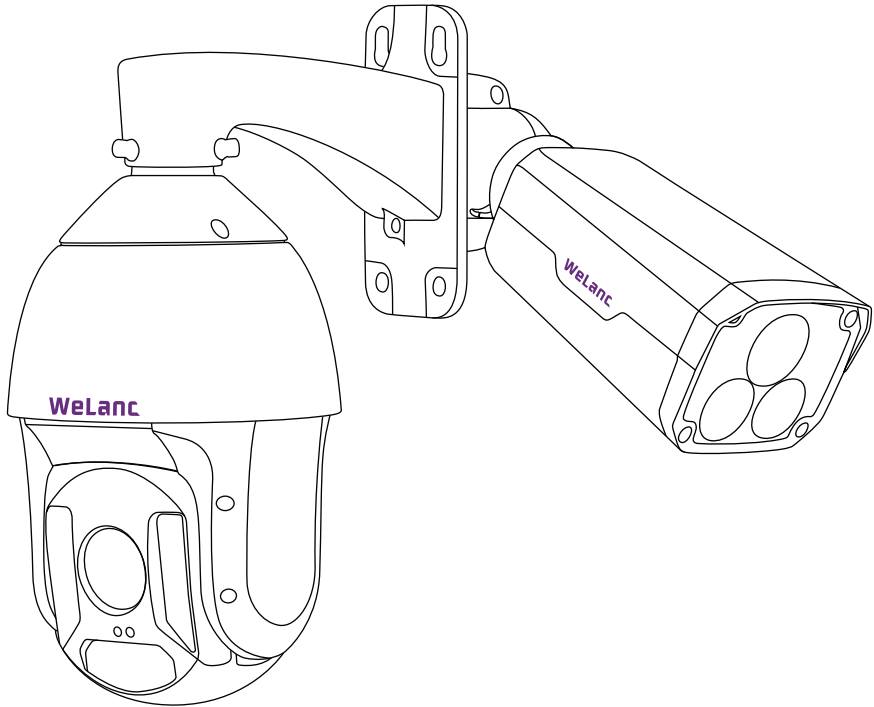


WeLanc[®]

IP Network Camera

User Guide



Version 1.2

2019.8

FCC Verification (U.S.A)

The device has been tested and complies with with limits set by Part 15 of Federal Communication Commission (Class B).

The operation of the device is thus limited by the following two conditions:
1) it might not cause harmful interference to any authorized radio communica-
tions, and 2) it must accept any interference it received.

Audio Monitoring Disclaimer

US Code, Title 18. Sec. 2510 & 2511 (2) (d) prohibits audio monitoring unless there are public signs posted giving clear indication that the commu-
nication is being monitored. Therefore, it is required to exhibit posting of
signage, a disclaimer, on the public entrances and exits, notifying all that
“Audio Monitoring on These Premises.”

WeLanc provides such warning decal along with every IP camera. It is the
responsibility of user to clearly post the decal and verify State law to
guarantee any deployment compliance.

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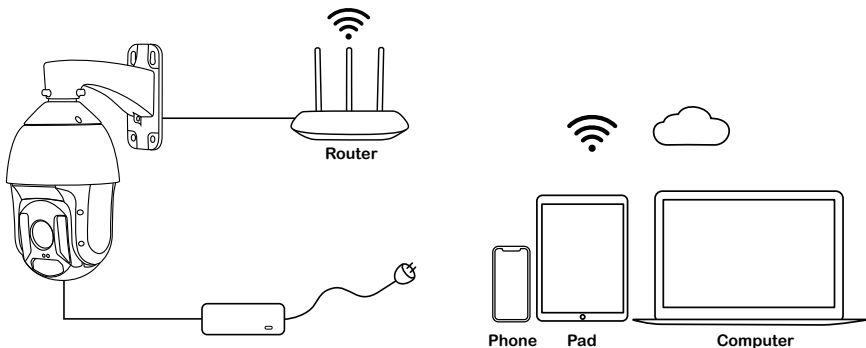
1.Connection and Installation

1.1 Connection

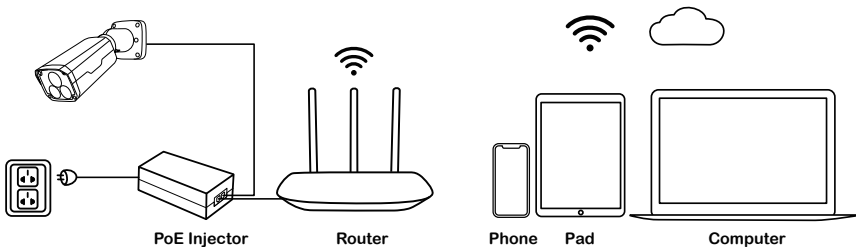


WARNING! It is important to perform a pre-installation test (bench-test) indoor prior to outdoor installation.

The camera can be powered by a DC12V power adapter (came with the package) and transmit video data using a network cable to a router/switch.



The camera can also be connected to a PoE injector/switch which would let the network cable supply both power and data connection.

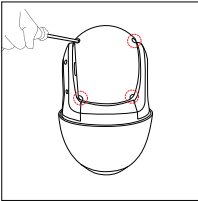


WeLanc PTZ camera requires the PoE adapter (switch/injector) to support IEEE 802.3at standard, which is also known as PoE+.

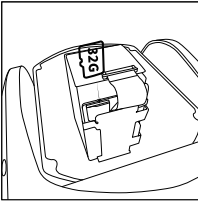
1.2 Micro SD Card Installation

WeLanc IP camera comes with a built-in micro SD card slot that can store videos and snapshots.

Pan Tilt Zoom Camera

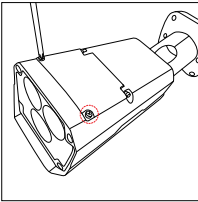


- 1 Remove the 4 screws to take off the camera back cover.

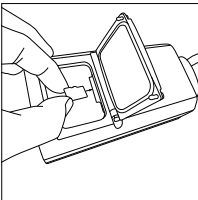


- 2 Insert the TF card as directed by the arrow.

Bullet Camera



- 1 Remove the 4 screws located on the top of the camera.



- 2 Open the top cover, and insert the TF card as directed by the arrow.

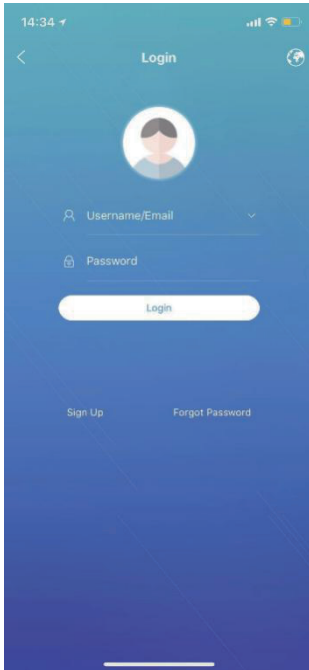
2.Login and Live View


2.1 Smartphone

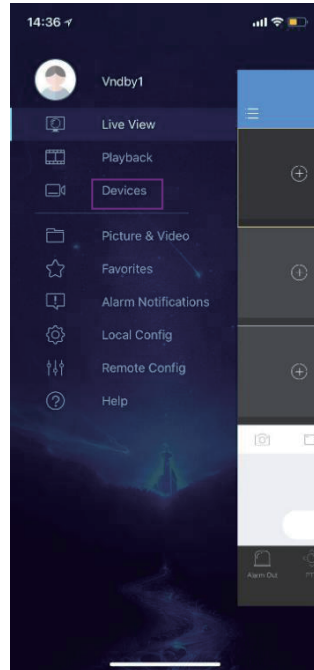
- ① Download Guard Viewer App

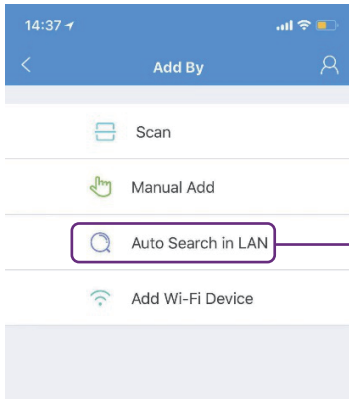


- ② Sign up a cloud account. Select "international" service zone if asked.

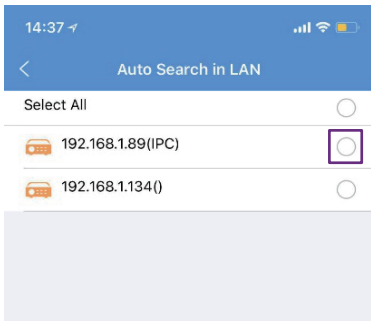


- ③ Tap  to show the sidebar, and go to the **Devices** option to add device:

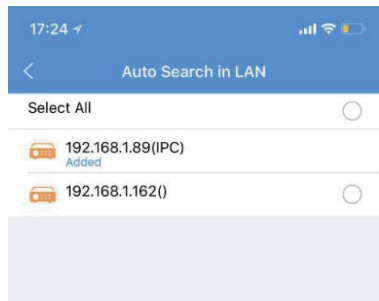


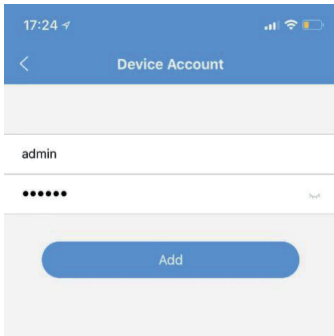


④ You can add device by **Auto Search in LAN** if your smartphone is connected to the same network as the camera. Select the device that you want to add.



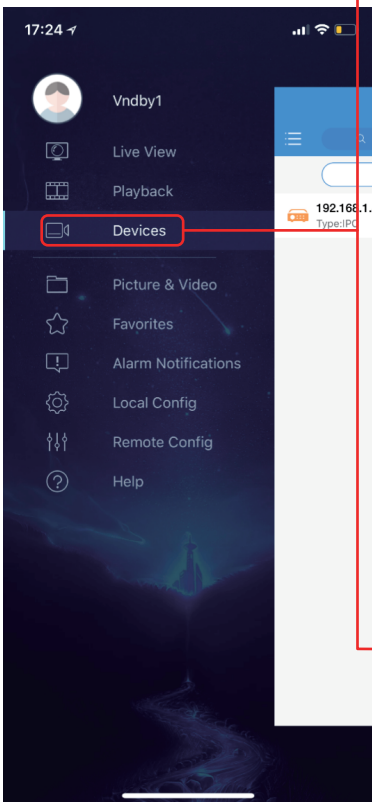
Note: Auto LAN search only works if the http port of the camera remains unchanged (default 80). If the http port has been changed, the camera can only be added manually with its corresponding new port.

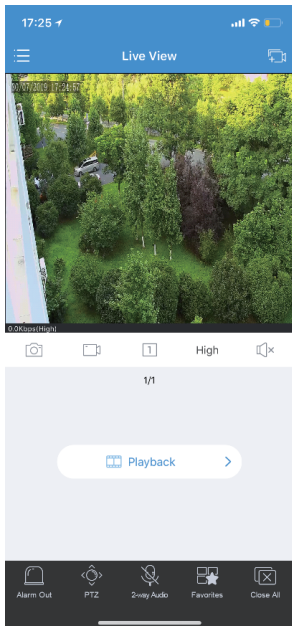




⑤ Enter the username and password of the camera. The default account is admin/123456.

⑥ Go back to the Device list from the side bar, tap the device that was just added and select “Start Live View”.



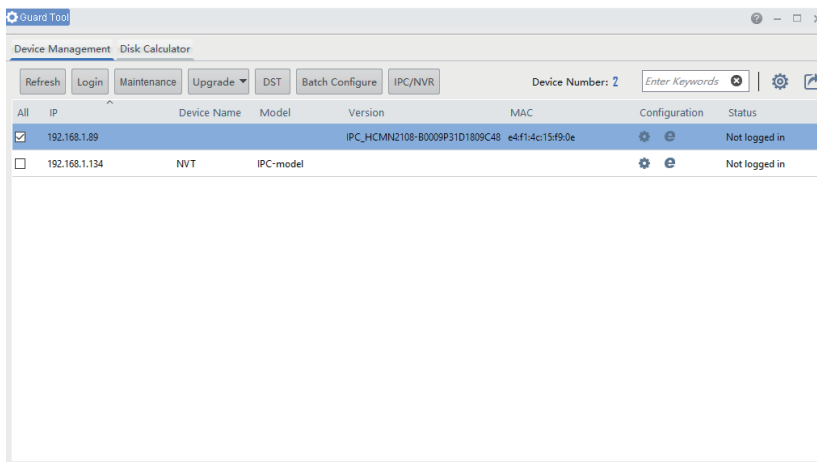


You can control pan tilt zoom, call preset, check TF card status and playback from the app. For details on how to use the smartphone app, please visit: <http://app.welanc.com>

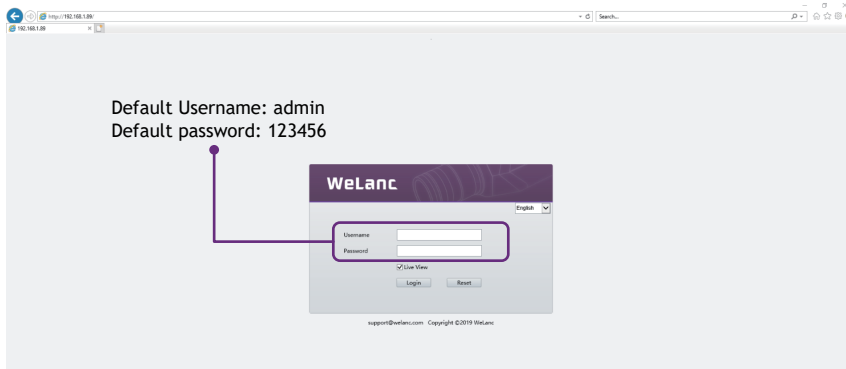
2.2 Web Browser

[Windows] Use Guard Tool to identify the IP address of the camera.

[Mac] Use Guard Station (Device Management) to identify the IP address of the camera.



- ② Then you can go to web browser and input the url address of the camera with the “<http://>” prefix. For example, <http://192.168.1.89>



You can login using the credential above and set a customized password later.

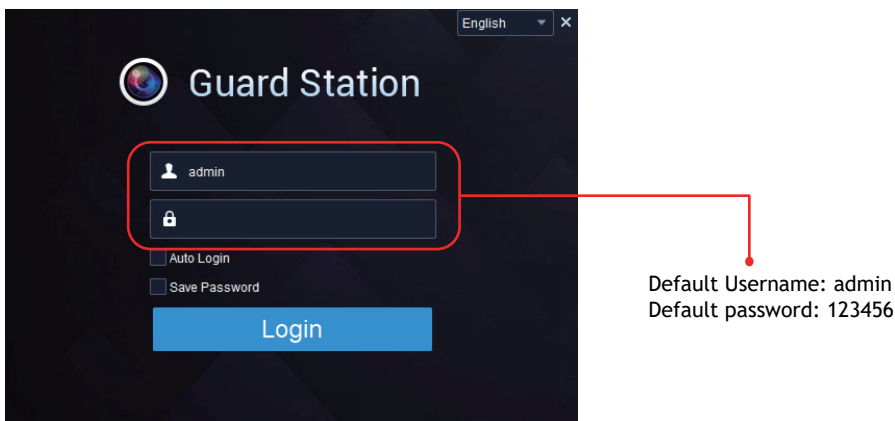
You would be prompted to install the web plugin of the camera if you are using Internet Explorer. Safari only supports up to version 11 with plugin.

Alternatively, you are able to manually download the web plugin from WeLanc website: <https://welanc.com/download/>

Chrome and Firefox don't require you to install a web plugin but would only work with internal http port value 80, and doesn't currently support record playback. More browser integration will be supported through future firmware upgrade.

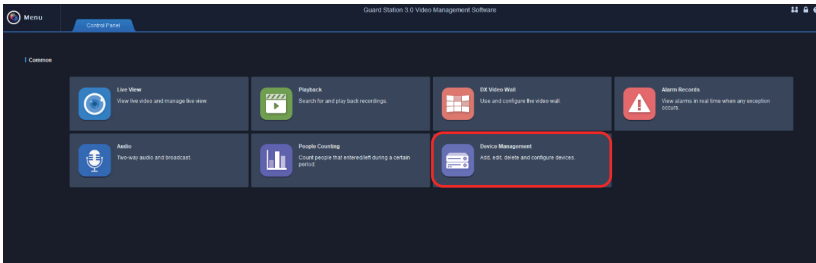
2.3 Guard Station Client Tool (Mac & Windows)

- ① Install Guard Station client.

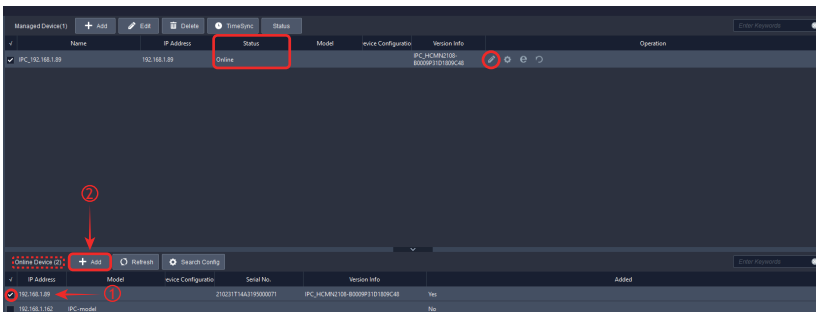



The client credential is set to **protect unauthorized access to the surveillance software/data**, and is **NOT** the same credential for the IP camera.

- 2 Please proceed to the **“Device Management”** tab to add your IP camera to the client software:

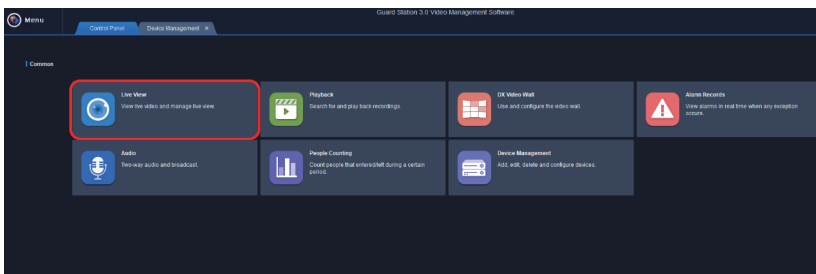


- 3 The IP camera should automatically display under **“Online Device”** on the lower section. Select the camera, and click **“+Add”** to add the camera to the upper section.



- The camera should show **“online”** status if it has been successfully connected to the Guard Station client, otherwise please click the **pencil icon**  to modify values to establish a successful connection.

- 4 Please go to the **Live View** section under **Control Panel**:



⑤ Double click the device name on the list to enable live viewing:



3. Network Setting

3.1 Change IP and fix the IP address of the camera

Click Setup > Network > Network.

Ethernet

Obtain IP Address: Static

IP Address: 192.168.1.89

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

IPv6

IPv6 Mode: Manual

IPv6 Address: [Empty]

Prefix Length: 64

Default Gateway: [Empty]

MTU: 1500

Port Type: FE Port

Operating Mode: Auto-negotiation

Save

Select Static from the Obtain IP Address drop-down list.

Enter the IP Address, Subnet Mask, and Default Gateway address you would like to modify. Make sure the IP address of the camera is unique on the network.

Click Save.

Modify the settings as required. The following table describes some major parameters.

3.2 Port Configuration

Click Setup > Network > Port.

Port	Port Mapping
HTTP Port	<input type="text" value="80"/>
HTTPS Port	<input type="text" value="443"/>
RTSP Port	<input type="text" value="554"/>

Note: Modifying the RTSP port number will cause the device to restart.

- The HTTP port has default value of 80, and if you change the default HTTP port, the url for logging into the camera must be <http://IP:HTTP Port>.



For WeLanc IPC, HTTP port is equivalent to the ONVIF port. Please note all ports must have unique value to each other.

3.3 Email Alert

Sender	
Name	<input type="text"/>
Address	<input type="text"/>
SMTP Server	<input type="text"/>
SMTP Port	<input type="text" value="25"/>
TLS/SSL	<input type="radio"/> On <input checked="" type="radio"/> Off
Snapshot Interval(s)	<input type="text" value="2"/> <input checked="" type="checkbox"/> Attach Image
Server Authentication	<input checked="" type="radio"/> On <input type="radio"/> Off
Username	<input type="text"/>
Password	<input type="password"/>
Recipient	
Name1	<input type="text"/>
Address1	<input type="text"/> <input type="button" value="Test"/>
Name2	<input type="text"/>
Address2	<input type="text"/> <input type="button" value="Test"/>
Name3	<input type="text"/>
Address3	<input type="text"/> <input type="button" value="Test"/>

① Click Setup > Network > E-mail.

- ② After the configuration of E-mail, when alarms are triggered, the camera will send messages with alarm snapshots to the specified E-mail address.
- ③ Configure relevant parameters of the sender and the recipient. You may send a test email after setting the recipient address. The following table describes some major parameters.

Parameter	Description
TLS/SSL	When enabled, the e-mail will be encrypted using TLS (Transport Layer Security) or Secure Socket Layer (SSL) to protect privacy. First it tries to send through an SSL connection. If the SMTP server supports SSL, the e-mail will be sent through the SSL connection; otherwise, it tries to send using STARTTLS.
Attach Image	When enabled, the e-mail will contain 3 instant snapshots as attachment according to the number you set via Capture Interval.
Username/ Password	Username and password of the registration email address. The password allows the following special characters \ / : * ? ' " < > % &

- ④ Click **Save**.

3.4 FTP Alert

Click Setup > Storage > FTP.

There are two sections of FTP upload.

The **general FTP configuration** is for snapshots (except for face detection) saved through the general alarm events. The **smart FTP configuration** is for uploading snapshots taken from smart events such as face capture.

After the configuration of FTP, you will be able to upload snapshots from network cameras to the specified FTP server.

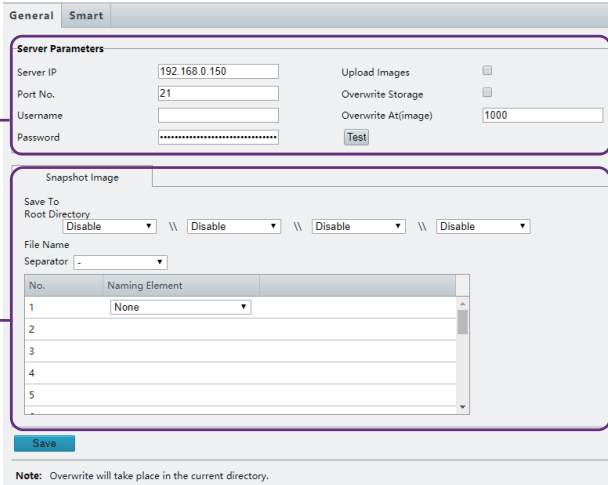
Restrictions on FTP entries:

- 1.The FTP server must be in numeric format (IP) and doesn't support domain as input.
- 2.The password of FTP doesn't support special characters.

1 General

① Click **Setup > Storage > FTP**. Go to **General** tab.

② Set the **IP address** and **port** for the FTP server, **username** and **password** used to upload images to the FTP server, select **Upload Images**, **Overwrite Storage** and set **Overwrite At** (threshold for overwriting images). Some camera models support FTP test. You may test FTP after completing FTP settings correctly.



General Smart

Server Parameters

Server IP: 192.168.0.150 Upload Images:

Port No.: 21 Overwrite Storage:

Username: Overwrite At(image): 1000

Password: Test

Snapshot Image

Save To Root Directory: Disable \\ Disable \\ Disable \\ Disable

File Name: Separator: -

No.	Naming Element
1	None
2	
3	
4	
5	

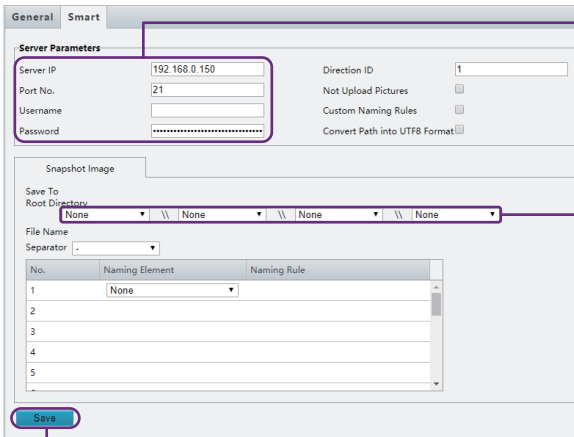
Save

Note: Overwrite will take place in the current directory.

③ Set the path for saving snapshots on the FTP server and the file name format. For example, set path as **Preset No.\\IP Address\\Date\\Hour(s)**, and set file name as **Preset No.-PTZ Zoom-PTZ Latitude-PTZ Longitude.jpg**.

④ Click **Save**.

2 Smart



General Smart

Server Parameters

Server IP: 192.168.0.150 Direction ID: 1

Port No.: 21 Not Upload Pictures:

Username: Custom Naming Rules:

Password: Convert Path into UTF8 Format:

Snapshot Image

Save To Root Directory: None \\ None \\ None \\ None

File Name: Separator: -

No.	Naming Element	Naming Rule
1	None	
2		
3		
4		
5		

Save

① Set the IP address and port of the FTP server, username and password to upload images to the FTP server.

② Set the path for saving snapshots on the FTP server and the file name format. For example, set path as **Preset No.\\IP Address\\Date**, and set file name as **Preset No.-PTZ Latitude-PTZ Longitude-PTZ Zoom.jpg**.



③ Click **Save**.

4.Video and Image Setting

4.1 Video Setting

You can set video parameters that your camera supports. If available, you may also enable sub-stream and third stream as required.

Click Setup > Video & Audio > Video.

Main Stream	
Video Compression	H.264
Resolution	1080P
Frame Rate(fps)	25
Bit Rate(Kbps)	4096 [128~16384]
Bitrate Type	CBR
Image Quality	Bit Rate Quality 
I Frame Interval	50 [5 ~ 250]
GOP	IP
Smoothing	Clear Smooth 
SVC	<input type="radio"/> On <input checked="" type="radio"/> Off
Smart Encoding	Off

Parameter	Configuration
Video Compression	<p>Three options: H.265, H.264 and MJPEG.</p> <p>Note: The bit rate changes to the default when you change the setting between H.264 and H. 265. The default bit rate for H.265 is half of that for H.264. Video Image Quality cannot be set when Video Compression is set to H.265 or H.264. When Compression set to MJPEG, only three frame rates are available: 1, 3 and 5; and Bit Rate, I Frame Interval, Smoothing and U-Code cannot be set.</p>
Frame Rate	<p>Frame rate for encoding images. Unit: FPS (frame per second).</p> <p>Note: To ensure image quality, note that the frame rate should not be greater than the reciprocal of shutter speed.</p>
Bitrate Type	<p>CBR: Constant Bit Rate, which means that the camera transmits data at a constant data rate.</p> <p>VBR: Variable Bit Rate, which means that the camera adjusts the bit rate dynamically according to image quality.</p>
Image Quality	<p>When Encoding Mode is VBR, you can move the slider to adjust quality level for images. Moving the slider toward Bit Rate decreases the bit rate and may affect image quality. Moving the slider toward Quality increases the bit rate and improves image quality.</p>
I Frame Interval	<p>Interval at which an I frame is encoded. Normally, a shorter I frame interval offers better image quality but consumes more bandwidth.</p>
GOP	<p>Group Of Pictures in MPEG video encoding. This parameter specifies the order in which intra-frames (I frame) and inter-frames are arranged.</p>
SVC	<p>SVC (Scalable Video Coding) can reduce storage without compromising playback quality.</p>
U-Code	<p>Basic Mode: The actual bit rate is around 3/4 of the set bit rate. Advanced Mode: The actual bit rate is around 1/2 of the set bit rate.</p> <p>Note: When U-Code is enabled, video compression only supports H.264 and H.265. MJPEG is not supported. When U-Code is enabled, the capture mode does not support frame rates higher than 30.</p>

Smoothing	<p>Set the extent of smoothing. Choosing Clear means disabling Smoothing. Moving the slider toward Smooth increases the level of smoothing but will affect image quality.</p> <p>Note: In a poor network environment, you can enable smoothing to get more fluent video.</p>
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4.2 Image Setting

1 Image Enhancement

- 1 Click Setup > Image > Image and then click Image Enhancement.



- 2 Use the sliders to change the settings. You may also enter values directly. The following table describes some major parameters.

Item	Description
Brightness	Set the degree of brightness of images.
Saturation	The amount of a hue contained in a color.
Contrast	Set the degree of difference between the blackest pixel and the whitest pixel.
Sharpness	Contrast of boundaries of objects in an image.

2 Exposure

① Click Setup > Image > Image and then click Exposure.

Exposure

Exposure Mode	Automatic
Shutter(s)	1/100
Gain	0
Slow Shutter	<input type="radio"/> On <input checked="" type="radio"/> Off
Slowest Shutter	1/12
Compensation	<input type="range"/> 0
Metering Control	Center-Weighted Average Metering
Day/Night Mode	<input type="radio"/> Automatic <input checked="" type="radio"/> Day <input type="radio"/> Night
Day/Night Sensitivity	Medium
Day/Night Switching(s)	3
WDR	Off
WDR Level	<input type="range"/> 5
Suppress WDR Stripes	<input type="radio"/> On <input checked="" type="radio"/> Off
WDR Open Sensitivity	<input type="range"/> 5
WDR Close Sensitivity	<input type="range"/> 5

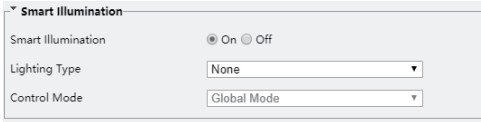
- ② Set the parameters as required. The following table describes some major parameters.

Parameter	Description
Exposure	Select the correct exposure mode to achieve the desired exposure effect. Automatic: The camera automatically adjusts exposure according to the environment. Custom: The user sets exposure as needed. Indoor 60Hz: Reduce stripes by limiting shutter frequency. Manual: Finetune image quality by setting shutter, gain and iris manually. Low Motion Blur: Control the minimum shutter to reduce motion blur in faces captured in motion.
Shutter	Shutter is used to control the light that comes into the lens. A fast shutter speed is ideal for scenes in quick motion. A slow shutter speed is ideal for scenes that change slowly. Note: You can set a shutter speed when Exposure Mode is set to Manual or Shutter Priority. If Slow Shutter is set to Off, the reciprocal of the shutter speed must be greater than the frame rate.
Gain (dB)	Control image signals so that the camera outputs standard video signals according to the light condition. Note: You can set this parameter only when Exposure Mode is set to Manual or Gain Priority.
Slow Shutter	Improves image brightness in low light conditions. Note: You can set this parameter only when Exposure Mode is not set to Shutter Priority and when Image Stabilizer is disabled.
Slowest Shutter	Set the slowest shutter speed that the camera can use during exposure. Note: You can set this parameter only when Slow Shutter is set to On.
Compensation	Adjust the compensation value as required to achieve the desired effects. Note: You can set this parameter only when Exposure Mode is not set to Manual.
Metering Control	Set the way the camera measures the intensity of light. Center-Weighted Average Metering: Measure light mainly in the central part of images. Evaluative Metering: Measure light in the customized area of images. Highlight compensation: Ignore the brightness of the

	<p>overexposed area of images. But selecting this setting will decrease the overall brightness of the image.</p> <p>Face Metering: Adjust image quality in poor lighting conditions by controlling the brightness of captured face in Face scene.</p> <p>Note: You can set this parameter only when Exposure Mode is not set to</p>
Day/Night Mode	<p>Automatic: The camera outputs the optimum images according to the light condition. In this mode, the camera can switch between night mode and day mode automatically.</p> <p>Night: The camera provides high-quality black and white images using the existing light</p> <p>Day: The camera provides high-quality color images using the existing light.</p>
Day/Night Sensitivity	<p>Light threshold for switching between day mode and night mode. A higher sensitivity means that the camera is more sensitive to the change of light and becomes more easily to switch between day mode and night mode.</p> <p>Note: You can set this parameter only when Day/Night Mode is set to</p>
Day/Night Switching(s)	<p>Set the length of time before the camera switches between day mode and night mode after the conditions for switching are met.</p> <p>Note: You can set this parameter only when Day/Night Mode is set to Automatic.</p>
WDR	<p>Enable WDR to distinguish the bright and dark areas in the same image.</p> <p>Note: You can set this parameter only when Exposure Mode is neither Customize nor Manual and when Image Stabilizer is disabled.</p>
WDR Level	<p>After enabling the WDR function, you can improve the image by adjusting the WDR level.</p> <p>Note: Use level 7 or higher when there is a high contrast between the bright and dark areas of the scene. In the case of low contrast, it</p>
Suppress WDR Stripes	<p>When enabled, the camera can automatically adjust slow shutter frequency according to the frequency of light to minimize stripes that may appear in images.</p>

3 Smart Illumination

- Click Setup > Image > Image and then click Image Enhancement.

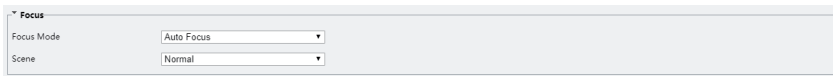


- Select the correct IR control mode and set the parameters. The following table describes some major parameters.

Parameter	Description
Lighting Type	<p>Infrared: The camera uses infrared light illumination.</p> <p>White Light: The camera uses white light illumination (only for cameras support white light).</p> <p>Note: When Control Mode is set to Manual, camera can set illumination level from 0-1000.</p>
Control Mode	<p>Global Mode: The camera adjusts IR illumination and exposure to achieve balanced image effects. Some areas might be overexposed if you select this option. This option is recommended if monitored range and image brightness are your first priority.</p> <p>Overexposure Restrain: The camera adjusts IR illumination and exposure to avoid regional overexposure. Some areas might be dark if you select this option. This option is recommended if clarity of the central part of the image and overexposure control are your first priority.</p> <p>Road: This mode offers strong illumination in whole and is recommended for monitoring wide-ranging scenes, for example, road.</p> <p>Park: This mode offers uniform light and is recommended for monitoring small range scenes with many obstacles, for example, industrial parks.</p> <p>Manual: This mode allows you to manually control the intensity of IR illumination.</p> <p>Indoor: This mode is recommended for application in indoor scenes.</p>
Illumination Level	<p>Set the intensity level of the IR light. The greater the value, the higher the intensity. 0 means that the IR light is turned off.</p> <p>Near-illumination Level: You are recommended to set this parameter first for a wide-angle scene.</p> <p>Mid-illumination Level: You are recommended to set this parameter first if the scene requires an intermediate focal length.</p> <p>Far-illumination Level: You are recommended to set this parameter first if the scene requires a telephoto view.</p> <p>Note: You can set this parameter only when Control Mode is set to Manual.</p>

4 Focus

- 1 Click Setup > Image > Image and then click Focus.



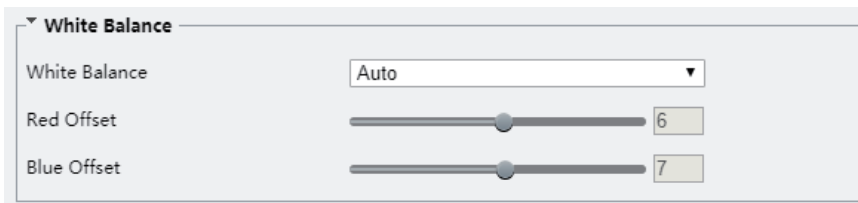
- 2 Select the focus mode as required.

Parameter	Description
Focus Mode	Auto Focus: The camera focuses automatically according to the current light condition. Manual Focus: Manually adjust camera focus as required. One-Click Focus: The camera is triggered to focus once when rotating, zooming or going to a preset. One-Click Focus (IR): In a low light condition such as during night hours or in a dark house, this focus mode achieves better effects with the IR light turned on.
Scene	Normal: Used for common scenes, such as road and industrial park. Long Distance: Used for long-distance monitoring on a road. For example, when the camera is installed over 30 meters high to monitor a distant road intersection.

5 White Balance

White balance is the process of offsetting unnatural color cast in images under different color temperatures so as to output images that best suit human eyes.

- 1 Click Setup > Image > Image and then click White Balance.



- 2 Select a white balance mode as required. The following table describes some major parameters.

Parameter	Description
White Balance	Adjust the red or blue offset of the image: Auto/Auto2: The camera adjusts the red and blue offset automatically according to the light condition (the color tends to be blue). If the images are still unnaturally red or blue in Auto mode, please try Auto2.

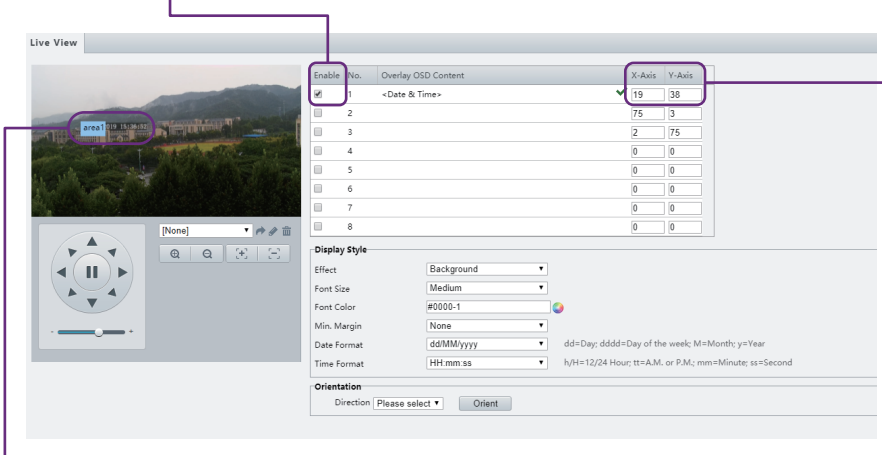
	<p>still unnaturally red or blue in Auto mode, please try Auto2.</p> <p>Fine Tune: Allow you to adjust the red and blue offset manually.</p> <p>Outdoor: Suitable for outdoor environment with a relatively greater color temperature range.</p> <p>Locked: Lock the current color temperature without change.</p> <p>Sodium Lamp: The camera adjusts red and blue offset automatically according to the light condition (the color tends to be red).</p>
Red Offset	<p>Adjust the red offset manually.</p> <p>Note: You can set this parameter only when White Balance is set to Fine Tune.</p>
Blue Offset	<p>Adjust the red offset manually.</p> <p>Note: You can set this parameter only when White Balance is set to Fine Tune.</p>

4.3 OSD Setting

On Screen Display (OSD) is the text displayed on the screen with video images and may include time and other customized contents.

- ① Click Setup > Image > OSD.
- ② Users can customize the position, content and display of the text.

To change the position of the OSD text, click the desired box in the Live View area.



After the cursor shape is changed, click and hold the button to move the box to the desired position.

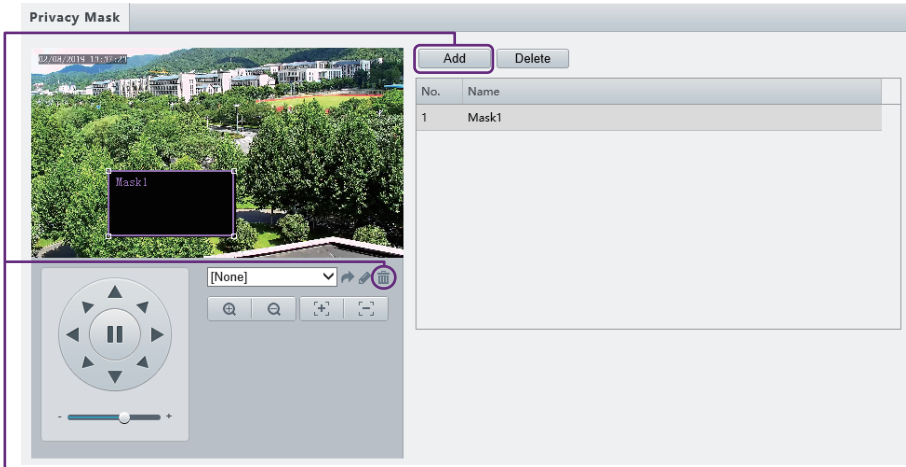
To set the position precisely, input the X-axis and Y-axis under Overlay Area.


To change the text of the OSD, the drop-down list of **Overlay OSD Content** provides Time, Preset and Serial Info. You may also select Custom and enter the content you want.


Private Mask

On certain occasions, you may need to set a mask area on the camera image to protect privacy. For example, if you are live broadcasting the camera, and have a private zone you don't want to hide from the audience, you can setup a private mask. Alternatively, if the camera is installed at the bank, you may want to hide the ATM keyboard to protect the privacy of customers. You can set up to 8 private mask zones.

① Click **Setup > Image > Privacy Mask**.



② Click **“Add”** to add a privacy mask, and click  to delete a mask.

- **To mask a position:** Click the box (with Mask displayed on it) to activate the mask. Move the cursor to the edge of the box until the cursor shows , drag the box to the intended position.
- **To mask an area:** Use the mouse to draw a box on the area you want to mask.
- **To delete an area:** Click the mask on the list, and click **“delete”**.

When privacy mask is configured, the intended area is blocked.

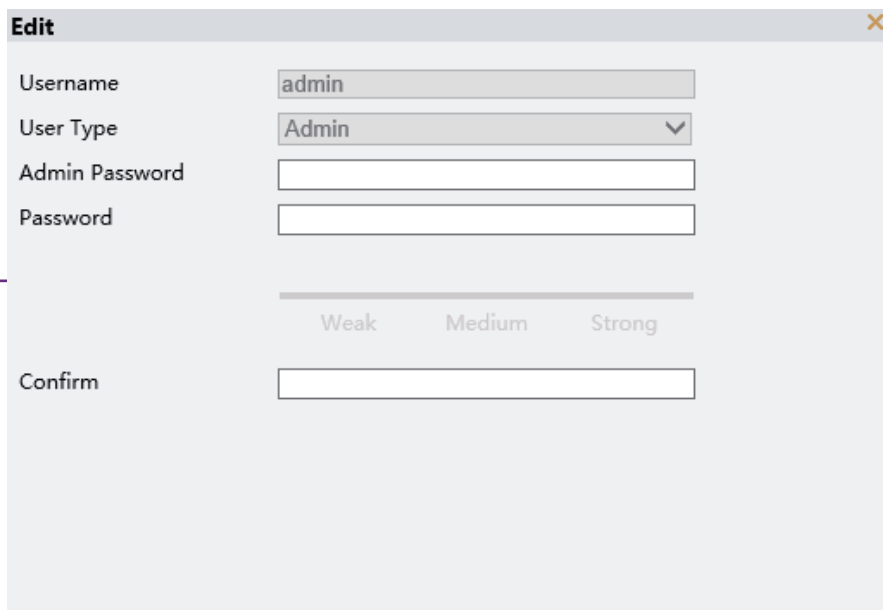
5.Account Management

Click **Common > User**.

The camera comes with the default account as follows:

Username: admin
Password: 123456

To modify the password of the account, select the user on the list and click “Edit”. You will be asked to enter your Admin main password in order to assign a new password to the account.



The screenshot shows a web interface titled "Edit" with a close button (X) in the top right corner. The form contains the following fields:

- Username:** A text input field containing the value "admin".
- User Type:** A dropdown menu currently set to "Admin".
- Admin Password:** A text input field.
- Password:** A text input field.
- Confirm:** A text input field.

Below the Password and Confirm fields, there is a horizontal bar with three segments labeled "Weak", "Medium", and "Strong", representing a password strength indicator.



There are two types of users in the system:

1. **Administrator:** referred to as “admin” in this manual. The default name of the administrator is admin, which cannot be modified. Admin has full permission and can manage all users and devices. Only one admin user is allowed in the system.
2. **Common user:** referred to as “user” in this manual. User only has permission to play live and recorded video. Up to 32 common users are allowed in the system.

You can add a user on the user management interface (under Setup > Security > User).

After the user is added successfully, you can change the password by entering the new password or delete the user by clearing the username.

6.Preset and Patrol



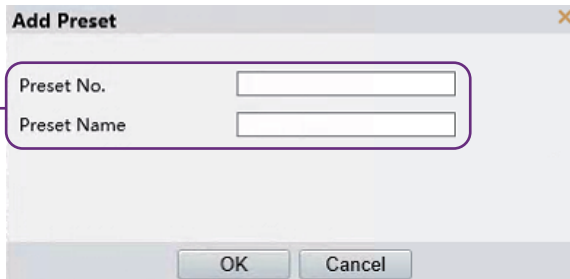
The following section is only for WeLanc pan, tilt, zoom cameras.



6.1 Preset



Presets are sets of locations that the camera can memorize and travel to directly when being called. It is available only in pan, tilt and zoom cameras. Each preset location will correspond to a number from the preset list. You can also add text notes for each preset location.

In order for the camera to go to the designated location, you must first “add” a preset, and then “call” it.

To set a preset location, control the PTZ panel and have the camera point to the desired location, then click “Add.” A window will pop out, and you can assign a number and add a name to this specific preset location.



The number and preset name will appear under the preset list. Move the cursor to the preset, and click “” to call the preset. Click “” to delete the preset.

Preset	Patrol
1 [Garage]	 

6.2 Patrol

A patrol is the process of travelling through each preset location with designated order (for example, from preset 1 to 10) and dwell time at each preset.


A patrol is also known as a cruise or a tour.

There are two methods of setting up the patrol after you have defined the corresponding location preset.

1 Use Special Preset

First, please add preset 88-91. Then call preset 88-91 to start the patrol. A special preset doesn't correspond to a location (it doesn't memorize preset position), but a command that the PTZ camera will follow. Below is the special preset list for patrol.

88	Call	Run the patrol for preset 1-10
89	Call	Run the patrol for preset 11-20
90	Call	Run the patrol for preset 21-30
91	Call	Run the patrol for preset 31-40

Click “” to call the preset.

2 Add a Patrol Route

① Click **Patrol** on the control panel, and click “+” on lower right corner.

② On the Add Patrol page, enter the **route ID** and **name**, and then click **Add** to add a patrol action.

Add Patrol

Route ID: 1
Route Name: Back Yard
Add Delete Added 0/64

Action Type	Speed	Keep Rotating	Duration(ms)/Ratio	Preset	Stay Time(ms)

OK Cancel

When action type is set to Go to Preset, up to 64 actions are allowed.
When action type is set to Move Direction and Zoom, only 32 actions are allowed.

Thus, a patrol action created from the patrol panel include:

- Go to a preset and stay for a certain amount of time before going to the next preset.
- Rotate at the set speed in the set direction for a certain amount of time, zoom and stay at a set position for a certain amount of time, or patrol repeatedly if Keep Rotating is selected.

Note: Guard Station only allows “go to preset” to be set as the actions of patrol. If you want to add versatile actions such as move directions/zooms, it is recommended to use the web interface (Chrome/Firefox/IE).

6.3 Special Preset List

Note: Even though special preset doesn't correlate to a location, you still have to "add" the preset first to the preset list and then "call" it. 78989

Preset Number	Command	Description
81	Call	Calibrate camera horizontal and vertical position. Perform 81+call when the camera stuck in position and cannot pan/tilt further within its claimed range.
81	Set	Set the left boundary for auto scan
82	Set	Set the right boundary for auto scan
82	Call	Run the auto scan (you must set a left and right scan boundary first)
83	Call	Clear all presets
88	Call	Run the patrol for preset 1-10
89	Call	Run the patrol for preset 11-20
90	Call	Run the patrol for preset 21-30
91	Call	Run the patrol for preset 31-40
92	Call	Reset the mainboard to factory setting
98	Call	360 degrees automatic scan
100	Call	Turn on the infrared LED manually
101	Call	Turn off the infrared LED manually
102	Call	Automatically turn on/off the infrared LED in response to day/night switch
103	Call	Turn on both sides of the infrared LED manually
97+180	Call	Call preset 97 and preset 180 consecutively to set the PARK ACTION to NONE
97+181	Call	Call preset 97 and preset 181 consecutively to set the PARK ACTION to 360 degrees scan
97+182	Call	Call preset 97 and preset 182 consecutively to set the PARK ACTION to auto scan (you must set the boundary first)
97+183	Call	Call preset 97 and preset 183 consecutively to set the PARK ACTION to Preset 1
97+184	Call	Call preset 97 and preset 184 consecutively to set the PARK ACTION to Preset 8

97+185	Call	Call preset 97 and preset 185 consecutively to set the PARK ACTION to Patrol Group 1
97+186	Call	Call preset 97 and preset 186 consecutively to set the PARK ACTION to Patrol Group 2
97+187	Call	Call preset 97 and preset 187 consecutively to set the PARK ACTION to Patrol Group 3
97+188	Call	Call preset 97 and preset 188 consecutively to set the PARK ACTION to Patrol Group 4
97+160; 97+161; 97+169	Call	Call preset 97 and preset 160 consecutively to set the Park Action Start Time to 15s; Call preset 97 and preset 161 consecutively to set the Park Action Start Time to 16s; (1 second added per preset increment) Call preset 97 and preset 169 consecutively to set the Park Action Start Time to 25s;
97+170; 97+171; 97+179	Call	Call preset 97 and preset 170 consecutively to set the Park Action Start Time to 30s; Call preset 97 and preset 171 consecutively to set the Park Action Start Time to 35s; (5 second added per preset increment) Call preset 97 and preset 179 consecutively to set the Park Action Start Time to 75s;
97+200; 97+201; 97+215	Call	Call preset 97 and preset 200 consecutively to set the Patrol Dwell Time to 10s; Call preset 97 and preset 201 consecutively to set the Patrol Dwell Time to 15s; (5 second added per preset increment) Call preset 97 and preset 215 consecutively to set the Patrol Dwell Time to 85s;
97+225; 97+226; 97+229	Call	Call preset 97 and preset 225 consecutively to set the Frame Scan Speed to 1; Call preset 97 and preset 226 consecutively to set the Frame Scan Speed to 2; (1 speed added per preset increment) Call preset 97 and preset 229 consecutively to set the Frame Scan Speed to 5;

7. Remote Access

7.1 Port Forwarding

Port forwarding enables remote access by mapping traffic through specific ports to specific device on the LAN (Local Area Network).

For WeLanc IP cameras, customers need to forward HTTP Port (80) for live viewing and controlling.

If customers would want to use RTSP live streaming or use 3rd party software that streams over RTSP, then the RTSP port (554) needs to be forwarded as well.

It is recommended to modify the default port for security purpose.

7.2 P2P Cloud

Peer-to-peer cloud is another technology that establishes remote connection with your camera that doesn't require any ports to be opened. Instead, it would form a direct "handshake" between your smartphone and the camera through an authentication server that ensures the device belongs to WeLanc.

Each WeLanc IP camera has a unique P2P Register Code. P2P is supported by smartphone, web interface, and desktop client (Mac & PC).

Users can find the P2P code via Setup->Network->P2P. The register code corresponds to the P2P code.



To protect your privacy, please don't share the QR code with others.

To activate the P2P function, please register a cloud account first. The registration option would be available in each of the following client/app below.

Note: one camera can only be connected to one cloud account. Once connected through P2P, the P2P page will display the current cloud user. You must manually logout the current user before connecting using P2P with another cloud account.

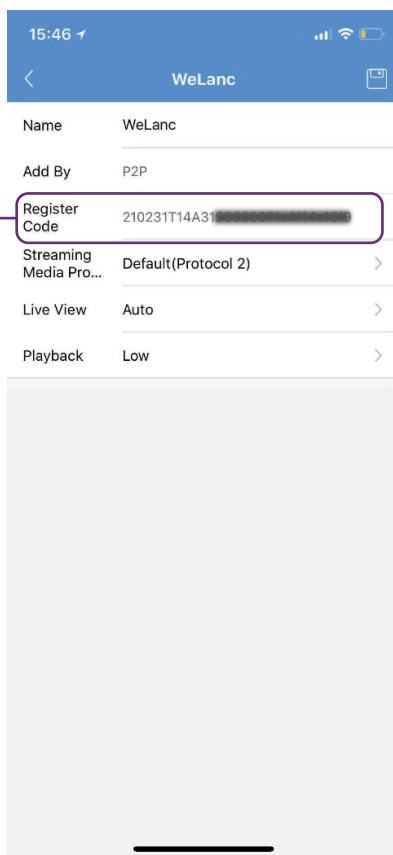
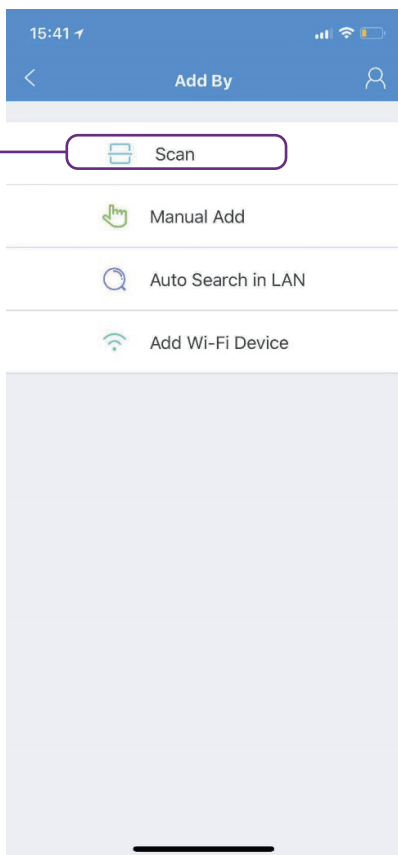
P2P

P2P	<input checked="" type="radio"/> On <input type="radio"/> Off
Quick Add	<input checked="" type="radio"/> On <input type="radio"/> Off
Address	www.star4live.com
Register Code	2H12G4002002H4P402357P8U4P5AM
Device Status	Online <input type="button" value="Logout"/>
Username	Vndby1
Scan	

1 Smartphone

In the Guard Viewer app, please **register** an account first, and then prompt to add device, and select **scan**.

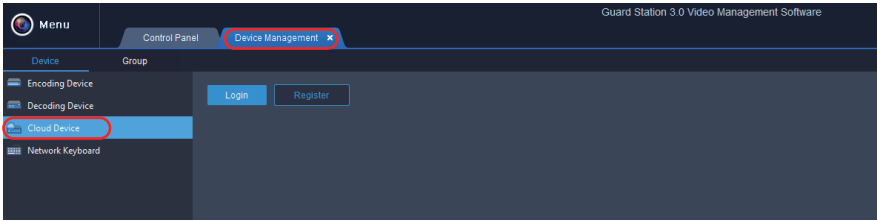
You can scan the QR code found on the webpage to add the camera.



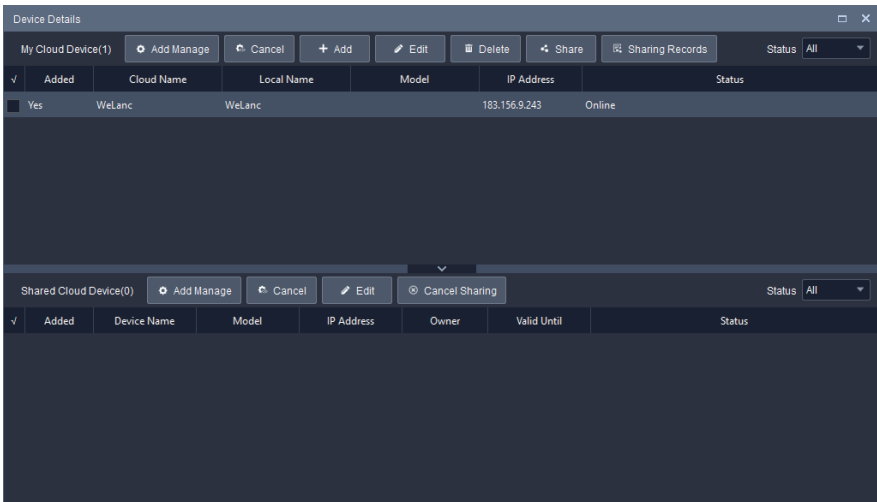
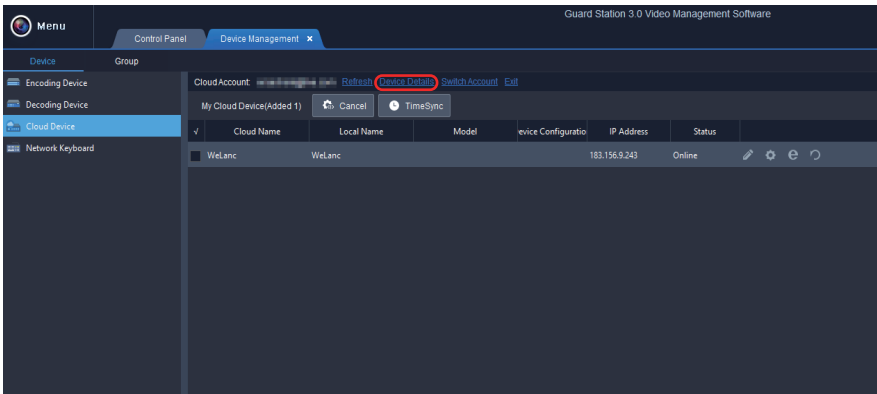
Note: Note: the Register code appeared on the Guard Viewer app might be disguised to protect user privacy.

2 Desktop Client

- 1 In the Guard Station client, go to **Device Management** and select **Cloud Device**.



- 2 Login to your registered cloud account, and any device associated with the cloud ID will show up. Click **Device Details** to add/delete IP camera to your cloud account.



7.3 RTSP Live Streaming

Below is the RTSP url of WeLanc IP camera.

<rtsp://username:password@IP:Port/media/video1>

For example, if the camera has the following parameter:

Username: admin
Password: 123456
IP: 192.168.1.10
RTSP Port: 554

Then the url will be as follows:

<rtsp://admin:123456@192.168.1.10:554/media/video1>

You can use RTSP stream for live viewing, and push the stream using OBS or other 3rd party tools to broadcast over Internet.

7.4 VPN

VPN is currently considered as the most secure way of remote access. For example, the camera installed in London (network A) and you are in your Los Angeles house (network B).

You will need to setup a **VPN server** in London, and connect to the server using a VPN client in Los Angeles. Once connected, you will be able to access the local network in London where the camera is installed.

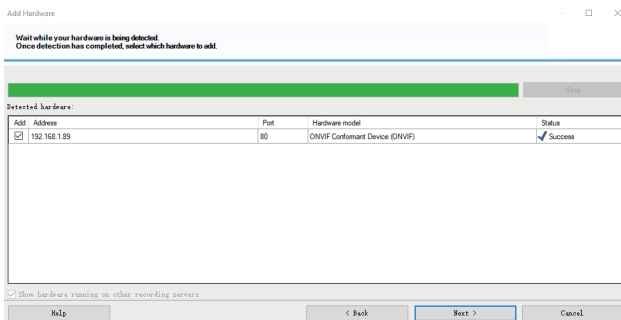
There are many VPN protocols to select from including PPTP, L2TP and OpenVPN etc. Currently, **OpenVPN is one of the most popular protocols.**

Please refer to your router instruction for detailed steps of setting up a VPN server.

8.Third Party Compatibility

All WeLanc cameras are ONVIF compliant with specification 17.12 so it should be compatible with any software that integrates standard ONVIF protocol. Below are examples with some of the most popular 3rd party software.

1 Milestone



Add the IP camera using ONVIF protocol with corresponding ONVIF (http) port 80. Don't forget to enable PTZ function (if your IPC supports PTZ) in Milestone management client.

2 Synology

The screenshot shows the 'Add Camera Wizard' dialog box with the 'Information' tab selected. The fields are filled with the following information:

- Name: ONVIF
- IP address: 192.168.1.89
- Port: 80
- Brand: [ONVIF]
- Camera model: All functions
- Video format: H.264
- Audio format: G711
- Username: admin
- Password: [masked]

There is a 'Test Connection' button with a green checkmark next to it. Below the password field is a 'Load Capability' button with a green checkmark. At the bottom, there are 'Previous', 'Finish', and 'Cancel' buttons. A small video preview window on the right shows a whiteboard with text on it.

3 Blue Iris

The screenshot shows the 'Network IP camera configuration' dialog box. Two annotations are present:

- Annotation 1: A purple circle with the number '1' and the text 'input the camera IP, port, username and password'. A purple line connects this to the 'Address' field (containing 'http://192.168.1.89:80'), the 'User' field (containing 'admin'), and the 'Password' field (containing masked characters).
- Annotation 2: A purple circle with the number '2' and the text 'click "Find/Inspect" to connect.'. A purple line connects this to the 'Find/inspect...' button.

The dialog box contains the following fields and options:

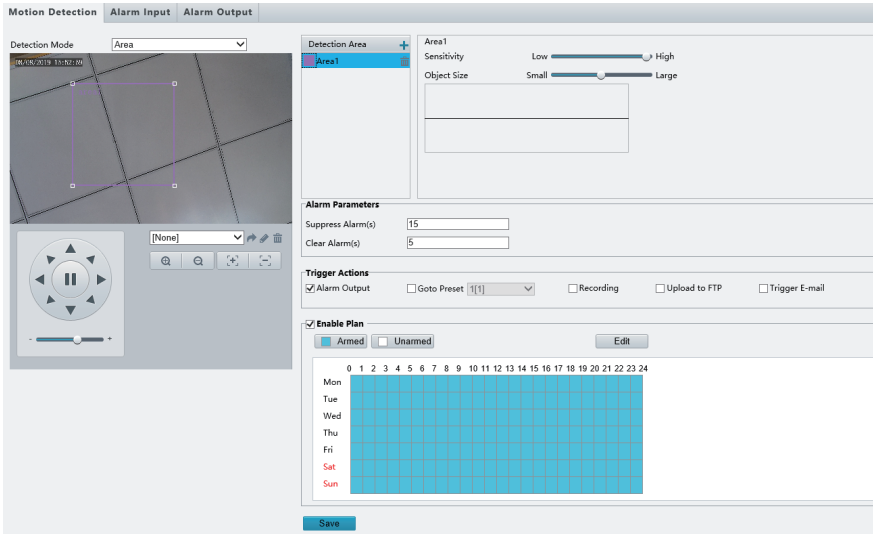
- Address: http:// 192.168.1.89:80 Find/inspect...
- User: admin Password: [masked]
- Make: Generic/ONVIF
- Model: RTSP H.264/H.265/MJPEG/MPEG4
- Media/video/RTSP port: 554
- Discovery/ONVIF port: 80
- Video: Path: /media/video1
- Params: [empty]
- Camera: 1
- Audio: Path: [empty]
- Format: 64 kbps G.711 u-law
- Setup RTSP back-channel for talk support (PCM-U format):
- Network options:
 - Receive buffer (MB): 6.0
 - Use RTP/UDP ports: 7000
 - Send RTSP keep-alives:
 - Use RTSP/stream timestamp:
 - Skip initial HTTP DNS and reachability tests:
 - Decoder compatibility mode:
 - Get events with PullPointSubscription:

Buttons at the bottom: OK, Cancel, Help.

9.Video Motion Detection

Motion detection detects the object motion in a specified rectangular area during a period. You can customize parameters such as a pre-defined detection area, sensitivity of detection, object size, and history for the camera to decide whether to report a motion detection alarm when it detects motion.

Click **Setup > Events > Common Alarm > Motion Detection**.



- **Detection Mode:** You can switch between grid detection and area detection. Area detection allows you to customize the detection object size (see below) for each area and grid detection applies to more uniformly sized moving objects.
- **Object Size:** Object size specifies the minimum ratio of the object's size to the size of the total detection area before an alarm will be reported. That is to say, to detect motion of tiny objects, you need to draw a small box (detection area) in the actual motion area accordingly.
- **Alarm Output:** This only applies if the camera is connected to external 3rd party alarm device.
- **Go to Preset:** When motion alarm triggers, the camera will travel to a specific preset location. For details of setting up preset, please refer to Chapter 6.
- **Suppress Alarm(s):** After an alarm is triggered, the same alarm will not be reported within the set time.
- **Clear Alarm(s):** After an alarm is triggered,
 - a. If the same alarm is not triggered within the set time, the alarm will be cleared and the same alarm can be reported again.
 - b. If the same alarm is triggered within the set time, the alarm will not be cleared until the suppress alarm time expires. Then the same alarm can be reported again.
- **Recording:** Record the motion detection clip to the storage card.

10. Smart Event Configuration

WeLanc IP camera supports various types of intelligent alarms including head count, face capture and line cross detection.


Some detections would interfere with each other, and thus cannot be activated simultaneously. Below is the setup of each type of smart detection:

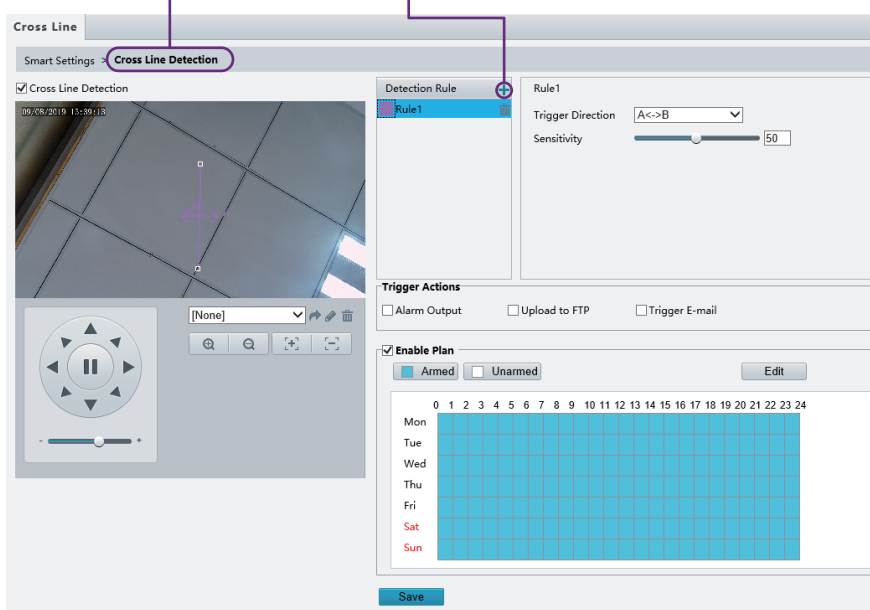
Click Setup > Intelligent > Smart Settings.

10.1 Cross Line Detection

Cross line detection detects objects that cross a virtual line in live video and triggers alarm when such an event is detected.

① Select Cross Line Detection.

② In the Detection Rule area, click  to add a new line. You can set the sensitivity level and the direction of line cross that would trigger an alarm.



Trigger Actions:

- Upload to FTP:** this will send snapshots to FTP server once the alarm is triggered. For details, see Chapter 3.4.
- Trigger E-mail:** this will send an email notification for the alarm along with a snapshot. For details, see Chapter 3.3.

Line cross detection cannot be enabled when either of the **face capture** or **people head counting** is turned on.

10.2 Intrusion Detection

Intrusion detection detects objects that enter a specified area in live video and triggers alarm when such an event is detected.

① Select **Intrusion Detection**.

② In the Detection Rule area, click **+** to add a new detection area. You can set the sensitivity level, time threshold (minimum time the intruder stays in the detection area before the alarm triggers) and the percentage of the object (the minimum ratio of the intruder's size to the size of the specified detection area before an alarm will be reported).

The screenshot shows the 'Intrusion Detection' configuration window. On the left, there's a video feed with a red detection area overlaid. Below the video are playback controls and a dropdown menu set to '[None]'. On the right, the 'Detection Rule' section shows a list with 'Rule1' and a '+' icon. The 'Rule1' configuration panel includes sliders for 'Time Threshold(s)' (set to 1), 'Sensitivity' (set to 50), and 'Percentage' (set to 1). Below this is the 'Trigger Actions' section with checkboxes for 'Alarm Output', 'Upload to FTP', and 'Trigger E-mail'. The 'Enable Plan' section has 'Armed' selected and an 'Edit' button. At the bottom is a 'Save' button and a calendar grid for scheduling.

Trigger Actions:

Upload to FTP: this will send snapshots to FTP server once the alarm is triggered. For details, see Chapter 3.4.

Trigger E-mail: this will send an email notification for the alarm along with a snapshot. For details, see Chapter 3.3.

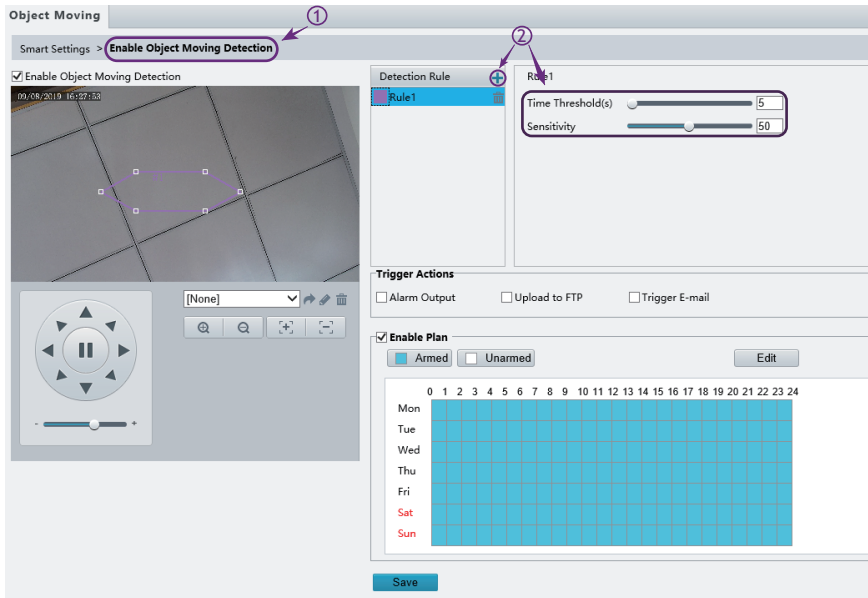
Intrusion detection cannot be enabled when either of the **face capture** or **people head counting** is turned on.

10.3 Object Removing

Detect objects in the specified area and trigger alarms when they were moved.

① Select **Enable Object**.

② In the Detection Rule area, click **+** to add a new detection area. You can set the sensitivity level and time threshold (minimum duration an object is detected in the specified area to trigger an alarm) before the alarm triggers.



Trigger Actions:

Upload to FTP: this will send snapshots to FTP server once the alarm is triggered. For details, see Chapter 3.4.

Trigger E-mail: this will send an email notification for the alarm along with a snapshot. For details, see Chapter 3.3.

Object moving cannot be enabled when either of the **face capture** or **people head counting** is turned on.

10.4 Object Left

Detect unattended objects left behind in a specified area and trigger alarms.

① Select **Enable Object**.

② In the Detection Rule area, click **+** to add a new detection area.

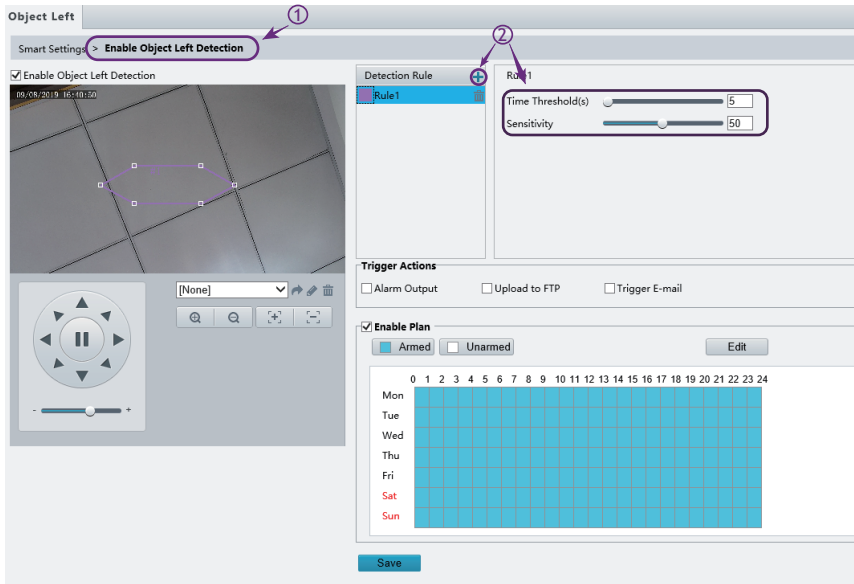
You can set the sensitivity level and time threshold (minimum duration an unattended object is detected in the specified area to trigger an alarm) before the alarm triggers.

Trigger Actions:

Upload to FTP: this will send snapshots to FTP server once the alarm is triggered. For details, see Chapter 3.4.

Trigger E-mail: this will send an email notification for the alarm along with a snapshot. For details, see Chapter 3.3.

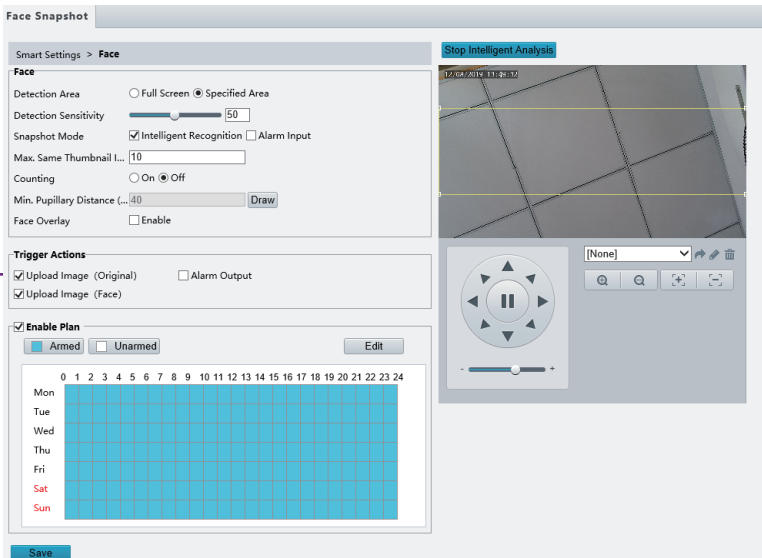
Object left cannot be enabled when either of the **face capture** or **people head counting** is turned on.



10.5 Face Capture

Face detection detects human faces in live video, and can upload the captured faces to the FTP server.

- Click Setup > Intelligent > Smart Settings. Choose Face and then click .



- **Detection Area:** You can set to detect and capture face appeared in the selected area or in the full screen.
- **Max. Same Thumbnail Images:** Set the maximum thumbnail image of the same face.
- **Min Pupillary Distance (px):** The minimum pupillary distance of the detection object.
- **Counting:** Turn on to count the number of faces detected by the IP camera.
- **Face Overlay:** Show green detection box on the screen.

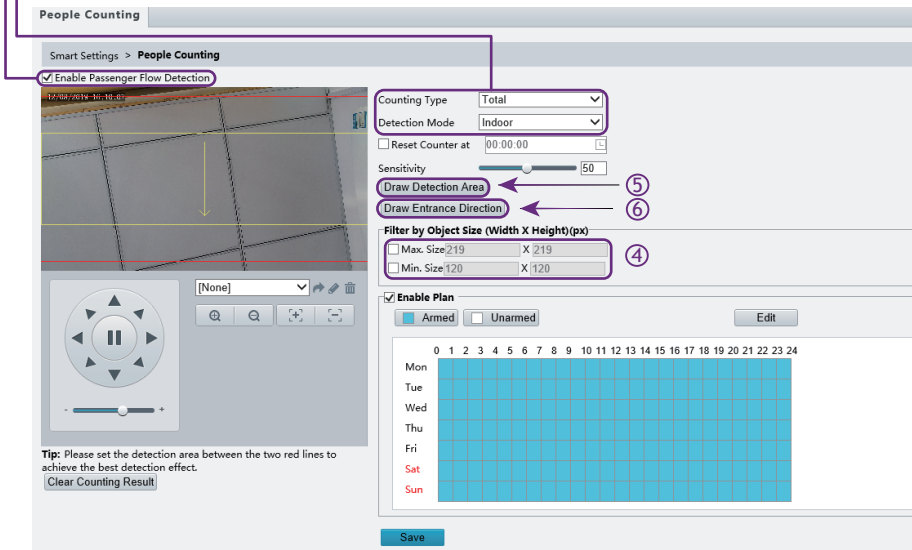
10.6 People Counting

Note: People counting detects human figures in terms of the appropriate ratio between head and shoulder. So it is important the IP camera is mounted high enough and are able to capture the upper part of any human figure.

① Click **Setup > Intelligent > Smart Settings**. Choose **People Counting** and then click .

② Select **Enable Passenger Flow Detection**.

③ Counting Type: Select whether to count **people entered**, **people left** or **total** (both).



The screenshot displays the 'People Counting' configuration screen. At the top, it shows 'Smart Settings > People Counting' with a checked 'Enable Passenger Flow Detection' option. The main area is divided into a preview window on the left and a settings panel on the right. The preview window shows a floor plan with a red-bordered detection area and a yellow arrow indicating flow direction. The settings panel includes:

- Counting Type:** A dropdown menu set to 'Total'.
- Detection Mode:** A dropdown menu set to 'Indoor'.
- Reset Counter at:** A text input field set to '00:00:00'.
- Sensitivity:** A slider control set to 50.
- Draw Detection Area:** A button with a purple circle containing the number 5.
- Draw Entrance Direction:** A button with a purple circle containing the number 6.
- Filter by Object Size (Width X Height):** A section with two checkboxes:
 - Max. Size:** 219 X 219 (checked), with a purple circle containing the number 4.
 - Min. Size:** 120 X 120 (checked).
- Enable Plan:** A section with 'Armed' (checked) and 'Unnamed' (unchecked) options, and an 'Edit' button.
- Calendar:** A grid showing days of the week (Mon-Sun) and hours (0-24). The grid cells are blue.
- Save:** A blue button at the bottom.

④ Set **Max. Size** and **Min. Size** under **Filter by Object Size**. Only objects within the size range will be counted; others will be filtered and not counted. The maximum width or height must be greater than the minimum width or height.

⑤ Click **Draw Detection Area**, and then draw a detection area on the preview window on the left, e.g., a square.

- Click **Draw Entrance Direction**, and then draw the direction on the preview window on the left. The direction is usually vertical or sloping.

11. Forget Password

There are two methods of recovering the password of WeLanc IP camera.

Method A

This method only works if you have a cloud account upfront and the cloud account has added the specific IP camera you want to recover the password.

- Please visit <http://star4live.com>. Login using your cloud account.

The screenshot shows the Star4Live web interface. At the top, there is a navigation bar with 'Star4Live' logo, 'Welcome Vndby1', and 'Exit Help'. Below the navigation bar, there are tabs for 'Device List' and 'Org List', and buttons for '+ Add Org' and '+ Add Device'. The main content area is divided into three sections: 'My Cloud Devices', 'Shared Cloud Devices', and 'Sharing Records'. The 'My Cloud Devices' section contains a table with the following data:

Select	No.	Org	Device Name	Device Type	Device IP	Latest Online Time	Status	Share Device	Change Device	Retrieve Password	Access Device
<input type="checkbox"/>	1	root	welanc		183.156.9.243	8/9/2019 5:10:13 PM	Online (NAT)	Share	Change	Retrieve	Access

The 'Retrieve' button in the 'Retrieve Password' column is circled in red. A red arrow points from this button to the 'Retrieve' button in the second step of the instructions.

- Click **“Retrieve”** under Retrieve Password.

The screenshot shows the password retrieval form in the Star4Live interface. The form contains the following fields and buttons:

- Device Name:
- Serial Number:
- Valid Date: (with a calendar icon)
- Email: (with an 'Acquire' button)
- Verification Code:

At the bottom of the form, there are two buttons: 'Retrieve' (highlighted in blue) and 'Back'.

- ② Then please enter the “**date**” of the device and verify your email to obtain a temporary one-time password. Note you must enter the “date” appears on the IP camera, which is not necessarily the same date that you are on. For example, you are in Los Angeles on August 9th 5pm, and the camera is installed in Tokyo, which is already on August 10th.

Entering a wrong date would result in the failure of generating a successful temporary access code.

Method B

If you don't have a cloud account, please send the model, serial number, proof of purchase and date appears on the IP camera to support@welanc.com obtain a temporary access code.

Warranty Statement

• Warranty Period

- 2 Yr from the date of delivery in U.S.A
- 1 Yr from the date of delivery in Europe, Japan and other regions
- A valid Order ID or Proof of Purchase (POD) must be presented to claim the warranty.

• Summary of Benefits

- Defects of Components: Customers can request free components and replace with instructions
- 60 Day Free Replacement
- Complimentary Remote Help Session

• Labor Fee

If the unit is shipped for repair, the flat repair cost will be \$40 for PTZ cameras with an additional 90-day guarantee from the original warranty.

• Defects Excluded

- Fair wear and tear
- Misuse
- Damage by mishandling
- Operation or storage outside of environmental specification
- Operation outside permitted voltage
- Lightning Strike

