



User Guide

4G Camera Web Interface

This guide uses the InSight S345-4G web page for demonstration.
Features and pictures may differ from your actual product.

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About This Guide

This User Guide provides information for using and managing VIGI cameras via a web browser. It explains functions of VIGI cameras and shows you how to configure them.

Conventions

When using this guide, notice that:

- Features available in VIGI cameras may vary due to your region, device model, and firmware version. All images, steps, and descriptions in this guide are for demonstration purposes only and may not reflect your actual experience.
- The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute the warranty of any kind, express or implied. Users must take full responsibility for their application of any products.
- This guide uses the specific formats to highlight special messages. The following table lists the conventions that are used throughout this guide.

<u>Underlined</u>	Indicates hyperlinks. You can click to redirect to a website or a specific section.
Teal	Indicates contents to be emphasized and texts on the web page, including the menus, tabs, buttons and so on.
>	The menu structures to show the path to load the corresponding page.
 Caution	Reminds you to be cautious, and ignoring this type of note might result in device damage or data loss.
Note	Indicates information that helps you make better use of your device.

More Information

- For technical support, the latest version of the User Guide and other information, please visit <https://www.vigi.com/us/support>.
- The Quick Installation Guide can be found where you find this guide or inside the package of the product.
- To ask questions, find answers, and communicate with TP-Link users or engineers, please visit <https://community.tp-link.com> to join TP-Link Community.



Login

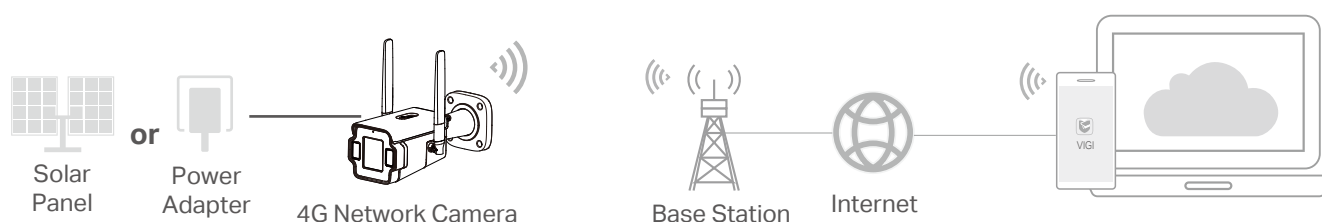
This chapter guides you on how to log in to the web UI of the VIGI camera:

- [Connect the Camera to Network](#)
- [Log in to the Web Interface](#)

After the cameras are added to network, multiple methods are provided for you to monitor and manage cameras. You can manage and monitor the cameras via the TP-Link VIGI app remotely, or via a web browser with an Ethernet cable connection. Check the support page of the product for more manuals at <https://support.vigi.com/>.

♥ 1.1 Connect the Camera to Network

1. Refer to the Quick Start Guide within the package of your product for mounting and installation.
2. Power on your camera.
3. Prepare a Nano-SIM card, activate it, and insert it into the slot of the camera.
4. Connect your camera to a network. You may follow the typical typology below.



5. You can easily add and manage it via the TP-Link VIGI app. Download and install the app, log in with your TP-Link ID, and follow the app instructions.



As this guide is based on the web interface, make sure that your camera is connected to the network via an Ethernet cable.

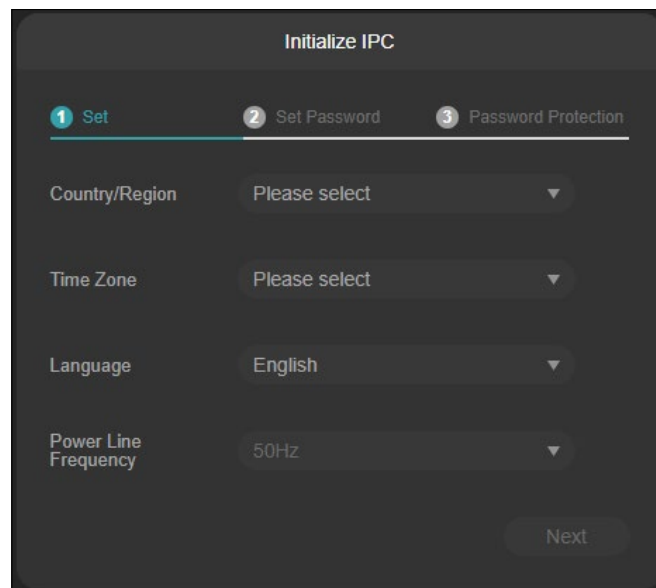
Note: You can also access and manage your camera via an NVR. This also requires an Ethernet cable connection. Follow the manual of the NVR product for details.

♥ 1.2 Log in to the Web Interface

With an intuitive user interface, it is easy to configure and manage the camera via a web browser. Follow the steps below to log in to the web UI of the camera for the first time.

1. Find the camera's IP address on your router's client page.
2. On your local computer, open a web browser and enter `https://camera's IP address` (`https://192.168.0.60` by default).

3. Select your **Country/Region** and **Time Zone**.



Initialize IPC

1 Set 2 Set Password 3 Password Protection

Country/Region Please select ▼

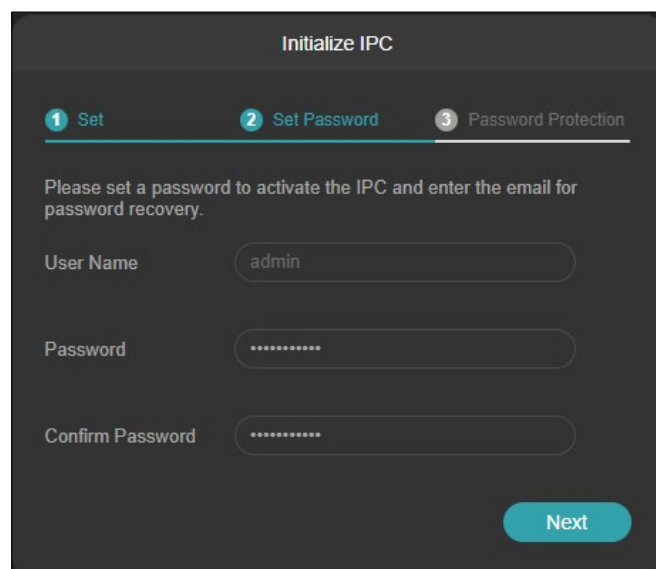
Time Zone Please select ▼

Language English ▼

Power Line Frequency 50Hz ▼

Next

4. Set a password to activate the camera. Click **Next**.



Initialize IPC

1 Set 2 Set Password 3 Password Protection

Please set a password to activate the IPC and enter the email for password recovery.

User Name admin

Password

Confirm Password

Next

Now, you can log in to the camera using the password set here.

5. Set Password Protection. If you forget password, you can reset it with your security questions or recovery email.

Select your security questions and input your answer.

Enter your email address to receive the verification code during the recovery operation process.

Initialize IPC

1 Set 2 Set Password 3 Password Protection

Security Question

Security Question 1 Your father's name ▼

Answer

Security Question 2 Your mother's name ▼

Answer

Security Question 3 Your head teacher's name in s... ▼

Answer

Recovery Email

Recovery Email

Skip Next

Note:

1. For future logins, use the default username **admin** and the password you set for this camera.
2. If you forgot the password, click **Forgot password?** and follow the web instructions to reset the password.



Live View

You can monitor the camera in real time and respond to abnormal conditions with quick operations, such as zooming in the image and capturing screenshots.

This chapter introduces the live view parameters and function icons.

1. Find the camera’s IP address on your gateway’s client page.
2. On your local computer, open a web browser and enter https://camera’s IP address (https://192.168.0.60 by default).
3. Log in with the default username **admin** and the password you set for this camera.
4. You can view the live video on the Preview page.

Note: This is for demonstration only.



Select the aspect ratio.



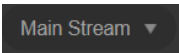
1x refers to the original window size.

4:3 refers to 4:3 window size.

16:9 refers to 16:9 window size.

100% refers to self-adaptive window size.

Click to change the stream type.



Main Stream stands for the best stream performance the device supports. It usually offers the best resolution and frame rate the device can do. But high resolution and frame rate usually means larger storage space and higher bandwidth requirements in transmission.

Substream usually offers comparatively low resolution options, which consumes less bandwidth



Screenshot: Click to capture a screenshot.



Digital Zoom: Click to see more details of any area in the image.



Alarm: Click to trigger the sound alarm and lasts about 10 seconds.



Volume: Click to adjust the volume of the speaker.



Full Screen: Click to change the live view image to the entire screen.

3

View Device Information

This chapter introduces how to check the system logs and view your device information on the web UI. This chapter contains the following sections:

- [View System Logs](#)
- [View Device Information](#)

♥ 3.1 View System Logs

The camera uses logs to record, classify, and manage system and device messages. You can search, view, and export the logs.

1. Go to **Settings > Information > System Log > System Log**.
2. Specify search conditions, including the Start Time, End Time, and Log Type, and click **Search**. The filtered logs that match the search conditions will appear in the table.

System Log

Start Time

2024-11-18

14 : 29 : 18

End Time

2024-11-25

14 : 29 : 18

Log Type

All

Search

Current Log Type: All

No.	Recording Time	Event
1	2024-11-25 14:29:16	[INFO][NSD][CLOUDCOM]TCP req, ...
2	2024-11-25 14:29:10	[ERR][NSD][CLOUDCOM]server(0):-901...
3	2024-11-25 14:29:05	[INFO][NSD][CLOUDCOM]TCP req, ...
4	2024-11-25 14:28:59	[ERR][NSD][CLOUDCOM]server(0):-901...
5	2024-11-25 14:28:54	[INFO][NSD][CLOUDCOM]TCP req, ...
6	2024-11-25 14:28:48	[ERR][NSD][CLOUDCOM]server(0):-901...
7	2024-11-25 14:28:43	[INFO][NSD][CLOUDCOM]TCP req, ...
8	2024-11-25 14:28:37	[ERR][NSD][CLOUDCOM]server(0):-901...

Clear Logs

Export Logs

Total: 755 << < 1/95 >> >> Page 1 Go

Start/End Time

Specify a time range to filter the logs based on the recording time.

Log Type

Select a type from the drop-down list to filter the logs.

All: All types of logs.

Alarm: Alarms triggered by events, such as tampering, line crossing, and area intrusion.

Exception: Abnormal events that may influence the camera’s functions, such as video signal loss and hard drive errors.

Operation: Actions that take place on the camera, such as login and upgrade.

Information: Informational messages, such as device information.

Clear Logs

Click to delete all logs.

Export Logs

Click to save log files to your computer.

♥ 3.2 View Device Information

You can view basic information about the camera, including device model, firmware version, network information, stream information, and device QR code.

Go to **Settings > Information > Device Information > Device Information**.

Device Information

Device Information

Current System Time

2024-12-08 21:40:08

Device Model

InSight S345-4G

Device Name

InSight S345-4G 1.0_A466

Firmware Version

1.0.0 Build 241031 Rel.56222n

Network Information

IP

192.168.0.60

MAC

Stream Information

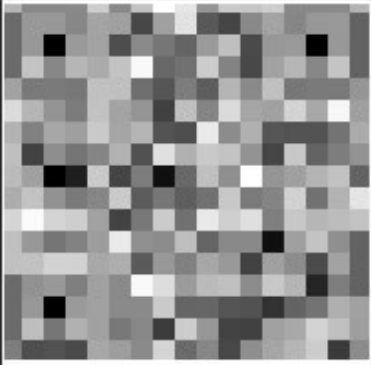
Resolution

2688*1520

Frame Rate

25

Device QR Code



4

Change Camera Settings

This chapter introduces how to change the camera display settings and camera streams settings. It contains the following sections:

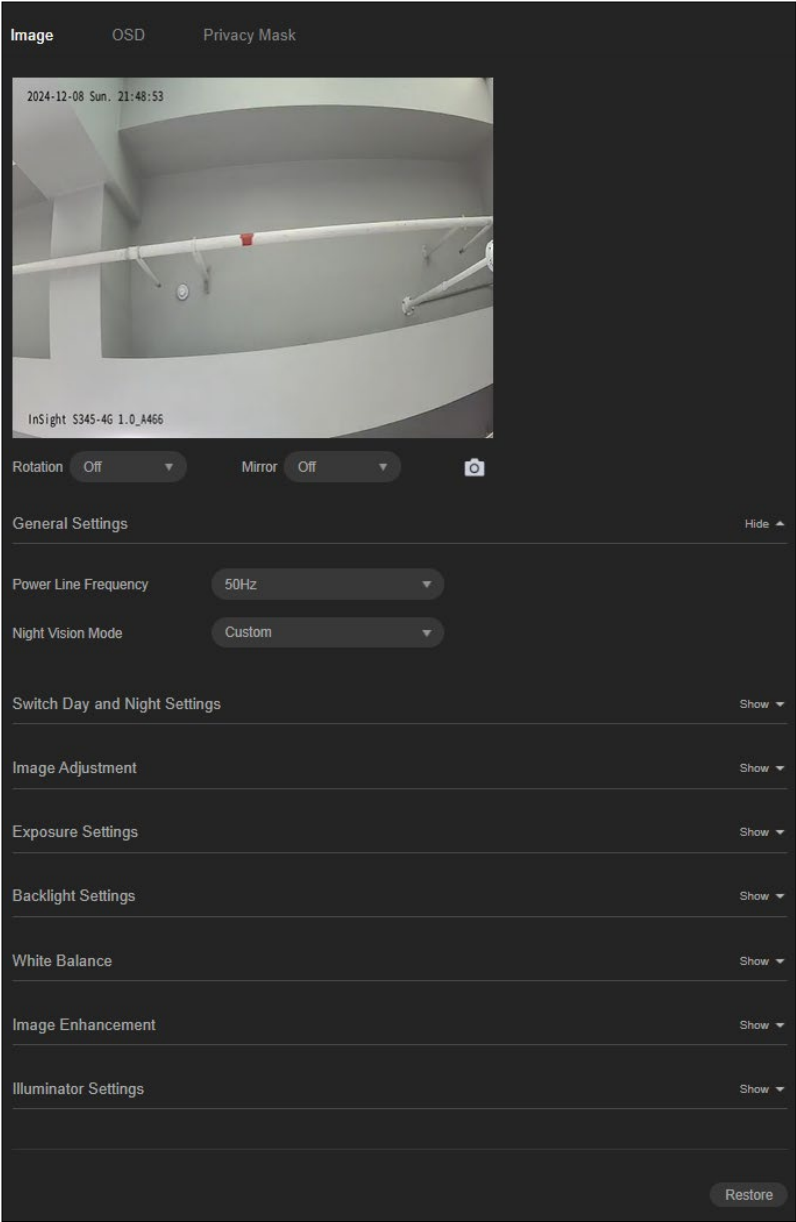
- [Camera Display Settings](#)
- [Camera Stream Settings](#)

♥ 4. 1 Camera Display Settings

You can adjust image features according to your needs.

4. 1. 1 Image Settings

- 1. Go to **Settings > Camera > Display > Image**.
- 2. Configure the following parameters.



Rotation	Choose to turn the live view image by 0, 90 or 270 degrees on your display. When you select Off , the image displays normally.
----------	--

Mirror

Select the mirror mode as needed.

When you select **Off**, the image displays normally.

By choosing **Left-Right**, you mirror the image on the vertical axis.

By choosing **Up-Down**, you flip the image on the horizontal axis.

By choosing **Central**, you rotate the image by 180 degrees around its center.

General Settings

Power Line Frequency

Set the Power line frequency consistent with local utility settings to eliminate image flickering associated with fluorescent lights.

Night Vision Mode

Human/Vehicle Triggered Full-Color: The camera switches to the full-color mode once it detects a person or vehicle.

Auto Color: The camera turns on or off the white supplement light according to the light condition of the environment.

Auto IR: The camera turns on or off the IR supplement light according to the light condition of the environment.

White LED Always On: White supplement light is on.

IR Always On: IR supplement light is on.

Off: Supplement light is off.

Custom: Select it to configure **Day/Night Switch** and **Illuminator**.

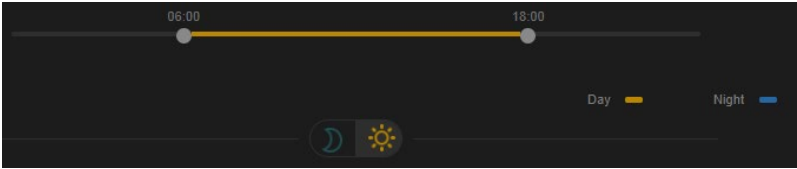
Switch Day and Night Settings

Day/Night Switch

Select a method to switch the image settings of day and night.

Unified: The camera applies the same image settings throughout a day.

Scheduled: The camera switches the image mode of day and night at your specified time. If you select this method, adjust the slide bar to specify the switch time.



Auto: The camera switches the image mode of day and night automatically according to the light condition of the environment.

Image Adjustment	
Brightness	Increasing the value will lighten the image.
Contrast	Increasing the value will increase the difference between the brighter and darker parts.
Saturation	Increasing the value will enrich the color of the image.
Sharpness	Increasing the value will sharpen the image.
Exposure Settings	
Exposure	Select the exposure mode as needed. Auto: The camera adjusts the exposure automatically. Manual: The image exposure is fixed. If you select Manual, adjust the slide bar of Gain to specify its value, and select a shutter speed. Higher gain and slower shutter speed result in brighter images.
Anti-flicker	This function minimizes influences caused by flickering.
Backlight Settings	
BLC Area	BLC (Backlight Compensation) optimises the camera to increase light exposure for darkened areas and helps you to see details more clearly. Select an area to compensate light. If you select Custom, draw a blue rectangle on the live view image as the BLC area.
WDR	WDR (Wide Dynamic Range) can improve the image quality under high-contrast lighting conditions where both dimly and brightly lit areas are present in the field of view. If you select On, the camera balances the light of the brightest and darkest areas automatically. You may set the gain value, or the sensor's sensitivity, manually.
HLC	HLC (Highlight compensation) can compensate for brighter parts of your image, maintaining detail in brighter parts of the image that would otherwise be blown out.
White Balance	

White Balance	White balance is a process of removing unrealistic color casts, so that objects which appear white in person are rendered white in the image. Auto: The camera adjusts the color temperature automatically. Locked: The camera keeps the current color settings all the time. Daylight/Natural Light/Incandescent/Warm Light: The camera adjusts the color temperature to remove the color casts caused by the corresponding light. Custom: Drag the slide bar to configure the color temperature, and the camera keeps the settings all the time. You may specify the red/blue gain values separately. The higher the value is, the more intense the red/blue color is.
Image Enhancement	
Prevent overexposure to infrared light	Select the standard mode or enhanced mode or manually adjust the brightness of image. Standard Mode: In this mode, the brightness of the infrared light will be automatically adjusted to prevent overexposure. The brighter the environment, the dimmer the infrared supplement light. Enhanced Mode: This mode intensifies its protection against overexposure, by darkening the bright areas of the image. Manual: Manually adjust the brightness of image. The higher the value is, the dimmer the image gets.
Illuminator Settings	
Illuminator	Select a mode to decide the usage of white supplement light. The available options vary due to the mode set in Night Vision Mode and Day/Night Switch. Auto: The camera turns on the white light once it detects the environment gets dark, and keeps the light off in a sufficiently lit environment. You can customize the values in Sensitivity and Delayed Switch. Scheduled: Specify the time to turn on and off the white light. Always On/Off: The white light is on/off all the time.
Sensitivity	Decide the ambient light intensity that can trigger the switch of the white light. The lower the value is, the easier it is to trigger the white light.
Delayed Switch	Decide how long the camera waits to turn on or off the white light when the ambient light reaches the threshold to trigger the switch..

Lighting Mode	Infrared Lighting: The infrared supplement light is on all the time. Human/Vehicle Trigger Full-Color: The camera turns on the full-color mode once it detects a person or vehicle. White Light Illumination: The white supplement light is on all the time. With this selected, you may customize White Light Intensity parameters.
White Light Intensity	Smart White Light-Standard: The camera illuminate a white light when detecting a target. Smart White Light-Soft: The camera illuminates a warmer white light when detecting a target. Manual: Drag the slide bar to manually adjust the intensity of the white light. The light gets brighter when the value increases.
Always Color at Live View	The camera will automatically turn on Full-Color Night Vision when you stream Live Video.
Restore	Click to restore to factory default settings.

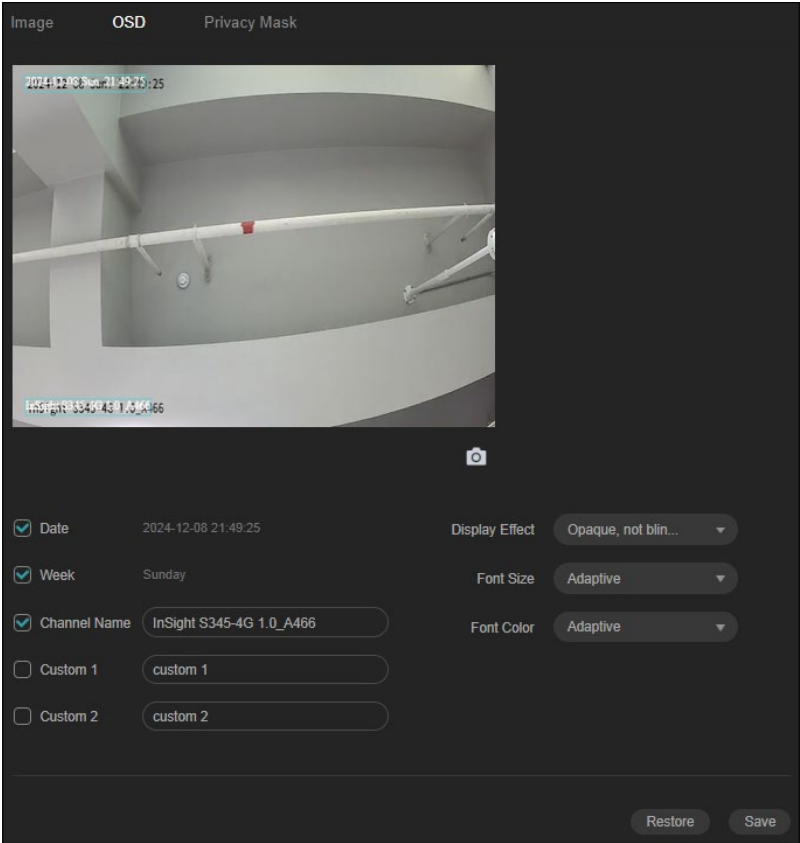
4. 1. 2 OSD Settings

You can configure OSD (On Screen Display) to edit the information displayed in Live View and recordings.

Follow the steps below to configure OSD settings.

1. Go to **Settings > Camera > Display > OSD**.

2. Configure the following parameters, and click **Save** to save your settings.



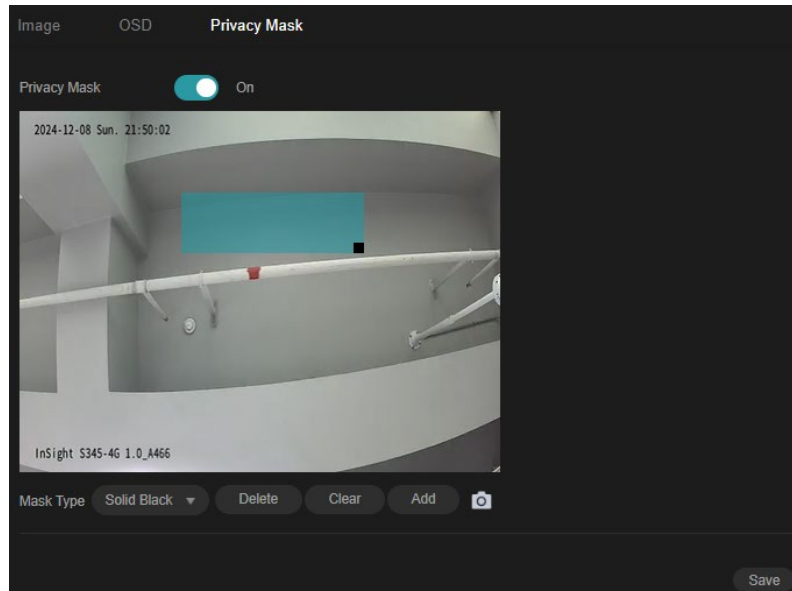
Date	Check to display the date on the image.
Week	Check to display the week on the image.
Channel Name	Check to display the channel name on the image. You can also check Custom and specify a text to display.
Display Effect	Set the display effect of the image.
Font Size	Set the font size.
Font Color	Set the font color.
Restore	Click to restore to factory default settings.

4. 1. 3 Privacy Mask

Privacy Mask conceals parts of the image from view and protects your privacy. The area you set cannot be recorded and monitored.

Follow the steps below to configure Privacy Mask.

1. Go to **Settings > Camera > Display > Privacy Mask**.
2. Enable **Privacy Mask**. Draw the privacy area on the preview screen (the blue square in the picture below). Drag the area to adjust its size and location. For Mask Type, you may choose **Solid Black** or **Mosaic**, which determines the display effect of the area.



3. To remove a certain privacy area, select it and click **Delete**.
4. To remove all privacy areas, click **Clear**.
5. Click **Add** to automatically add an area on the center of the screen.
6. Click **Save**.

♥ 4.2 Camera Stream Settings

In Stream Settings, you can configure video stream levels, change the audio output settings and ROI (Region of interest) level.

Video stream levels decide the video quality in Live View and recording, and you can adjust the video quality of certain area by specifying the ROI level.

4.2.1 Video Settings

Follow the steps below to configure video settings.

1. Go to **Settings > Camera > Stream > Video**.

2. Configure the following parameters, and click **Save**.

Video

Audio

ROI

Advance Settings

Stream Type

Main Stream

▼

Video Encoding

H264+

▼

Resolution

2688*1520

▼

Video Frame Rate

25

▼

Bit Rate Type

VBR

▼

Image Quality

Low

medium

High

Max Bit Rate

6144

▼

kbps

☐ Adaptive Mode

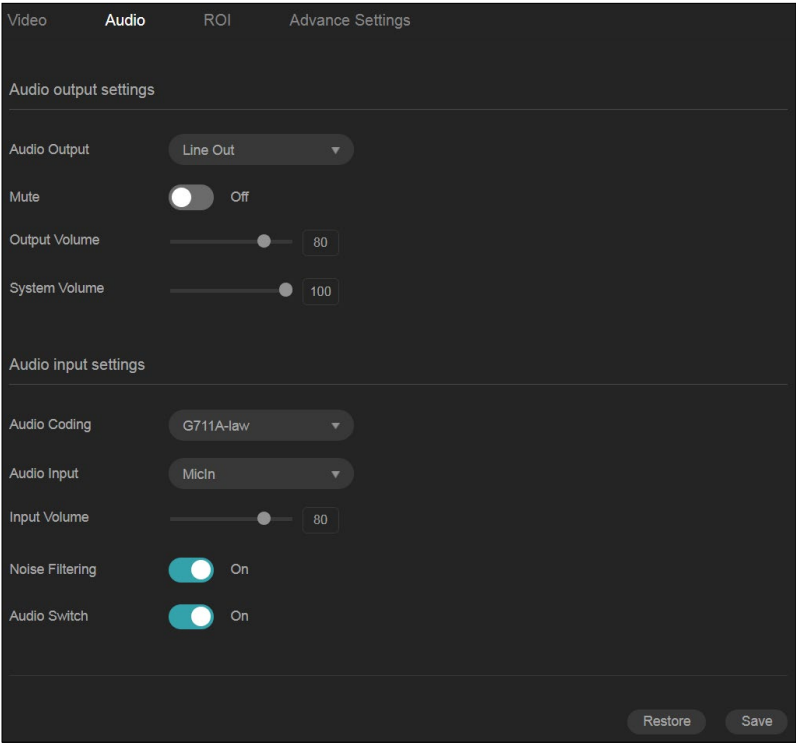
Stream Type	Main Stream is the primary video feed used for recording and provides the highest video quality. It has higher definition and higher bandwidth than substream.
	Substream is a secondary video feed that is used mainly for remote viewing from computers from outside the network.
Video Encoding	Select the encoding type of the stream. H.265 reduces the file size and saves the bandwidth better than H.264.
Resolution	The screen displays images more clearly when the resolution increases.
Video Frame Rate	The video is more fluent when the rate increases.
Bite Rate Type	VBR: The bit rate changes with the image within Maximum Bit Rate.
	CBR: The bit rate is Maximum Bit Rate all the time.
Image Quality	When VBR selected as the bit rate type, set the video quality as high, medium, or low.

Max Bit Rate	When VBR selected as the bit rate type, specify the upper limit of bit rate. When CBR selected as the bit rate type, specify the bit rate.
Restore	Click to restore to factory default settings.

4. 2. 2 **Audio Settings (Only for some models)**

Follow the steps below to configure video settings.

- 1. Go to **Settings > Camera > Stream > Audio**.
- 2. Configure the following parameters, and click **Save**.



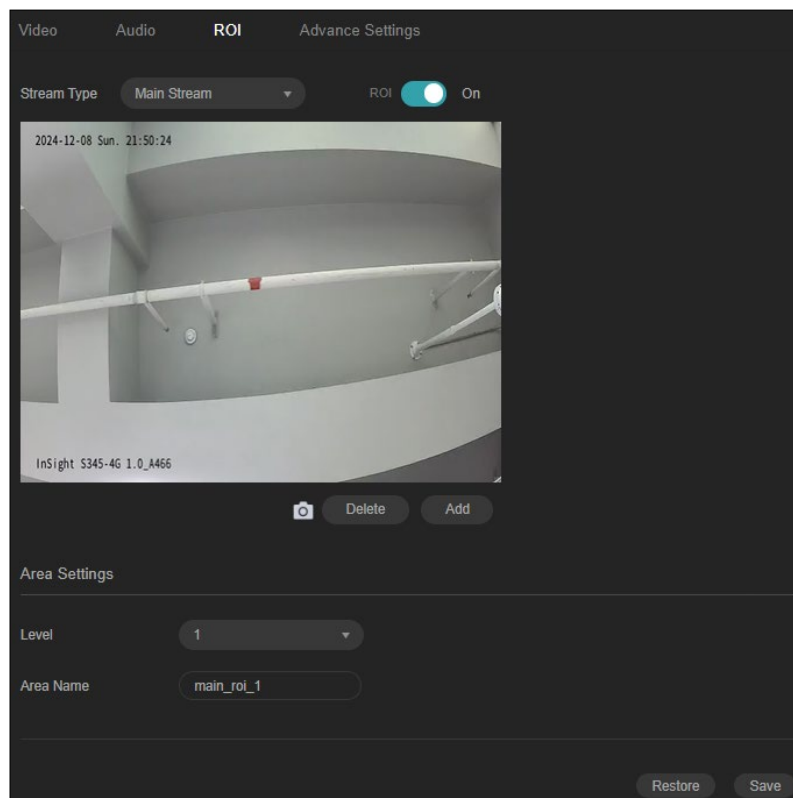
Audio Output	Select an audio device.
Mute	Toggle to mute the speaker of the camera.
Output Volume	Adjust the volume of the speaker.
System Volume	Adjust the volume of the sound alarm.
Audio Coding	Select the encoding type of the audio.
Audio Input	Select audio input device.
Input Volume	Adjust the volume of the input device.

Noise Filtering	Enable noise filtering to remove the noise from the video.
Audio Switch	Turn on the microphone.
Restore	Click to restore to factory default settings.

4.2.3 ROI

ROI (region of interest) concentrates on delivering high quality video from interested region. In ROI, you can configure the interest level of a specified area in each channel. The level 1–6 is ranked from low to high. The higher the ROI level, the better image quality.

1. Go to **Settings > Camera > Stream > ROI**.
2. Select the stream type and enable ROI. Draw an area on the preview screen (the blue square in the picture below). Drag to adjust its size and location.
3. Specify the ROI level and click **Save**.



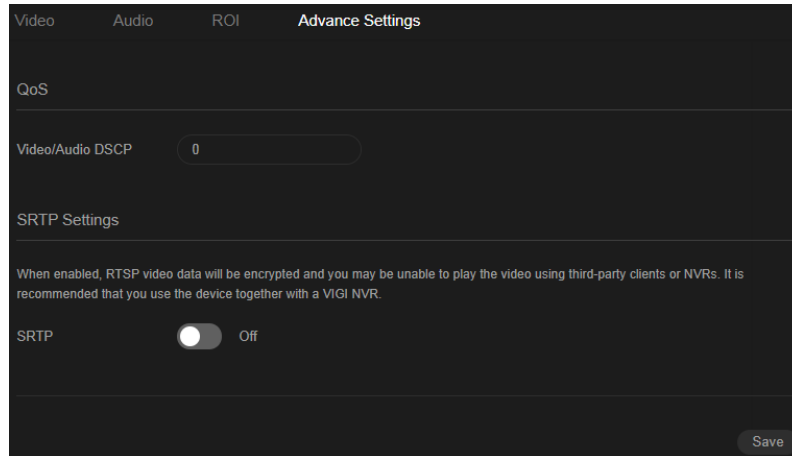
4.2.4 Advanced Settings

In Advanced Settings, you can set QoS and SRTP.

QoS (Quality of Service) can help improve the network delay and network congestion by setting the priority of data sending.

SRTP (Secure Real-time Transport Protocol) is a Real-time Transport Protocol (RTP) internet protocol, intended to provide encryption, message authentication and integrity, and replay attack protection to the RTP data in both unicast and multicast applications.

1. Go to **Settings > Camera > Stream > Advanced Settings**.



2. Set Video/Audio DSCP.

Network can identify the priority of data transmission. The bigger the DSCP value is, the higher the priority is.

3. Enable SRTP if needed. When enabled, RTSP video data will be encrypted and you may be unable to play the video using third-party clients or NVRs. It is recommended that you use the device together with a VIGI NVR.
4. Click **Save**.

5

Events

This chapter guides you on how to configure the event settings and alarm actions when your cameras detect different types of events. VIGI camera monitors your pre-defined areas and you'll be automatically alerted to any suspicious activity in your home and office. This chapter includes the following sections:

- [Arming Schedule and Linkage Method](#)
- [Motion Detection](#)
- [Camera Tampering](#)
- [Scene Change Detection](#)
- [Line Crossing Detection](#)
- [Intrusion Detection](#)
- [Region Entering Detection](#)
- [Region Exiting Detection](#)
- [Loitering Detection](#)
- [Object Abandoned/Removal Detection](#)
- [Abnormal Sound Detection](#)
- [Vehicle Detection](#)
- [Human Detection](#)
- [Exception Event](#)
- [Smart Frame](#)
- [Light Alarm](#)
- [Sound Alarm](#)
- [Alarm Server](#)

♥ 5.1 Arming Schedule and Linkage Method

Arming schedule is a customized time period in which the device performs certain tasks. Linkage is the response to the detected certain incident or target during the scheduled time. This configuration is optional.

1. Go to **Settings > Event**, and locate Arming Schedule and Linkage Method in the related event interface.

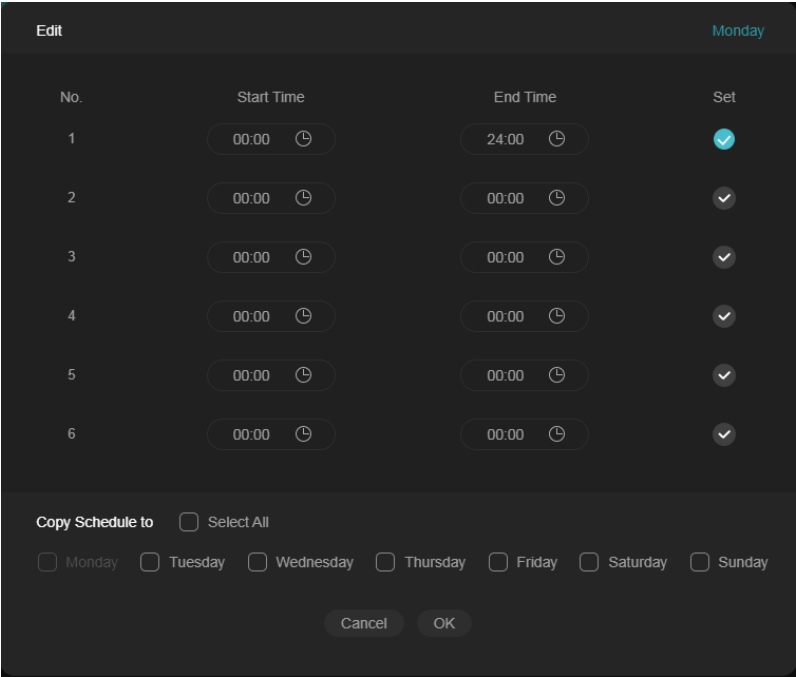


2. Drag the time bar to draw desired valid time.

Note:

- Each cell represents one hour.
- The default setting is 24/7.
- Up to six time periods can be configured for a day.

3. Move your mouse to the right of a day's blocks and an edit button will appear. Click  and enter the pop-up window to finetune the Start Time and End Time (with an accuracy of a minute) and check Set. You may copy a schedule for a day to any other days. Click **OK** when you are done.



4. Set linkage methods as needed.

Linkage Method		Hide ▲
☒ Record	The device will start recording when an event is detected.	
☐ Upload Capture to FTP	The device will upload capture picture or video to FTP server when an event is detected.	
☐ Alarm Output	The external device will trigger the alarm when an event is detected.	
☒ Push notifications	The device will send a message to the TP-Link VIGI app when an event is detected.	
☐ Active Defence - Sound Alarm	The alarm on the camera will be triggered when an event is detected.	
☐ Active Defence - Light Alarm	The light on the camera will flash when an event is detected.	
☐ Email Alarm	When an event is triggered, the camera will send an alarm email to the user-defined mailbox.	

♥ 5.2 Motion Detection

Motion detection allows cameras to detect the moving objects in the monitored area and triggers alarm actions. You can customize the motion detection settings, set the alarm schedule, and select the triggered actions. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Basic Event > Motion Detection**. Click the toggle to turn on **Motion Detection**.

Motion Detection
Camera Tampering
Scene Change Detection

Motion Detection
☒ On

2024-12-08 Sun 23:53:00

InSight 5345-46 1.0.0.0.4466

Delete Clear Full Screen Add

Area Settings

Sensitivity 50

Object Width Filter
Min. % events triggered by narrower object will be filtered.
Max. % events triggered by wider object will be filtered.

Object Height Filter
Min. % events triggered by shorter object will be filtered.
Max. % events triggered by higher object will be filtered.

Object Classification: Human/Vehicle
☒ Human Detection ☒ Vehicle Detection
An event will be triggered only when a specific object enters the area.

Object Classification Confidence

2. Draw quadrilaterals for motion detection on the preview screen. The whole screen is selected by default. You may drag the corners to change the shape of the area and drag the whole area to move

it. You may delete an selected area, clear all areas, expand the selected areas to the full screen, or add another area. Then configure the motion detection settings.

Note: You may customize up to four areas.

3. In Area Settings section, you may modify the following parameters:

Area Settings

Sensitivity

50

Object Width Filter

Min.

0

 %,events triggered by narrower object will be filtered.

Max.

100

 %,events triggered by wider object will be filtered.

Object Height Filter

Min.

0

 %,events triggered by shorter object will be filtered.

Max.

100

 %,events triggered by higher object will be filtered.

Object Classification:
Human/Vehicle

☒ Human Detection

☒ Vehicle Detection

An event will be triggered only when a specific object enters the area.

Object Classification
Confidence

Medium

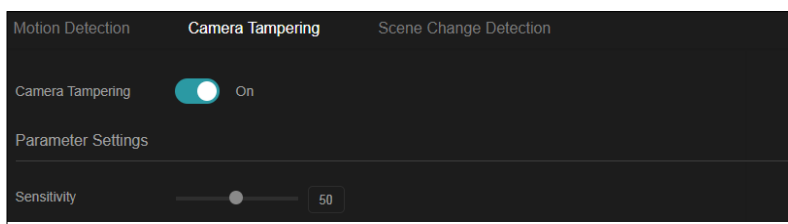
Sensitivity	Adjust the value of sensitivity. The higher the value is, the easier it is to trigger an alarm.
Object Width Filter	Set the minimum and maximum object width to filter the corresponding events.
Object Height Filter	Set the minimum and maximum object height to filter the corresponding events.
Object Classification: Human/Vehicle	Choose whether you want to detect humans only, vehicles only, or both. The function is available only for cameras which support human detection and vehicle detection.
Object Classification Confidence	Select the detection type from High, Medium, and Low. The function is available only for the cameras which support human detection and vehicle detection.

4. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
5. Click **Save**.

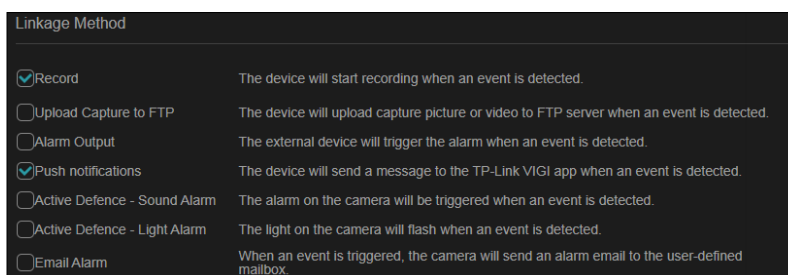
♥ 5.3 Camera Tampering

Camera tampering triggers alarm actions when an area of camera’s lens is purposely blocked, obstructed or vandalized. You can customize the video tampering settings, select the triggered actions and set the alarm schedule for cameras. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Basic Event > Camera Tampering**.



2. Enable **Camera Tampering**.
3. Set the sensitivity of video tampering. A higher value can trigger the alarm actions more easily.
4. Set the Linkage Method. Note that the options vary by model.

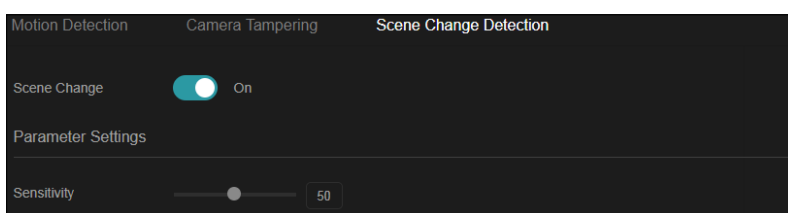


5. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
6. Click **Save**.

♥ 5.4 Scene Change Detection

Scene change detection function detects the change of video security environment affected by the external factors, such as intentional rotation of the camera. Certain actions can be taken when the alarm is triggered. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Basic Event > Scene Change Detection**.
2. Click the toggle to turn on **Scene Change**.



3. Specify **Sensitivity**. The higher the value is, the more easily the change of the scene can be detected.

4. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.

Linkage Method	
☒ Record	The device will start recording when an event is detected.
☐ Upload Capture to FTP	The device will upload capture picture or video to FTP server when an event is detected.
☐ Alarm Output	The external device will trigger the alarm when an event is detected.
☒ Push notifications	The device will send a message to the TP-Link VIGI app when an event is detected.
☐ Active Defence - Sound Alarm	The alarm on the camera will be triggered when an event is detected.
☐ Active Defence - Light Alarm	The light on the camera will flash when an event is detected.
☐ Email Alarm	When an event is triggered, the camera will send an alarm email to the user-defined mailbox.

5. Click **Save**.

♥ 5.5 Line Crossing Detection

Line crossing detection triggers alarm actions when cameras detect that moving objects cross a customized virtual line. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Smart Event**, select **Line Crossing Detection** from the drop-down list, and click the toggle to turn it on.

Line Crossing Detect... ▾

Line Crossing Detection ☒ On

2024-12-08 Sun. 21:52:32

InSight S345-4G 1.0_A466

Boundary 1 ▾ Delete Add

Boundary 1

Sensitivity 50

Direction A<->B ▾

Object Width Filter Min. %events triggered by narrower object will be filtered.
Max. %events triggered by wider object will be filtered.

Object Height Filter Min. %events triggered by shorter object will be filtered.
Max. %events triggered by higher object will be filtered.

Object Classification: Human/Vehicle ☒ Human Detection ☒ Vehicle Detection
An event will be triggered only when a specific object enters the area.

Object Classification Confidence ▾

2. Draw lines on the preview screen. Select the line and configure its settings.

Note: You can draw up to four lines and need to configure settings for each line.

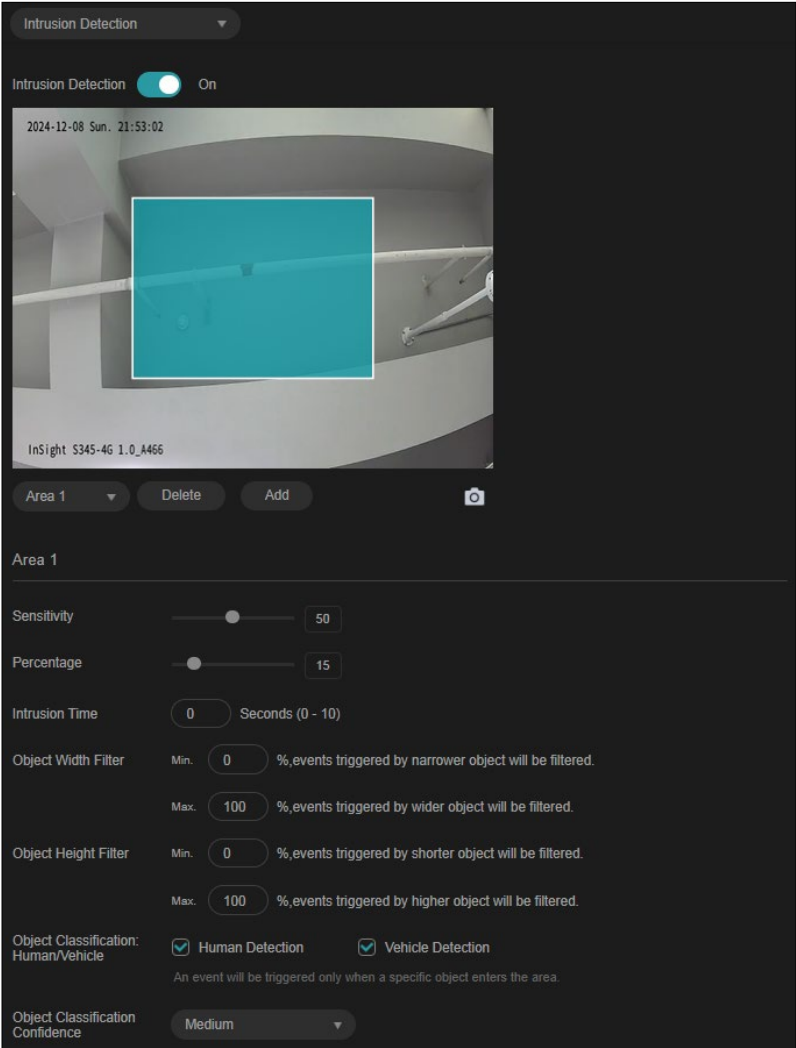
Sensitivity	The higher the value is, the easier it is to detect a target that crosses the line.
Direction	Choose the direction from which the target crosses the line. A->B: Only the target crossing the configured line from the A side to the B side can be detected. B->A: Only the target crossing the configured line from the B side to the A side can be detected. A<->B: The target going across the line from both sides can be detected and alarms are triggered.
Object Width Filter	Set the minimum and maximum width for the target to be detected. Only targets with sizes between the maximum and minimum value will be detected.
Object Height Filter	Set the minimum and maximum height for the target to be detected. Only targets with sizes between the maximum and minimum value will be detected.
Object Classification: Human/Vehicle	Choose whether you want to detect humans only, vehicles only, or both. The function is available only for cameras which support human detection and vehicle detection.
Object Classification Confidence	Select the detection type from High, Medium, and Low. The function is available only for the cameras which support human detection and vehicle detection.

3. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
4. Click **Save**.

♥ 5.6 Intrusion Detection

Intrusion detection is used to detect objects entering and loitering in a predefined virtual region. Once it happens, the camera will take linkage actions. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Smart Event**, select **Intrusion Detection** from the drop-down list, and enable it.



2. Draw intrusion areas on the preview screen. Select the area and configure the settings.

Note: You may draw up to four areas and need to configure settings for each area.

Sensitivity	The higher the value is, the more easily an intrusion action can be detected.
Percentage	Set the percentage of intrusion detection. When an object takes up the specific percentage of the area, the alarm actions will be triggered.
Intrusion Time	Intrusion time stands for the threshold a target loiters in the area. Any stay longer than the intrusion time will trigger the linkage action.
Object Width Filter	Set the minimum and maximum width for the target to be detected. Only targets with sizes between the maximum and minimum value will be detected.
Object Height Filter	Set the minimum and maximum height for the target to be detected. Only targets with sizes between the maximum and minimum value will be detected.

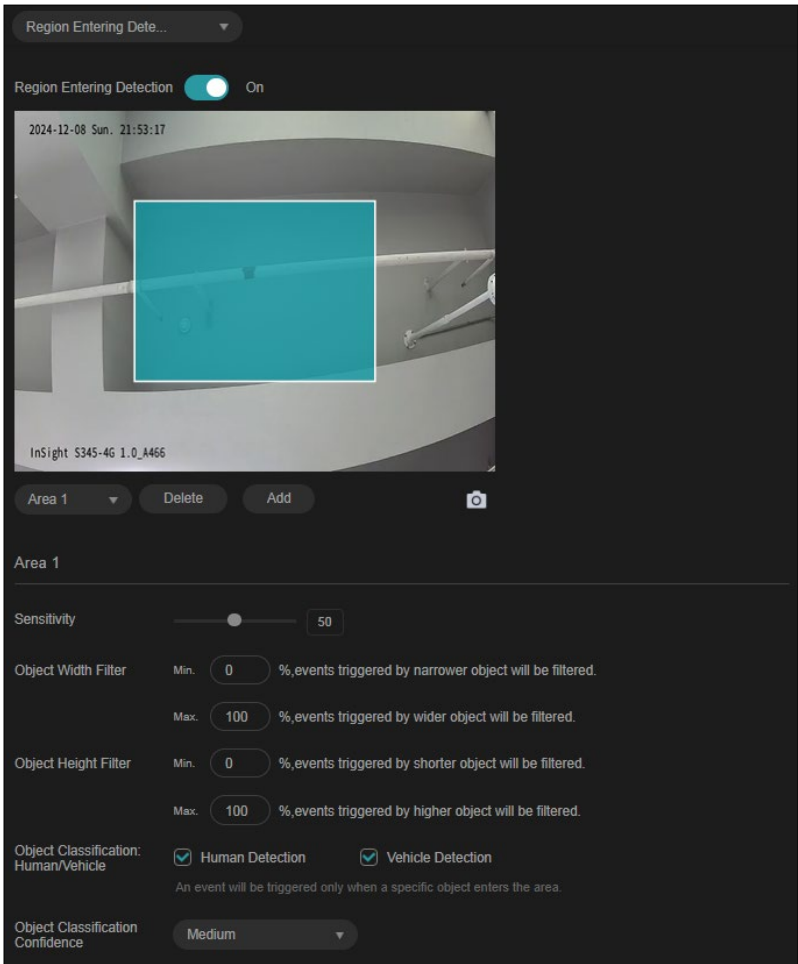
Object Classification: Human/Vehicle	Choose whether you want to detect humans only, vehicles only, or both. The function is available only for cameras which support human detection and vehicle detection.
Object Classification Confidence	Select the detection type from High, Medium, and Low. The function is available only for the cameras which support human detection and vehicle detection.

3. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
4. Click **Save**.

♥ 5.7 Region Entering Detection

Region entering detection triggers alarm actions when cameras detect moving objects enter the specified regions. You can customize the region settings, select the triggered actions and set the alarm schedule. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Smart Event**. Select **Region Entering Detection** from the drop-down list and enable it.



2. Draw shapes for area entrance detection on the preview screen.

Note: You may draw up to four areas and need to configure settings for each area.

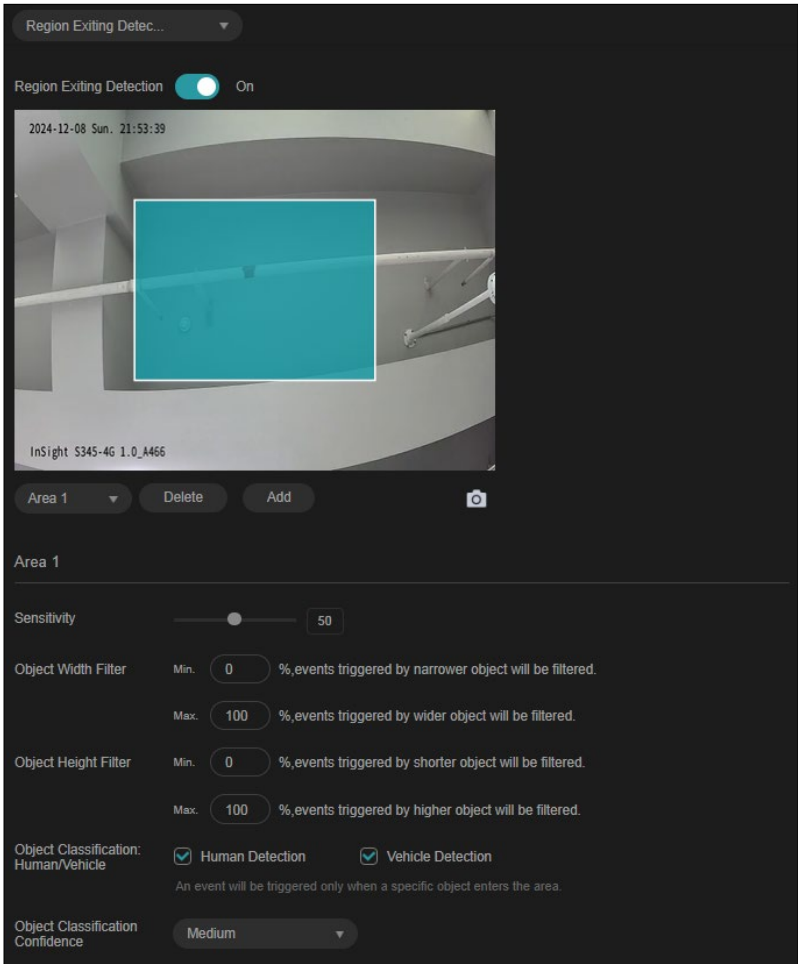
Sensitivity	Adjust the value of sensitivity. A higher value can trigger alarm actions more easily.
Object Width Filter	Set the minimum and maximum width for the target to be detected. Only targets with sizes between the maximum and minimum value will be detected.
Object Height Filter	Set the minimum and maximum height for the target to be detected. Only targets with sizes between the maximum and minimum value will be detected.
Object Classification: Human/Vehicle	Choose whether you want to detect humans only, vehicles only, or both. The function is available only for cameras which support human detection and vehicle detection.
Object Classification Confidence	Select the detection type from High, Medium, and Low. The function is available only for the cameras which support human detection and vehicle detection.

3. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
4. Click **Save**.

♥ 5.8 Region Exiting Detection

Region exiting detection triggers alarm actions when cameras detect moving objects exit the specified regions. You can customize the region settings, select the triggered actions and set the alarm schedule. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Smart Event**, select **Region Exiting Detection** from the drop-down list, and enable it.



2. Draw shapes for area exiting detection on the preview screen.

Note: You may draw up to four areas and need to configure settings for each area.

Sensitivity	Adjust the value of sensitivity. A higher value can trigger alarm actions more easily.
Object Width Filter	Set the minimum and maximum width for the target to be detected. Only targets with sizes between the maximum and minimum value will be detected.
Object Height Filter	Set the minimum and maximum height for the target to be detected. Only targets with sizes between the maximum and minimum value will be detected.
Object Classification: Human/Vehicle	Choose whether you want to detect humans only, vehicles only, or both. The function is available only for cameras which support human detection and vehicle detection.
Object Classification Confidence	Select the detection type from High, Medium, and Low. The function is available only for the cameras which support human detection and vehicle detection.

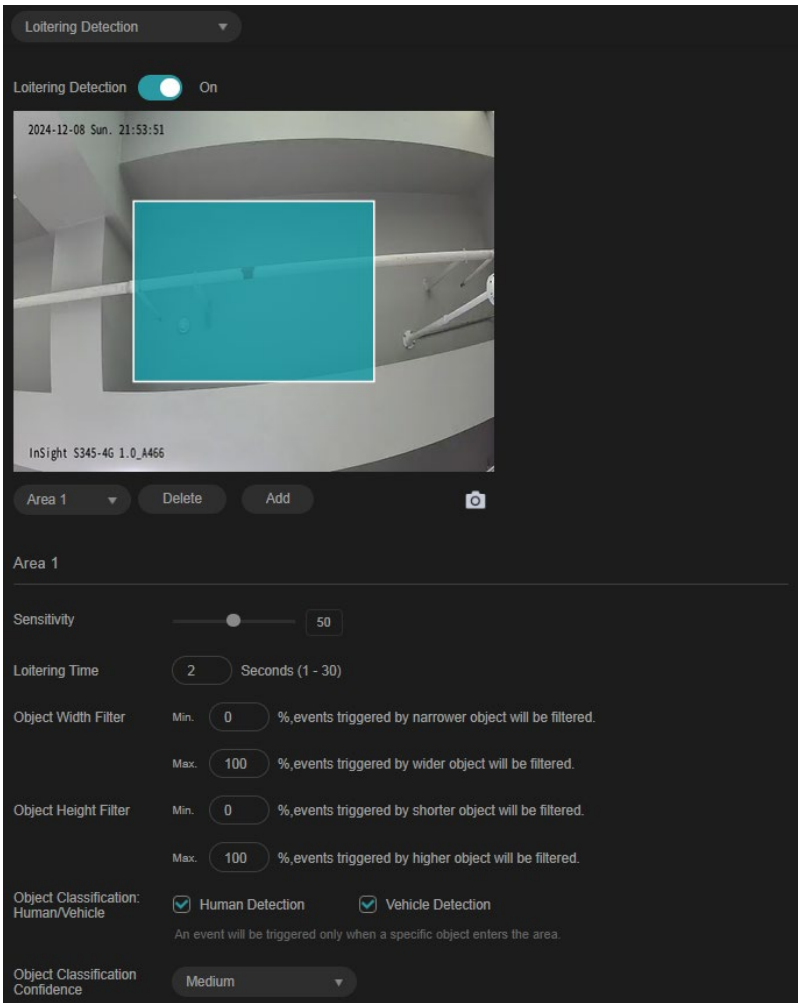
3. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
4. Click **Save**.

♥

5.9 Loitering Detection

Loitering detection triggers alarm actions when a moving object remains in a predefined area for a specific amount of time. You can customize the area settings, select the triggered actions and set the alarm schedule. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Smart Event**, select **Loitering Detection** from the drop-down list, and enable it



2. Draw shapes for area exiting detection on the preview screen.

Note: You may draw up to four areas and need to configure settings for each area.

Sensitivity	Adjust the value of sensitivity. A higher value can trigger alarm actions more easily.
-------------	--

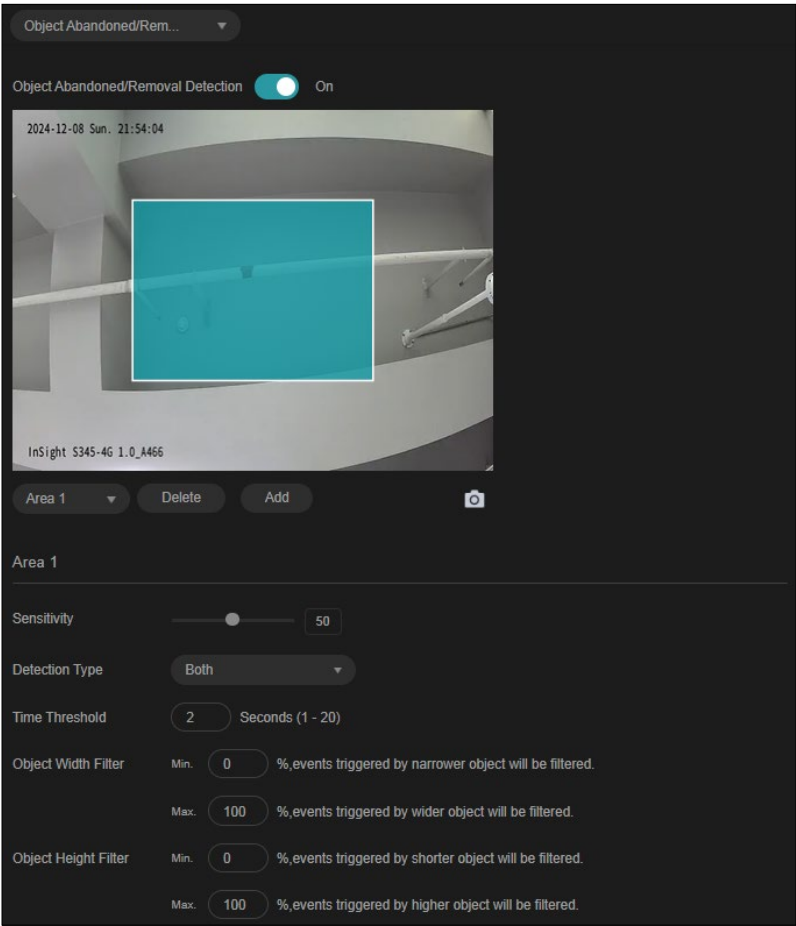
Loitering Time	It stands for the threshold for the time of the object loitering in the region. If the time that one object stays exceeds the threshold, the alarm is triggered.
Object Width Filter	Set the minimum and maximum width for the target to be detected. Only targets with sizes between the maximum and minimum value will be detected.
Object Height Filter	Set the minimum and maximum height for the target to be detected. Only targets with sizes between the maximum and minimum value will be detected.
Object Classification: Human/Vehicle	Choose whether you want to detect humans only, vehicles only, or both. The function is available only for cameras which support human detection and vehicle detection.
Object Classification Confidence	Select the detection type from High, Medium, and Low. The function is available only for the cameras which support human detection and vehicle detection.

3. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
4. Click **Save**.

♥ 5. 10 Object Abandoned/Removal Detection

Object abandoned/removal detection triggers alarm actions when cameras detect objects are left behind or taken away in the specified areas. You can customize the area settings, select the triggered actions and set the alarm schedule. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Smart Event**, select **Object Abandoned/Removal Detection** from the drop-down list, and enable it.



2. Draw shapes for area exiting detection on the preview screen.

Note: You may draw up to four areas and need to configure settings for each area.

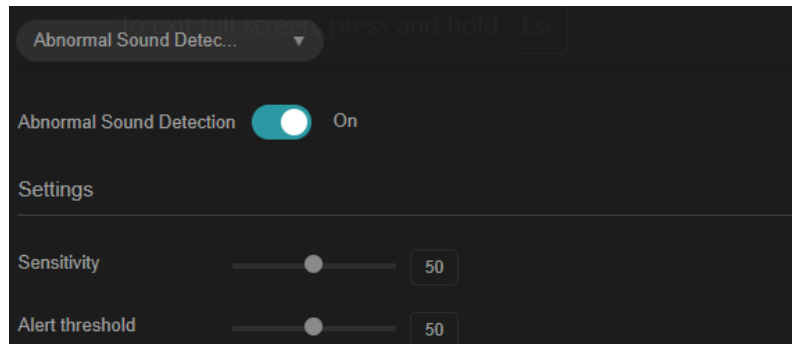
Sensitivity	Adjust the value of sensitivity. A higher value can trigger alarm actions more easily.
Detection Type	Select the detection type.
Time Threshold	Set how long the object is left behind or taken away to trigger the event.
Object Width Filter	Set the minimum and maximum width for the target to be detected. Only targets with sizes between the maximum and minimum value will be detected.
Object Height Filter	Set the minimum and maximum height for the target to be detected. Only targets with sizes between the maximum and minimum value will be detected.

3. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
4. Click **Save**.

♥ 5.11 Abnormal Sound Detection

Abnormal sound detection identifies uncommon or irregular sounds and triggers alarm actions. You can select the triggered actions and set the alarm schedule. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Smart Event**, select **Abnormal Sound Detection** from the drop-down list, and click the toggle to turn it on.

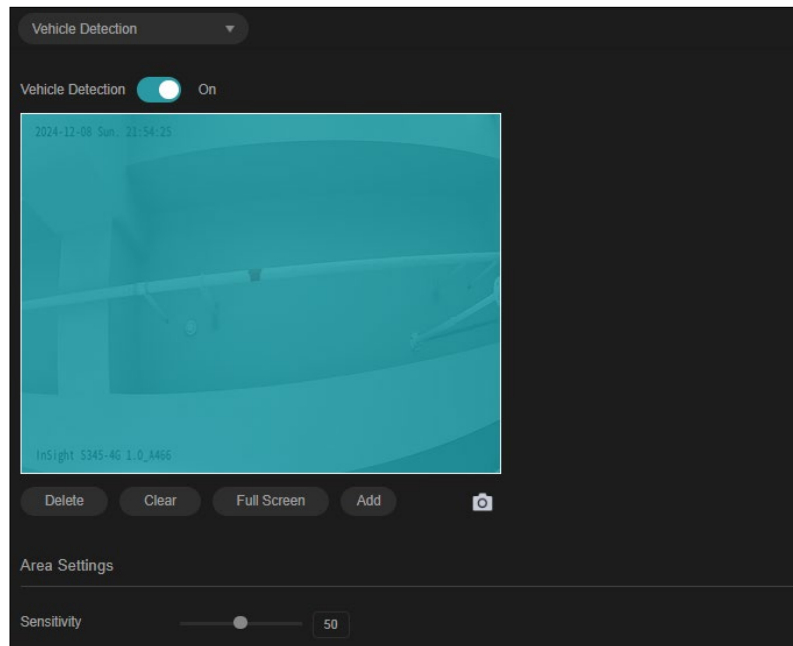


2. Adjust the value of sensitivity and alert threshold. The higher the sensitivity and the lower the threshold, the easier it gets to trigger linkage methods.
3. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
4. Click **Save**.

♥ 5.12 Vehicle Detection

Vehicle detection triggers alarm actions when cameras detect vehicles are moving in the specified areas. You can customize the area settings, select the triggered actions and set the alarm schedule. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Smart Event**, select **Vehicle Detection** from the drop-down list, and click the toggle to turn it on.

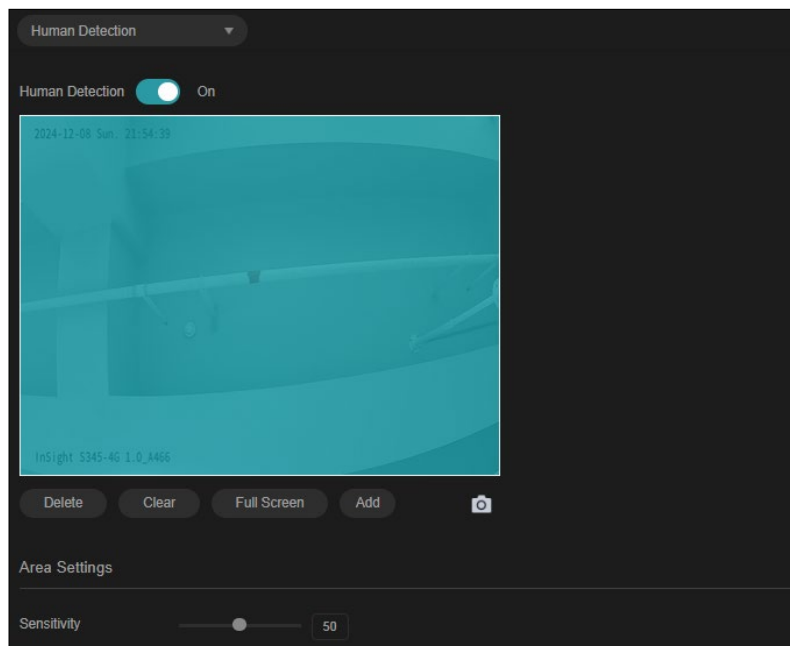


2. Draw shapes for area exiting detection on the preview screen.
Note: You may draw up to four areas.
3. Adjust the value of sensitivity. A higher value can trigger alarm actions more easily.
4. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
5. Click **Save**.

♥ 5.13 Human Detection

Human detection triggers alarm actions when cameras detect persons are moving in the specified areas. You can customize the area settings, select the triggered actions and set the alarm schedule. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Smart Event**, select **Human Detection** from the drop-down list, and click the toggle to turn it on.

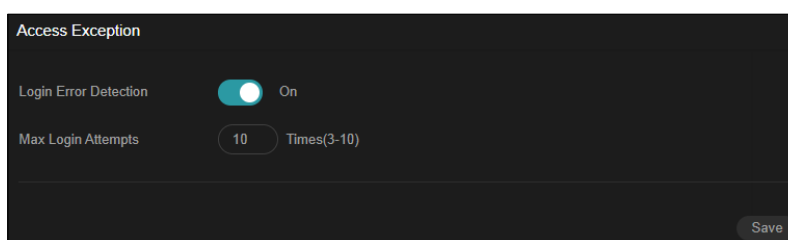


2. Adjust the value of sensitivity. A higher value can trigger alarm actions more easily.
3. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
4. Click **Save**.

♥ 5.14 Exception Event

Set the maximum login attempts to protect the security of your camera. The camera will be locked for 30 minutes if you enter the wrong password more than the specified attempts. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Exception Event**.



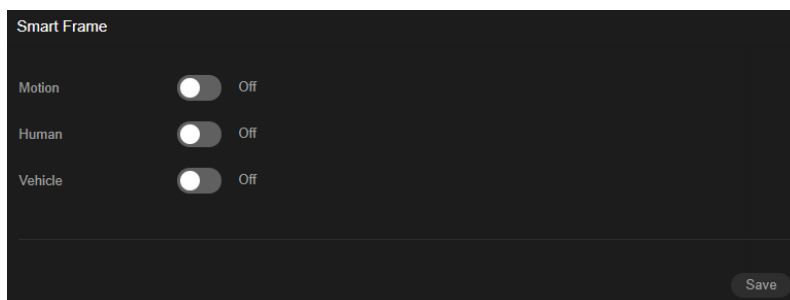
2. Enable **Login Error Detection** to limit the login attempts:
3. Set the maximum login attempts. The number should be between 3 and 10
4. Click **Save**.

Note: To unlock the camera and try to log in again, power the camera off and then power it on.

♥ 5.15 Smart Frame

Smart frame is an AI-powered function that can precisely mark and capture detected movement, people, or vehicle objects on the screen.

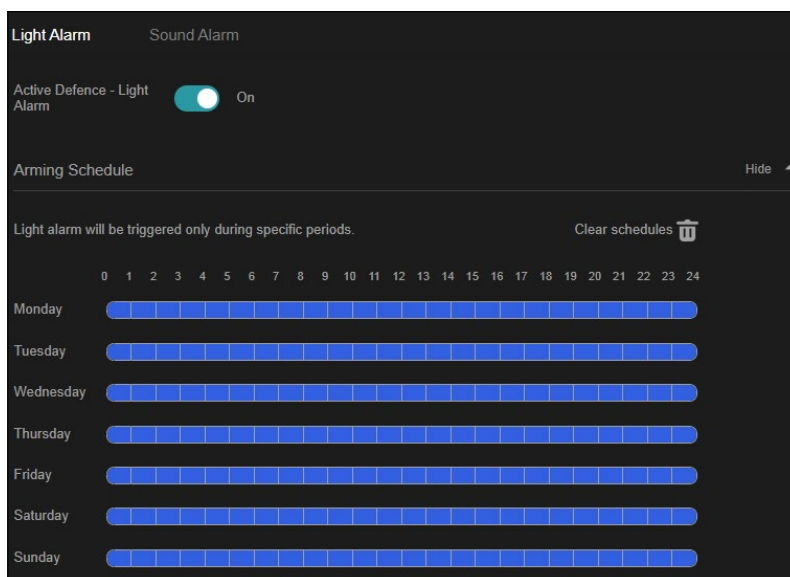
Click the toggles to specify the type of detection: motion, human, or vehicle. You may enable more than one types. Click **Save**.



♥ 5.16 Light Alarm

With Light Alarm enabled, the light on the camera will flash when an event is detected. Follow the steps below to finish the configuration.

1. Go to **Settings > Event > Active Defence > Light Alarm**.
2. Enable **Active Defence - Light Alarm**.

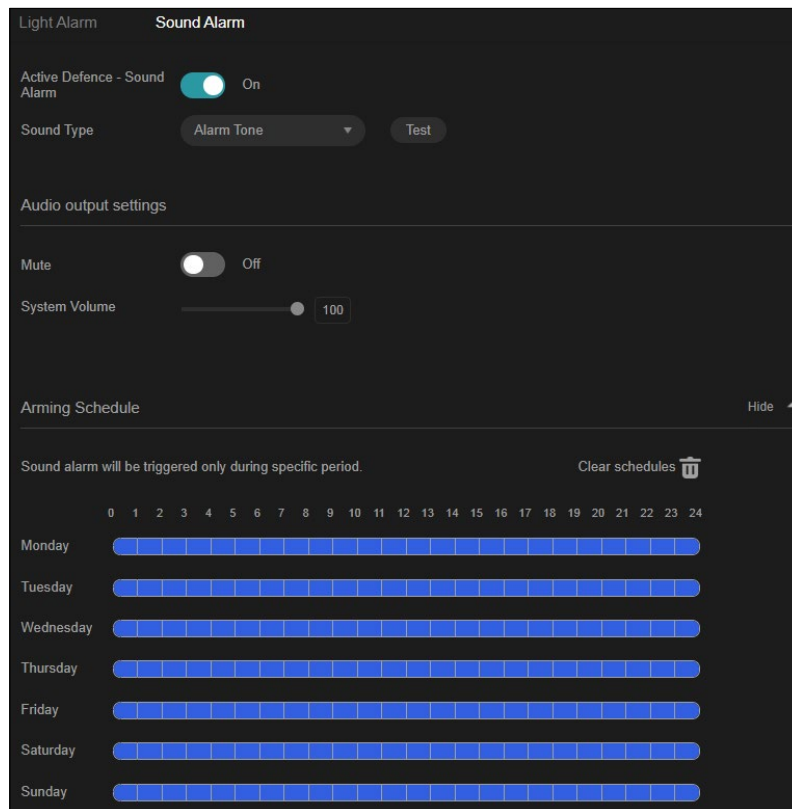


3. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
4. Click **Save**.

♥ 5.17 Sound Alarm

Enable Sound Alarm, then the alarm on the camera will be triggered when an event is detected.

1. Go to **Settings > Event > Active Defence > Sound Alarm**.
2. Enable **Active Defence - Sound Alarm**, select the **Alarm Type**, and click **Test**.



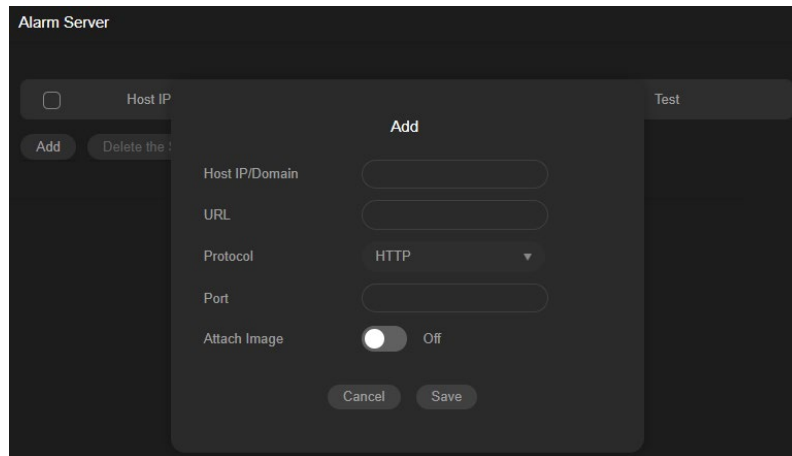
3. Under Audio Output Settings, click the toggle to mute or drag the slide bar to set the system volume.
4. Refer to [Arming Schedule and Linkage Method](#) for settings if needed.
5. Click **Save**.

♥ 5.18 Alarm Server

The device can send alarms to destination IP address or host name through HTTP, HTTPS, or ISUP protocol. The destination IP address or host name should support HTTP, HTTPS, or ISUP data transmission.

1. Go to **Settings > Event > Alarm Server**.

2. Click **Add**.



3. Enter Host IP/Domain, URL, and Port, and select Protocol. Enable Attach Image if needed.

Note: HTTP and HTTPS are selectable. It is recommended to use HTTPS, as it encrypts the data transmission during communication.

4. Click **Save**.

6

Recording and Storage

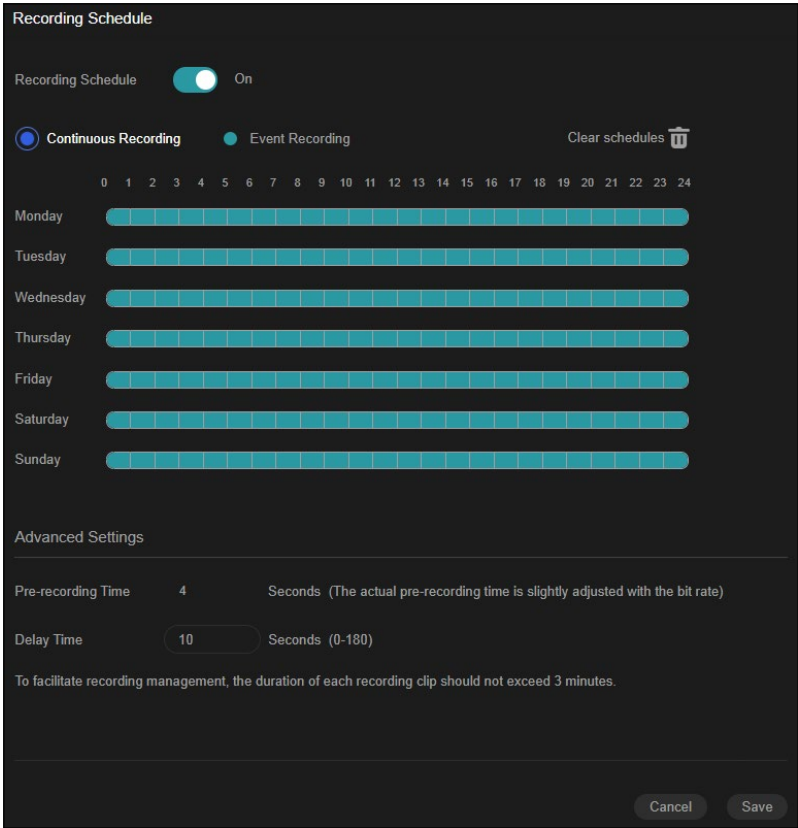
This chapter guides you on how to view and configure recording and storage settings on your camera. VIGI camera allows you to set your own recording schedules and parameters. This chapter includes the following sections:

- [Recording Schedule](#)
- [Storage Management](#)

♥ 6.1 Recording Schedule

Recording schedule section provides convenience and flexibility for the daily monitoring of your camera. You can customize the recording schedules. You can set different schedules for each day. In Advanced Settings page, you can set the pre-recording time and delay time for recording.

1. Go to **Settings > Storage > Recording Schedule**.



2. Enable **Recording Schedule**, select Continuous Recording or Event Recording, then select the time period.

Continuous Recording	The camera will record continuously.
Event Recording	The camera will record when an event is detected.
Pre-recording Time	The time is set for cameras to record before the scheduled time or event. For example, the schedule for continuous recording starts at 10:00. If you set the pre-recording time as 5 seconds, the camera starts to record at 9:59:55.
Delay Time	The time is set for cameras to record after the scheduled time or event. For example, if you set the post-record time as 5 seconds, it records till 11:00:05 as motion detection ends at 11:00.

3. Move your mouse to the right of a day's blocks and an edit button will appear. Click  and enter the pop-up window to finetune the Start Time and End Time (with an accuracy of a minute). Select

Event Recording or Continuous Recording for each time period and check Set. You may copy a schedule for a day to any other days. Click **OK** when you are done.

No.	Start Time	End Time	Type	Set
1	00:00	24:00	Event Recording	☒
2	00:00	00:00	Continuous Recording	☒
3	00:00	00:00	Continuous Recording	☒
4	00:00	00:00	Continuous Recording	☒
5	00:00	00:00	Continuous Recording	☒
6	00:00	00:00	Continuous Recording	☒

Copy Schedule to ☐ Select All

☐ Monday
 ☐ Tuesday
 ☐ Wednesday
 ☐ Thursday
 ☐ Friday
 ☐ Saturday
 ☐ Sunday

Cancel OK

4. Click **Save**.

♥ 6.2 Storage Management

In Storage Management, you can view the parameters and configure the properties and disk group of SD card. You can also enable the camera to overwrite the earlier recording files when the SD card is full.

1. Go to **Settings > Storage > Storage Management**.

Disk Number	Type	Attributes	Capacity/Remaining	Status
1	Local	Read and Write	237.40GB/236.60GB...	Normal Format

Advanced Settings

Record Stream: Main Stream

Circular write of Disk: ☒ On

Record Audio: ☒ On

Recording Expiration: ☐ Off

Expired Time: 7 Day(s)

Save

2. Click **Format** to initialize the memory card.

When the Status of memory card turns from Uninitialized to Normal, the memory card is ready for use.

3. Specify advanced settings.

	Select the stream type for recording.
Record Streams	Main Stream stands for the best stream performance the device supports. It usually offers the best resolution and frame rate the device can do. But high resolution and frame rate usually means larger storage space and higher bandwidth requirements in transmission. Substream usually offers comparatively low resolution options, which consumes less bandwidth
Circular Write of Disk	Enable Circular Write of Disk to overwrite the video records when the storage space is full. Otherwise the camera cannot record new videos.
Record Audio	Enable to record audio and video simultaneously.
Recording Expiration	Enable Recording Expiration to delete recordings when they exceed the expired time. Note that once the recordings are deleted, they can not be recovered.
Expired Time	Set the time when recordings will be automatically deleted.

5. Click **Save**.



Network Management

With proper network configurations, you can connect your camera to the internet, build up mapping between internal and external ports. This chapter contains the following sections:

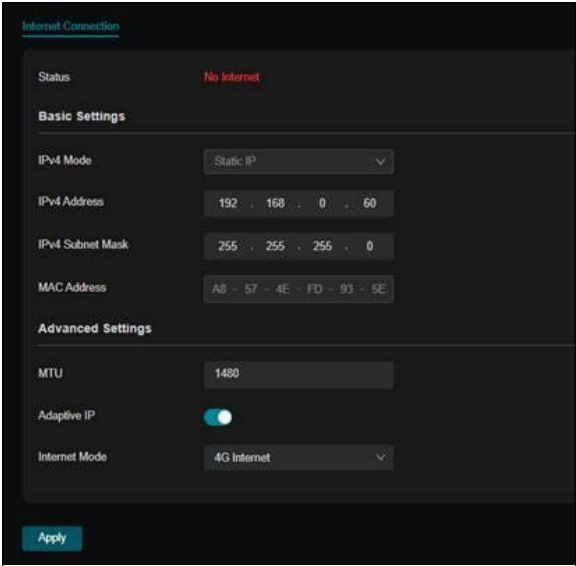
- [Internet Connection](#)
- [Port](#)
- [Platform Access](#)
- [Email](#)
- [Port Forwarding](#)
- [IP Restriction](#)
- [Multicast](#)
- [FTP Settings](#)
- [SNMP](#)
- [DDNS](#)

♥ 7.1 Internet Connection

In Internet Connection, you can view the connection status and configure the camera to obtain a dynamic or static IP address.

Follow the steps below to configure the network settings.

1. Go to **Settings > Network Settings > Connect**.



Status	Displays the current internet status.
IPv4 Mode	Configure the camera to obtain a dynamic or static IP address.
IPv4 Address	Specify an IP address for the camera. The IP address should be in the same segment as the gateway; otherwise, the camera cannot connect to the internet.
IPv4 Subnet Mask	Enter the subnet mask.
IPv4 Gateway	Enter the IP address of the gateway device to which the data packets will be sent. This IP address should be in the same segment as the camera's IP address.
Preferred / Alternative DNS	Enter the IP address of the DNS server.
MTU	Specify MTU (Maximum Transmission Unit) to decide the largest size of data unit that can be transmitted in the network. A larger unit can improve the efficiency with more data in each packets, but it may increase the network delay because it needs more time to transmit. Therefore, if you have no special needs, it is recommended to keep the default value.
Adaptive IP	Enable this option if you want to set the camera's IP to change according to the network topology.

Internet Mode	Select the working mode of the device. 4G Internet: If this option is selected, the camera can connect to the internet via 4G. Wired Internet: If this option is selected, the camera can only connect to the internet via an Ethernet cable.
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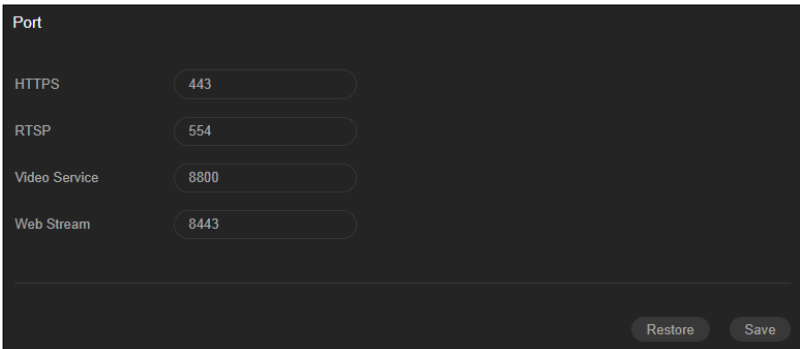
Note: The cameras should be in the same segment with the NVR, so that the NVR can discover and manage them.

- 2. Click **Save**.

♥ 7.2 Port

In Port, you can configure the HTTPS port and service port of devices that can be used to access the camera through the network. When managing and monitoring the devices via VIGI Security Manager or the VIGI app, the ports configured here are used for communications of corresponding protocols.

- 1. Go to **Settings > Network Settings > Port**.



- 2. Specify HTTPS port and service port.

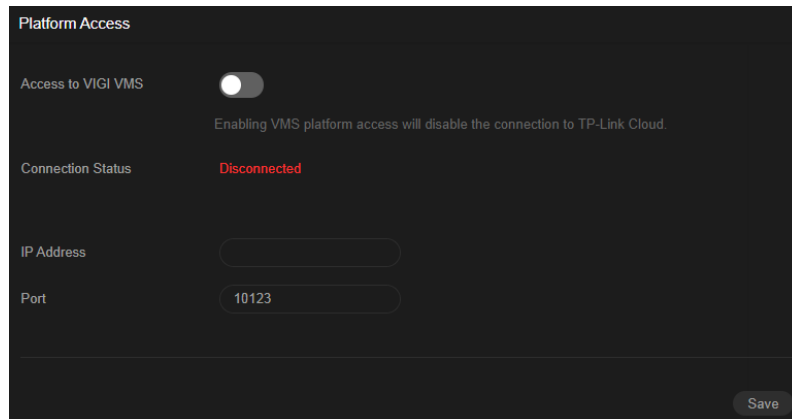
HTTPS	Specify a port for HTTPS protocol.
RTSP	Specify a port for RTSP protocol.
Video Service	Specify a port for protocols of video services.
Web Stream	Specify a port to access the camera’s live streaming web interface.

- 3. Click **Save**.

♥ 7.3 Platform Access

VIGI VMS is an application that streamlines batch device management via a single interface, integrating real-time video monitoring, an alarm center, and advanced features for effortless, robust security. You can access VIGI VMS with the Platform Access enabled.

1. Enable Access to VIGI VMS.



The screenshot shows a 'Platform Access' configuration window. At the top, there is a toggle switch for 'Access to VIGI VMS' which is currently turned off. Below the toggle, a message states: 'Enabling VMS platform access will disable the connection to TP-Link Cloud.' Underneath this, the 'Connection Status' is shown as 'Disconnected' in red text. Further down, there are two input fields: 'IP Address' and 'Port'. The 'Port' field contains the value '10123'. At the bottom right of the window, there is a 'Save' button.

2. Enter the IP Address and the Port number.
3. Click **Save**.

♥ 7.4 Email

When the email is configured and enabled as a linkage method, the device sends an email notification to all designated recipients if an alarm event is detected.

Email Settings

Sender

Sender Email

SMTP Server

SMTP Port

☐ SSL/TLS

☐ Attached Image

Interval

☐ Authentication

Username

Password

☐	No.	Recipient	Recipient Email		
☐	1			Test	Edit
☐	2			Test	Edit
☐	3			Test	Edit

1. Go to Settings > Network Settings > Email.
2. Input the sender's email information, including the Sender's name, Sender Email, SMTP Server, and SMTP Port.
3. Enable SSL/TLS if needed and emails will be send after encrypted.
4. Check Attached Image to receive notification with alarm pictures. The notification email has a certain number of attached alarm pictures about the event with configurable image capturing interval.
5. If your email server requires authentication, check Authentication and input your username and password to log in to the server.
6. Input the recipient's information, including the recipient's name and address.
7. Click **Test** to see if the function is well configured.
8. Click **Save**.

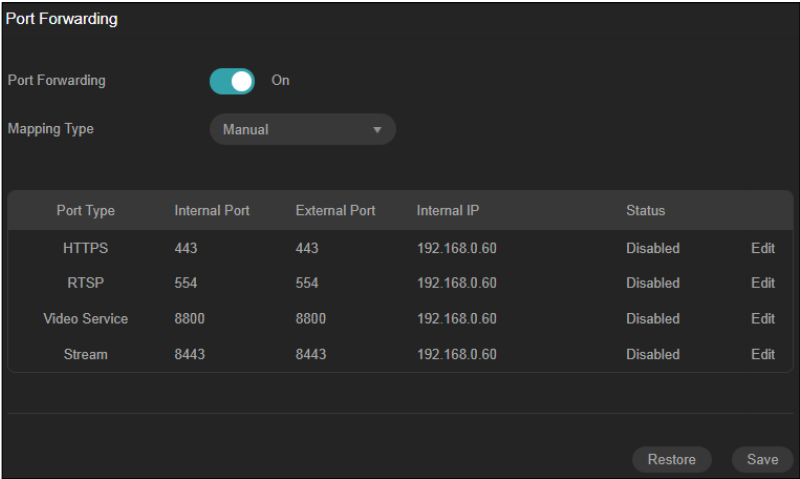
♥ 7.5 Port Forwarding

Port Forwarding is used to establish the mapping between the internal port and external port. When Port Forwarding is enabled, you can access the device and watch the videos when accessing the external port remotely.

Note: The cameras should be connected to the internet, and Port Forwarding should be enabled on the gateway.

Follow the steps below to configure Port Forwarding.

1. Go to **Settings > Network Settings > Port Forwarding**.
2. Enable Port Forwarding and specify a mapping type. If you select **Auto** as the mapping type, the mappings are established automatically. If you select **Manual** as the mapping type, click **Edit** to specify the external port.



Port Type	Displays the protocol type.
Internal Port	Displays the port of the camera to be converted.
External Port	Displays the external port opened by the gateway.
Internal IP	Displays the IP address of the camera that needs to be converted.
Status	Displays the status of mapping.
Restore	Click to restore the settings to default factory settings.

3. Click **Save**.

With Port Forwarding enabled, you can remotely watch the videos with the URL `rtsp://A.B.C.D:Port/streamN`, for example, `rtsp://10.0.1.47:28736/stream1`. A.B.C.D is the WAN IP address of the gateway, and Port is the number of RTSP external port. N can be number 1 or 2 that indicates the stream, 1 for main stream and 2 for substream.

♥ 7.6 IP Restriction

When IP Restriction is enabled, you can add IP addresses to the deny list or allow list to restrict the access to the camera. The IP address in the deny list cannot access the camera, while only the IP addresses in the allow list can access the camera.

Follow the steps below to configure IP Restriction.

1. Go to **Settings > Network Settings > IP Restriction**.
2. Enable IP Restriction and specify the restriction rule. If you select **Deny List**, the devices with the IP addresses specified in the table will not be able to access the camera. If you select **Allow List**, only the devices with the IP addresses specified in the table can access the camera.

IP Restriction

IP Restriction ☒ On

Restriction Rule

☒ Deny List - Block the IP addresses on the list.

☐ Allow List - Allow only the IP addresses on the list.

Description	IP Address

Delete the Selected Add

Restore Save

3. Click **Add** to add the desired IP address, give a description to identify this IP address, then click **Save**.

Set IP

Description

IP Address

Cancel Save

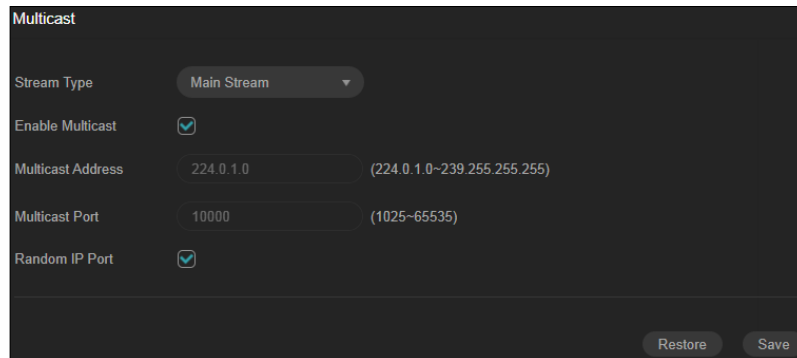
4. Click **Save**.

♥ 7.7 Multicast

When Multicast is enabled, you can watch videos using the multicast address and port.

Follow the steps below to configure Multicast.

1. Go to **Settings > Network Settings > Multicast**.
2. Select the stream type, then enable **Multicast**.



Stream Type	Main Stream ▼	
Enable Multicast	☒	
Multicast Address	224.0.1.0	(224.0.1.0~239.255.255.255)
Multicast Port	10000	(1025~65535)
Random IP Port	☒	
Restore Save		

3. Disable Random IP Port and specify a static address and port, or enable Random IP Port.
4. Click **Save**.

After Multicast enabled, you can watch the video with the URL `rtsp://A:B:C:D/multicastStreamN`, for example, `rtsp://192.168.0.3/multicastStream1`. A.B.C.D is the IP address of the camera, and N can be number 1 or 2 that indicates the stream, 1 for main stream and 2 for substream.

♥ 7.8 FTP Settings

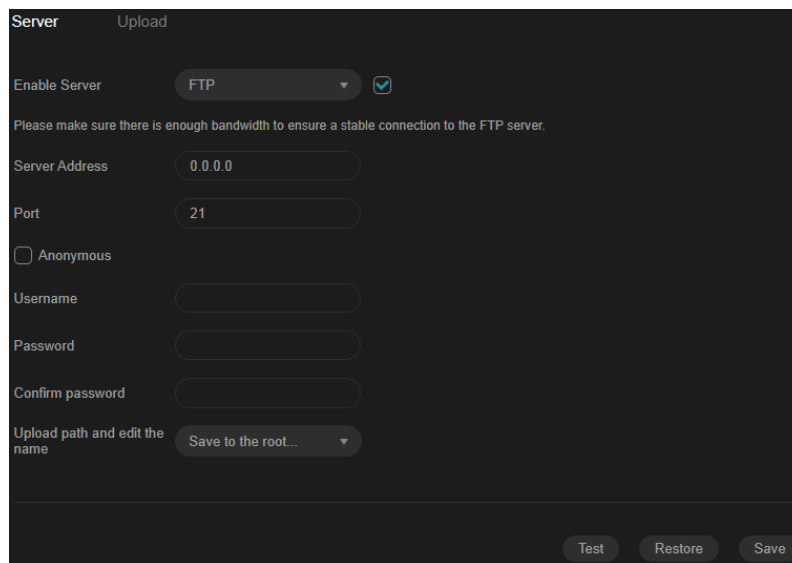
An FTP (File Transfer Protocol) server is a program that facilitates the transfer of files across the Internet from one device to another.

In FTP Settings, you can upload and save images captured by your camera to an FTP server, an online security camera storage option.

7.8.1 Server

You can set up the basics for the FTP server.

1. Go to **Settings > Network Settings > FTP Settings > Server**.



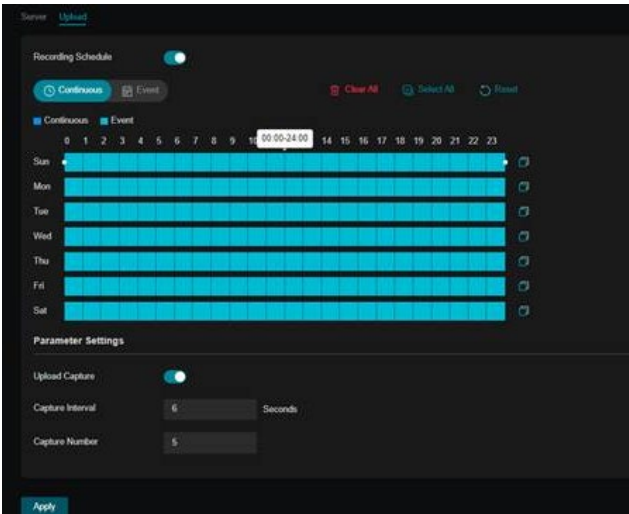
The screenshot shows the 'Server' configuration page for FTP. At the top, there are two tabs: 'Server' and 'Upload'. The 'Server' tab is active. Below the tabs, there is a section for 'Enable Server' with a dropdown menu set to 'FTP' and a checked checkbox. A note below this says 'Please make sure there is enough bandwidth to ensure a stable connection to the FTP server.' Below the note are input fields for 'Server Address' (0.0.0.0) and 'Port' (21). There is a checkbox for 'Anonymous' which is unchecked. Below that are input fields for 'Username', 'Password', and 'Confirm password'. At the bottom, there is a dropdown menu for 'Upload path and edit the name' set to 'Save to the root...'. At the very bottom of the form are three buttons: 'Test', 'Restore', and 'Save'.

2. Check Enable Server. FTP and SFTP are selectable. The files uploading is encrypted by using SFTP protocol.
3. Enter Server Address and Port. They stand for the FTP server address and corresponding port.
4. Set Username and Password and confirm the password. The FTP user should have the permission to upload pictures.
5. If the FTP server supports picture uploading by anonymous users, you can check Anonymous to hide your device information during uploading.
Note: Anonymous login is not supported when SFTP protocol is selected.
6. Select the saving path of images uploaded in the dropdown box of Upload Path and Edit the Name.
7. Click **Test** to verify the FTP server.
8. Click **Save**.

7.8.2 Upload

You can configure the parameters of images to be uploaded to the FTP server.

1. Go to **Settings > Network Settings > FTP Settings > Upload**.



2. Enable Recording Schedule and follow the steps in the [Recording Schedule](#).
3. Enable Upload Capture as needed.
4. Configure the following parameters:

Capture Interval	The camera takes the capture when it reaches the capture interval.
Capture Number	The number of captures taken during one interval.

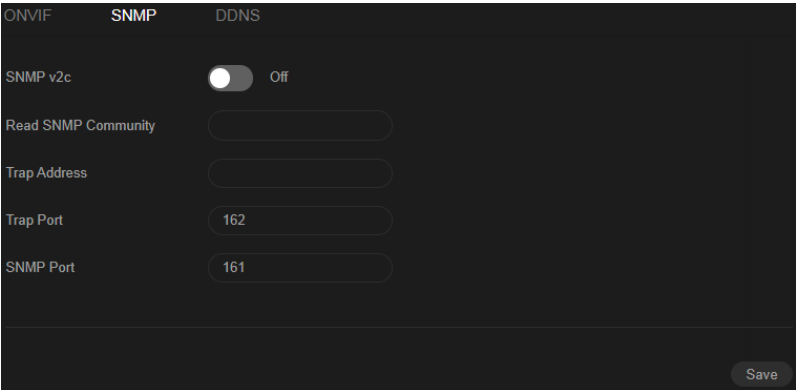
5. Click **Save**.

♥ 7.9 Advanced Settings

In the Advanced column, you can set the SNMP, or Simple Network Management Protocol, to get device information for network management, and use the Dynamic DNS (DDNS) for network access.

7.9.1 SNMP

1. Go to **Settings > Network Settings > Advanced > SNMP**.



2. Enable SNMP v2c.

3. Enter the SNMP community name. Note that the access is Read only, meaning that the network management system can only view but not modify parameters of the specified view.
4. Configure the following parameters.

Trap Address	IP Address of SNMP host.
Trap Port	Port of SNMP host. The value is by default 162 and can range from 1 to 65535.
SNMP Port	An SNMP communication endpoint that identifies SNMP data transfers. By default the SNMP port is 161.

5. Click **Save**.

7.9.2 DDNS

DDNS is a service that maps internet domain names to IP addresses, automatically updating the IP address if or when it changes. With DDNS, you can access the internet using the domain name without worrying about changes to your IP address, needless to update it manually. To configure the DDNS settings of the device, register on the DDNS server first.

1. Go to **Settings > Network Settings > Advanced > DDNS**.

2. Select the type of Service Provider for domain name resolution.
3. Enter the domain name information.
4. Click **Save**.



4G Settings

Through a Nano-SIM card, the 4G camera can transmit video streams and motion alerts to your monitoring web interface using 4G LTE signals. This chapter contains the following sections:

- [Network Status](#)
- [Network Settings](#)
- [Data Settings](#)

♥ 8.1 Network Status

To connect your camera to a 4G LTE network, make sure you prepare a Nano-SIM card, activate it, and insert it in the slot at the side of the camera.

- 1. To check the status of your network, go to **Settings > 4G > Network Status**.
- 2. Click Basic Information.

Basic Information		Network Status	
Manufacturer	Quectel		
Model	EC200A		
Version	EC200AELLAR01A05M16_TP		
IMEI			
IMSI			

- 3. Click Network Status.

Basic Information		Network Status	
4G			
SIM Card Status	SIM card ready	ISP	China Telecom (4G)
Signal Strength	100%	Network Type	4G LTE
SNR	28dB	Band	1
RSRP	-66dBm	RSRQ	-9dB
Area Code	30495	Base Station ID	68621705
Upload Rate	0.163KB/s	Download Rate	0.000KB/s
Statistics	53.000KB		
Internet			
Status	Connected to 4G network		
IP Address	10.23.74.192		
Preferred DNS	8.8.8.8		
Alternative DNS	8.8.4.4		
IPv6 Address	240e:47e:3068:96d6:5050:adff:fe80:cf6e		
IPv6 Preferred DNS	240e:1f:1::1		
IPv6 Alternative DNS	240e:1f:1::33		

♥ 8.2 Network Settings

In Network Settings, you can configure your network and APN and manage your mobile data consumption.

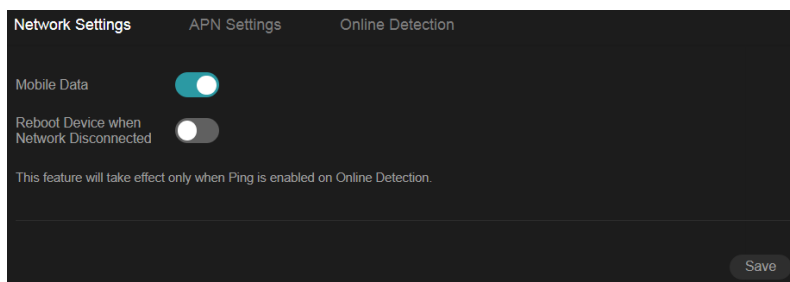
8.2.1 Network Settings

1. Go to **Settings > 4G > Network Settings > Network Settings**.
2. Click Network Settings.
3. Enable Mobile Data as desired.

Note: Data consumption depends on surveillance duration, image settings, among other factors.

4. Enable Reboot Device When Network Disconnected as needed.

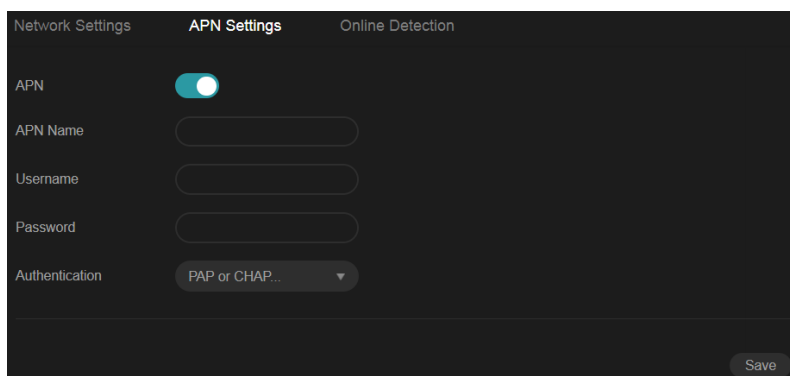
Note: This feature will take effect only when Ping is enabled on Online Detection.



8.2.2 APN Settings

An Access Point Name (APN) is a gateway between a GSM, GPRS, 3G or 4G mobile network and another computer network, frequently the public Internet. Occasionally, you may need to set the network APN details manually if you are using a network that is not as common.

1. Go to **Settings > 4G > Network Settings > APN Settings**.
2. Enter the APN details for cellular dial-up connection provided by your network provider.
3. Once entered, click **Save**.



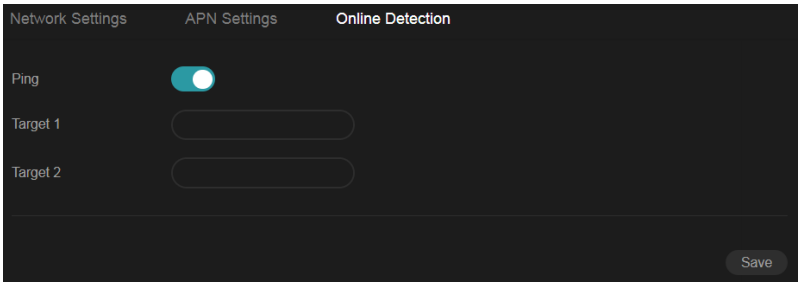
8. 2. 3 Online Detection

Online detection is to detect whether the camera is online. The ping command is a common tool to verify network devices connected to network is reachable. This command will send a request over the network to a specific device IP. If the device provides a response back to the ping that means that it is available (online).

A target can be a DNS name (www.google.com) or IP address (192.168.0.1), depending on the configuration of the endpoint you’re trying to reach.

To configure Online Detection, go to **Settings > 4G > Network Settings > Online Detection**.

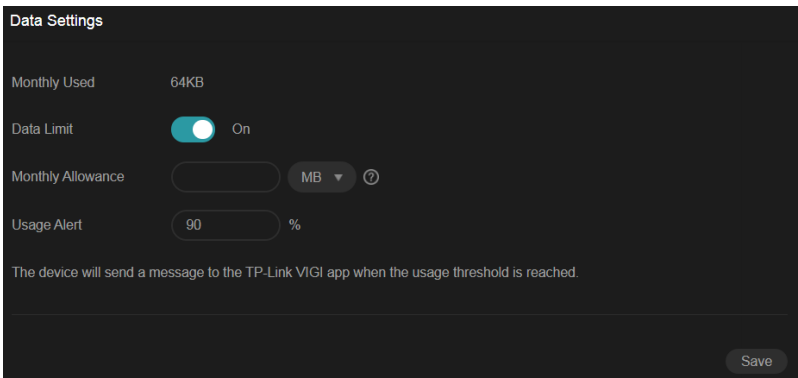
Specify targets for the ping command as needed.



♥ 8. 3 Data Settings

This feature helps you monitor the data usage of your camera and manage your data consumption.

Go to **Settings > 4G > Data Settings**.



Configure the following settings.

Monthly Used	Displays the current internet status.
Data Limit	Enable to set a maximum data load and alert for the camera.
Monthly Allowance	Set a maximum data load for a month.

Usage Alert

Enable to prevent data overuse. When data usage reaches the set percentage of the total allowance, an alert will be sent through the VMS or the TP-Link VIGI app.



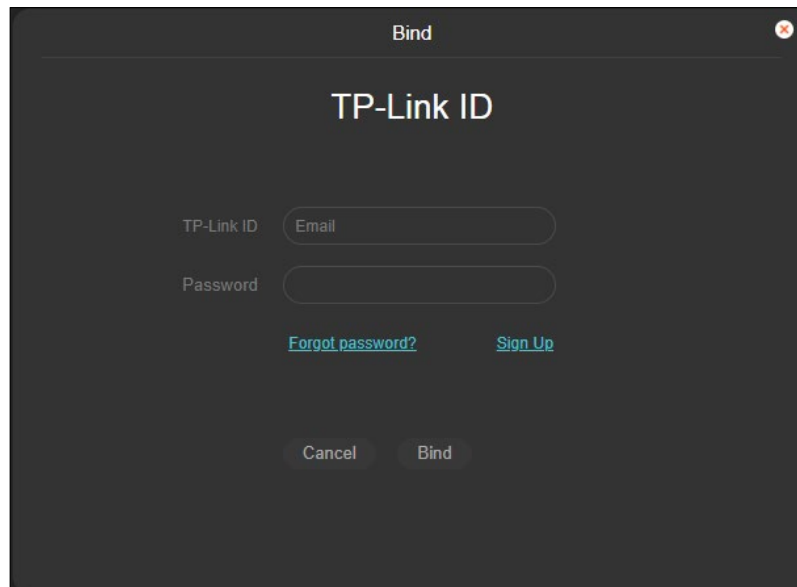
Cloud Service

After connecting your camera to the internet, you can manage it remotely via Cloud Services.

The camera supports remote management with the support of TP-Link Cloud Services. With a TP-Link ID bound, you can remotely monitor your areas on multiple platforms, including computers and mobile phones.

Follow the steps below to bind your TP-Link ID to the camera and download the VIGI app.

1. Go to **Settings > Cloud Service**.
2. Click **Go to Bind**. Enter your TP-Link ID and password and click **Bind**. If you do not have a TP-Link ID, click **Sign Up** to register.

A screenshot of a web interface titled "Bind" with a close button in the top right corner. The main heading is "TP-Link ID". Below it, there are two input fields: "TP-Link ID" with a placeholder "Email" and "Password". Below the password field are two links: "Forgot password?" and "Sign Up". At the bottom are two buttons: "Cancel" and "Bind".

3. After binding your TP-Link ID, download the VIGI app on your mobile phone by scanning the QR code below. Log in with your TP-Link ID. Then you can monitor the live view and manage the camera remotely on your computer or mobile phone.



10

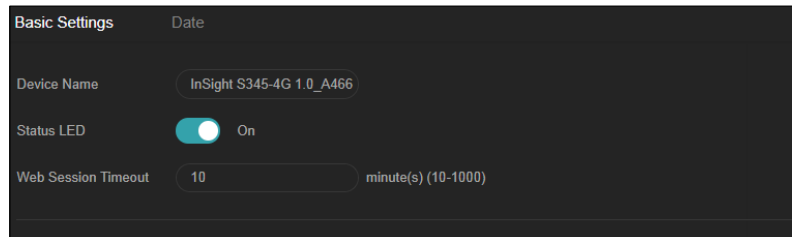
System Settings

This chapter guides you to configure the basic and advanced settings of your camera, export and import settings. You can create and modify administrator accounts based on your needs. This chapter includes the following sections:

- [Configure Basic Settings](#)
- [Modify System Time](#)
- [Manage User Accounts](#)
- [System Management](#)
- [Upgrade Firmware](#)
- [Reboot Device Regularly](#)

♥ 10.1 Configure Basic Settings

1. Go to **Settings > System Settings > Basic Settings**.
2. View and change the name of your camera.
3. Enable the Status LED if you want to be informed of the camera's activities.
4. Specify the Web Session Timeout. You will be logged out when you make no operation (not including viewing live image) to the device via web browser within the set timeout period.

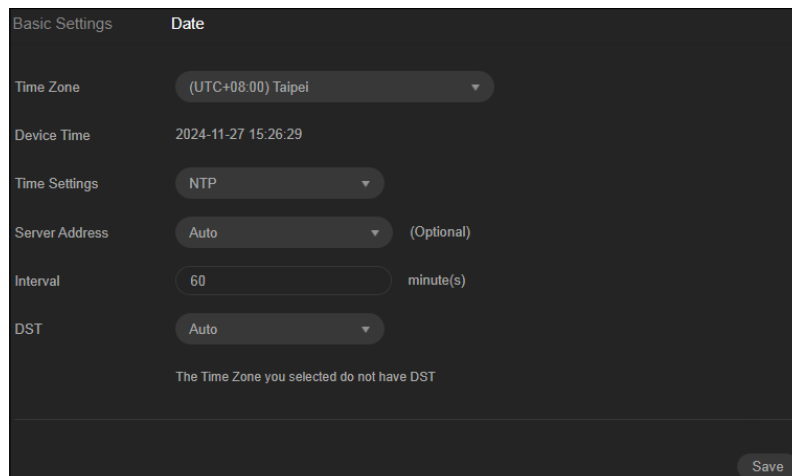


The screenshot shows the 'Basic Settings' page with a dark background. At the top, there are two tabs: 'Basic Settings' and 'Date'. The 'Basic Settings' tab is active. Below the tabs, there are three settings: 'Device Name' with a text input field containing 'InSight S345-4G 1.0_A466', 'Status LED' with a toggle switch turned 'On', and 'Web Session Timeout' with a numeric input field set to '10' and a unit label 'minute(s) (10-1000)'.

5. Click **Save**.

♥ 10.2 Modify System Time

VIGI camera provides two methods to modify the system time. NTP (Network Time Protocol) can automatically get the system time from the internet, or you can manually set the system time. You can also select the time zone according to your region, and configure the DST settings. To configure these settings, go to **Settings > System Settings > Date**.

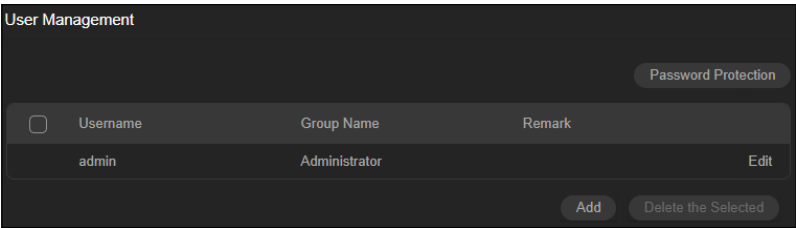


The screenshot shows the 'Date' settings page with a dark background. At the top, there are two tabs: 'Basic Settings' and 'Date'. The 'Date' tab is active. Below the tabs, there are several settings: 'Time Zone' with a dropdown menu showing '(UTC+08:00) Taipei', 'Device Time' with a text input field showing '2024-11-27 15:26:29', 'Time Settings' with a dropdown menu showing 'NTP', 'Server Address' with a dropdown menu showing 'Auto' and a label '(Optional)', 'Interval' with a numeric input field set to '60' and a unit label 'minute(s)', and 'DST' with a dropdown menu showing 'Auto'. At the bottom, there is a message: 'The Time Zone you selected do not have DST'. A 'Save' button is located at the bottom right.

♥ 10.3 Manage User Accounts

You can modify the default user account (admin) based on your needs. The Administrator user name is admin and the password is set when you set up your camera for the first time.

1. Go to **Settings > System Settings > User Management**.



2. Click **Add**. Enter Username, select User Group, and enter Password. Assign remote permission to users based on needs.

The screenshot shows the 'Add New User' form. It has the following fields and sections:

- Username:** A text input field.
- User Group:** A dropdown menu currently set to 'Operator'.
- Permission List:** A section with two columns of checkboxes. The first column contains 'Event' (checked), 'PTZ' (checked), 'System' (checked), and 'Smart' (unchecked). The second column contains 'Camera' (checked), 'Network' (checked), 'Storage' (checked), and 'Application' (unchecked).
- Password:** A text input field.
- Confirm Password:** A text input field.
- Remark:** A text input field.
- Buttons:** 'Cancel' and 'Save' buttons at the bottom.

Administrator

The administrator has the authority to all operations and can add users and operators and assign permission.

Operator

Operators can be assigned all permission except for operations on the administrator and creating accounts.

User

Users can be assigned permission of viewing live video, setting PTZ and event parameters, and changing their own passwords, but no permission for other operations.

3. Click **Edit** to change your username and password. Click **Save** when you are done..

Edit User

Username: admin

User Group: Administrator

Permission List

☒ Event	☒ Camera
☒ PTZ	☒ Network
☒ System	☒ Storage
☐ Smart	☐ Application

Change Password: ☐

Remark:

Cancel Save

4. Click **Password Protection** for account security settings. You can reset the password by setting the security question or email. You can click Forget Password and answer the security question to reset to reset the admin password when access the device via browser. After setting the email, you can receive the verification code during the recovering operation process.

Account Security

Password:

Security Question

Security Question 1: Your father's name

Answer:

Security Question 2: Your mother's name

Answer:

Security Question 3: Your head teacher's name in s...

Answer:

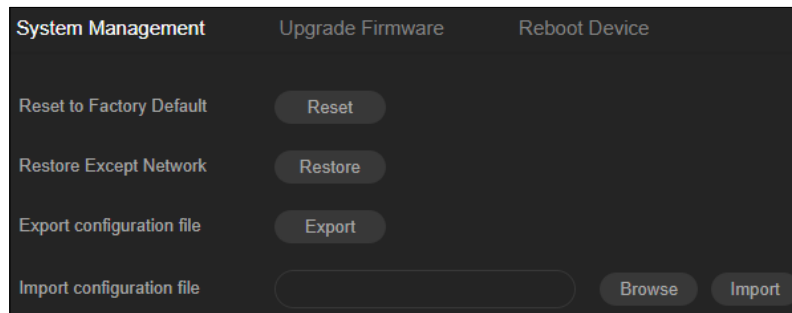
Recovery Email

Recovery Email:

Cancel Save

♥ 10.4 System Management

You can reset the camera to factory default settings, import and export the configuration file of your camera. To configure these settings, go to **Settings > System Settings > System Management**.



To reset all the parameters to the factory default, click **Reset**.

To reset device parameters, excluding network settings, to the factory default, click **Restore**.

Note:

To export the configuration file, click **Export**.

To import the configuration file, click **Browse** to select your file, then click **Import**.

♥ 10.5 Upgrade Firmware

TP-Link aims at providing better network experience for users. We will inform you through the web management page if there's any update firmware available for your camera. Also, the latest firmware will be released at the TP-Link official website www.tp-link.com, and you can [download](#) it for free.

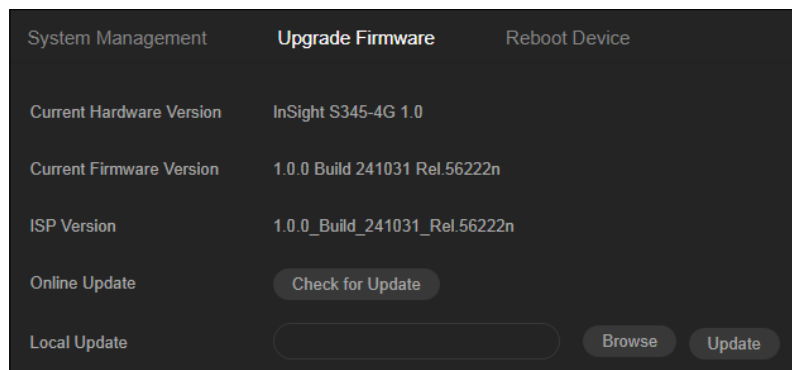
Note:

- Backup your camera configuration before firmware upgrade.
- Do NOT power off the camera during the firmware upgrade.

10.5.1 Online Upgrade

1. Go to **Settings > System Settings > System Management > Upgrade Firmware**.

2. Click **Check for Update** to see whether the latest firmware is released.



3. Navigate to the **Online Upgrade** section, and click **Upgrade** if there is new firmware.
4. Wait a few minutes for the upgrade and reboot to complete.

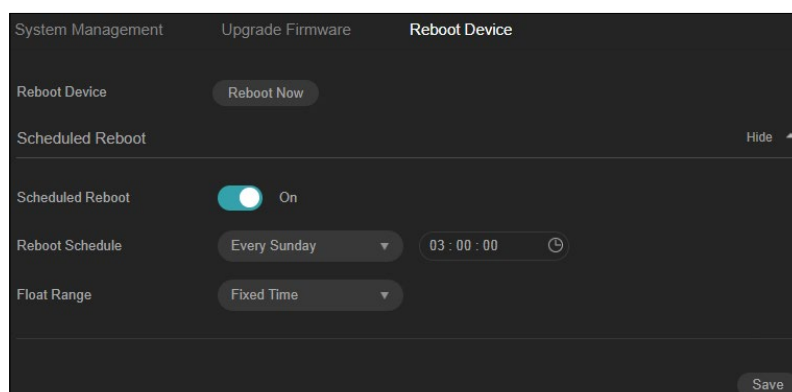
10.5.2 Local Upgrade

1. Download the latest firmware file for the camera from www.tp-link.com.
2. Go to **Settings > System Settings > System Management > Upgrade Firmware**.
3. Click **Browse** to locate the downloaded new firmware file, and click **Update**.
4. Wait a few minutes for the upgrade and reboot to complete.

♥ 10.6 Reboot Device Regularly

The Scheduled Reboot feature cleans the cache to enhance the running performance of the camera.

1. Go to **Settings > System Settings > Reboot Device**.
2. Enable **Scheduled Reboot**.
3. Select the day and time and click **Save** to save your settings. Then your camera will reboot regularly at a specific time.



Note: You can click **Reboot Now** to reboot the camera immediately.