

# 2MP HD Face Recognition, Temperature Check and Face Mask Detection Terminal

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WIP2FRTMTP



User Manual

Please read these instructions carefully before operating the unit  
and keep for further reference.

- This product is intended to be supplied by a Listed Power Unit, marked with 'Limited Power Source', 'LPS' on unit, output rated minimum 12V/2 A or POE 48V/ 350mA or AC24V (depending on models), no more than 2000m altitude of operation and Tma=60 Deg.C.
- As for the modes with PoE function, the function of the ITE being investigated to IEC 60950-1 standard is considered not likely to require connection to an Ethernet network with outside plant routing, including campus environment and the ITE is to be connected only to PoE networks without routing to the outside plant.
- Do not attempt to disassemble the camera; in order to prevent electric shock, do not remove screws or covers.
- There are no user-serviceable parts inside. Please contact the nearest service center as soon as possible if there is any failure.
- Avoid from incorrect operation, shock vibration, heavy pressing which can cause damage to product.
- Do not use corrosive detergent to clean main body of the camera. If necessary, please use soft dry cloth to wipe dirt; for hard contamination, use neutral detergent. Any cleanser for high grade furniture is applicable.
- Avoid aiming the camera directly towards extremely bright objects, such as, sun, as this may damage the image sensor.
- Please follow the instructions to install the camera. Do not reverse the camera, or the reversing image will be received.
- Do not operate it in case temperature, humidity and power supply are beyond the limited stipulations.
- Keep away from heat sources such as radiators, heat registers, stove, etc.
- Do not expose the product to the direct airflow from an air conditioner.
- This manual is for using and managing the product. We may reserve the rights of amending the typographical errors, inconsistencies with the latest version, software upgrades and product improvements, interpretation and modification. These changes will be published in the latest version without special notification.
- All pictures, charts, images in this manual are only for description and explanation of our products. The ownerships of trademarks, logos and other intellectual properties related to Microsoft, Apple and Google belong to the above-mentioned companies.
- This manual is suitable for face recognition network cameras.

## Disclaimer

- With regard to the product with internet access, the use of product shall be wholly at your own risks. Our company shall be irresponsible for abnormal operation, privacy leakage or other damages resulting from cyber attack, hacker attack, virus inspection, or other internet security risks; however, our company will provide timely technical support if necessary.
- Surveillance laws vary from country to country. Check all laws in your local region before using this product for surveillance purposes. We shall not take the responsibility for any consequences resulting from illegal operations.

## Regulatory Information

### FCC Marking



The products have been tested and found in compliance with the council FCC rules and regulations part 15 subpart B. Operation of this product is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### CE Marking



The products have been manufactured to comply with the following directives.  
EMC Directive 2014/30/EU

### RoHS

The products have been designed and manufactured in accordance with Directive EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

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## Main Features

- 8 inch LCD screen
- Support IR high-accuracy body temperature measurement; non-contact screening
- The face wearing masks also can be recognized
- It will trigger voice alarm when abnormal/normal body temperature and no mask are detected
- Support liveness detection, avoiding picture and video cheating
- Deep learning algorithm, high face recognition accuracy rate
- Support 1:N recognition mode (multiple people recognition mode)
- Special cameras for face recognition, dramatically enhance recognition rate in the backlight environment
- Support tamper alarm
- Stand-alone operation
- Support remote live view and two-way talk

## 2 Network Connection

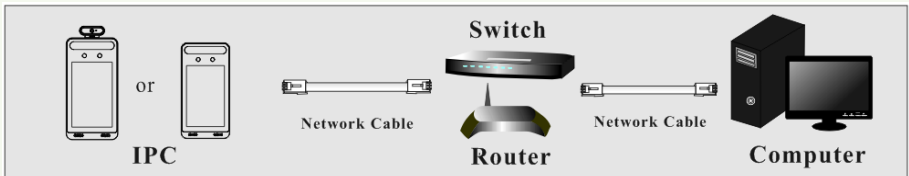
Connect IP-Cam via LAN or WAN. Here only take IE browser for example. The details are as follows:

### 1.1 LAN

In LAN, there are two ways to access IP-Cam: 1. access through IP-Tool; 2. directly access through IE browser.

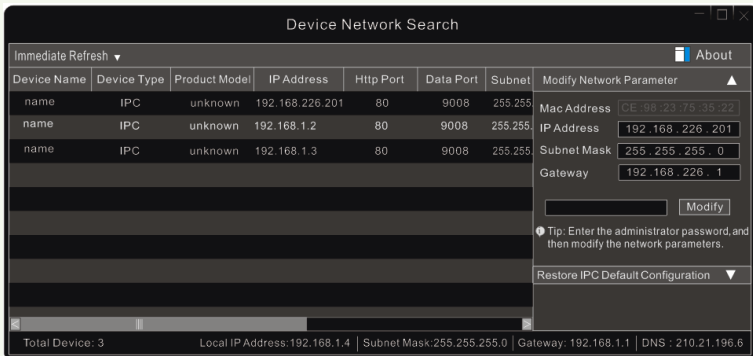
#### 1.1.1 Access through IP-Tool

Network connection:



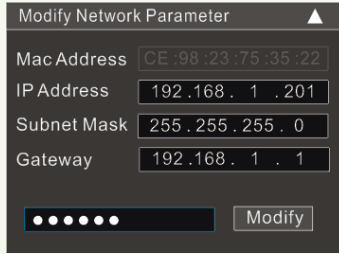
① Make sure the PC and IP-Cam are connected to the LAN and the IP-Tool is installed in the PC from the CD.

② Double click the IP-Tool icon on the desktop to run this software as shown below:



③ Modify the IP address. The default IP address of this camera is 192.168.226.201. Click the information of the camera listed in the above table to show the network information on the right hand. Modify the IP address and gateway of the camera and make sure its network address is in the same local network segment as the computer's. Please modify the IP address

of your device according to the practical situation.

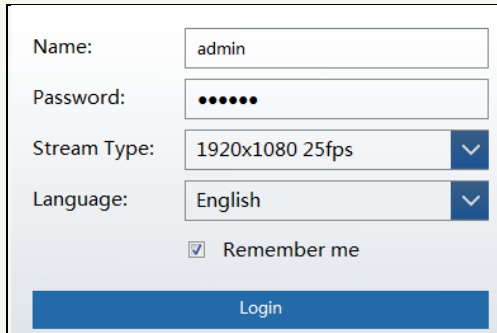


For example, the IP address of your computer is 192.168.1.4. So the IP address of the camera shall be changed to 192.168.1.X. After modification, please enter the password of the administrator and click the “Modify” button to modify the setting.



The default password of the administrator is “**123456**”.

④ Double click the IP address and then the system will pop up the IE browser to connect IP-CAM. Follow directions to download, install and run the Active X control.

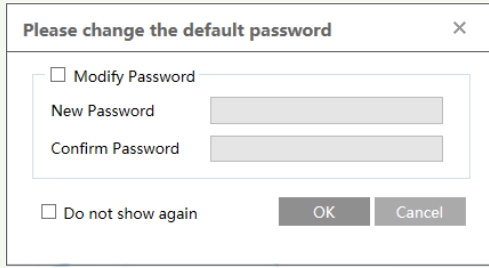


Enter the username and password in the login window to log in.



The default username is “**admin**”; the default password is “**123456**”.





The system will pop up the above-mentioned textbox to ask you to change the default password. It is strongly recommended to change the default password for account security. If “Do not show again” is checked, the textbox will not appear next time.

### 1.1.2 Directly Access through IE

The default network settings are as shown below:

IP address: **192.168.226.201**

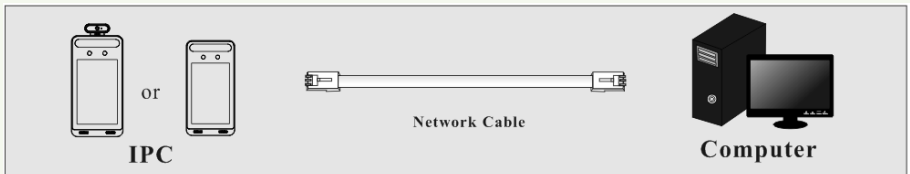
Subnet Mask: **255.255.255.0**

Gateway: **192.168.226.1**

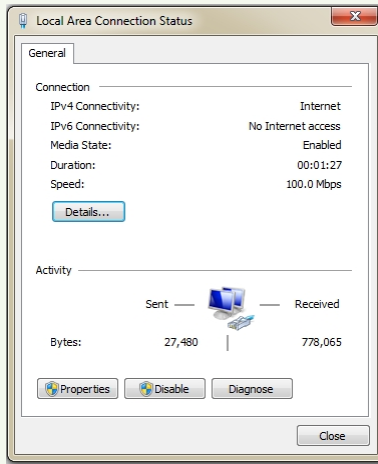
HTTP: **80**

Data port: **9008**

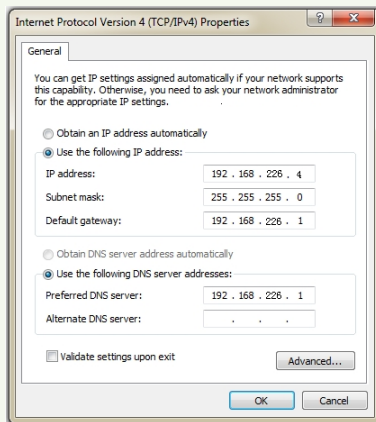
Use the above default settings when logging in the camera for the first time. Directly connect the camera to the computer through network cable.



① Manually set the IP address of the PC and the network segment should be as the same as the default settings of the IP camera. Open the network and share center. Click “Local Area Connection” to pop up the following window.



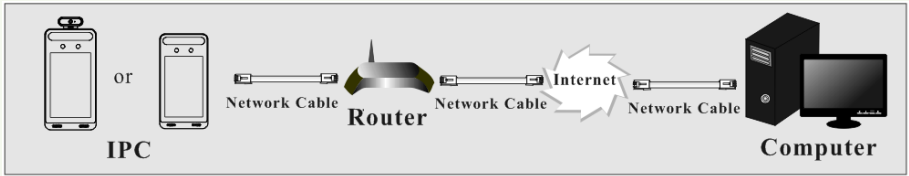
Select “Properties” and then select internet protocol according to the actual situation (for example: IPv4). Next, click the “Properties” button to set the network of the PC.



- ② Open the IE browser and enter the default address of IP-CAM and confirm.
- ③ Follow directions to download and install the Active X control.
- ④ Enter the default username and password in the login window and then enter to view.

## 1.2 WAN

- **Access through the router or virtual server**



① Make sure the camera is connected to the local network and then log in the camera via LAN and go to Config→Network→Port menu to set the port number.

HTTP Port	<input type="text" value="80"/>
HTTPS Port	<input type="text" value="443"/>
Data Port	<input type="text" value="9008"/>
RTSP Port	<input type="text" value="554"/>

**Port Setup**

② Go to Config →Network→TCP/IP menu to modify the IP address.

<b>IPv4</b>	IPv6	PPPoE Config	IP Change Notification Config
<input type="radio"/> Obtain an IP address automatically			
<input checked="" type="radio"/> Use the following IP address			
IP Address	<input type="text" value="192.168.226.201"/>	<input type="button" value="Test"/>	
Subnet Mask	<input type="text" value="255.255.255.0"/>		
Gateway	<input type="text" value="192.168.226.1"/>		
Preferred DNS Server	<input type="text" value="210.21.196.6"/>		
Alternate DNS Server	<input type="text" value="8.8.8.8"/>		

**IP Setup**

③ Go to the router’s management interface through IE browser to forward the IP address and port of the camera in the “Virtual Server”.

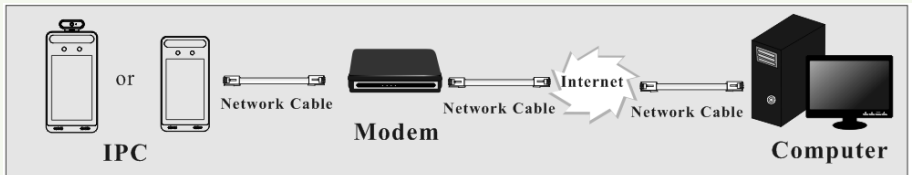
Port Range					
Application	Start	End	Protocol	IP Address	Enable
1	9007	to 9008	Both	192.168.1.201	<input checked="" type="checkbox"/>
2	80	to 81	Both	192.168.1.201	<input checked="" type="checkbox"/>
3	10000	to 10001	Both	192.168.1.166	<input type="checkbox"/>
4	21000	to 21001	Both	192.168.1.166	<input type="checkbox"/>

**Router Setup**

④ Open the IE browser and enter its WAN IP and http port to access. (for example, if the http port is changed to 81, please enter “192.198.1.201:81” in the address bar of web browser to access).

➤ **Access through PPPoE dial-up**

Network connection



Access the camera through PPPoE auto dial-up. The setup steps are as follow:

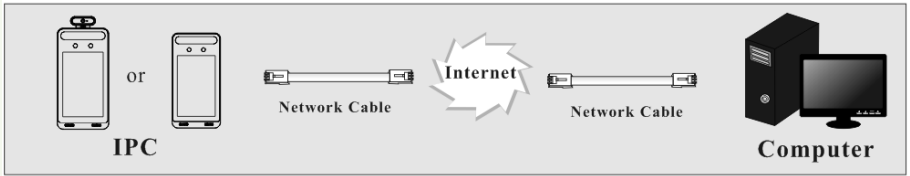
- ① Go to Config → Network → Port menu to set the port number.
- ② Go to Config → Network → TCP/IP → PPPoE Config menu. Enable PPPoE and then enter the user name and password from your internet service provider.

IPv4	IPv6	PPPoE Config	IP Change Notification Config
<input checked="" type="checkbox"/> Enable			
User Name		<input type="text" value="xxxxxxx"/>	
Password		<input type="password" value="•••••"/>	
<input type="button" value="Save"/>			

- ③ Go to Config → Network → DDNS menu. Before configuring the DDNS, please apply for a domain name first. Please refer to DDNS configuration for detail information.
- ④ Open the IE browser and enter the domain name and http port to access.

➤ Access through static IP

Network connection



The setup steps are as follow:

- ① Go to Config→Network→Port menu to set the port number.
- ② Go to Config →Network→TCP/IP menu to set the IP address. Check “Use the following IP address” and then enter the static IP address and other parameters.
- ③ Open the IE browser and enter its WAN IP and http port to access.

# 3 TEM Screening & FR Config

## 3.1 Temperature Screening Settings

After the network is connected, go to the web client. Click Config→Temperature Screening to go to the following interface.

The screenshot shows the 'Alarm Config' web interface. At the top, there is a tab labeled 'Alarm Config'. Below it, the 'Enable' checkbox is checked. The 'Temperature Switch' is set to '°F'. The 'High Temperature Alarm' checkbox is checked, with a value of '99.0' and a range of '(32.0-212.0)°F'. The 'Low Temperature Alarm' checkbox is also checked, with a value of '96.0' and a range of '(32.0-212.0)°F'. The 'Alarm Holding Time' is set to '20 Seconds'. Under 'Trigger Alarm Out', there are two unchecked checkboxes: 'Alarm Out 0' and 'Alarm Out 1'. Below this, there are several unchecked checkboxes for 'Trigger Audio Alarm', 'Trigger SD Snap', 'Trigger SD Recording', 'Trigger Email', and 'Trigger FTP'. A 'Save' button is located at the bottom center of the form.

1. Enable “Temperature Screening” and then set the high temperature threshold and the low temperature threshold. When the body temperature measured is higher or lower than the set value, it will trigger alarms.
2. Set the alarm holding time.
3. Set the alarm trigger options.

**Trigger Alarm Out:** If enabled, the alarm output device will be triggered when detecting abnormal temperature.

**Trigger Audio Alarm:** If enabled, the system will broadcast the current body temperature on detecting a body. If the detected body temperature is normal, “Normal Temperature” will be heard. If the detected body temperature is abnormal, “High/Low Temperature” will be heard. If this item is disabled, the detected temperature will be not broadcasted.

**Trigger SD Snap:** If enabled, the system will capture images on detecting abnormal

temperature alarm and save the images on an SD card.

**Trigger SD Recording:** If selected, video will be recorded on an SD card on detecting abnormal temperature alarm.

**Trigger Email:** If “Trigger Email” and “Attach Picture” are checked (email address must be set first in the Email configuration interface), the captured pictures and triggered event will be sent into those addresses.

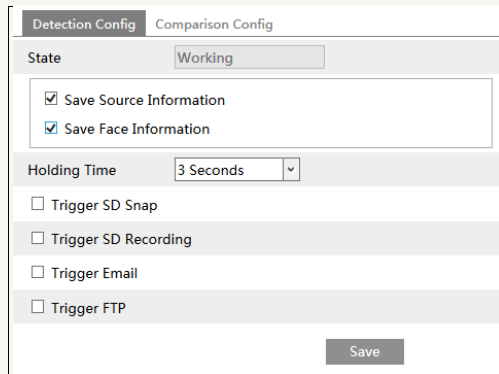
**Trigger FTP:** If “Trigger FTP” is checked, the captured pictures will be sent into FTP server address. Please refer to FTP configuration chapter for more details.

4. Click “Save” to save the settings.

### 3.2 Face Match Configuration

The setting steps are as follows.

1. Go to Config→Face→Face Match Config interface.



2. Enable “Save Source Information” or “Save Face Information”.

Save Source Information: if checked, the whole picture will be saved to the SD card when detecting a face.

Save Face Information: if checked, the captured face picture will be saved to the SD card when detecting a face.

**Note:** To save images to the local PC, please enable the local smart snapshot storage first (Config→System→Local Config). To save images to the SD card, please install an SD card first.

3. Set alarm holding time and alarm trigger options.

3. Set face comparison options.

Detection Config	Comparison Config
<input checked="" type="checkbox"/> Deduplication Period	4 Seconds
Similarity threshold	75 %
<input type="button" value="Save"/>	

**Deduplication Period:** In the set period, delete the repeated comparison results.

**Similarity threshold:** When the similarity of the captured face picture and the face picture added into the face database exceeds the similarity threshold, alarms will be triggered.

### 3.3 Face Database Management

Click “Face Database Management” tab. This will enter the following interface.

The screenshot displays the 'Face Database Management' interface. At the top, there are icons for adding a user and a stack of books. Below these are dropdown menus for 'Block and Allow Lists' (set to 'All Types') and 'Gender' (set to 'All Types'). There are input fields for 'Name' and 'ID number', along with 'Search' and 'Delete' buttons. A table with columns 'Index', 'Face', 'ID', 'Name', 'Gender', 'Type', 'ID number', and 'Operate' is visible. An 'Add User' modal window is open, showing a form with the following fields: 'List Type' (set to 'Stranger'), 'Name', 'Gender' (set to 'Male'), 'Age', 'Tel', 'ID number', and 'Remark'. A 'Format : jpg , Size limit : 70k' note is present next to a user icon. An 'Entry' button is at the bottom of the modal.

There are four ways to add face pictures.

① Adding face pictures one by one

Click to pop up an adding user box. Then click to select a face picture saved on the local PC. Please select the picture according to the specified format and size limit. After that, fill out the relevant information of the face picture and click “Entry” to add.

② Adding face pictures in bulk

Click and then add multiple face pictures once according to the prompted rules.

③ Add face pictures by using face album management tool

④ Add the captured picture in the live mode (See *Add captured face pictures to the face database*).



After adding face pictures, you can search them by name, gender, ID number and so on.

The screenshot shows a web interface for managing face pictures. At the top, there are icons for a person and a list. Below these are search filters: 'Block and Allow Lists' (set to 'All Types'), 'Gender' (set to 'All Types'), 'Name' (empty), and 'ID number' (empty). There are 'Search' and 'Delete' buttons. Below the filters is a table with the following data:

Index	Face	ID	Name	Gender	Type	ID number	Operate
1		1546395331	#T1#50#A23#	Female			Delete Modify
2		1546395330	#T0#50#A20#	Female			Delete Modify
3		1546395329	#T2#50#A21#	Female			Delete Modify
4		1546395328	T0#S1#A55#	Female			Delete Modify
5		1546395327	T2#S1#A31#	Male			Delete Modify

Click “Modify” to change people information and click “Delete” to delete this face picture.

### 3.4 Mask Detection

Click Config→Alarm→Mask Detection to go to the following interface.

The screenshot shows the 'Alarm Config' interface. It includes the following settings:

- Enable
- Alarm Holding Time: 20 Seconds
- Trigger Alarm Out:
  - Alarm Out 0
  - Alarm Out 1
- Trigger Audio Alarm
- Trigger SD Snap
- Trigger SD Recording
- Trigger Email
- Trigger FTP

A 'Save' button is located at the bottom of the form.

- ① Enable “Mask Detection” as needed.
- ② Set the alarm holding time.
- ③ Set the alarm trigger options.

**Alarm Out:** If enabled, alarm output will be triggered when the detected person doesn't wear a mask.

**Trigger Audio Alarm:** If enabled, the alarm voice will be broadcasted when the detected person doesn't wear a mask.

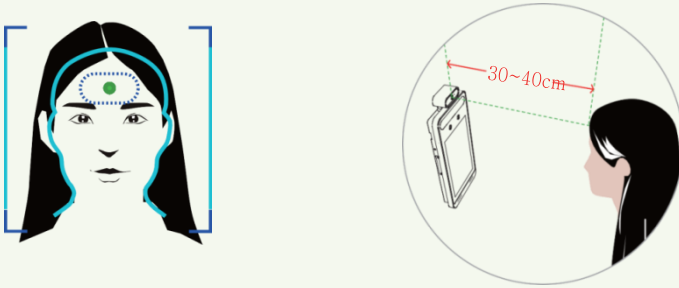
The setup steps of other alarm trigger options are the same as temperature screening settings. Please refer to temperature screening settings chapter for details.

## 4.1 Temperature Screening & Face Recognition View

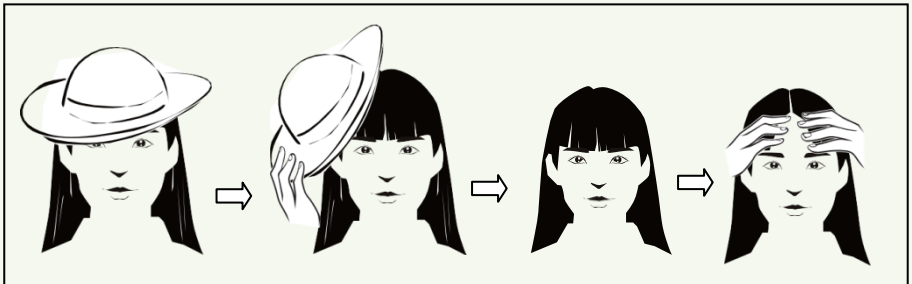
### 4.1.1 Temperature Screening Requirements

For accuracy temperature screening, here are some recommendations.

1. The detected person shall place his/her face within the pre-defined face detection area. His/her forehead shall be in the middle of the “Temp zone” (make the green plus stay in the middle of the “Temp zone” ). The detected face shall be 30cm~40cm away from the temperature measurement sensor.

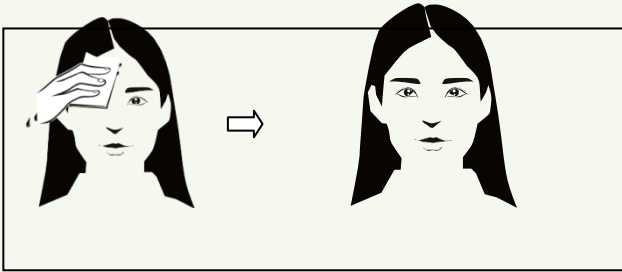


2. Please remove the hat/cap/helmet/hair covering the forehead for accuracy temperature screening.

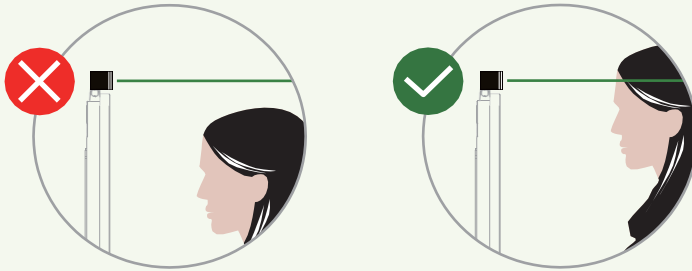


3. The accurate temperature will not be gotten if the forehead of the detected person doesn't point at the “Temp zone”.
4. If the temperature is very lower than normal value in the “Temp zone”, please move towards the temperature measurement sensor (5cm-20cm away from the temperature sensor) to get the accurate value.

- Please have a rest after strenuous exercise and then test the temperature. If there is sweat on the forehead, please wipe it and take a rest and then test the temperature.



- The installation height shall fit the height of the detected people. Note that the temperature measurement module shall not be higher than the height of the detected people.



#### 4.1.2 Temperature Screening & Face Recognition View

After configuring temperature screening and face match, the device can measure the body temperature and compare faces.

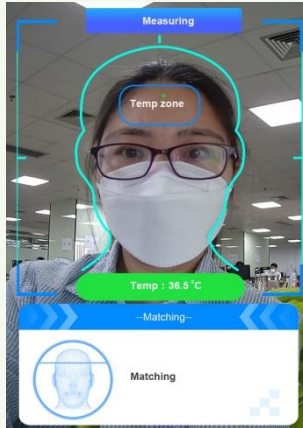
When detecting a face, the device will display the following interface.

Please measure the body temperature according to the above-mentioned temperature screening requirements.

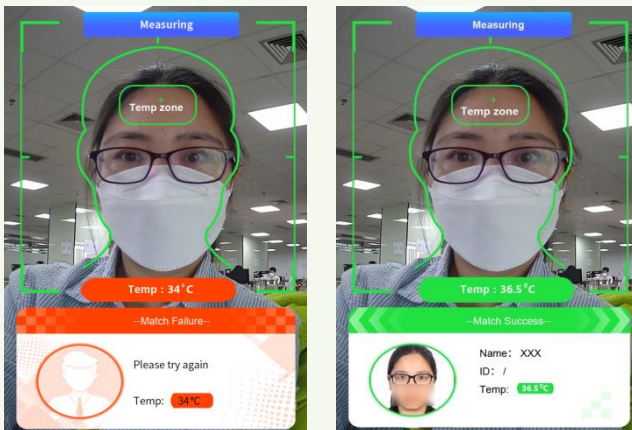
Abnormal temperature: the red block and temperature will be shown.

Normal temperature: the green block and temperature will be shown.

If “Trigger Alarm Audio” is selected, you will hear the alarm voice.



The system will measure the temperature and compare the captured face at the same time as shown below.



When the captured face is not added to the face database or the similarity is lower than the pre-defined value, it will display “Match Failure” and the box will turn red. If the mask detection and “Trigger Audio Alarm” are selected, warning voice will be heard if no mask is detected.

## 4.2 Live View via Web

After logging in, the following window will be shown.

In this interface you will see the captured face, match result and body temperature.



The following table is the instructions of the icons on the live view interface.

Icon	Description	Icon	Description
	Original size		Start/stop local recording
	Fit correct scale		Zoom in
	Auto (fill the window)		Zoom out
	Full screen		SD card recording indicator
	Start/stop live view		Sensor alarm indicator
	Start/stop two-way audio		Motion alarm indicator
	Enable/disable audio		Face detection indicator
	Snapshot		Face match

Those smart alarm indicators will flash only when the camera supports those functions and the corresponding events are enabled.

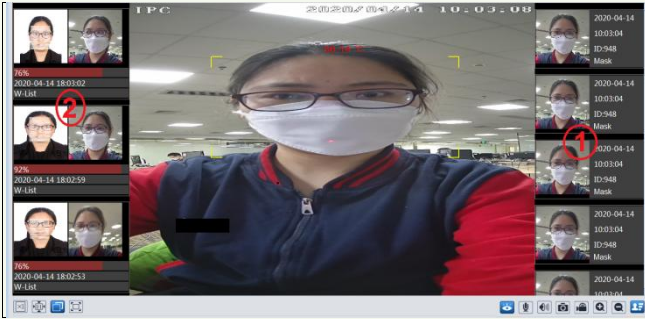
➤ **Face Match View**

After all face comparison settings are set successfully, enter the live view interface. Click



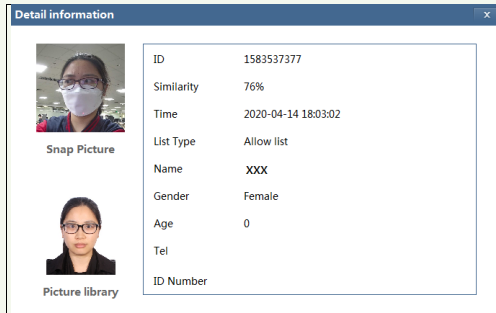
to view the captured face pictures and face comparison information.

Area ①: captured face pictures; area ②: face comparison area



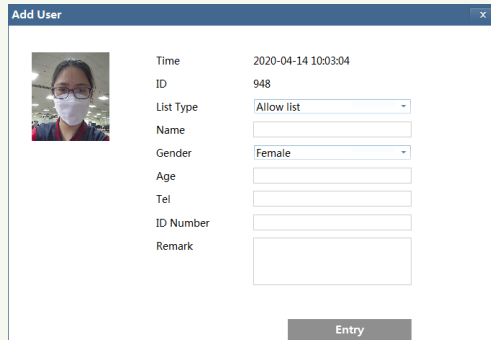
● **View the comparison details**

In area ②, click the compared face picture to bring up the following window. In this interface, you can view the detailed comparison information.



● **Add captured face pictures to the face database**

Click a captured picture in area ①. This will bring a face picture adding box.



Fill out the relevant information and click “Entry” to add this face picture.

# 5 Access Control Settings

## 5.1 Door Lock Settings

Click Config→Access Control→Door Lock to go to the following interface. After the access control device is connected to the terminal, you can set opening mode in this interface.

The screenshot shows a configuration window titled "Config". It contains the following settings:

- Opening Mode:** Two radio buttons are present:  By Face Recognition and  By Password. Neither is selected.
- Delay Time of Opening the Door:** A slider control with a numeric input box on the right containing the value "2".
- Opening Duration:** A slider control with a numeric input box on the right containing the value "3".
- Save:** A button located at the bottom right of the configuration area.

**Opening Mode:** Opening the door by face recognition or by password can be selected.

**Delay Time of Opening the Door:** Set how long the door will be opened after successful face recognition or entering the correct password. The time range is from 0 to 10 seconds. For example, “By Password” is selected and the delay time is set to “2” seconds; the door will be opened 2 seconds later after entering the correct password.

**Opening Duration:** Set the opening duration after successful face recognition or entering the correct password. The time range is from 0 to 10 seconds. For example, “By Password” is selected and the delay time is set to “3” seconds; after the door is opened, it will be closed 3 seconds later.

## 5.2 Wiegand Settings

Click Config→Access Control→Wiegand Config to go to the following interface.

The screenshot shows a configuration window titled "Config". It contains the following settings:

- Alarm Trigger Mode:** A dropdown menu is open, showing three options: "Wiegand Input", "Wiegand Output", and "Off". The "Off" option is currently selected and highlighted in blue.
- Alarm Out:** Two checkboxes are present:  Alarm Out 0 and  Alarm Out 1.
- Save:** A button located at the bottom right of the configuration area.

**Alarm Trigger Mode:** Wiegand Input, Wiegand Output or Off can be selected. If the card



reader is connected to the Wiegand interface, please select “Wiegand Input”. If the access controller is connected to the Wiegand interface, please select “Wiegand Output”. You can also select the alarm output as needed.

### 5.3 Tampering Alarm Settings

In order to avoid the removal or damage by the external force, the tampering alarm can be set for the terminal. Click Config→Access Control→Tampering Alarm Setting to go to the following interface.

The screenshot shows a configuration window titled "Config" for Tampering Alarm Settings. It includes the following elements:

- Enable
- Alarm Holding Time: 20 Seconds (dropdown menu)
- Trigger Alarm Out section with two checkboxes:  Alarm Out 0 and  Alarm Out 1
- Trigger SD Snap
- Trigger SD Recording
- Trigger Email
- Trigger FTP
- A "Save" button at the bottom right.

Enable “Tampering Alarm” and then set the alarm holding time and alarm trigger options. The setup steps of the alarm trigger options are the same as temperature screening settings. Please refer to temperature screening settings chapter for details.

# 6 Other Configurations

In the Webcam client, choose “Config” to go to the configuration interface.

**Note:** Wherever applicable, click the “Save” button to save the settings.

## 6.1 System Settings

### 6.1.1 Basic Information

In the “Basic Information” interface, the system information of the device is listed.

Device Name	IPC
Product Model	IPC
Brand	Customer
Software Version	5.0.0.X
Software Build Date	2019-07-01
Kernel Version	20190419
Hardware Version	1.4-1312222
Onvif Version	18.06
structuredVersion	1.1.2
faceDetectVersion	1.1.16
faceMatchVersion	1.0.3
OCX Version	3.0.6.0
MAC	00:18:ae:00:36:c1

Some versions may support device ID and QR code. If P2P is enabled (see Network Configuration-[P2P](#)), the network camera can be quickly added to mobile surveillance client, by scanning the QR code or entering device ID.

### 6.1.2 Date and Time

Go to Config→System→Date and Time. Please refer to the following interface.

Select the time zone and DST as required.  
Click the “Date and Time” tab to set the time mode.

### 6.1.3 Local Config

Go to Config→System→Local Config to set up the storage path of captured pictures and recorded videos on the local PC. There is also an option to enable or disable the bitrate display in the recorded files.

Additionally, the local smart snapshot (face snapshot) storage can be enabled/disable here.

### 6.1.4 Storage

Go to Config→System→Storage to go to the interface as shown below.

Management	Record	Snapshot	USB disk
Total picture capacity	766 MB		
Picture remaining space	766 MB		
Total recording capacity	0 MB		
Record remaining space	0 MB		
State	Normal		
Snapshot Quota	10 %		
Video Quota	90 %		
Changes in the quota ratio need to be formatted before they become effective.			
		<input type="button" value="Eject"/>	<input type="button" value="Format"/>

● **SD Card Management**

Click the “Format” button to format the SD card. All data will be cleared by clicking this button.

Click the “Eject” button to stop writing data to SD card. Then the SD card can be ejected safely.

**Snapshot Quota:** Set the capacity proportion of captured pictures on the SD card.

**Video Quota:** Set the capacity proportion of record files on the SD card.

● **Schedule Recording Settings**

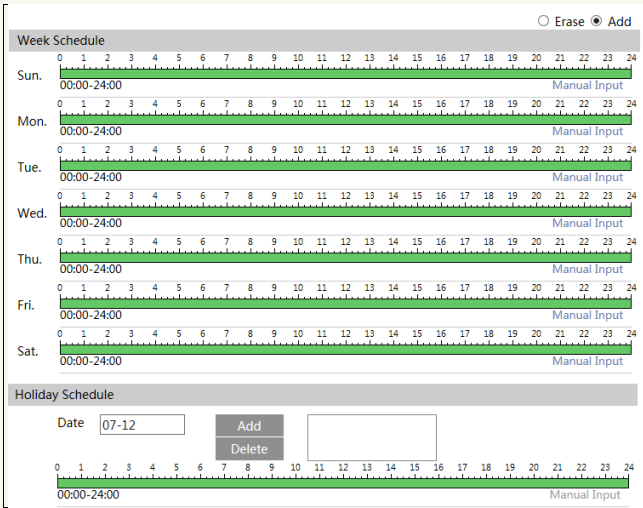
1. Go to Config→System→Storage→Record to go to the interface as shown below.

Management	Record	Snapshot
<b>Record Parameters</b>		
Record Stream	Main	
Pre Record Time	No Pre Record ( H264,H265,MJPEG )	
Cycle Write	Yes	
<b>Timing</b>		
<input checked="" type="checkbox"/> Enable Schedule Record		

2. Set record stream, pre-record time, cycle writing.

**Pre Record Time:** Set the time to record before the actual recording begins.

3. Set schedule recording. Check “Enable Schedule Record” and set the schedule.



### Weekly schedule

Set the alarm time from Monday to Sunday for a single week. Each day is divided in one hour increments. Green means scheduled. Blank means unscheduled.

“Add”: Add the schedule for a special day. Drag the mouse to set the time on the timeline.

“Erase”: Delete the schedule. Drag the mouse to erase the time on the timeline.

Manual Input: Click it for a specific day to enter specific start and end times. This adds more granularities (minutes).

### Day schedule

Set the alarm time for alarm a special day, such as a holiday.

**Note: Holiday schedule takes priority over weekly schedule.**

### ● Snapshot Settings

Go to Config→System→Storage→Snapshot to go to the interface as shown below.

Management	Record	Snapshot
<b>Snapshot Parameters</b>		
Image Format	JPEG	
Resolution	704x576	
Image Quality	Low	
<b>Event Trigger</b>		
Snapshot Interval	1	Second
Snapshot Quantity	5	
<b>Timing</b>		
<input checked="" type="checkbox"/>	Enable Timing Snapshot	
Snapshot Interval	5	Second

Set the format, resolution and quality of the image saved on the SD card and the snapshot interval and quantity and the timing snapshot here.

**Snapshot Quantity:** The number you set here is the maximum quantity of snapshots. The actual quantity of snapshots may be less than this number. Supposing the occurrence time of an alarm event is less than the time of capturing pictures, the actual quantity of snapshots is less than the set quantity of snapshots.

**Timing Snapshot:** Enable timing snapshot first and then set the snapshot interval and schedule. The setup steps of schedule are the same as the schedule recording (See [Schedule Recording](#)).

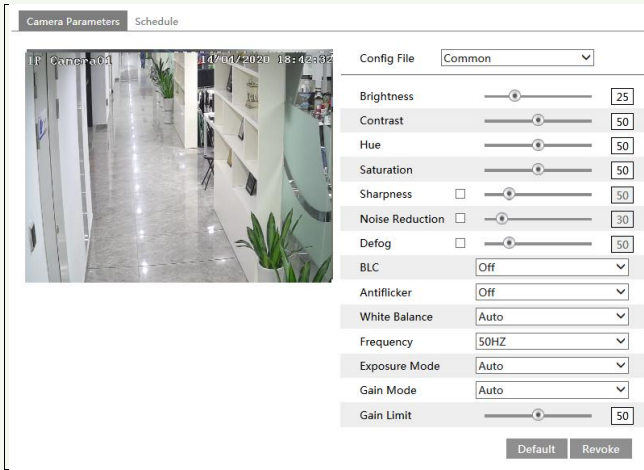
- **USB disk**

This function is only available for the model with USB interface. In this interface, you can view the state and capacity of the USB flash disk.

## 6.2 Image Configuration

### 6.2.1 Display Configuration

Go to Image→Display interface as shown below. The image's brightness, contrast, hue and saturation and so on for common, day and night mode can be set up separately. The image effect can be quickly seen by switching the configuration file.



**Brightness:** Set the brightness level of the camera’s image.

**Contrast:** Set the color difference between the brightest and darkest parts.

**Hue:** Set the total color degree of the image.

**Saturation:** Set the degree of color purity. The purer the color, the brighter the image is.

**Sharpness:** Set the resolution level of the image plane and the sharpness level of the image edge.

**Noise Reduction:** Decrease the noise and make the image more thorough. Increasing the value will make the noise reduction effect better but it will reduce the image resolution.

**Defog:** Activating this function and setting an appropriate value as needed in foggy, dusty, smoggy or rainy environment to get clear images.

**Backlight Compensation (BLC):**

- Off: disables the backlight compensation function. It is the default mode.
- HWDR: WDR can adjust the camera to provide a better image when there are both very bright and very dark areas simultaneously in the field of the view by lowering the brightness of the bright area and increasing the brightness of the dark area.

Recording will be stopped for a few seconds while the mode is changing from non-WDR to WDR mode.

- HLC: lowers the brightness of the entire image by suppressing the brightness of the image’s bright area and reducing the size of the halo area.
- BLC: If enabled, the auto exposure will activate according to the scene so that the object of the image in the darkest area will be seen clearly.

**Antiflicker:**

- Off: disables the anti-flicker function. This is used mostly in outdoor installations.
- 50Hz: reduces flicker in 50Hz lighting conditions.
- 60Hz: reduces flicker in 60Hz lighting conditions.

**White Balance:** Adjust the color temperature according to the environment automatically.

**Frequency:** 50Hz and 60Hz can be optional.

**Exposure Mode:** Choose “Auto” or “Manual”. If manual is chosen, the digital shutter speed

can be adjusted.

**Gain Mode:** Choose “Auto” or “Manual”. If “Auto” is selected, the gain value will be automatically adjusted according to the actual situation. If “Manual” is selected, the gain value shall be set manually. The higher the value is, the brighter the image is.

Schedule Settings of Image Parameters:

Click the “Schedule” tab as shown below.

Set full time schedule for common, day, night mode and specified time schedule for day and night. Choose “Timing” in the drop-down box of schedule as shown below.

Drag “” icons to set the time of day and night. Blue means day time and blank means night time. If the current mode of camera parameters is set to schedule, the image configuration mode will automatically switch between day and night according to the schedule.

### 6.2.2 Video / Audio Configuration

Go to Image→Video / Audio interface as shown below. In this interface, set the resolution, frame rate, bitrate type, video quality and so on subject to the actual network condition.

Index	Stream	Resolution	Frame	Bitrate Type	Bitrate(Kbps)	Video	I Frame	Video	Profile
1	Main stream	1920x1080	25	CBR	2048	Highest	100	H264	High Profile
2	Sub stream	704x576	25	CBR	768	Highest	100	H264	High Profile
3	Third stream	352x288	25	CBR	512	Higher	100	H264	High Profile

Send Snapshot 2 Size: (704x576)

Video encode slice split

Watermark ( H264 , H265 ) Watermark content: \_\_\_\_\_

Click the “Audio” tab to go to the interface as shown below.



Three video streams can be adjustable.

**Resolution:** The size of image.

**Frame rate:** The higher the frame rate, the video is smoother.

**Bitrate type:** CBR and VBR are optional. Bitrate is related to image quality. CBR means that no matter how much change is seen in the video scene, the compression bitrate will be kept constant. VBR means that the compression bitrate will be adjusted according to scene changes. For example, for scenes that do not have much movement, the bitrate will be kept at a lower value. This can help optimize the network bandwidth usage.

**Bitrate:** it can be adjusted when the mode is set to CBR. The higher the bitrate, the better the image quality will be.

**Video Quality:** It can be adjusted when the mode is set to VBR. The higher the image quality, the more bitrate will be required.

**I Frame interval:** It determines how many frames are allowed between a “group of pictures”. When a new scene begins in a video, until that scene ends, the entire group of frames (or pictures) can be considered as a group of pictures. If there is not much movement in the scene, setting the value higher than the frame rate is fine, potentially resulting in less bandwidth usage. However, if the value is set too high, and there is a high frequency of movement in the video, there is a risk of frame skipping.

**Video Compression:** MJPEG, H264+, H264, H265, H265+ can be optional. If H.265/H.265+ is chosen, make sure the client system is able to decode H.265/H.265+.

**Profile:** For H.264. Baseline, main and high profiles are selectable.

**Send Snapshot:** How many snapshots to generate for an event.

**Video encode slice split:** If this function is enabled, smooth image can be gotten even though using the low-performance PC.

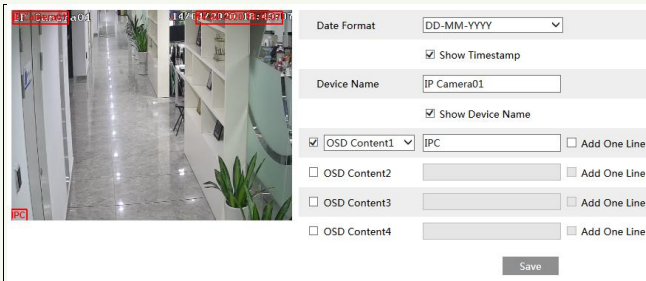
**Watermark:** When playing back the local recorded video in the search interface, the watermark can be displayed. To enable it, check the watermark box and enter the watermark text.

**Audio Encoding:** G711A and G711U are selectable.

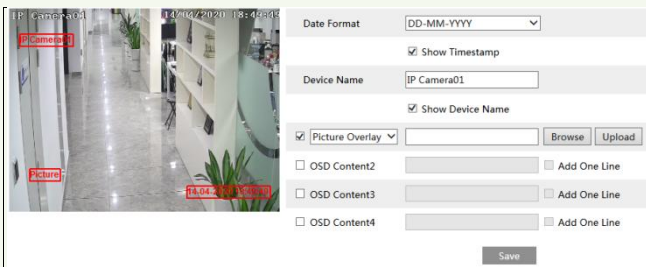
**Audio Type:** MIC.

### 6.2.3 OSD Configuration

Go to Image→OSD interface as shown below.



Set time stamp, device name, OSD content and picture overlap here. After enabling the corresponding display and entering the content, drag them to change their position. Then click the “Save” button to save the settings.

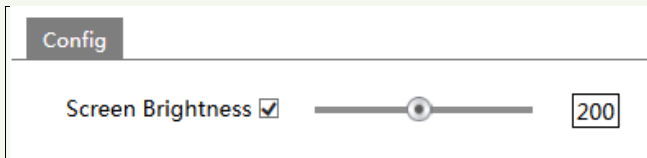


**Picture Overlay Settings:**

Check “OSD Content1”, choose “Picture Overlay” and click “Browse” to select the overlap picture. Then click “Upload” to upload the overlap picture. The pixel of the image shall not exceed 200\*200, or it cannot be uploaded.

**6.2.4 Screen Brightness**

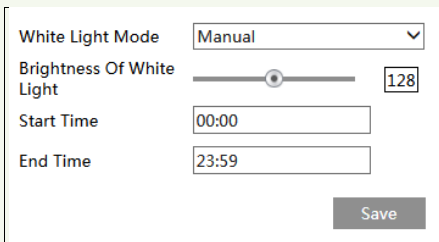
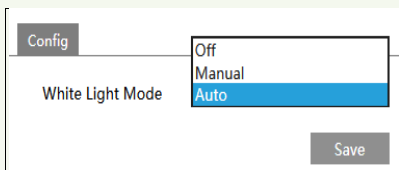
Click Config→Image→Screen Brightness to go to the following interface.



In this interface, you can set the brightness of the screen of the terminal. The adjustable range is from 150 to 255.

**6.2.5 White Light Control**

Click Config→Image→White Light Control to go to the following interface.



**White Light Mode:** “OFF”, “Manual” or “Auto” is optional. In low illumination condition, this mode can be enabled.

## 6.2.6 Face Exposure

To enable and set face exposure, please go to Config→Image→Face Exposure interface.



When the brightness of the captured face is not enough, it can be enabled.

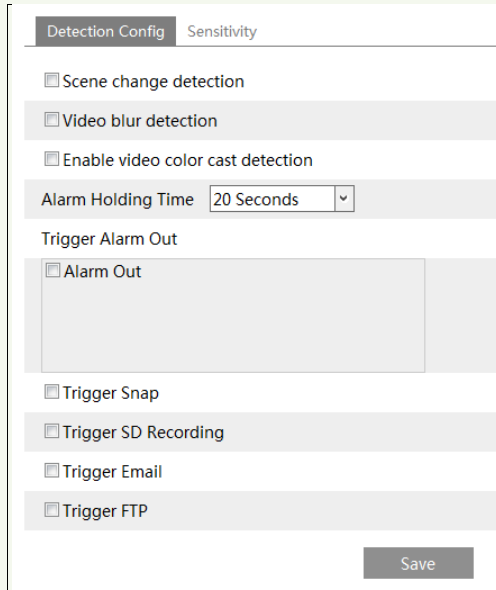
## 6.3 Alarm Configuration

### 6.3.1 Exception

This function can detect changes in the surveillance environment affected by the external factors.

To set exception detection:

Go to Config→Event→Exception interface as shown below.



1. Enable the applicable detection that's desired.

**Scene Change Detection:** Alarms will be triggered if the scene of the monitor video has changed.

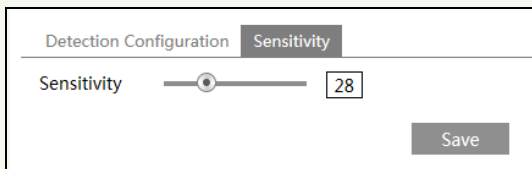
**Video Blur Detection:** Alarms will be triggered if the video becomes blurry.

**Enable Video Color Cast Detection:** Alarms will be triggered if the video becomes obscured.

2. Set the alarm holding time and alarm trigger options. The setup steps of alarm trigger options are the same as temperature screening settings. Please refer to temperature screening settings chapter for details.

3. Click "Save" button to save the settings.

4. Set the sensitivity of the exception detection. Click "Sensitivity" tab to go to the interface as shown below.



Drag the slider to set the sensitivity value or directly enter the sensitivity value in the textbox. Click "Save" button to save the settings.

**The sensitivity value of Scene Change Detection:** The higher the value is, the more sensitive the system responds to the amplitude of the scene change.

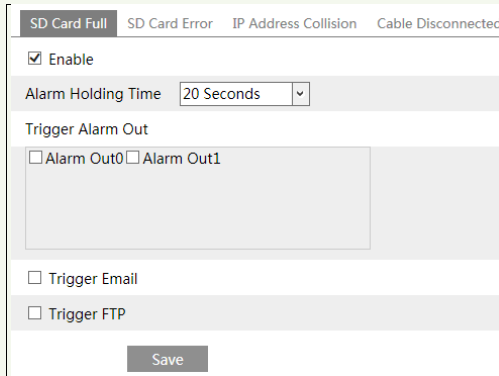
**The sensitivity value of Video Blur Detection:** The higher the value is, the more sensitive

the system responds to the blurriness of the image.

**The sensitivity value of Video Color Cast Detection:** The higher the value is, the more sensitive the system responds to the obscuring of the image.

### 6.3.2 SD Card Full

1. Go to Config→Alarm→Anomaly→SD Card Full.



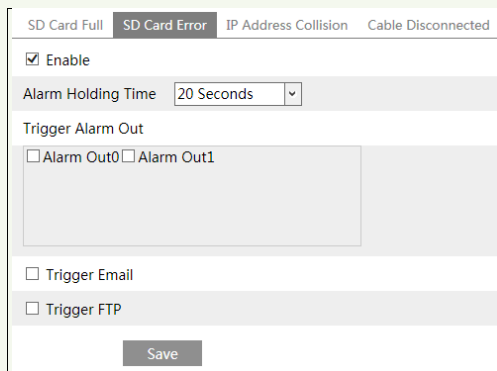
2. Click “Enable” and set the alarm holding time.

3. Set alarm trigger options. The setup steps are the same as temperature screening settings. Please refer to temperature screening settings chapter for details.

### 6.3.3 SD Card Error

When there are some errors in writing to the SD card, the corresponding alarms will be triggered.

1. Go to Config→Alarm→Anomaly→SD Card Error as shown below.

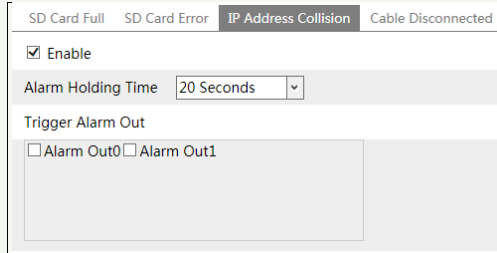


2. Click “Enable” and set the alarm holding time.

3. Set alarm trigger options. Trigger alarm out, Email and FTP. The setup steps are the same as temperature screening settings. Please refer to temperature screening settings chapter for details.

### 6.3.4 IP Address Conflict

1. Go to Config→Alarm→Anomaly→IP Address Collision as shown below.

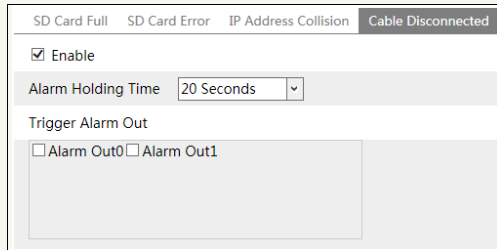


2. Click “Enable alarm” and set the alarm holding time.

3. Trigger alarm out. When the IP address of the camera is in conflict with the IP address of other devices, the system will trigger the alarm out.

### 6.3.5 Cable Disconnection

1. Go to Config→Alarm→Anomaly→Cable Disconnected as shown below.



2. Click “Enable” and set the alarm holding time.

3. Trigger alarm out. When the camera is disconnected, the system will trigger the alarm out.

### 6.3.6 Alarm In

To set sensor alarm (alarm in):

Go to Config→Alarm→Alarm In interface as shown below.

1. Select the sensor ID, click “Enable” and set the alarm type, alarm holding time and sensor name.
  2. Set alarm trigger options. The setup steps are the same as temperature screening settings. Please refer to temperature screening settings chapter for details.
  3. Click “Save” button to save the settings.
  4. Set the schedule of the sensor alarm. The setup steps of the schedule are the same as the schedule recording setup. (See [Schedule Recording](#)).
- Click “Apply settings to” to quickly apply the settings to the other alarm input.

### 6.3.7 Alarm Out

Go to Config→Alarm→Alarm Out.

**Alarm Out ID:** Select the alarm out ID.

**Alarm Out Mode:** Alarm linkage, manual operation, day/night switch linkage and timing are optional.

**Alarm Linkage:** Having selected this mode, select alarm out name, alarm holding time at the “Alarm Holding Time” pull down list box and alarm type.

**Manual Operation:** Having selected this mode, select the alarm type and click “Open” to trigger the alarm out immediately; click “Close” to stop alarm.

Alarm Out ID	Alarm Out0	▼
Alarm Out Mode	Manual Operation	▼
Alarm Type	NC	▼
Manual Operation	Open	Close
Save		

**Day/Night Switch Linkage:** Having selected this mode, select the alarm type and then choose to open or close alarm out when the camera switches to day mode or night mode.

Alarm Out ID	Alarm Out0	▼
Alarm Out Mode	Day/night switch linkage	▼
Alarm Type	NC	▼
Day	Close	▼
Night	Close	▼
Save		

**Timing:** Select the alarm type. Then click “Add” and drag the mouse on the timeline to set the schedule of alarm out; click “Erase” and drag the mouse on the timeline to erase the set time schedule. After this schedule is saved, the alarm out will be triggered in the specified time.

Alarm Out ID	Alarm Out0	▼
Alarm Out Mode	Timing	▼
Alarm Type	NC	▼
Time Range	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24</span> <span>○ Erase ● Add</span> </div> <hr/> <div style="display: flex; justify-content: space-between; align-items: center;"> <span>Manual Input</span> <span>Save</span> </div>	

## 6.4 Network Configuration

### 6.4.1 TCP/IP

Go to Config→Network→TCP/IP interface as shown below. There are two ways for network connection.



**Use IP address (take IPv4 for example)**-There are two options for IP setup: obtain an IP address automatically by DHCP and use the following IP address. Please choose one of the options as needed.

Test: Test the effectiveness of the IP address by clicking this button.

**Use PPPoE**-Click the “PPPoE Config” tab to go to the interface as shown below. Enable PPPoE and then enter the user name and password from your ISP.

Either method of network connection can be used. If PPPoE is used to connect internet, the camera will get a dynamic WAN IP address. This IP address will change frequently. To be notified, the IP change notification function can be used.

Click “IP Change Notification Config” to go to the interface as shown below.

**Trigger Email:** when the IP address of the device is changed, the new IP address will be sent to the email address that has been set up.

**Trigger FTP:** when the IP address of the device is changed, the new IP address will be sent to FTP server that has been set up.

### 6.4.2 Port

Go to Config→Network→Port interface as shown below. HTTP port, Data port and RTSP port can be set.

HTTP Port	<input type="text" value="80"/>
HTTPS Port	<input type="text" value="443"/>
Data Port	<input type="text" value="9008"/>
RTSP Port	<input type="text" value="554"/>

**HTTP Port:** The default HTTP port is 80. It can be changed to any port which is not occupied.

**HTTPS Port:** The default HTTPS port is 443. It can be changed to any port which is not occupied.

**Data Port:** The default data port is 9008. Please change it as necessary.

**RTSP Port:** The default port is 554. Please change it as necessary.

### 6.4.3 Server Configuration

This function is mainly used for connecting network video management system.

<input checked="" type="checkbox"/> Enable	
Server Port	<input type="text" value="2009"/>
Server Address	<input type="text"/>
Device ID	<input type="text" value="1"/>
<input type="button" value="Save"/>	

1. Check “Enable”.
2. Check the IP address and port of the transfer media server in the ECMS/NVMS. Then enable the auto report in the ECMS/NVMS when adding a new device. Next, enter the remaining information of the device in the ECMS/NVMS. After that, the system will automatically allot a device ID. Please check it in the ECMS/NVMS.
3. Enter the above-mentioned server address, server port and device ID in the corresponding boxes. Click the “Save” button to save the settings.

### 6.4.4 DDNS

If the camera is set up with a DHCP connection, DDNS should be set for the internet.

1. Go to Config→Network→ DDNS.

2. Apply for a domain name. Take www.dvr dyndns.com for example. Enter www.dvr dyndns.com in the IE address bar to visit its website. Then Click the “Registration” button.

Create domain name.

After the domain name is successfully applied for, the domain name will be listed as below.

NAME	STATUS	DOMAIN
654321ABC	✓	654321abc.dvr dyndns.com

3. Enter the username, password, domain you apply for in the DDNS configuration interface.

4. Click the “Save” button to save the settings.

## 6.4.5 RTSP

Go to Config→Network→RTSP.

<input checked="" type="checkbox"/> Enable	
Port	<input type="text" value="554"/>
Address	<input type="text" value="rtsp://IP or domain name:port/profile1"/>
	<input type="text" value="rtsp://IP or domain name:port/profile2"/>
	<input type="text" value="rtsp://IP or domain name:port/profile3"/>
Multicast address	
Main stream	<input type="text" value="239.0.0.0"/> <input type="text" value="50554"/> <input type="checkbox"/> Automatic start
Sub stream	<input type="text" value="239.0.0.1"/> <input type="text" value="51554"/> <input type="checkbox"/> Automatic start
Third stream	<input type="text" value="239.0.0.2"/> <input type="text" value="52554"/> <input type="checkbox"/> Automatic start
Audio	<input type="text" value="239.0.0.3"/> <input type="text" value="53554"/> <input type="checkbox"/> Automatic start
<input type="checkbox"/> Allow anonymous login (No username or password required)	
<input type="button" value="Save"/>	

Select “Enable” to enable the RTSP function.

**Port:** Access port of the streaming media. The default number is 554.

**RTSP Address:** The RTSP address (unicast) format that can be used to play the stream in a media player.

### Multicast Address

**Main stream:** The address format is

“rtsp://IP address: rtsp port/profile1?transportmode=mcst”.

**Sub stream:** The address format is

“rtsp://IP address: rtsp port/profile2?transportmode=mcst”.

**Third stream:** The address format is

“rtsp://IP address: rtsp port/profile3?transportmode=mcst”.

**Audio:** Having entered the main/sub stream in a VLC player, the video and audio will play automatically.

If “Allow anonymous login...” is checked, there is no need to enter the username and password to view the video.

If “auto start” is enabled, the multicast received data should be added into a VLC player to play the video.

**Note:**1. This camera support local play through a VLC player. Enter the RTSP address (unicast or multicast, eg. rtsp://192.168.226.201:554/profile1?transportmode=mcst) in a VLC player to realize the simultaneous play with the web client.

2. The IP address mentioned above cannot be the address of IPv6.

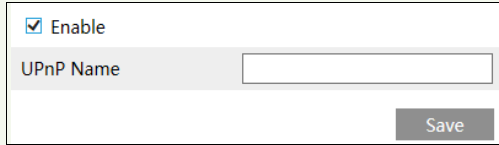
3. Avoid the use of the same multicast address in the same local network.

4. When playing the video through the multicast streams in a VLC player, please pay attention to the mode of the VLC player. If it is set to TCP mode, the video cannot be played.

5. If the coding format of the video of the main stream is MJPEG, the video may be disordered at some resolutions.

### 6.4.6 UPnP

If this function is enabled, the camera can be quickly accessed through the LAN. Go to Config→Network→UPnP. Enable UPNP and then enter UPnP name.

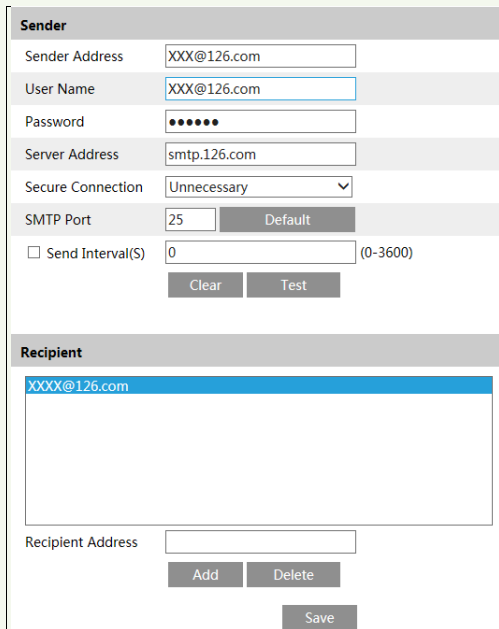


The form contains a checked checkbox labeled "Enable". Below it is a text input field labeled "UPnP Name". At the bottom right is a "Save" button.

### 6.4.7 Email

If you need to trigger Email when an alarm happens or IP address is changed, please set the Email here first.

Go to Config→Network →Email.



The form is divided into two sections: "Sender" and "Recipient".

**Sender section:**

- Sender Address: XXX@126.com
- User Name: XXX@126.com
- Password: ••••••
- Server Address: smtp.126.com
- Secure Connection: Unnecessary (dropdown menu)
- SMTP Port: 25 (with a "Default" button)
- Send Interval(S): 0 (with a range of 0-3600 and a checkbox)
- Buttons: Clear, Test

**Recipient section:**

- A list box containing "XXXX@126.com".
- Recipient Address: (empty text input field)
- Buttons: Add, Delete, Save

**Sender Address:** sender’s e-mail address.

**User name and password:** sender’s user name and password.

**Server Address:** The SMTP IP address or host name.

Select the secure connection type at the “Secure Connection” pull-down list according to

what's required.

**SMTP Port:** The SMTP port.

**Send Interval(S):** The time interval of sending email. For example, if it is set to 60 seconds and multiple motion detection alarms are triggered within 60 seconds, they will be considered as only one alarm event and only one email will be sent. If one motion alarm event is triggered and then another motion detection alarm event is triggered after 60 seconds, two emails will be sent. When different alarms are triggered at the same time, multiple emails will be sent separately.

Click the “Test” button to test the connection of the account.

**Recipient Address:** receiver's e-mail address.

### 6.4.8 FTP

After an FTP server is set up, captured pictures from events will be uploaded to the FTP server.

Go to Config→Network →FTP.

**Server Name:** The name of the FTP server.

**Server Address:** The IP address or domain name of the FTP.

**Upload Path:** The directory where files will be uploaded to.

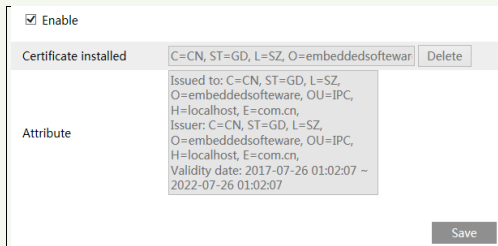
**Port:** The port of the FTP server.

**User Name and Password:** The username and password that are used to login to the FTP server.

### 6.4.9 HTTPS

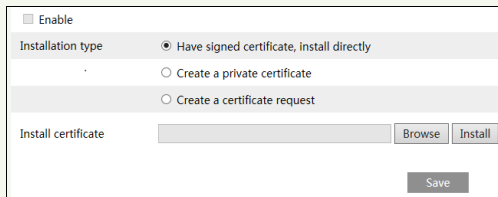
HTTPS provides authentication of the web site and protects user privacy.

Go to Config →Network→HTTPS as shown below.



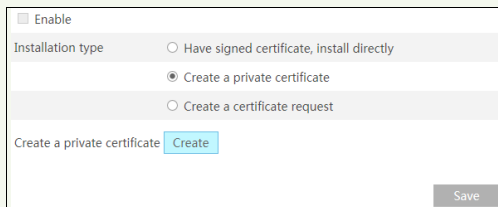
There is a certificate installed by default as shown above. Enable this function and save it. Then the camera can be accessed by entering https://IP: https port via the web browser (eg. https://192.168.226.201:443).

A private certificate can be created if users don't want to use the default one. Click "Delete" to cancel the default certificate. Then the following interface will be displayed.



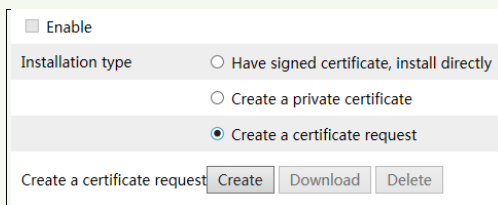
\* If there is a signed certificate, click "Browse" to select it and then click "Install" to install it.

\* Click "Create a private certificate" to enter the following creation interface.



Click the "Create" button to create a private certificate. Enter the country (only two letters available), domain (camera's IP address/domain), validity date, password, province/state, region and so on. Then click "OK" to save the settings.

\* Click "Create a certificate request" to enter the following interface.



Click “Create” to create the certificate request. Then download the certificate request and submit it to the trusted certificate authority for signature. After receiving the signed certificate, import the certificate to the device.

### 6.4.10 P2P (Optional)

If this function is enabled, the network camera can be quickly accessed by adding the device ID in mobile surveillance client or CMS/NVMS client via WAN. Enable this function by going to Config→Network→P2P interface.

P2P

Save

## 6.5 Security Configuration

### 6.5.1 User Configuration

Go to Config→Security→User interface as shown below.

Add    Modify    Delete			
Index	User Name	User Type	Binding MAC
1	admin	Administrator	

#### Add user:

1. Click the “Add” button to pop up the following textbox.

**Add User** [X]

User Name:

Password:

Level: \_\_\_\_\_

9~15 characters, including at least two of the following categories: numbers, special characters, upper case letters, lower case letters.

Confirm Password:

User Type: Administrator [v]

Bind MAC: 00:00:00:00:00:00

OK    Cancel



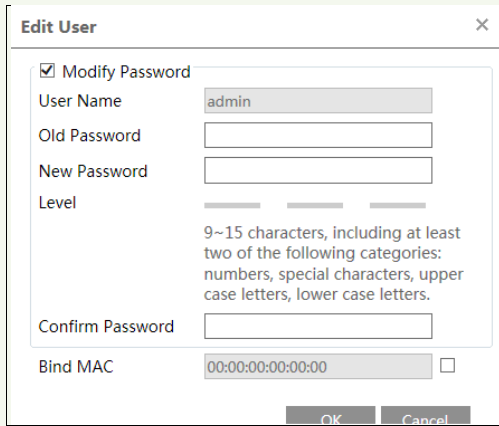
2. Enter user name in “User Name” textbox.
3. Enter the password in the “Password” and “Confirm Password” textbox. Please set the password according to the requirement of the password security level (Go to Config→Security→Security Management→Password Security interface to set the security level).

It is recommended to set a high level password that shall be composed of numbers, special characters, upper or lower case letters for your account security.

4. Choose the user type. Administrator has all permissions. Normal user can only view the live video. Advanced user has the same permissions as an Administrator except for; user, backup settings, factory reset, and upgrading the firmware.
5. Enter the MAC address of the PC in the “Bind MAC” textbox.  
If this option is enabled, only the PC with the specified MAC address can access the camera for that user.
6. Click the “OK” button and then the newly added user will be displayed in the user list.

**Modify user:**

1. Select a user to modify password and MAC address if necessary in the user configuration list box.
2. The “Edit user” dialog box pops up by clicking the “Modify” button.



3. Enter the old password of the user in the “Old Password” text box.
4. Enter the new password in the “New password” and “Confirm Password” text box.
5. Enter computer’s MAC address as necessary.
6. Click the “OK” button to save the settings.

**Note:** To change the access level of a user, the user must be deleted and added again with the new access level.

**Delete user:**

1. Select the user to be deleted in the user configuration list box.

2. Click the “Delete” button to delete the user.

**Note:** The default administrator account cannot be deleted.

### 6.5.2 Online User

Go to Config→Security→Online User to view the user who is viewing the live video.

Index	Client Address	Port	User Name	User Type	
1	192.168.17.232	55760	admin	Administrator	Kick Out

An administrator user can kick out all the other users (including other administrators).

### 6.5.3 Block and Allow Lists

Go to Config→Security→Block and Allow Lists as shown below.

The setup steps are as follows:

Check the “Enable address filtering” check box.

Select “Block/Allow the following address”, IPv4/IPv6/MAC and then enter IP address or MAC address in the address box and click the “Add” button.

### 6.5.4 Security Management

Go to Config→Security→Security Management as shown below.

In order to prevent against malicious password unlocking, “locking once illegal login” function can be enabled here. If this function is enabled, login failure after trying six times will make the login interface locked. The camera can be logged in again after a half hour or after the camera reboots.

- **Password Security**

Security Service	Password Security
Password Level	Weak ▼
Expiration Time	Never ▼

Please set the password level and expiration time as needed.

Password Level: Weak, Medium or Strong.

Weak level: Numbers, special characters, upper or lower case letters can be used. You can choose one of them or any combination of them when setting the password.

Medium Level: 9~15 characters, including at least two of the following categories: numbers, special characters, upper case letters, lower case letters.

Strong Level: 9~15 characters. Numbers, special characters, upper case letters and lower case letters must be included.

For your account security, it is recommended to set a strong password and change your password regularly.

## 6.6 Maintenance Configuration

### 6.6.1 Backup and Restore

Go to Config→Maintenance→Backup & Restore.

The screenshot displays a web-based configuration interface with three main sections:

- Import Setting:** Contains a text input field labeled "Path" with a "Browse" button to its right, and a dark grey button labeled "Import Setting" below it.
- Export Settings:** Contains a single dark grey button labeled "Export Settings".
- Default Settings:** Contains a "Keep" label followed by a light grey box with three unchecked checkboxes: "Network Config", "Security Configuration", and "Image Configuration". Below this box is a dark grey button labeled "Load Default".

- **Import & Export Settings**

Configuration settings of the camera can be exported from a camera into another camera.

1. Click "Browse" to select the save path for import or export information on the PC.
2. Click the "Import Setting" or "Export Setting" button.

- **Default Settings**

Click the "Load Default" button to restore all system settings to the default factory settings except those you want to keep.

## 6.6.2 Reboot

Go to Config→Maintenance→Reboot.

Click the "Reboot" button to reboot the device.

### Timed Reboot Setting:

If necessary, the camera can be set up to reboot on a time interval. Enable "Time Settings", set the date and time and then click the "Save" button to save the settings.

## 6.6.3 Upgrade

Go to Config→Maintenance→Upgrade. In this interface, the camera firmware can be updated.

**Local upgrade**

Path

1. Click the “Browse” button to select the save path of the upgrade file
2. Click the “Upgrade” button to start upgrading the firmware.
3. The device will restart automatically

**Caution!** Do not close the browser or disconnect the camera from the network during the upgrade.

### 6.6.4 Operation Log

To query and export log:

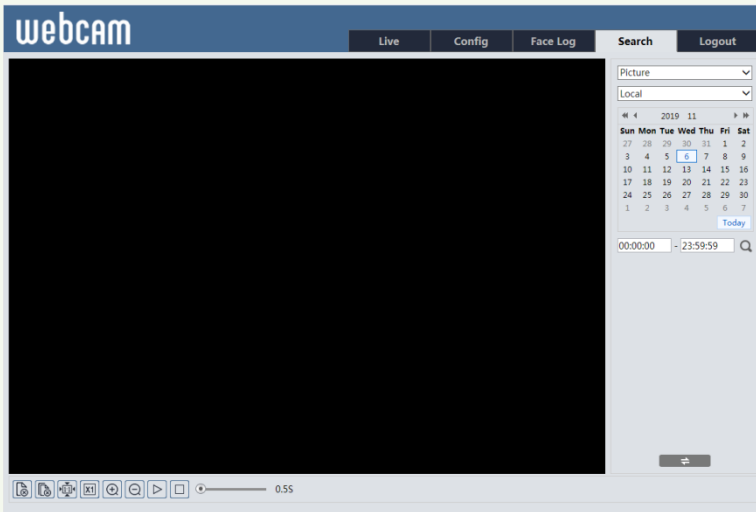
1. Go to Config→Maintenance→Operation Log.

Main Type: <input type="text" value="All log"/>		Sub Type: <input type="text" value="All log"/>			
Start Time: <input type="text" value="2015-07-14 00:00:00"/>		End Time: <input type="text" value="2015-07-14 23:59:59"/>		<input type="button" value="Search"/>	<input type="button" value="Export"/>
Index	Time	Main Type	Sub Type	User Name	Login IP
1	2015-07-14 11:15:18	Operation	Log in	admin	192.168.12.53
2	2015-07-14 11:12:02	Exception	Disconnected		192.168.12.53
3	2015-07-14 19:12:17	Exception	Disconnected		192.168.12.52


2. Select the main type, sub type, start and end time.
3. Click “Search” to view the operation log.
4. Click “Export” to export the operation log.

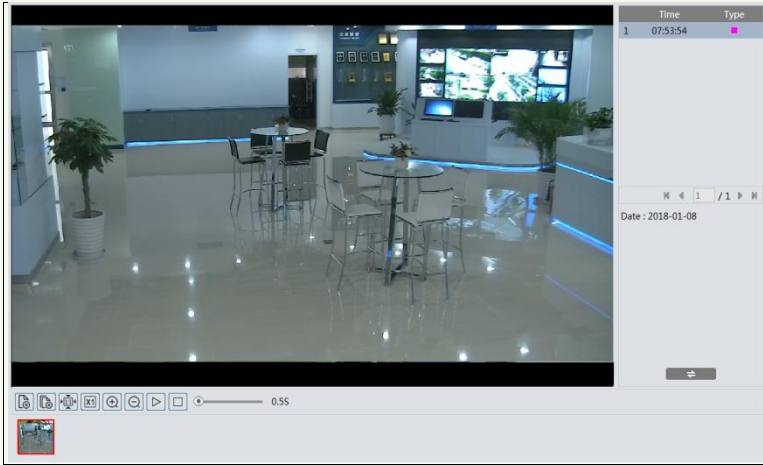
## 7.1 Image Search


Click Search to go to the interface as shown below. Images that are saved on the SD card can be found here.



### ● Local Image Search

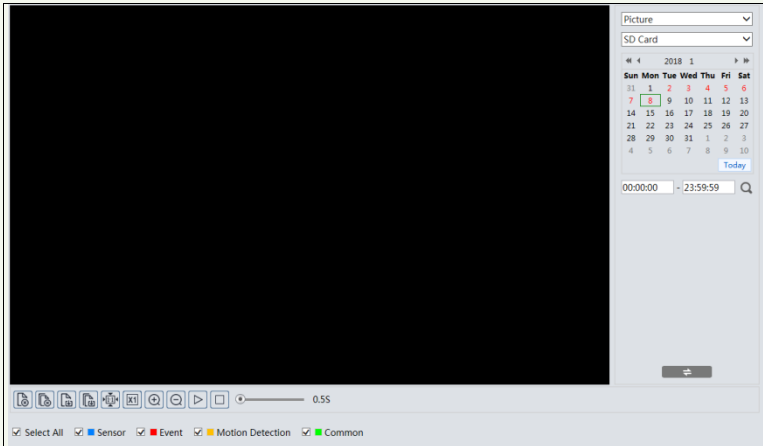
1. Choose “Picture”—“Local”.
2. Set time: Select date and choose the start and end time.
3. Click  to search the images.
4. Double click a file name in the list to view the captured photos as shown above.





Click  to return to the previous interface.












### ● SD Card Image Search

1. Choose “Picture”—“SD Card”.



2. Set time: Select date and choose the start and end time.
  3. Choose the alarm events at the bottom of the interface.
  4. Click  to search the images.
  5. Double click a file name in the list to view the captured photos.
- Click  to return to the previous interface.

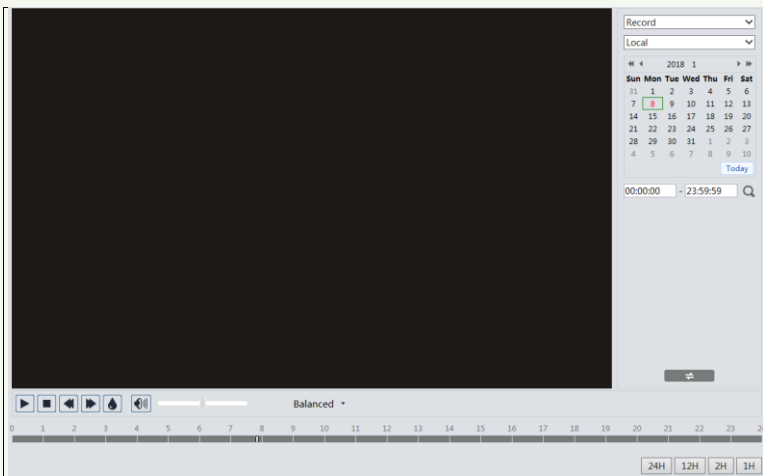
The descriptions of the buttons are shown as follows.


Icon	Description	Icon	Description
	Close: Select an image and click this button to close the image.		Close all: Click this button to close all images.
	Save: Click this button to select the path for saving the image on the PC.		Save all: Click this button to select the path for saving all pictures on the PC.
	Fit size: Click to fit the image on the screen.		Actual size: Click this button to display the actual size of the image.
	Zoom in: Click this button to digitally zoom in.		Zoom out: Click this button to digitally zoom out.
	Slide show play: Click this button to start the slide show mode.		Stop: Click this button to stop the slide show.
	Play speed: Play speed of the slide show.		

## 7.2 Video Search

### 7.2.1 Local Video Search







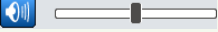
Click Search to go to the interface as shown below. Videos were recorded locally to the PC can be played in this interface.



1. Choose “Record”—“Local”.
2. Set search time: Select the date and choose the start and end time.
3. Click  to search the images.
4. Double click on a file name in the list to start playback.




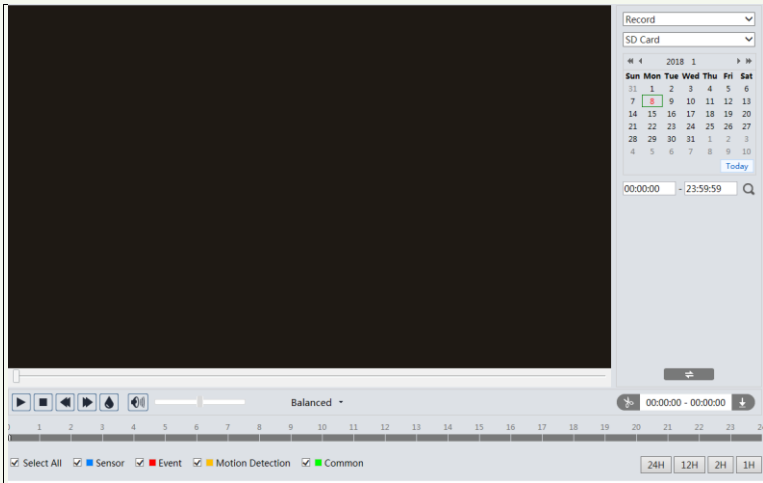


Icon	Description	Icon	Description
	Play button. After pausing the video, click this button to continue playing.		Pause button
	Stop button		Speed down
	Speed up		Watermark display
	Enable / disable audio; drag the slider to adjust the volume after enabling audio.		

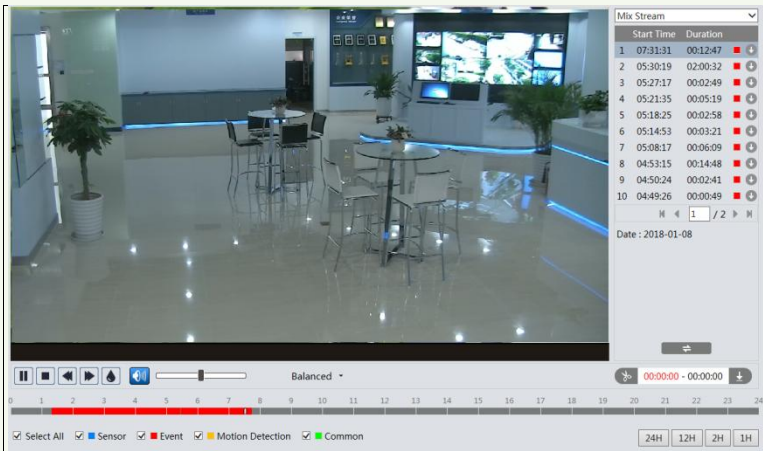
### 7.2.2 SD Card Video Search

Click Search to go to the interface as shown below. Videos that were recorded on the SD card can be played in this interface.

1. Choose “Record”—“SD Card”.
2. Set search time: Select the date and choose the start and end time.
3. Click  to search the images.







4. Select the alarm events at the bottom of the interface.
5. Select mix stream (video and audio stream) or video stream as needed.
6. Double click on a file name in the list to start playback.



The time table can be shown in 24H/12H/2H/1H format by clicking the corresponding buttons.

Video clip and downloading

1. Search the video files according to the above mentioned steps.
2. Select the start time by clicking on the time table.
3. Click  to set the start time and then this button turns blue ().
4. Select the end time by clicking on the time table. Then click  to set the end time.
5. Click  to download the video file in the PC.

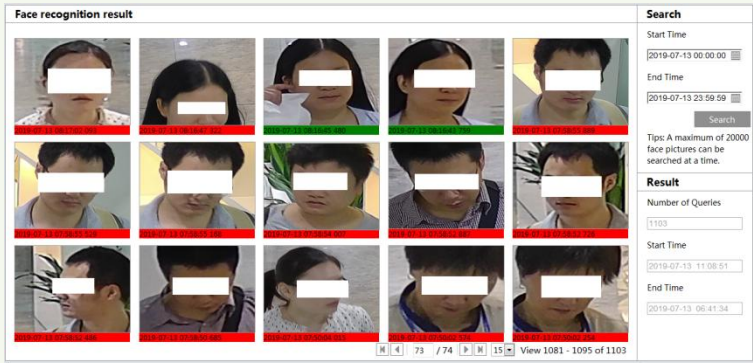
Index	Process	Record	Start Time	End Time	Path	Operate
1	100%	Cut	2018-01-16 01:1...	2018-01-16 01:1...	Favorites	Open

Set up D:\Favorites Clear List Close

- Click “Set up” to set the storage directory of the video files.
- Click “Open” to play the video.
- Click “Clear List” to clear the downloading list.
- Click “Close” to close the downloading window.

# 8 Face Match Result Search

Click “Face Log” tab to go to the face recognition result search interface.  
Set the start time and end time and click “Search” to view the face recognition result.



Red time tag means no comparison result. Green time tag means there is a comparison result.  
Click the picture with green time tag and then the face comparison information can be viewed as shown below.



## Appendix 1 Troubleshooting

### How to find the password?

A: Reset the device to the default factory settings.

Default IP: 192.168.226.201; User name: admin; Password: 123456

### Fail to connect devices through IE browser.

A: Network is not well connected. Check the connection and make sure it is connected well.

B: IP address is not available. Reset the IP address.

C: Web port number has been changed: contact administrator to get the correct port number.

D: Exclude the above reasons. Restore to default setting by IP-Tool.

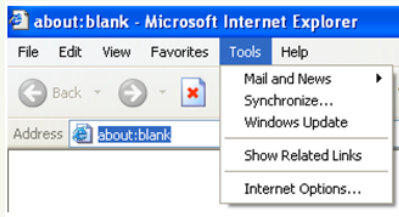
### IP tool cannot search devices.

It may be caused by the anti-virus software in your computer. Please exit it and try to search device again.

### IE cannot download ActiveX control.

A. IE browser may be set up to block ActiveX. Follow the steps below.

① Open IE browser and then click Tools-----Internet Options.

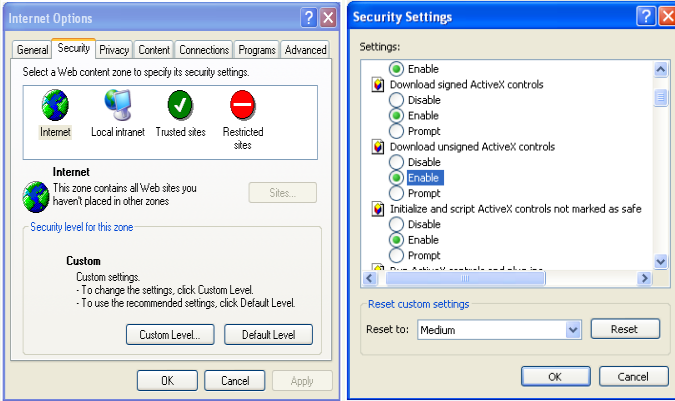


② Select Security-----Custom Level....

③ Enable all the options under “ActiveX controls and plug-ins”.

④ Click OK to finish setup.

B. Other plug-ins or anti-virus blocks ActiveX. Please uninstall or close them.



**No sound can be heard.**

A: Audio input device is not connected. Please connect and try again.

B: Audio function is not enabled at the corresponding channel. Please enable this function.

## Appendix 2 Specifications

Mode	2MP Temperature Screening & Face Recognition Terminal
<b>Performance</b>	
OS	Embedded Linux
Storage	8Gb DDR3 +16GB EMMC
<b>Screen</b>	
Display Screen	8inch LCD screen; resolution: 1280x800; contrast: 500:1
Brightness	500 lux
Control Interface	I2C
<b>Temperature Measurement</b>	
Temperature Measuring Range	0~50°C
Accuracy	±0.3°C
Measuring Distance	0.3~0.5m
<b>Face Recognition</b>	
Sensor	1/2.7
Lens	2MP dual-lens, f=3.97mm @ F1.6
Lens Mount	M12
WDR	120db
Height Range of Face Recognition	1.2m-2.2m (the recommended installation height is 1.45m)
Face Recognition Distance	0.3m-2m
Recognition Mode	Face: 1 : N
Recognition Duration	≤ 0.5 s per person
Face Capacity	20,000
Recognition Accuracy	99.7%
<b>Supplementary Light</b>	
Fill-in Light	Soft white light, IR light
White Light Distance	1-3m
<b>Smart Linkage</b>	
Screen Wakeup	Yes
Light Adjustment	Yes
Snapshot	Yes
<b>Audio</b>	
Two-way Talk	Yes (noise reduction and echo cancellation)
Audio Input	1CH built-in MIC
Audio Output	Built-in speaker
<b>Interface</b>	
Network Interface	10/100Mbps self-adaptive Ethernet port x1

Alarm Input	2CH
Alarm Output	2 CH
Wiegand Interface	Wiegand input/output ( 26/34 )
RS485	RS485x1 (half duplex)
Door Lock Output	Relay output, NO/NC(optional), delay setting supported
SD Card Interface	1 micro SD card slot, up to 128G
USB Interface	USB x1
Anti-Tamper Interface	1 button
Exit Button	1
Reset Button	1
<b>Others</b>	
Power	12V @1A
Power Management	Screen sleep, screen protection
Power Consumption	<12W
Weight	Approx. 1.2KG
Installation	Wall Mounting , Pole Mounting, Embedded Installation, Desktop
Certificate	RoHS2.0, REACH, WEEE, CE, FCC
Protection	IP66, Surge Protection and Voltage Transient Protection
Working Environment	-20 ℃~60 ℃ , <95% (non-condensing)
Dimensions(mm)	301.8x138.6x34.2



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