	Save the configuration.	

## Service

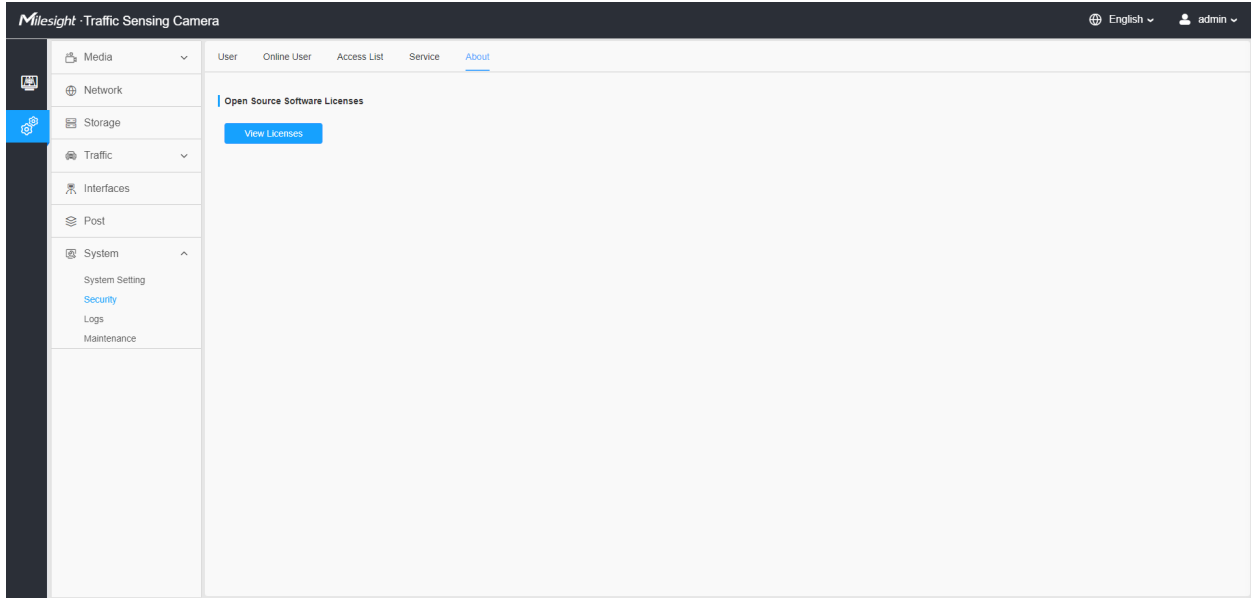


**Table 53. Description of the buttons**

Parameters	Function Introduction
<b>SSH Settings</b>	Secure Shell (SSH) has many functions: it can replace Telnet and also provides a secure channel for FTP, POP, even for PPP.

## About





User can view some open source software licenses about the camera by clicking the View Licenses button.

## Logs

The logs contain the information about the time and IP that has accessed the camera through web.

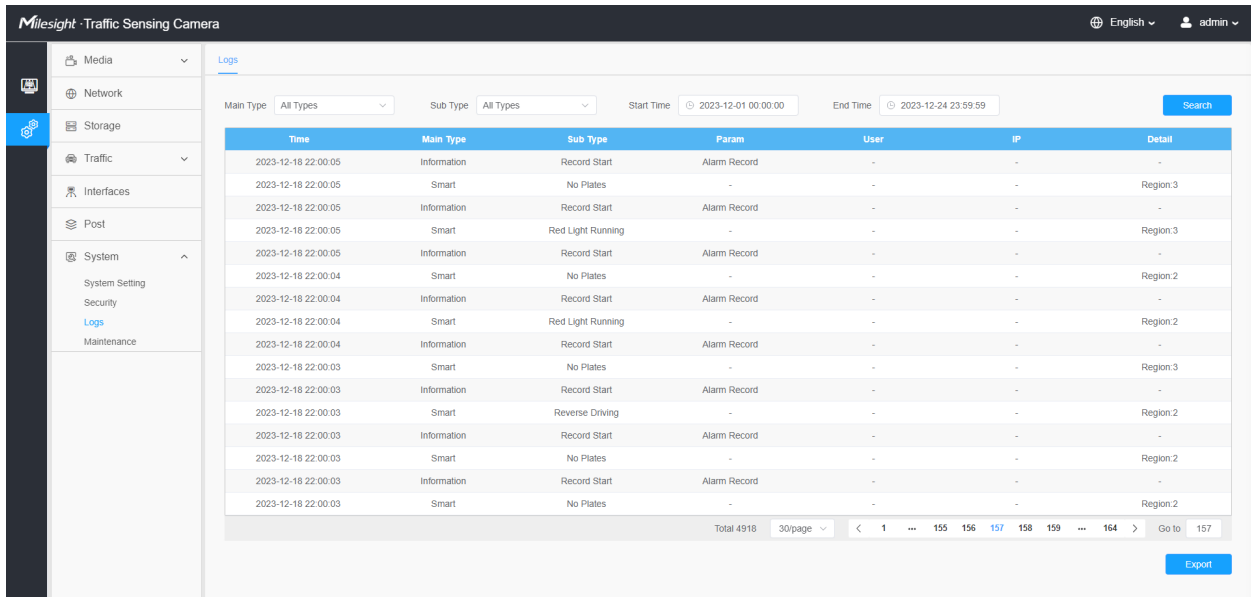
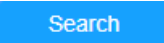



Table 54. Description of the buttons

Parameters	Function Introduction
Main Type	There are five main log types: <b>All Type</b> , <b>Event</b> , <b>Operation</b> , <b>Information</b> , <b>Exception</b> and <b>Smart</b> .
Sub Type	On the premise that main type has been selected, select the sub type to narrow the range of logs.
Start Time	The time log starts.
End Time	The time log ends.
	Search the logs.
	Export the logs.
Go to	Input the number of logs' page.

## Maintenance

### Maintenance

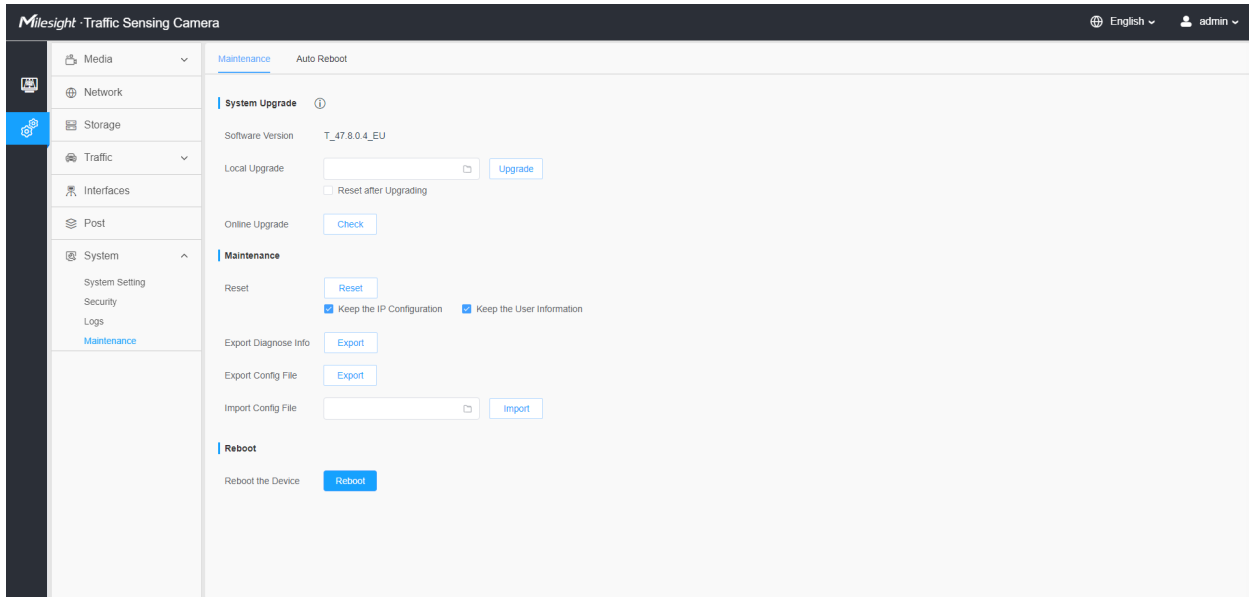
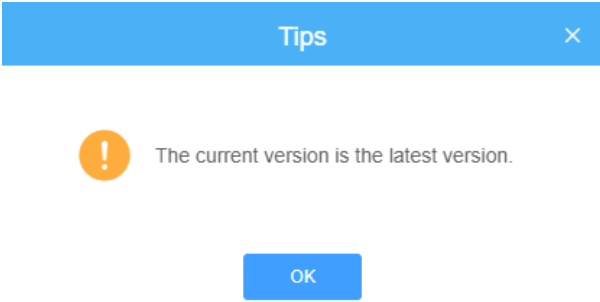



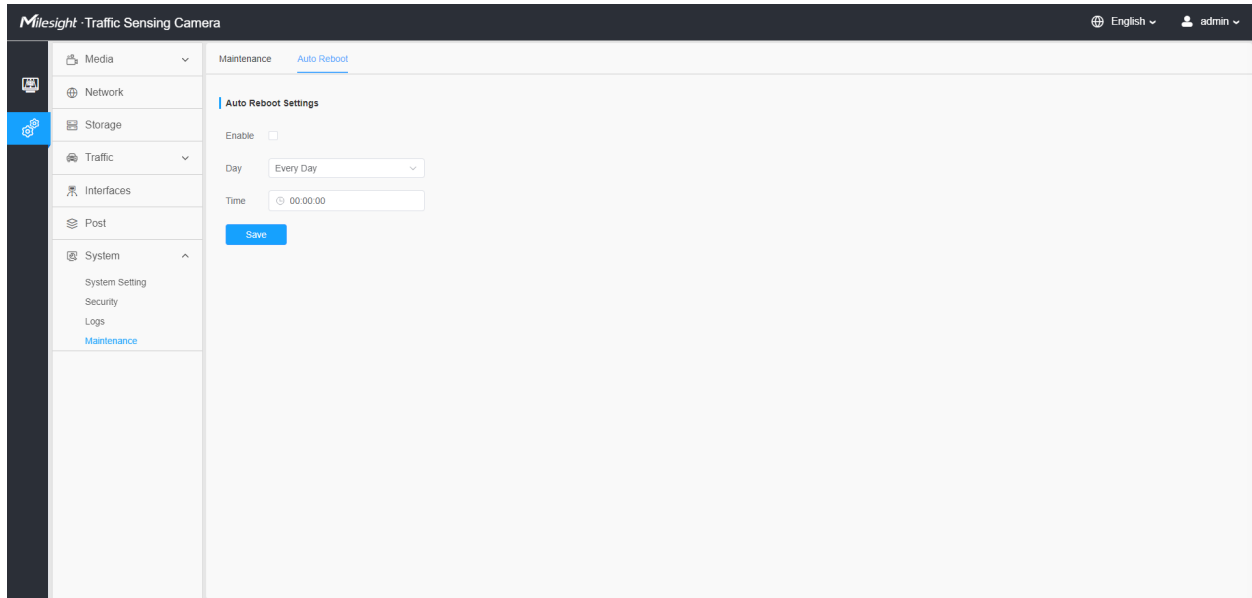


Table 55. Description of the buttons

Parameters	Function Introduction
System Upgrade	<p><b>Software Version:</b> The software version of the camera.</p> <p><b>Local Upgrade:</b> Click the "Browse" button and select the upgrading file, then click the "Upgrade" button to upgrade. After the system reboots successfully, the update is done.</p> <p>You can check "<b>Reset after Upgrading</b>" to reset the camera after upgrading it.</p> <p><b>Online Upgrade:</b> Click the "Check" button to check the current latest firmware version on our website, and then click "OK" to upgrade to this version.</p> <p>It will prompt "The current version is the latest version" if your camera is already the latest version.</p>  <p> <b>Note:</b> Do not disconnect the power of the device during the update. The device will be restarted to complete the upgrading.</p>

Parameters	Function Introduction
<p style="text-align: center;"><b>Maintenance</b></p>	<p><b>Reset:</b> Click "Reset" button to reset the camera to factory default settings.</p> <p><b>Keep the IP Configuration:</b> Check this option to keep the IP configuration when resetting the camera.</p> <p><b>Keep the User information:</b> Check this option to keep the user information when resetting the camera.</p> <p><b>Export Diagnose Info:</b> Click this button to export logs and system information of the device operation status.</p> <p> <b>Note:</b> The file format is ".txt".</p> <p><b>Export Config File:</b> Click this button and a window will pop up as shown below:</p> <div data-bbox="591 730 1390 1062" style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <div style="background-color: #0070c0; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;"> <span>File Encryption Configuration</span> <span>×</span> </div> <div style="padding: 10px;"> <p>Input the encryption password <input style="width: 100%;" type="text"/></p> <p>Confirm <input style="width: 100%;" type="text"/></p> <div style="display: flex; justify-content: center; gap: 20px; margin-top: 10px;"> <span style="background-color: #0070c0; color: white; padding: 5px 15px; border: none;">Save</span> <span style="border: 1px solid #0070c0; padding: 5px 15px; border-radius: 3px;">Cancel</span> </div> </div> </div> <p>You need to enter and confirm password again, then click save button to export configuration file.</p> <p><b>Import Config File:</b> Click this button, then a window will pop up and you can click "OK" to update the configuration.</p> <p>It will pop up a window to prompt "Input the password of config file" , then enter password and click save button to import configuration file.</p> <div data-bbox="591 1327 1390 1587" style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <div style="background-color: #0070c0; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;"> <span>File Encryption Configuration</span> <span>×</span> </div> <div style="padding: 10px;"> <p>Input the encryption password <input style="width: 100%;" type="text"/></p> <div style="display: flex; justify-content: center; gap: 20px; margin-top: 10px;"> <span style="background-color: #0070c0; color: white; padding: 5px 15px; border: none;">Save</span> <span style="border: 1px solid #0070c0; padding: 5px 15px; border-radius: 3px;">Cancel</span> </div> </div> </div> <p> <b>Note:</b> Export and import the same configuration file. Password must be the same.</p>

## Auto Reboot



Set the date and time to enable Auto Reboot function, the camera will reboot automatically according to the customized time in case that camera overload after running a long time.

# Chapter 9. Services

Milesight provides customers with timely and comprehensive technical support services. End-users can contact your local dealer to obtain technical support. Distributors and resellers can contact directly with Milesight for technical support.

Technical Support Mailbox: [support@milesight.com](mailto:support@milesight.com)

Web: <http://www.milesight.com>

Online Problem Submission System: <http://www.milesight.com/service/feedback.asp>

## **MILESIGHT CHINA**

TEL: +86-592-5922772

Add: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China