



## **IR-2IPR03 2MP FACE RECOGNITION CAMERA**

### **OPERATION MENU**





**Version: V1.0**

**Doc. No.: 1071018001**



# Safety information

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK. DO NOT OPEN	
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



This symbol indicates that dangerous voltage consist a risk of electric shock is present within this unit. Megapixels



This exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## WARNING

- To prevent damage that may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.
- To prevent injury, this apparatus must be securely attached to the floor / wall in accordance with the installation instructions.

## WARNING

1. Be sure to use only the standard adapter that is specified in the specification sheet using any other adapter could cause fire, electric shock, or damage to the product.
2. Incorrectly connecting the power supply or replacing battery may cause explosion, fire, electric shock, or damage to the product.
3. Do not connect multiple cameras to a single adapter. Exceeding the capacity may cause the abnormal heat generation or fire.
4. Securely plug the power cord into the power receptacle, insecure connection may cause fire.
5. When installing the camera, fasten it securely and firmly. The fall of camera may cause personal injury.
6. Do not place conductive objects (e.g. screwdrivers, coins, metal parts, etc.) or containers

filled with water on top of the camera. Doing so may cause personal injury due to fire, electric shock, or falling objects.

7. If any unusual smells or smoke come from the unit, stop using the product. In such case, immediately disconnect the power source and contact the service center. Continued use in such a condition may cause fire or electric shock.
8. If this product fails to operate normally, contact the nearest service center and never disassemble or modify this product in any way. (I-View is not liable for problems caused by unauthorized modifications or attempted repair.)
9. When cleaning, do not spray water directly onto parts of the product. Doing so may cause fire or electric shock.


## **CAUTION**

- Do not drop objects on the product or apply strong shock to it. Keep away from a location subject to excessive vibration or magnetic interference.
- Do not install in a location subject to high temperature (over 50°C), low temperature (below -10°C), or high humidity. Doing so may cause fire or electric shock.
- If you want to relocate the already installed product, be sure to turn off the power and then move or reinstall it.
- Remove the power plug from the outlet when there is a lightning. Neglecting to do so may cause fire or damage to the product.
- Keep out of direct sunlight and heat radiation sources. It may cause fire.
- Install it in a place with good ventilation.
- Avoid aiming the camera directly towards extremely bright objects such as sun, as this may damage the CCD image sensor.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.
- Do not expose the camera to radioactivity. Radioactivity exposure may damage the CCD.

## IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, or other apparatus (Including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
- Unplug this apparatus when a card is used. Use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



 Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

## **SAFETY INFORMATION**

### **FCC STATEMENT**

This device complies with part 15 of the FCC Rules. Operation is subject to the following 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.

### **CAUTION**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### **Correct Disposal of This Product (Waste Electrical & Electronic Equipment)**

This marking on the product, accessories or literature indicates that the product and its electronic accessories should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



## About This Guide

### Conventions used in this guide

To make sure that you perform certain tasks properly, take note of the following symbols to use throughout this manual.



**WARNING:** Information to prevent injury to yourself when trying to complete a task.



**CAUTION:** Information to prevent damage to the components when trying to complete a task.



**IMPORTANT:** Information that you must follow to complete a task.



**NOTE:** Tips and additional information to aid in completing a task.

## Trademark

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Microsoft, Windows 95, 98, ME, Windows2000, XP, Vista, 7 and 8 are registered trademarks of Microsoft Corporation. All other trademarks are the property of their respective holders.

## Customer Support

If technical problems arise with the use of our products in which you and your vendor cannot resolve, please try the following: If you have an Internet connection, visit the I-View website <http://www.i-view.com.tw> (Taiwan) for any software or product updates, or email to [support@i-view.com.tw](mailto:support@i-view.com.tw) (Taiwan) or Tel: 886-3-510-3001 Fax: 886-3-510-3002 (Taiwan). We are dedicated to providing the highest quality support. E-mailing our tech support will give you the chance to document each of the above items in a very clear and concise manner and will give our support team a chance to document any problems and respond with thoroughly researched answers.

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# Chapter 1. Introduction

## 1-1.Highlights of your new Network IP Camera

Congratulates on purchasing this 2 Mega pixels Face recognition network IP Bullet Camera! This IP Camera provides 2-Mega pixels high-resolution video quality, with its advanced megapixel lens; you can view remote images in more detail than conventional close-circuit cameras.

Other highlights of this network IP Camera include:

- Autonomous depth learning core algorithm of Face recognition.
- Capture accuracy  $\geq 99\%$ , which supports the function of image quality score filtering face and removing duplication.
- Onvif compliant and RTSP protocol support.
- H.265 compression saves bandwidth and storage size.
- Built-in 802.3af compliant PoE.
- Support multi IVA (Intelligent Video Analysis) function.
- Up to 30 fps @2MP video resolution.
- Auto alarm when SD card failed, Network failed, IP address conflict, Illegal access.
- Support export/import/restore system configuration for backup purpose.
- Adjustable auto reboot schedule by day, weekly.
- Removable IR-cut filter supports threshold adjustable for Day & Night used.
- Quick Zoom® to simple the Zoom and Focus adjustment remotely.
- Smart IR Illuminators adjust the IR LED light across the entire area to get a well illuminated image, effective up to 30 meters.
- Vandal-proof IK10-rated, IP 66 Weather-proof rated Housing.
- True WDR Enhancement for Unparalleled Visibility in Extremely Bright and Dark Environments.
- H.265/H.264 /MJPEG multiple simultaneous streams.
- On-camera motion detection and privacy mask.
- Anti-cut cable and junction box design for Protected Installation.
- Pixel Counter and FPS display on the video for image clarity measurement to get the optimum video quality and file size.
- Virtual ePTZ for efficiency surveillance.



- ROI (Region of Interest) encoding is used to enhance the quality of images which are specified in advance.
- Wide operation temperature ( $-20^{\circ}\text{C} \sim 55^{\circ}\text{C}$ ) range.

IR-2MIPR03 Series	
<b>System</b>	
<b>Platform:</b> 32-Bits image process DSP ; 512MB Flash; 1024MB DDR II RAM and Linux O.S.	
<b>Image Device</b>	
1/2" 2MP Sony Starlight progressive CMOS sensor. .	
<b>Video Setting</b>	
<p><b>Compression: Video:</b> 16KM ~ 32M bits/sec (CBR/VBR configurable) H.265MP/H.264 HP/MP/BP, M-JPEG; <b>Audio:</b> G.711 <math>\mu</math>-low/ Codec (8K sample rate)</p> <p><b>Resolution: Main Streaming:</b> 1920×1080, 1280×720, D1, 640*480, 352 x 288.</p> <p style="padding-left: 40px;"><b>Sub streaming:</b> 1280×720, D1 (720*576) ,640x480, 640x360, and 350×288.</p> <p style="padding-left: 40px;"><b>Third Streaming:</b> 1920×1080, 1280×720, D1, 640*480, 352 x 288.</p> <p><b>Frame Rate:</b> 2MP: 30 fps @ H.265/H.264/M-JPEG Mode; Frame rate can be adjustable by user.</p> <p><b>Streaming:</b> Multi-Stream H.265MP/H.264 Base/Main/High Profile and Motion JPEG video streaming</p> <p><b>Control:</b> Brightness, Contrast, Saturation, Sharpness, Hue, Exposure, Motion detection, Mirror, Corridor mode, Shutter, Privacy mask, Flicker less, 3D Noise reduction, Defog, IRIS, AES, Gamma, AWB, AGC, BLC, WDR, ROI, Audio gain, Alarm in/out. IVS trigger recording by scheduling, Network Failed, IP address Conflict, Illegal Access, HDD (SD) error, HDD Full, Alarm triggered, Frame/Bit rate display, Export/Import configuration, Reboot, Restore..</p> <p><b>Color:</b> Color: 0.1 Lux /F1.2; B/W: 0.05/F1.2 Lux, 0 Lux IR LED on.</p> <p><b>WDR:</b> 100dB True WDR; Off/DWDR/TWDR/Off 4 modes.</p> <p><b>Shutter:</b> Slow shutter Auto / Fixed: 1/1s~1/100,000s</p> <p><b>S/N Ratio:</b> More than 50dB</p> <p><b>Overlay:</b> Text / Time Stamp; support more than OSD 80 characters,</p> <p><b>Front size:</b> position &amp; Color adjustable by user.</p> <p><b>Configure</b> Import/Export parameters, Restore, Default setup</p>	
<b>Audio Setting</b>	

<p>G.711 <math>\mu</math>   G.711A, G.726   ADPCM audio encoding and decoding;</p> <p>2-way audio; External Microphone input (Line in/Mic in); Speaker output.</p> <p>2Vp-p audio input and audio output with 600 <math>\Omega</math> impedance.</p>
<b>IVA Functions (Optional)</b>
<p>Object Counting, Unattended /Missing Object, Loitering, Tripwire Detection. Smart Motion detection, Color Cast, Lose Focus, Image Expose, Image Dark, Video Loss, Video Occlusion , Network Failed, IP address Conflict, Illegal Access, Object Detection</p>
<b>Network</b>
<p><b>Protocol:</b> IP4, IP6, HTTP, HTTPS, SSL, TCP, ICMP, IGMP, RTSP, RTP, RTCP, RTMP, UDP, SNTP, SMTP, FTP, DHCP, DNS, DDNS, NTP, PPPoE, uPnP, Multicast.</p> <p><b>Interface:</b> RJ-45; 10BASE-T/100 BASE-TX.</p> <p><b>Compatible:</b> Onvif compliant</p>
<b>IVA</b>
<p>Face Recognition, Face Detect, Human Detect, Retrograde Detect, Density Detect, Object Counting, Unattended, Object Detection, Missing, Object Detection, Loitering, Detection, Tripwire Detection, Motion Detection, Color Cast Detection, Lose Focus Detection, Image Expose Detection, Video Loss Detection, Video Tamper Detect.</p>
<b>Management</b>
<p><b>Time:</b> Manual Time Setting; Time Server, NTP support and Real Time Clock.</p> <p><b>Event Trigger:</b> Events triggered by IVA, the sensor with the configured schedule.</p> <p><b>Event notification:</b> Notification via Pop up video, move PTZ camera preset, send email and trigger alarm output.</p> <p><b>Update:</b> Online Firmware update.</p>
<b>Browser</b>
<p>Internet Explorer 7.0 and above; Chrome, Safari, Firefox with Quick time Plug-In.</p>
<b>Video Setting</b>
<p><b>Compress:</b> H.265/MP, H.264 HP/MP/BL, M-JPEG compression.</p> <p><b>Frame Rate:</b> 25fps @4MP, 30fps for all resolution; Frame rate and bit rate adjustable.</p>

<p><b>Bit Rate:</b> 16K–8M Bits/sec. CBR/VBR mode.</p> <p><b>Configure:</b> Import/Export parameters, Restore, Default setup</p> <p><b>Resolution:</b></p> <p>Streaming 1: 1920 x1080P, 1280 x720, 720x576, 640x480, 352x288.</p> <p>Streaming 2: 1280 x720, 720x576, 640x480, and 352x288.</p> <p>Streaming 3: 1920 x1080P, 1280 x720, 720x576, 640x480, 352x288.</p> <p><b>Control:</b> Brightness, Contrast, Saturation, Sharpness, Hue, Exposure, Motion detection, Mirror, Corridor mode, Shutter, Privacy mask, Flicker less, 3D Noise reduction, Defog, IRIS, AES, Gamma, AWB, AGC, BLC, HLC, WDR, ROI, ePTZ, Audio gain, Alarm in/out, Slow shutter, IVS trigger, Network Failed detect, SD card filed detect, Gamma, Power Frequency, IP address Conflict, Illegal Access, Alarm triggered, Frame/Bit rate display.</p> <p><b>Shutter:</b> Slow shutter, Auto / Fixed: 1/1s~1/100,000s</p> <p><b>WDR:</b> <math>\geq 120</math> dB; True WDR/DWDR/OFF Mode.</p> <p><b>Illumination:</b> Color: 0.01 Lux /F1.2; B/W: 0.005/F1.2 Lux, 0 Lux IR LED on.</p> <p><b>White Balance:</b> Auto, Customized, Pre-define modes.</p> <p><b>Overlay:</b> Text / Time Stamp; support more than OSD 80 characters, Front type, Front size, position &amp; Color adjustable by user.</p> <p><b>Image Display Mode:</b> Full, 4:3, 16:9, Original image.</p>
<b>Security</b>
Password Protection, User access log, Multi-level user access with password protection.
<b>I/O Port</b>
DC power in, RJ-45, Audio in x1; Audio out x1, SD Card, Alarm in x2, Alarm out, Reset.
<b>Lens &amp; IR LED</b>
<p><b>Lens:</b> Vari Focal: <math>f= 2.7</math>-12mm/F1.4; 6-22mm/F1.4; 5-50mm/F1.4</p> <p><b>Motorized:</b> <math>f= 2.8</math>-12mm/F1.4 ; 2.8-12mm/F1.4; 5-50mm/F1.4</p> <p>P-IRIS or DC-IRIS (Optional).</p> <p><b>IR Cut:</b> Built-in removable IR-cut filter for day &amp; night function</p> <p><b>IR Illuminators:</b> 3 pieces VCSEL IR Illuminators effective up to 30 meters.</p>

<b>IR LED Controller:</b> Support Smart Auto/Off/Manual IR LED control.
<b>Surge Protector</b>
<b>Power:</b> 2KV @ 1.2/50μS Common mode. <b>Signal:</b> 6KV@ 102/700μS Differential mode.
<b>Storage</b>
IVA trigger, Alarm trigger, Network failed, Backup device configuration to SD card, HDD and FTP, Up to128G SD card storage capability.
<b>Housing</b>
Aluminum housing with IP 66 Waterproof & IK10 Vandal resistant and 3-Axis bracket design.
<b>Dimension/Weight</b>
Ø 93 mm x 95.5 mm x 263 mm / 0.9 Kg (Including bracket).
<b>Operation</b>
<b>Power:</b> Maximum 3 W & 8W(IR LED On); PoE IEEE 802.3af Class 3; DC12V <b>Temperature:</b> Temperature -20°C ~ 55°C; Humidity 20% ~ 80% RH.
<b>Certificated</b>
CE, FCC, RoHS, IP66.

## 1-2.Packaging Contents

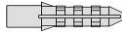
Check the contents of your new Network IP Camera when you unpack the package. If any item is missing, please contact your dealer of purchase for help. The package includes items as below:

- following items: Network IP Camera x 1ea
- Bundle NVR & CMS software CD x 1ea
- User manual x 1ea
- Power jack to terminal block converter x 1ea

- Screw driver x 1ea

- Mount panel x 1 ea

- Accessory package x 1 set



➔ Anchor 7x27 \* 3 ea



➔ Screw 4 x27 Tp1 Bnd Sus \*3 ea

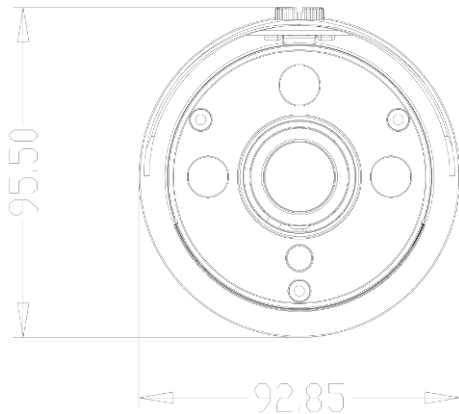
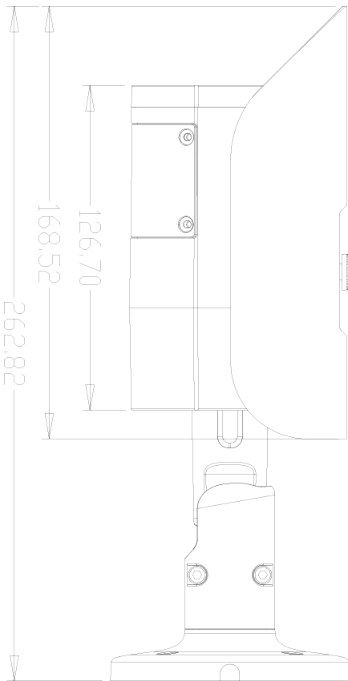


➔ Hexagon wrench 3.0mm L type \* 1 ea

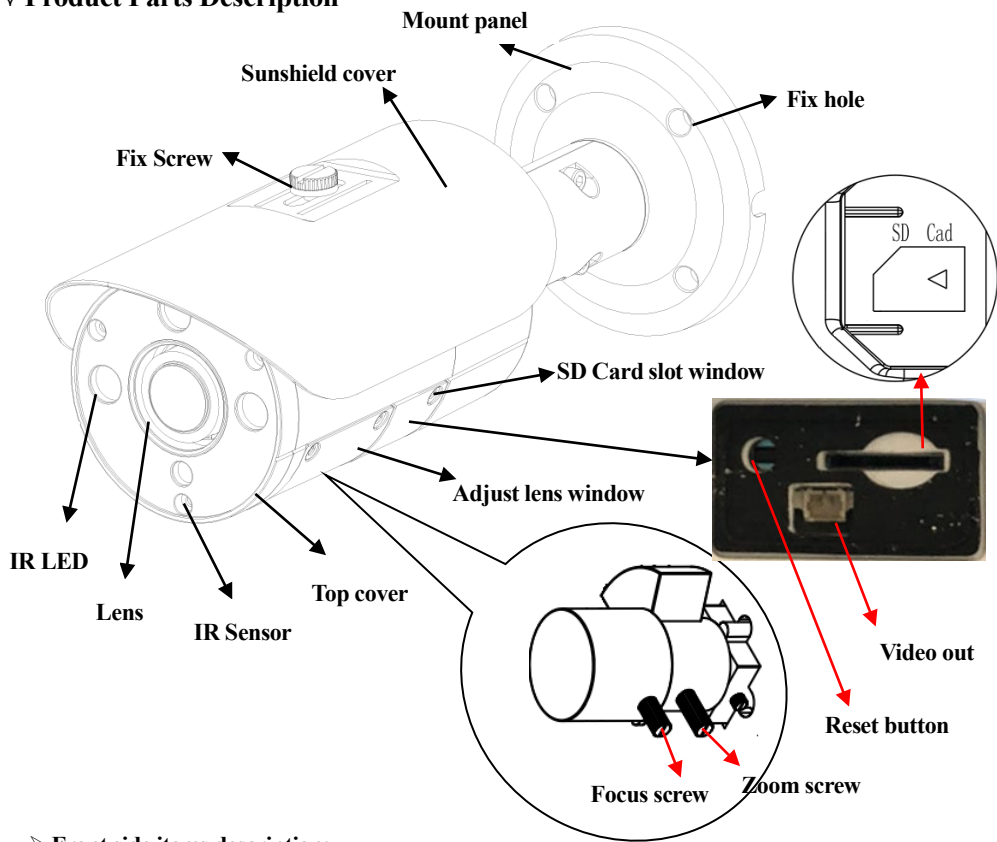


➔ Hole mount sticker \* 1ea

## 1-3.Product Dimension



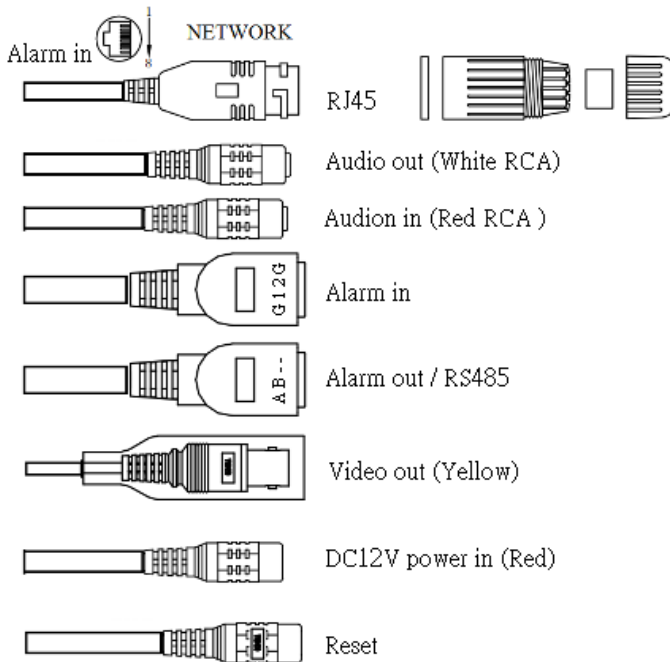
## ✧ Product Parts Description



### ➤ Front side items description:

- 1. Sunshield cover:** It protects the camera from the direct sunlight.
- 2. IR LED:** These infrared LED's are controlled by the illumination sensor.
- 3. Illumination Sensor:** Detects incoming light to control the IR LED.
- 4. Mount panel:** Mount the camera and wall/ceiling.
- 5. SD card slot:** Micro SD card slot allow plugging up to 128 G or higher SD card. (Option)
- 6. Video out:** 2 pin connector for the video out.
- 7. Reset button:** Press 5-10 seconds for hardware reset the setting parameters to default.
- 8. Network port:** Plug the RJ-45 LAN cable. This port support water proof tube and comes with the POE+ power source.
- 9. Audio output:** Plug Speaker (Request audio amplify) for audio output. (White RCA port).

- 10. Audio input:** Plug in Microphone for audio input (Red RCA port).
- 11. Alarm in #1:** Connect to the sensor input (Dry contact). Alarm in - (Pin 1); Alarm in + (Pin 2), Ground (Pin 3 &4)
- 12. Alarm out/RS-485:** Alarm out (Pin3 - & Pin4 -) connects to the trigger device such as light. RS485 for the PTZ controller (Pin1 A & Pin2 B).
- 13. Video out:** Composite video single output. (Yellow BNC port)
- 14. Power cable:** Connect to DC12V power adapter when use none POE Hub. (Red DC jack)
- 15. Reset:** Press 20 Seconds the reset button and the camera parameters will become to default.





## Chapter 2. Camera Installation

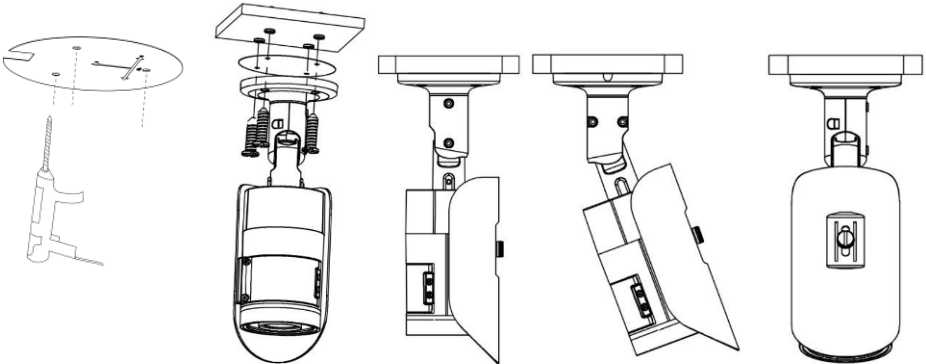
### 2-1. Wall Mount installation

#### ✧ Wall Mount installation

##### ➤ Fix the camera

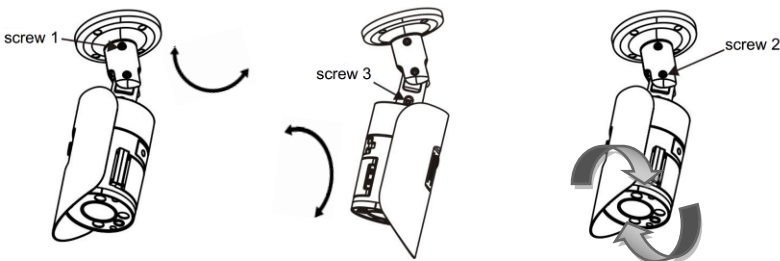
This camera is waterproof and in compliance with the IP66 spec, but the jack connected to the external cable is not. You are recommended to install this product below the edge of eaves to prevent the cable from being externally exposed.

- 1) Paste the hole mount sticker on the position that you want to install.
- 2) Use the mount hole sticker to make a hole of 30mm in diameter for passing cable, and drill another four holes on the wall to fix bracket mount.
- 3) Insert the anchors to fix the screws with the Mount panel.



##### ➤ Adjust camera angle from bracket mount (Please refer the photo as below)

- 1) Use the Hexagon wrench to loosen the bolt and to rotate the bracket to suitable position.
- 2) Adjust horizontal, vertical or rotate camera body angle of the camera.
- 3) Use the Hexagon wrench to tighten a bolt after adjusting the camera.



Horizontal adjustment for bracket

Vertical adjustment for bracket

Horizontal adjustment for camera body

## Chapter 3. Running IP Camera by Witness Pro NVR software

### 3-1. Network Deployment

#### General Connection (without PoE)



1. Connect RJ45 Ethernet cable to a switch. Use a Category 5 Cross Cable when your network camera is directly connected to PC.
2. Connect the power cable from the Network Camera to a power outlet.
3. If you have external devices such as sensors and alarms, make the connection from the general I/O terminal block

#### Power over Ethernet (PoE)



The Network Camera is PoE-compliant, allowing transmission of power and data via a single Ethernet cable. Follow the above illustration to connect the Network Camera to a PoE-enabled switch via Ethernet cable.

### 3-2. Install Witness Pro NVR software

You can use your new Network IP Camera by its web user interface v There is a NVR software CD comes with IP camera which allow you run 32/64 channels IP cameras on a PC. Please follow the steps below to complete the installation of Witness Pro NVR software.

- While into Windows, and insert the I-View DVR software CD into a CD/DVD drive.
- Select the NVR64 or NVR32 software



Fig. 1-3-1.1 Installation Menu

**Step 3.** Select the installation language and press the “OK” button to continue.



Fig. 1-3-1.2 Choose a setup language

**Step 4.** Press the “Next” button to start the installation process..

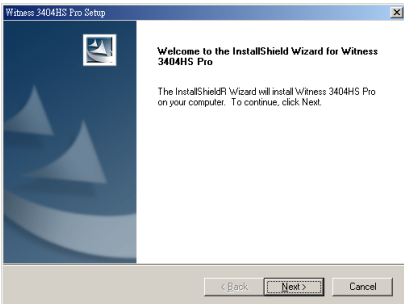
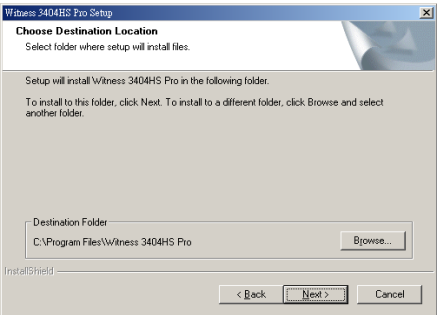


Fig. 1-3-1.4 Installation Startup

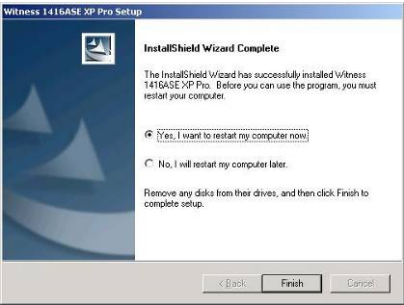
**Step 5.** Click the **“Browse”** button to install into a different directory, otherwise click on the **“Next”** button to install the software into the proposed director.

Fig. 1-3-1.5 Installation



**Step 6.** Select **“No, I will restart my computer later”** and press on the **“Finish”** button to exit.

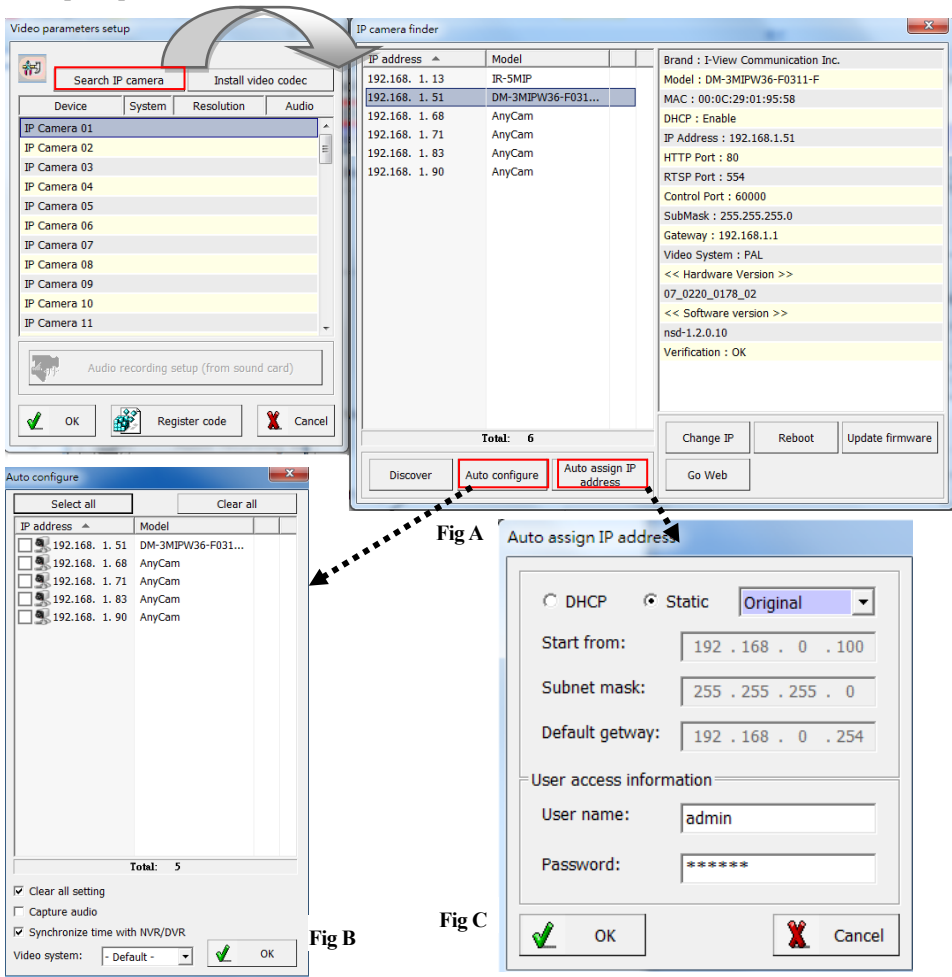
Fig. 1-3-1.9 Restart the computer



### 3-3. Setting IP camera for Witness Pro NVR software

When you first time run the Witness Pro NVR program and there is no IP camera setting on the system, so the NVR will pop up the “ezSetup” program for the IP cameras configuration. This setup window may differ greatly depending on your NVR model.

#### 1. Setup the parameters of IP cameras



➤ **Search IP camera:** Click this icon will auto search IP cameras of I-View brand. You can refer to the Fig A diagram. Move the Mouse and click to the IP camera which you want to selected and double click that the detail information will show the right site; you can do the change the setting

for this IP camera individually.

- **Install video codec:** Install the video codec of this IP camera when you connect IP camera at first time, if the IP camera cannot show the video on the screen.

The detail setting of Fig A diagram description as below:

- ✧ **Discover:** Click “**Discover**” icon to research the IP address of system.
- ✧ **Auto configure** section- Click this icon to configure the selected IP cameras to NVR’s channel automatically. Please refer the diagram shown as above **Fig B**.
  - **Clear all setting:** Check this icon and all previous channels setting will be clean.
  - **Capture audio:** You can record sound by microphone from audio input port of IP camera.
  - **Synchronization with the NVR time:** Check to synchronize the time of IP camera with NVR when run the NVR program.
  - **Video system:** Select the video system of IP camera to match your country.

**Auto assign IP address** section- Click this icon to assign the IP address to all IP cameras automatically. You can use the Static or DHCP IP address mode. There are two setting modes for the Static IP address; one is “Original” the other is “User define”. Please refer the diagram shown as above **Fig C**.

**Original-** The IP address which want to change to static IP address will same as the searched IP address.

**User define-** The user can assign the segment of IP address for IP camera. Please make sure the process as below before do this process:

- a. There is no conflict between the define IP address and the other device of the same LAN.
- b. The Username/Password of all IP cameras is the same.



This function uses for the I-View’s IP camera only.

- ✧ **Change IP:** Click “**Change IP**” icon to setup the DHCP or Static IP address for individual IP cameras. After modification, click “**OK**” icon to confirm the setting.
- ✧ **Update firmware:** Click “**Update firmware**” icon to update the newest IP camera firmware; you can check and download the newest firmware version from our website: [www.i-view.com.tw](http://www.i-view.com.tw).
- ✧ **Reboot:** Click “**Reboot**” icon to restart this IP camera.
- ✧ **Go Web:** Click “**Go Web**” icon to enable the I.E. Browser to check/setup the detail parameters.

## 2. Setup the parameters of Individual IP camera

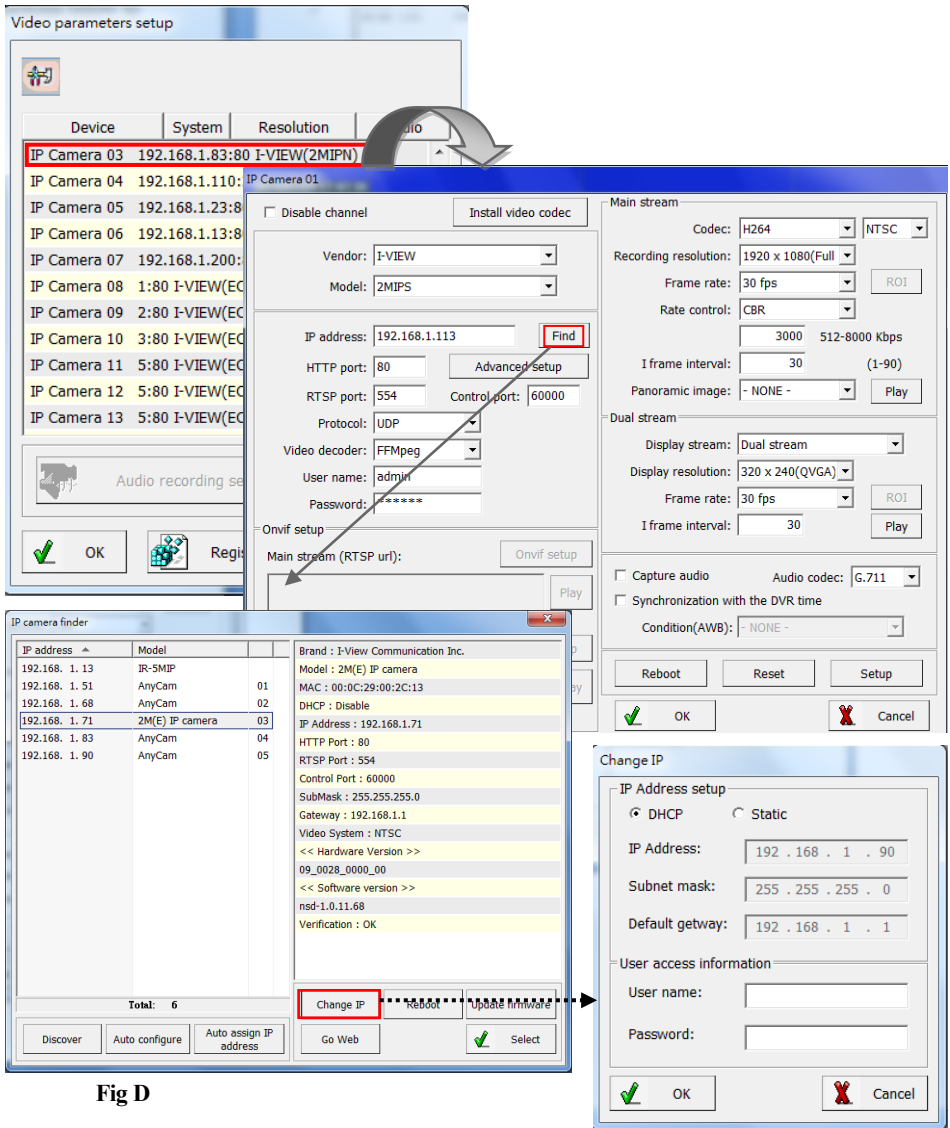


Fig D

This section will allow you setup the parameters for individual IP camera for I-View's and the other brand.

➤ **Disable channel:** This will disable the selected channel when enable this function.

- **Install video codec:** Install the video codec of this IP camera when you connect IP camera at first time, if the IP camera cannot display the video on the screen.
- **Vendor & Model:** Select the correct brand and model for the connected IP camera. You also can select “Onvif” if your IP camera support Onvif compliant and not on the list. You can check the used camera support Onvif compliant from: <http://www.onvif.org>. Click “ **Onvif setup** ”icon to setup the parameters or entry RTSP command code directly which you want to run on the Hybrid DVR or NVR.
- **Compress:** Select the suitable codec for video recording and transmission.
- **Recording resolution:** Select the resolution for video recording and display.
- **Frame rate:** Select the frame rate for video recording and display.
- **Rate Control:** You can choice video quality or bit rate from this tab. Good video quality or large bit rate request bigger storage capability.
- **IP address:** Entry the correct IP address for the connected IP camera. If you do not know the IP camera’s IP address, you can click “**Find**” icon to find out the currently connected IP cameras
- **User name & Password:** The user name and password must be matched the setting of IP camera which you want to connect.
- **Find:** Click this icon to find out all the currently connected IP cameras on the list. Click the IP camera and find out the information of each IP camera. Please refer the diagram shown as above **Fig D**. Click the IP address and “**Select**” icon, the network information of this IP camera will be added for this channel. The Fig D diagram please refers to “**1. Setup the parameters of All IP cameras (For I-View’s IP camera only)**” Section
- **Advance setup:** Click this icon will enable the detail parameters setting of IP camera. You need to load the Active X if this NVR is activated this process at first time.



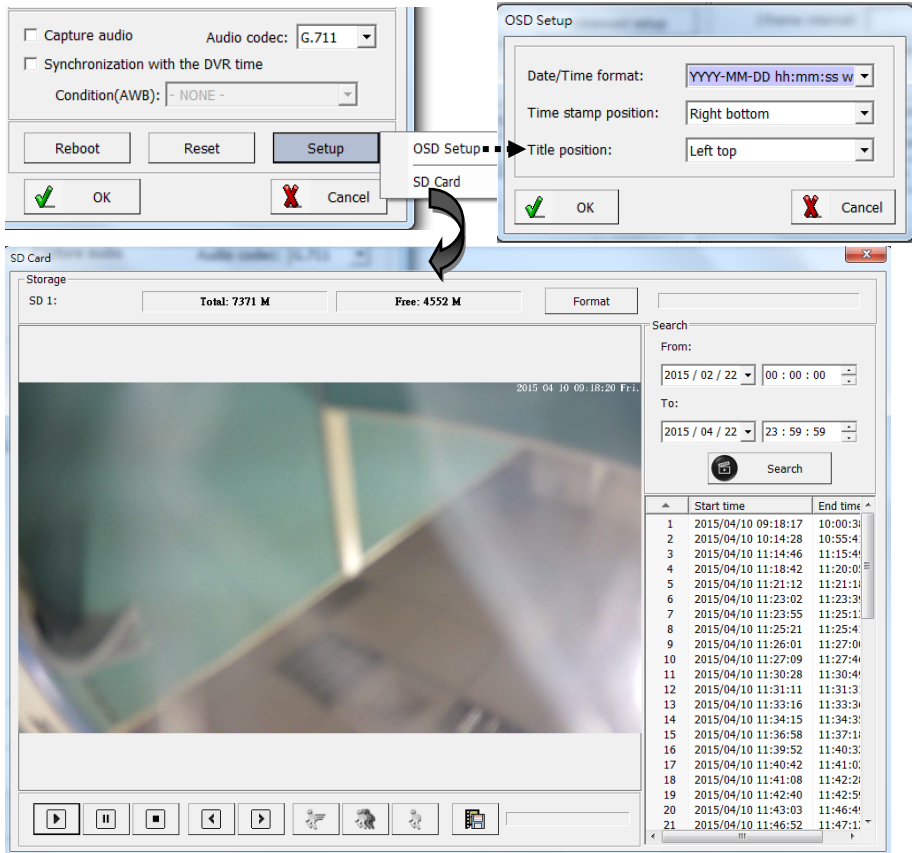
The difference IP camera brand has its own “**Find**” and “**Advance setup**” setup diagram and setting process. For the detail information, please refer to the IP camera operation menu.

- **HTTP port & RTSP port:** The both port number must be matched the setting of IP camera which you want to connect.
- **Display streaming:** You can select the “**Dual streaming**” or “**None**” mode; If you select the “**Dual streaming**” mode, the live display video will show lower resolution for split video and higher resolution (same as recording resolution) for pop-up to single video on the screen. This



Dual streaming mode allows display multi video and save a huge CPU loading.


- **Condition (AWB):** Choice the parameters to suit for the camera install location.
- **Reboot:** Click this icon will reboot the IP camera.
- **Setup:** Click this icon for detail setting of IP camera (refer to I-View's IP camera; maybe there are some difference setting diagram when used difference models); you may not need to I.E. Browser for the detail IP camera setting. Please refer the diagram as below:



**OSD setup:** Click this icon to configure the Time stamp format, Time stamp position and Camera Title position.

**SD setup:** Click this icon to setup the SD card configures and description as below:

- a. **Format:** Click this icon will format the SD card. You need to stop the recording video clip from I.E. Browser before you do this process.

- b.  :Click this icon to save the video clips from SD card to HDD of your PC.
- c. **Search:** Click this icon and the search time period from SD card. The video clips information will list on the table list. You can playback the video clips of SD card without download them. The icon function description as below:



**Increase speed** – Increase the speed of playback.



**Decrease speed** – Decrease the speed of playback.



**Normal speed** – Adjust the playback speed to normal.



**Play** – Play video.



**Pause** – Pause video.



**Stop** – Stop video.



**Previous frame** – Jump to the previous frame of video clip.



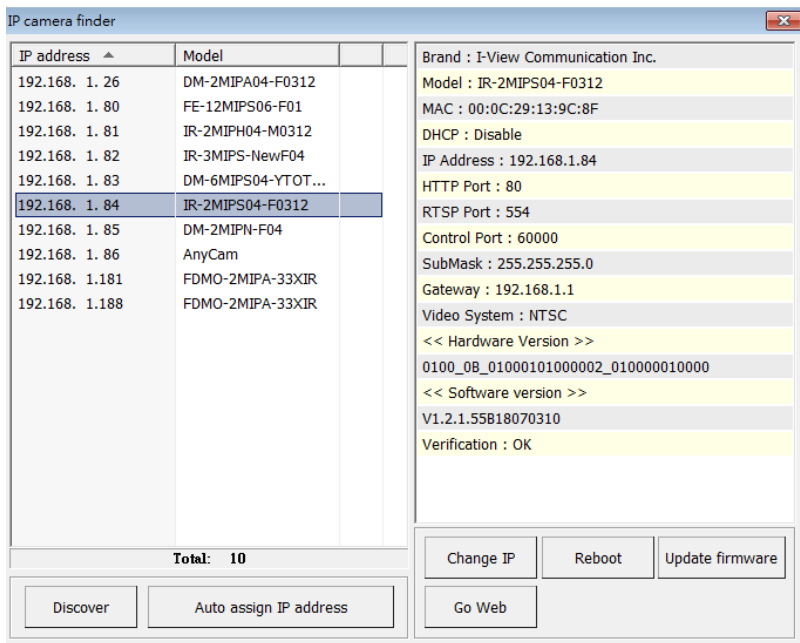
**Next frame** – Jump to the next frame of video clip.

## Chapter 4. Accessing IE, Chrome, Safari and Firefox Browser

You can use your new Network IP Camera by its web user interface via IE, Chrome, Safari and Firefox.

You must know the IP address of IP Camera before you can connect to it. The IP Camera will use DHCP server on your local network to obtain an IP address automatically by default. So, you can check your DHCP server's IP address lease table to find the IP address of IP Camera or also can use the utility program '**IP Camera Finder.exe**' to find the IP address, which is come with the CD. Follow up the processes to find out the IP address of IP camera by IP Search utility as below.

**Step 1.** Click "**IP Camera Finder.exe**" program will show the window as below.



**Step 2.** Press "**Discover**" button to search for all IP Cameras on your local network.

**Step 3.** If you need to change IP address, double click the Mouse on the selected IP Camera and then change the IP address and Gateway IP, then click the "**OK**" button to save the setting.

**Step 4.** If you no longer need to use this utility, click "**X**" button to close it.



The default User name / Password is "**admin** / **123456**" and IP address is 192.168.0.123.



Make sure all IP Cameras are powered on and connect to local network first.



If you have several network connections, please disable connections that are not connected to IP camera, otherwise the IP Search Tool.exe program may fail to search IP camera.

#### 4-1. Install Plug-in on IE, Chrome, Safari and Firefox Browser |

You can connect to the IP camera by Internet Explorer or other web browsers for remote viewing by entering IP address in address bar. When you connect to IP Camera, the use login screen will appear when you get connected. Please entry the user name / password to login. Continue pressing the



icon will show the text of password.

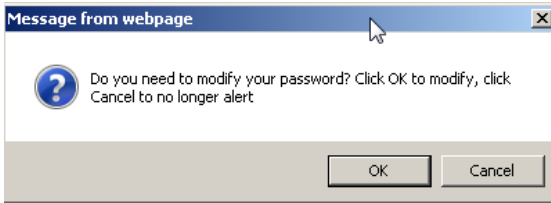


The default User name / Password is “admin / 123456” and IP address is 192.168.0.123

If you connect to IP Camera first time from IE or Chrome, Safari and Firefox Browser, please follow up the process as below:

1. Please select the “IE Plug-in” from “Plug-in Type” section when you want to access IP camera via IE Browser. Select the “Flash Plug-in” from “Plug-in Type” section when you want to access IP camera via Chrome, Safari and Firefox Browser.
2. Please click “Download Plug-in”. (Please refer the above photo).
3. Download the Plug in and double click to install the program.
4. Please turn off the Browser when you install the Plug-in program.
5. Turn on the Browser when the Plug-in program install completely.
6. Entry the IP, username, password to access the IP camera.

For security reason, it will pop up change password message when you log in and pass the checking. Click "Ok" to set up a new password for next time login, press "Cancel" icon to ignore this message.



## 4-2. Using RTSP Players

To view the video streaming media using RTSP players, you can use one of the following players that support RTSP streaming such as Quick Time Player, Real Player, VLC media player

1. Launch the RTSP player.
2. Choose File > Open URL. A URL dialog box will pop up.
3. The address format is `rtsp://<ip address>:<rtsp port>/<RTSP streaming access name for stream1 or stream2 or streaming 3>`.



The RTSP command code as below:

Main streaming: RTSP://User name:Password@ IP Address: RTSP Port /ch01.264

Sub streaming: RTSP://User name:Password@IP Address:RTSP Port/ch01\_sub.264

Third streaming: RTSP://User name:Password@IP Address:RTSP Port/ch01\_third.264

**For example:**

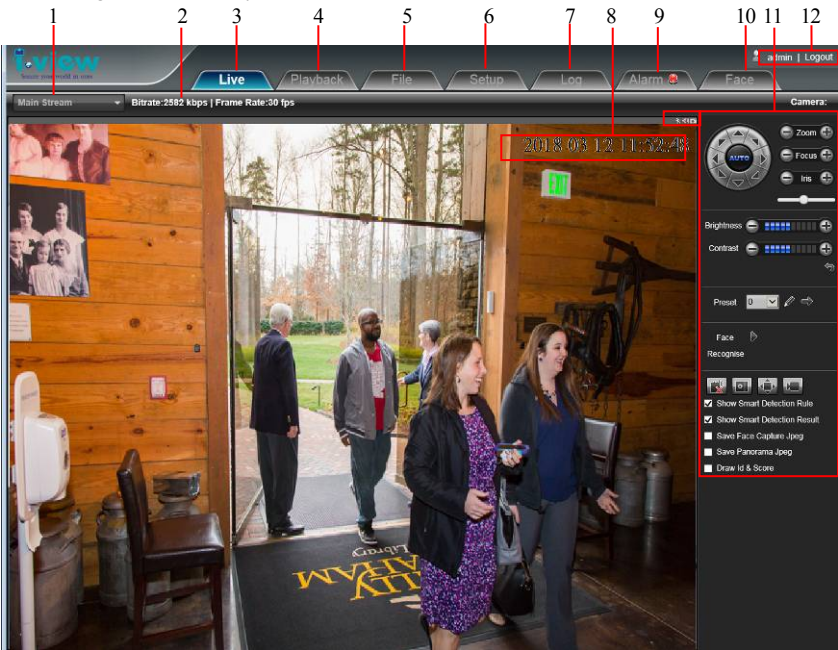
`rtsp://admin:123456@192.168.1.185:554/ch01.264` (Main streaming)

`rtsp://admin:123456@192.168.1.185:554/ch01_sub.264` (Sub streaming)

`rtsp://admin:123456@192.168.1.185:554/ch01_third.264` (Third streaming)


### 4-3. The Function Description of Live Window

After Plug-in is installed, you should be able to see the live video from IP camera as below.



This section introduces the function buttons of live window. You can test the IP camera function from your Brower. The button functions are as below:

1. **Main /Sub/Third Streaming:** You can toggle switch the Main streaming and Sub streaming to display on the screen.
2. **BPS/FPS information:** Display current transmit bit rate and frame rate of IP camera on here.
3. **Setup:** Click this icon to setup the parameters of IP camera
4. **Live:** Click this icon to display the video of IP camera.
5. **Playback:** You can playback the video clips /snapshot of HDD or SD card. The detail process will describe on later chapter.
6. **File:** Click this icon to playback video clips or snapshot from the Hard disk or SD card.
7. **Log:** Click this icon to search the event view log of IP camera.
8. **Time Stamp and camera name:** Paste the time stamp and camera name on the image. You can select the display position.

9. **Alarm:** The  icon will flash when event is triggered. Click this icon will show the event table diagram as below.

Alarm Information			
Ch	Event Type	Start Time	End Time
<div>Clear Alarm</div>			

- 10.**Face:** You can setup the parameters of Face recantation such as black list, white list Database, confidence, schedule...etc. The detail process will descript on later chapter.
- 11.**Control Panel:** Control Pan/Tile/Zoom, Video parameter...etc. The detail functions will description on next page.
- 12.**Logout:** Click this icon to log out.
- 13.**Exit:** Click this icon to exit the I.E. browser viewing.

### Control Panel function description



#### For Motorized Lens model only.

Press “+” for Zoom in, Focus near and enlarge IRIS.

Press “-” for Zoom out, Focus far and smaller IRIS.



Press “+” to increase the value of “Brightness /Contract “.

Press “-” to decrease the value of “Brightness /Contract “

Click  becomes to default setting.



- Voice intercom:** Click this button to enable 2-Way audio communicates between the PC and IP camera. Click the icon again that the 2-way audio function will be turned off. IP camera must install the

2Vp-p level or above Microphone and Speaker (built-in amplifier). The audio setup of IP camera can refer to the “ Audio setup chapter “.



**Capture:** Click this button, to snap the current image and save it as JPG format automatically.

The default save path is **C:\Program Files\PREVIEW**, and the storage path is changeable.



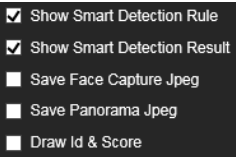
**Full Screen:** Press button or double right click Mouse to enable full screen image. Press the “**Esc**” key or double right click Mouse again will restore the display screen.



**Record:** Click this icon and the icon become to blue (Recording On), click this icon again the icon will become to black (Recording Off). The recording video clips with the AVI format.



Check this icon will enable Face recognition function. The result will show on the side of bar.



**Show Smart Detection Rule:** Check it the setting status of Smart detection will display on the screen.

**Show Smart Detection Result:** Check it the event result of Smart detection will pop up on the screen.

**Save Face Capture Jpeg:** Check it the face photo will save into the SD card or HDD when the face is detected.

**Save Panorama Jpeg:** Check it the full size photo will save into the SD card or HDD when the face detected.

**Draw ID & Score:** Check it the Face ID and score will display on the image when the face is detected.



**a b c** : The icon on the top, the function description as below:

- a. The icon will change to red color when motion detection is triggered.
- b. Click to disable speaker and click again to disable.
- c. Click to snapshot and save the image automatically.



## 4-4. The Function Description of Setup Window

Click “**Setup**” icon to start setup the parameters of IP camera. You can configure basic IP camera settings like data transfer protocol and data storage folder...etc.

### ➤ **Device Information:**

**Information:** Click this button to check the current Mac number, Firmware version, model, and also allow you entry the camera name on the “Device name:” tab.

- **Device Name:** Edit the camera name or location, then the test will show on the right top of frame.
- **Device Type:** Display the device type.
- **Serial No. :** Display the IP camera serial No.
- **Firmware version:** Display the current Firmware version of IP camera.
- **Hardware version:** Display the current Hardware version of IP camera.
- **Save:** Click **Save** to change the setting.



- **QR Code (Option):** Click this button will show the QR code for the download path of Mobile phone and Table PC App. As for the QR code of Device ID that for the peer to peer connection via App. The App can suit for the Android, iPhone Mobile phone and i-Pad Table PC. Scan QR code into your mobile App, then you can remote viewing /Recording the IP camera video and also can control the PTZ IP camera.

- **PTZ Setting:** Click this button to setup the PTZ setting parameters.



- **Time Setting:** Click this button to setup the time clock, NTP and DST time zone.

#### **Time setting:**

- ✧ Click the Device time section to adjust the Date/Time, and then click the “Timing” to finish the time clock adjustment. Click “PC” icon, then the IP camera will synchronize time with PC.
- ✧ Time Zone: Configuring Time Synchronization Manually. When the IP Camera is taken to another time zone, you can use the Time Zone function to adjust the time. The time will be adjusted according to the original time and the time difference between the two time zones. From the Time Zone drop-down menu to select the Time Zone in which the speed dome locate
- ✧ GMT: Adjust the time to make it more exactly.

#### **NTP Setting:**

- ✧ **Server Address:** Entry the IP address of NTP server.
- ✧ **NTP Port:** Entry the port number of NTP server. The default port number is 123.
- ✧ **Interval:** Entry the interval period and the IP camera will synchronize the time with NTP server base on the setting period.



the IP Camera is connected to a public network, you should use a NTP server that has a time synchronization function, such as the server at the National Time Center (IP Address: 210.72.145.44). If the IP Camera is set in a customized network, NTP software can be used to establish a NTP server for time synchronization.

## NTP Setting:

Check “**Enable DST**” icon and then select the DST period and DST bias time.

**Time Settings**

Device Time: 2018-09-12 19:08:28 Timing PC

Time Zone: GMT+08:00 Beijing

GMT: 08:00

**NTP Settings**

NTP Enable ☒

Server Address:

Interval: 0 hour

**DST**

Enable DST ☒

From: January 1Week Sun

0Hour 0Minute

To: January 1Week Sun

0Hour 0Minute

DST Bias: 0 Minute

Save

✧ **Save:** Check “**Save**” icon to set up the setting parameters.

➤ **Audio Settings:** Click this button to setup the Time stamp and Text OSD position.

**Audio Settings**

Audio Source:

Input Volume: (0~100)

Output Volume: (0~100)

Save

✧ **Audio Source:** Select the audio source from Mic in or Line in.

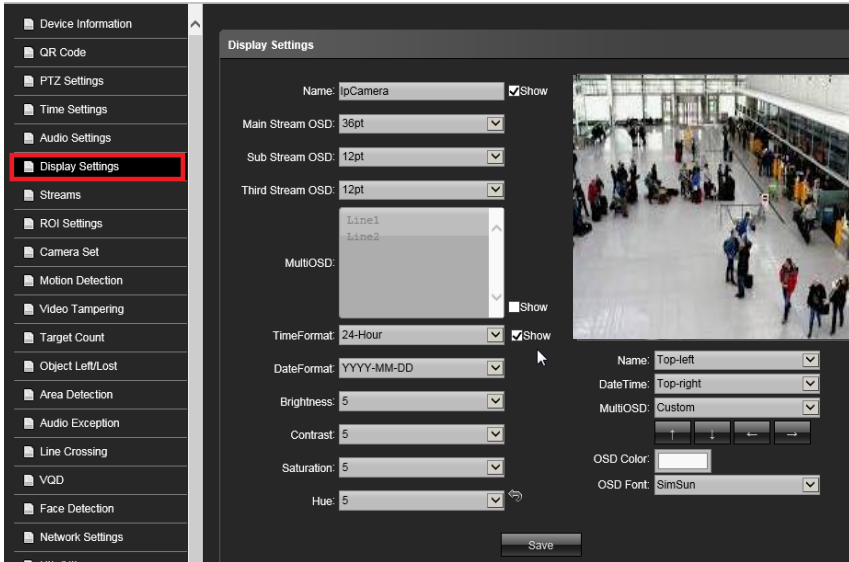
✧ **Encoding Format:** Select the audio encoding types, G711u, G711A, G726, ADPCM mode.



✧ **Input Value:** Adjust the audio input Value, the high number get larger audio in. 0 is mute.

✧ **Output Value:** Adjust the audio output Value, the high number get larger sound. 0 is mute.

✧ **Save:** Check “**Save**” icon to set up the setting parameters.

➤ **Display Settings:** Click this button to setup the Time stamp and Text OSD position.



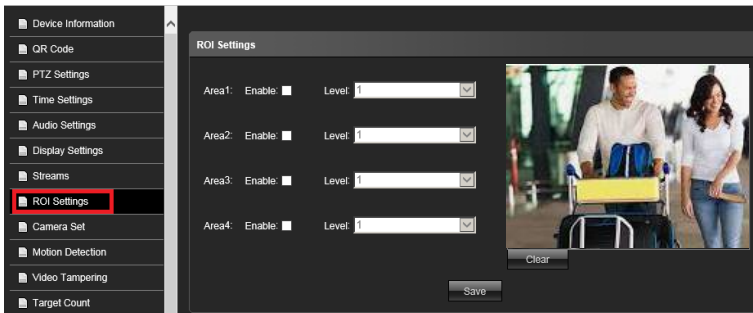
- ✧ **Name:** Check “**Show**” icon and entry the device name or location to show the text on the screen.
- ✧ **Main/Sub/Third Stream OSD:** Choose the size of name front which want to show on the main /Sub/Third stream.
- ✧ **Multi OSD:** Check “**Show**” icon and entry the text in here if you want to show more information on the screen, the maximum supports 8 lines and 44 characters per line.
- ✧ **Time Format:** Check “**Show**” icon and select 12Hours or 24 Hours format. .
- ✧ **Date Format:** There are 3 kind format of timestamp.
- ✧ **Video parameters:** Allowing adjust the Brightness, Contrast, Saturation, Hue video parameters.  
Click  icon become to default.
- ✧ **Name/Date time:** Select the OSD position on the image.
- ✧ Move the Arrow key to change the front position of MultiOSD. 
- ✧ **OSD Color:** Allow changing the color of OSD front to suitable for the image display.
- ✧ **OSD Front:** Allow changing the front of OSD front to suitable for the image display.
- ✧ **Save:** Check “**Save**” icon to set up the setting parameters.

➤ **Streaming:** Click this button to setup bite rate, codec, resolution, streaming mode...ect.

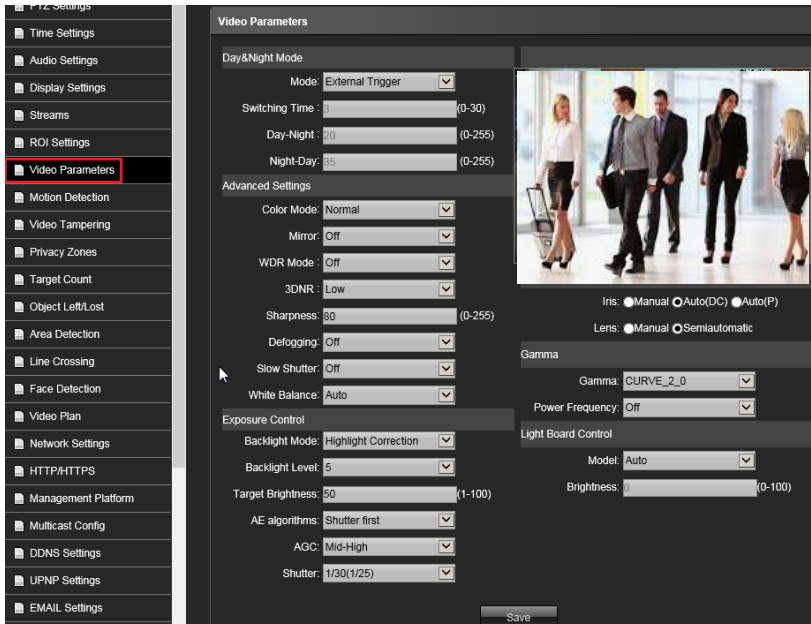


- ✧ **Streaming Type:** Drop and select elect the streaming type- Main streaming, Sub streaming, Third Streaming.
- ✧ **Video Streaming:** You can select video streaming only or audio &video complex signal.
- ✧ **Resolution:** Drop and select the output streaming resolution for each steam type.
- ✧ **Frame Rate:** Drop and select the output frame rate for each steam type.
- ✧ **Video Encode:** Drop and select the encode type for each steam type, there are H.264/H.265 mode.
- ✧ **Encode Level:** Drop and select the encode type for each steam type.
- ✧ **I Frame Interval:** Drop and select the number of interval I Frame, the minimum is 2.
- ✧ **Bit rate type:** Select the variable or constant type for the different filed application.
- ✧ **Bit Rate:** Select the bite rate from 16K/s~8M/s. The higher bite rate will get better video quality but big file size.
- ✧ **Quality:** Drop and select the video quality, the high quality will get better image, but file size will bigger, this function for the Variable mode only.
- ✧ **Save:** Check “ **Save** “ icon to set up the setting parameters.

- **ROI Setting:** ROI (Region of Interest) encoding is used to enhance the quality of images which are specified in advance. These ROI areas image will first priority to send out for internet transmission when bandwidth is not enough. Follow up the process as below to setup the ROI area.
  1. Select the Area number, then check “ Enable” icon.
  2. Press the left button and drop the mouse to select where want to setup the ROI area.
- Choose the number from Level section. The level higher will get clearer image of ROI.
- Click **Save** icon to set up the setting.



- **Video Parameters:** Click this button to setup Resolution, Frame rate, Bit rate...etc.



#### ✧ Day & Night Mode:

- **Mode:** There is **Auto/External trigger/Color/B &W** modes.

Auto mode: Switch color and B&W video that detects by the image sensor.

External Trigger: Switch color and B&W video that detects by the IR sensor.

Color: Select this model the video always keep on the color video.

B&W: Select this model the video always keep on the B&W video.

- **Switch Time:** Setup the video color the value of delay period, the camera will follow up the setup period to switch the video.
- **Day-Night:** Setup the sensitivity of switch Day to Night mode. The high value will get more sensitivity.
- **Night-Day:** Setup the sensitivity of switch Night to Day mode. The high value will get more sensitivity.

#### ✧ Advanced Setting:

- **AE Color mode:** There are Normal/Nature/Bright 3 kinds preset modes for the user selection.
- **Mirror:** Normal/ Horizontal Mirror/ Vertical Mirror/ 90°/180°/270° rotation modes for difference application.
- **WDR:** There are Off/ DWDR/ TWDR modes selectable. The default setting is off.
- **3DNR:** There are Low/ Mid/ Mid High/High modes selectable. The default setting is Low.
- **Sharpness:** Setup the sharpness of video color, the high value will get more sharpness color.
- **Defogging:** Off/Low/Mid/High modes selectable, the default setting is Close.
- **Slow shutter:** On/ Off selectable, the default setting is Close.
- **White Balance:** Auto /Customer and the other presetting mode suit for the filed application environment. .

#### ✧ Exposure Control: Exposure mode is includes Auto/Manual mode.

- **Backlight Mode:** Off/Highlight Correction / Backlight Correction modes suit for the filed application environment.
- **Backlight Level:** T The value from 1-10, the higher number will get strong backlight effect.
- **Target Brightness:** The value from 1-100, the higher number will get brightness of object image
- **AE algorithms:** There are 2kinds (Sutter First and Gain First) preset modes for the user selection.

- **Shutter First:** Enable the Shutter First mode that is Fix shutter and you can select the AGC (Auto gain control) value. High AGC value will get the bright image, but the video noise will be increasing.
- **Gain First:** Enable the Gain First mode and you can select the Shutter value from 1/5s ~ 1/100,000s. And AGC will become to auto mode. Select the shutter value for the application.

✧ **Aperture:**

- **IRIS:** Select the Manual/DC-IRIS/P-IRIS mode, it should be matched the IRIS of Lens type.
- **Lens:** Select the Manual/Semiautomatic mode, it should be matched the Lens type which can support the auto focus.

✧ **Gamma:**

- **Gamma:** Select the value to suit for the environment application.
- **Power Frequency:** There are 2 kind frequencies on the power system and it will cause the line scrolling on the video if the frequency does not match. Select the correct power frequency to match the used power system.

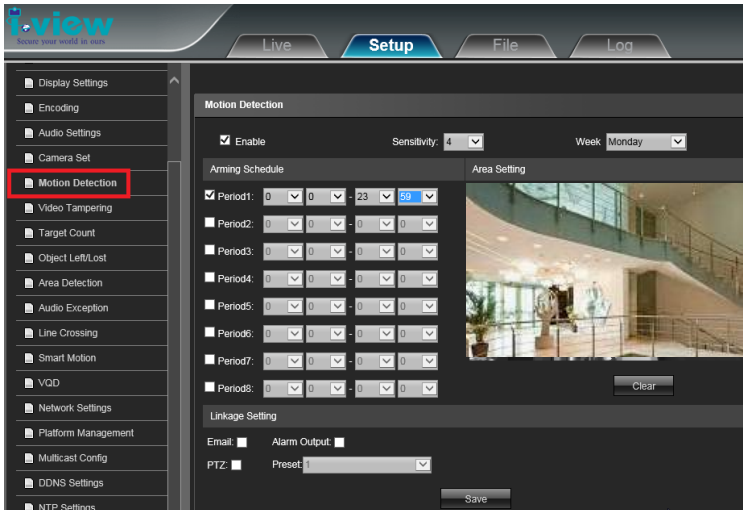
✧ **Light Board Control:**

- **Model:** There are Auto/Manual/Off modes to control the IR LED.  
**Auto:** Select the Auto mode, the IE LED will adjust the optimum status when viewing the object automatically.  
**Manual:** Select the Manual mode; you can adjust the bright of LED by manually.  
**Off:** Select the Off mode; the IR LED will be turned off.

✧ **Save:** Click the Save icon to setup the parameters.



➤ **Motion Detection:** Click this button to setup motion detection function.



Following the steps as below to setup the motion detection function..

1. Check **”Enable”** and select the value of sensitivity. The high value will get more sensitivity.
2. Setup the date from drop of week section (Default whole week), and select the time period. You can select multi period per day. Repeat the above process to setup another date.
3. Select motion detection area from **“Area setting”** section. Click **“Drawing”** icon, then press and drag the left button of Mouse to setup the detection areas. You can setup multi region area number for each camera. Click **“Clear”** bottom to clear the current detective areas.
4. Specify the notify method (Such as Trigger alarm output, move PTZ camera position, notify via email) when an event occur.
5. Click **Save** icon to change the setting.

➤ **Video Tempering:** Click this button to setup Video Tempering function.

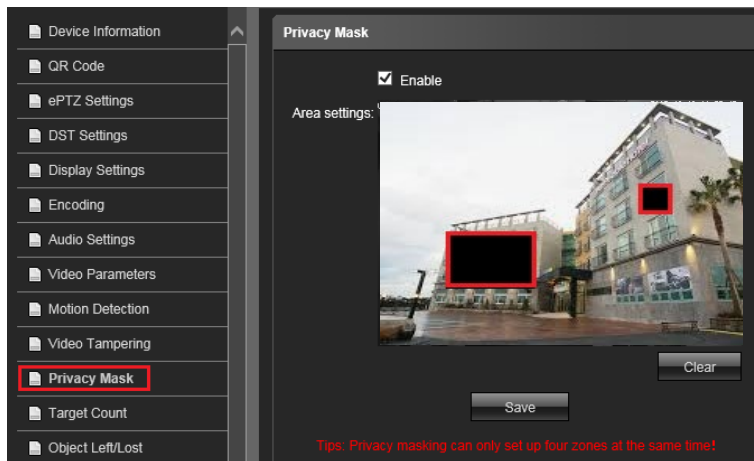
The screenshot displays the 'Video Tempering' configuration window. On the left, a sidebar lists various settings, with 'Video Tempering' selected and highlighted with a red rectangle. The main configuration area includes:

- Enable:** A checked checkbox.
- Sensitivity:** A dropdown menu set to '1'.
- Week:** A dropdown menu set to 'Mon'.
- Arming Schedule:** A table with 8 rows (Period1 to Period8) and 6 columns for time selection (Day, Hour, Minute, Second, etc.). Period1 is configured for 00:00:23:59.
- Area Setting:** A video preview window showing a street scene with a 'Clear' button below it.
- Linkage Setting:** Fields for 'Email', 'Alarm Output', and 'PTZ' (set to 'Preset0').
- Save:** A button at the bottom right.

Follow up the steps as below to setup the Video Tempering function.

1. Check **”Enable”** and select the value of sensitivity. The high value will get more sensitivity.
2. Setup the date from drop of week section (Default whole week), and select the time period. You can select multi period per day. Repeat the above process to setup another date.
3. Select motion detection area from **“Area setting”** section. Click **“Drawing”** icon, then press and drag the left button of Mouse to setup the detection areas. You can setup multi region area number for each camera. Click **“Clear”** bottom to clear the current detective areas.
4. Specify the notify method (Such as Trigger alarm output, move PTZ camera position, notify via email) when an event occur.
5. Click **Save** icon to store the setting.

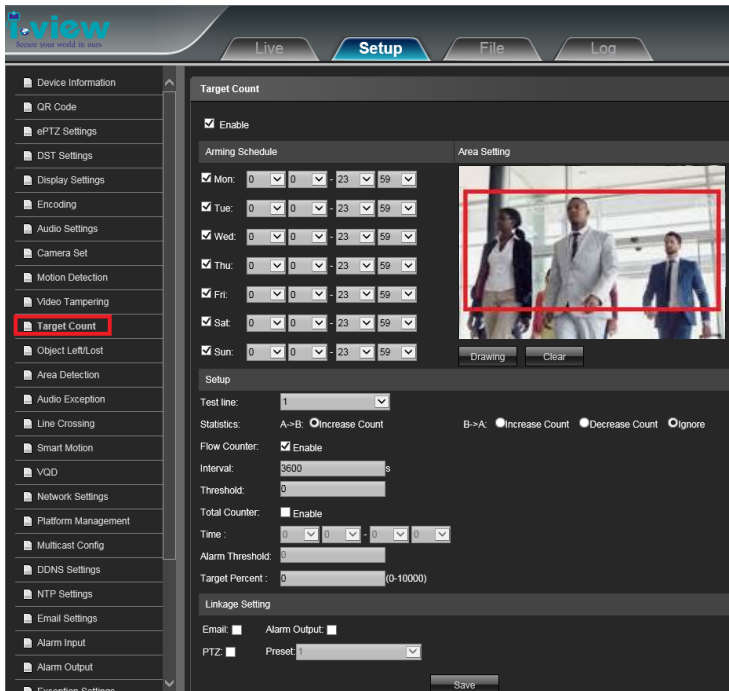
➤ **Privacy Zones:** Click this button to setup Privacy mask function.



Follow up the steps as below to setup the Privacy mask function.

1. Check **”Enable”** and then press and drag the left button of Mouse to setup the detection areas which you want paste the mask on the image.
2. Repeat the step 1 process to make another mask on the video. (Maximum 4 mask areas)
3. Click **Save** icon to store the setting.

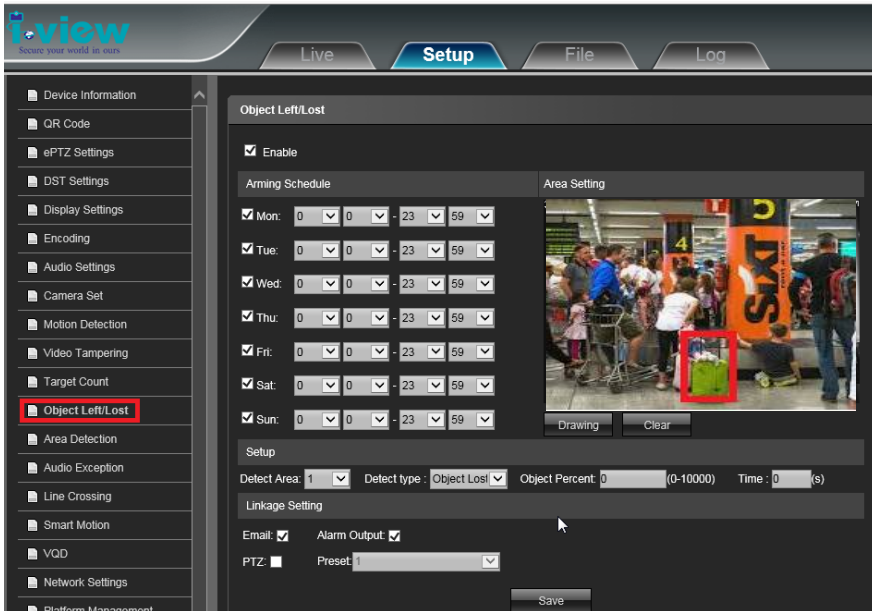
- **Target Count:** Click this button to setup Target count function.



- ✧ **Enable:** Enable or disable the target counting function.
- ✧ **Arming Schedule:** Arm schedule of enable Target count. Check/Uncheck from Monday to Sunday, each date can has its own trigger period.
- ✧ **Area Setting:** Click “ **Drawing** ” icon, then press and drag the left Mouse button to setup the trigger line from Area Setting. You can press and drag Mouse from top to down (A point at left side) or down to top (b point at left side). Click the right button to complete the setting, and the targets passing through the line will be counted.
- ✧ **Clear:** Click Clear to delete all the test lines
- ✧ **Trigger Line:** To add new trigger lines (Max. 4 lines) and each line can setup individual corresponding parameters.
- ✧ **Statistics:** There are A→B and B→A 2 statistical modes, and choose the” Increase count “ or “ Decrease count” or “ Ignore “ mode for each trigger line.
- ✧ **Flow Counter:** Enable or disable the Flow Counter function

- ✧ **Interval:** Set the counting time interval, when it is more than the time interval, the flow counter will reset and enter into next counting period automatically. The maximum is 3600 seconds; 0= Ignore.
- ✧ **Threshold:** Set the upper limit value for target counting, the alarm will be triggered automatically when the value is more than the setting.
- ✧ **Total Counter:** Enable or disable the Total Counter function.
- ✧ **Time:** Set the effective time period for the day of total counter.
- ✧ **Alarm Threshold:** Set the upper limit value for the day of total flow, the alarm will be triggered automatically when the value is more than the setting.
- ✧ **Target Percent:** Setup the minimum percentage ration (target size/ image area) of effective counting targets. Once the targets ration is smaller than the setting value, the system will ignore the target which passing through the trigger line.
- ✧ **Email:** Check “Email” and once the event triggers that it will send Email to setting email address.
- ✧ **Snap:** Check “Snap” and once the event triggers that it will linkage camera to snapshot picture and save on the SD card.
- ✧ **Record:** Check “Record” and once the event triggers that it will linkage camera to save the video on the SD card.
- ✧ **Alarm Output:** Check “Alarm output” and once the event triggers, the camera will linkage to alarm output.
- ✧ **PTZ:** Check “PTZ” and once the event triggers, the camera will linkage PTZ camera to move the assign Preset point.
- ✧ **Preset:** Setup the Preset point for the PTZ camera move to when the event is triggered.
- ✧ **Snap Interval:** Setup the snapshot interval time.
- ✧ **Snap Number:** Setup the snapshot image count for each event triggers.
- ✧ **Save:** Click “Save” icon to store the setting.

- **Object Left/Lost:** Click this button to setup object left and object lost detection function.

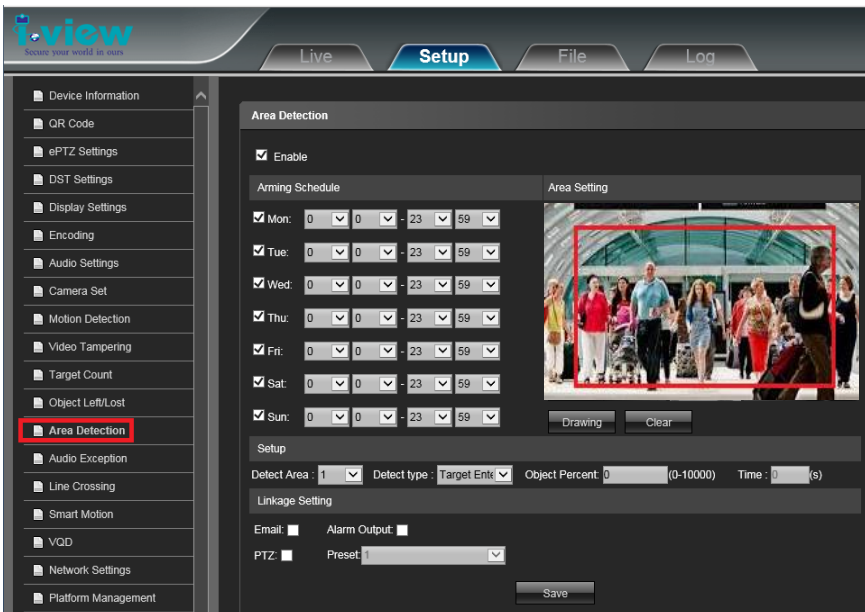


- ✧ **Enable:** Enable or disable the object left and object lost detection function.
- ✧ **Arming Schedule:** Arm schedule of enable object left and object lost detection. Check/Uncheck from Monday to Sunday, each date can has its own trigger period.
- ✧ **Area Setting:** Click “ **Drawing** “ icon, then press and drag the left Mouse button to setup the detection region from Area Setting section. Click the right button to complete the detection region setting
- ✧ **Clear:** Click Clear to delete all detection regions
- ✧ **Detection Area:** To add new Detection Area (Max. 4 regions) and each line can setup individual corresponding parameters.
- ✧ **Detection Type:** There are “Object lost”, “Object left” and “Object Left/Lost” modes, and choose one for the detection type.
- ✧ **Object Percent:** Setup the minimum percentage ration (target size/ image area) of effective

counting targets. Once the targets ration is smaller than the setting value, the system will ignore the target which passing through the trigger line.

- ✧ **Time:** Set the upper limit value for the object left or disappear period, the alarm will be triggered automatically when the value is more than the setting.
- ✧ **Email:** Check “Email” and once the event triggers that it will send Email to setting email address.
- ✧ **Alarm Output:** Check “Alarm output” and once the event triggers, the camera will linkage to alarm output.
- ✧ **PTZ:** Check “PTZ” and once the event triggers, the camera will linkage PTZ camera to move the assign Preset point.
- ✧ **Preset:** Setup the Preset point for the PTZ camera move to when the event is triggered.
- ✧ **Save:** Click “Save” icon to store the setting.

➤ **Area Detection:** Click this button to setup Area detection function.



- ✧ **Enable:** Enable or disable the area detection function.
- ✧ **Arming Schedule:** Arm schedule of enable area detection. Check/Uncheck from Monday to Sunday, each date can has its own trigger period.

- ✧ **Area Setting:** Click “ **Drawing** ” icon, then press and drag the left Mouse button to setup the detection region from Area Setting section. Click the right button to complete the detection region setting
- ✧ **Clear:** Click Clear to delete all detection regions
- ✧ **Detection Area:** To add new Detection Area (Max. 4 regions) and each line can setup individual corresponding parameters.
- ✧ **Detection Type:** There are “Target Entry”, “Target Lave”, “ Target Enter/Leave” and “Target Loiter” modes, and choose one for the detection type.
- ✧ **Object Percent:** Setup the minimum percentage ration (target size/ image area) of effective counting targets. Once the targets ration is smaller than the setting value, the system will ignore the target which passing through the trigger line.
- ✧ **Time:** Set the upper limit value for the Target leave or enter or stay period, the alarm will be triggered automatically when the value is more than the setting.
- ✧ **Email:** Check “Email” and once the event triggers that it will send Email to setting email address.
- ✧ **Alarm Output:** Check “Alarm output” and once the event triggers, the camera will linkage to alarm output.
- ✧ **PTZ:** Check “PTZ” and once the event triggers, the camera will linkage PTZ camera to move the assign Preset point.
- ✧ **Preset:** Setup the Preset point for the PTZ camera move to when the event is triggered.
- ✧ **Save:** Click “**Save**” icon to store the setting.



➤ **Retrograde Detect:** Click this button to setup the parameters of the retrograde detects function.

**RetrogradeDetect**

☒ Enable

**Arming Schedule**

Day	Start	End	Start	End
Mon	<input checked="" type="checkbox"/>	0	0	23:59
Tue	<input checked="" type="checkbox"/>	0	0	23:59
Wed	<input checked="" type="checkbox"/>	0	0	23:59
Thu	<input checked="" type="checkbox"/>	0	0	23:59
Fri	<input checked="" type="checkbox"/>	0	0	23:59
Sat	<input checked="" type="checkbox"/>	0	0	23:59
Sun	<input checked="" type="checkbox"/>	0	0	23:59

**Area Setting**

Drawing Clear Swap AB

**Setup**

Detect Area: 1 Detect type: A→B Alarm Object Percent: 0 (0-10000)

**Linkage Setting**

Email: ☐ Snap: ☐ Record: ☐ Alarm Output: ☐ Snap Interval: 1 Snap Number: 1

PTZ: ☐ Preset0

Save

✧ **Enable:** Enable or disable the retrograde detect function.

✧ **Arming Schedule:** Arm schedule of enable area detection. Check/Uncheck from Monday to Sunday, each date can has its own trigger period.

**Setup the cross line:** Click “**Drawing**” icon, then press and drag the left Mouse button to setup the detection lines from Detect area. Click the left button of Mouse to setup the A→B direction after setup the detection area and then right click the Mouse button complete the region and detection setting. You can click “**Swap AB**” to exchange the Point A and B position.

✧ **Clear:** Click Clear to delete all detection regions

✧ **Detect Area:** To add new Detection Area (Max. 4 regions) and each line can setup individual corresponding parameters.

✧ **Detection Type:** There is “A→B Alarm for the detection type and you can click the **Swap AB** icon to change the direction.

✧ **Object Percent:** Setup the minimum percentage ration (target size/ image area) of effective counting targets. Once the targets ration is smaller than the setting value, the system will ignore the target which passing through the trigger line.

✧ **Email:** Check “Email” and once the event triggers that it will send Email to setting email address.

- ✧ **Snapshot:** Check “Snapshot” and then select the value of snap interval and Number once the event triggers that the camera will snapshot and save into the SD card or HDD.
- ✧ **Record:** Check “Record” once the event triggers once the event triggers that the camera will snapshot and save into the SD card or HDD.
- ✧ **Alarm Output:** Check “Alarm output” and once the event triggers, the camera will linkage to alarm output.
- ✧ **PTZ:** Check “PTZ” and once the event triggers, the camera will linkage PTZ camera to move the assign Preset point.
- ✧ **Preset:** Setup the Preset point for the PTZ camera move to when the event is triggered.
- ✧ **Save:** Click “Save” icon to store the setting.

➤ **Density Detect:** Click this button to setup the parameters of density detects to check the people crowd gathering at a special area.

The screenshot shows the 'DensityDetect' configuration window. On the left is a sidebar menu with options: Audio Settings, Display Settings, Streams, ROI Settings, Video Parameters, Motion Detection, Video Tampering, Privacy Zones, Target Count, Object Left/Lost, Area Detection, RetrogradeDetect, **DensityDetect** (highlighted), HumanDetect, Line Crossing, VQD, Face Detection, Video Plan, Network Settings, and HTTP/HTTPS.

The main configuration area is titled 'DensityDetect' and includes the following sections:

- Enable:** A checkbox labeled 'Enable' is checked.
- Arming Schedule:** A table for setting detection times for each day of the week.
 

Day	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Start	0	0	0	0	0	0	0
End	23	23	23	23	23	23	23
Minute	59	59	59	59	59	59	59
- Area Setting:** A video feed showing a group of people. A red polygon is drawn on the screen to define the detection area. Below the video are 'Drawing' and 'Clear' buttons.
- Setup:**
  - Detect Area: 1 (dropdown)
  - Sensitivity: 0 (slider)
  - Object Percent: 0 (slider, range 0-10000)
- Linkage Setting:**
  - Email: ☒ Snap: ☒ Record: ☐ Alarm Output: ☐ Snap Interval: 1 (dropdown)
  - PTZ: ☐ Preset0 (dropdown) Snap Number: 1 (dropdown)
  - A 'Save' button is at the bottom.

- ✧ **Enable:** Enable or disable the retrograde detect function.
- ✧ **Arming Schedule:** Arm schedule of enable area detection. Check/Uncheck from Monday to Sunday, each date can has its own trigger period.

- ✧ **Detect Area:** To add new Detection Area (Max. 4 regions) and each line can setup individual corresponding parameters. Click “ **Drawing** ” icon, then press and drag the left Mouse button to setup the detection lines from Detect area.
- ✧ **Clear:** Click Clear to delete all detection regions.
- ✧ **Sensitivity:** Setup the senility of object detection, the high value increases the sensitivity.
- ✧ **Object Percent:** Setup the minimum percentage ration (target size/ image area) of effective counting targets. Once the targets ration is smaller than the setting value, the system will ignore the target which passing through the trigger line.
- ✧ **Snapshot:** Check “Snapshot” and then select the value of snap interval and Number once the event triggers that the camera will snapshot and save into the SD card or HDD.
- ✧ **Record:** Check “Record” once the event triggers once the event triggers that the camera will snapshot and save into the SD card or HDD.
- ✧ **Alarm Output:** Check “Alarm output” and once the event triggers, the camera will linkage to alarm output.
- ✧ **PTZ:** Check “PTZ” and once the event triggers, the camera will linkage PTZ camera to move the assign Preset point.
- ✧ **Preset:** Setup the Preset point for the PTZ camera move to when the event is triggered.
- ✧ **Save:** Click “Save” icon to store the setting.

- **Human Detect:** Click this button to setup the parameters of human detects for snapshot when detect the human face.

**HumanDetect**

☒ Enable

**Arming Schedule**

Day	Start Time	End Time
Mon	00:00	23:59
Tue	00:00	23:59
Wed	00:00	23:59
Thu	00:00	23:59
Fri	00:00	23:59
Sat	00:00	23:59
Sun	00:00	23:59

**Area Setting**

Video feed showing a red detection area box around a group of people.

**Setup**

Detect Area: 1 (dropdown) Object Percent: 0 (0-10000)

**Linkage Setting**

Email: ☐ Snap: ☐ Record: ☐ Alarm Output: ☐ Snap Interval: 1 (dropdown)

PTZ: ☐ Preset0 (dropdown) Snap Number: 1 (dropdown)

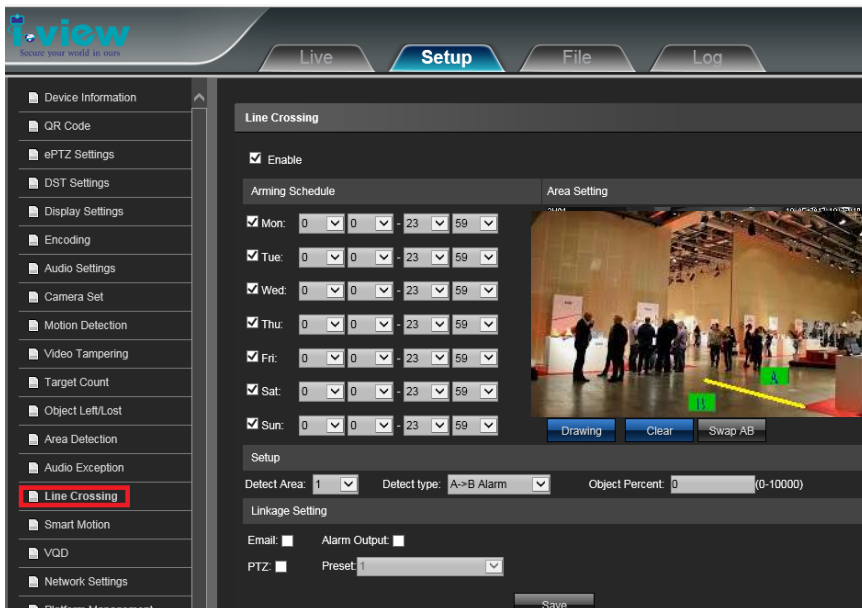
**Save**

- ✧ **Enable:** Enable or disable the human detects function.
- ✧ **Arming Schedule:** Arm schedule of enable area detection. Check/Uncheck from Monday to Sunday, each date can has its own trigger period.
- ✧ **Detect Area:** To add new Detection Area (Max. 4 regions) and each line can setup individual corresponding parameters. Click “**Drawing**” icon, then press and drag the left Mouse button to setup the detection lines from Detect area.
- ✧ **Clear:** Click Clear to delete all detection regions.
- ✧ **Object Percent:** Setup the minimum percentage ration (target size/ image area) of effective counting targets. Once the targets ration is smaller than the setting value, the system will ignore the target which passing through the trigger line.
- ✧ **Snapshot:** Check “Snapshot” and then select the value of snap interval and Number once the event triggers that the camera will snapshot and save into the SD card or HDD.
- ✧ **Record:** Check “Record” once the event triggers once the event triggers that the camera will snapshot and save into the SD card or HDD.
- ✧ **Alarm Output:** Check “Alarm output” and once the event triggers, the camera will linkage to alarm

output.

- ✧ **PTZ:** Check “PTZ” and once the event triggers, the camera will linkage PTZ camera to move the assign Preset point.
- ✧ **Preset:** Setup the Preset point for the PTZ camera move to when the event is triggered.
- ✧ **Save:** Click “Save” icon to store the setting.

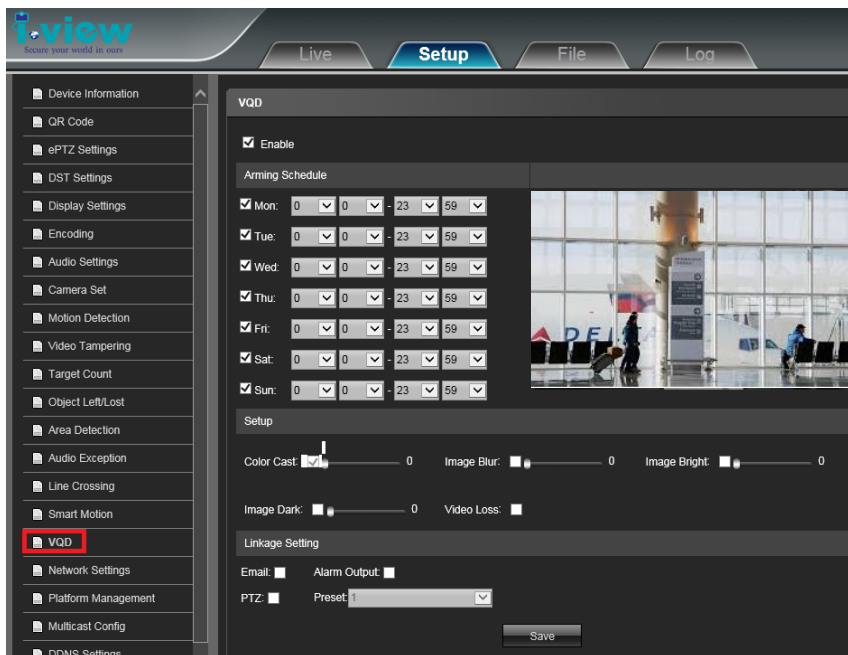
➤ **Line Crossing:** Click this button to setup triple wire detection function.



- ✧ **Enable:** Enable or disable the line cross detection function.
- ✧ **Arming Schedule:** Arm schedule of enable area detection. Check/Uncheck from Monday to Sunday, each date can has its own trigger period.
- ✧ **Area Setting:** Click “Drawing” icon, then press and drag the left Mouse button to setup the detection lines from **Area Setting** section. Click the right button to complete the detection region setting. You can click “Swap AB” to exchange the Point A and B position.
- ✧ **Clear:** Click Clear to delete all detection regions
- ✧ **Detection Area:** To add new Detection Area (Max. 4 regions) and each line can setup individual corresponding parameters.

- ✧ **Detection Type:** There are “A→ B Alarm” and “B→ A Alarm” modes. Choose one for the detection type.
- ✧ **Target Percent:** Setup the minimum percentage ration (target size/ image area) of effective counting targets. Once the targets ration is smaller than the setting value, the system will ignore the target which passing through the trigger line.
- ✧ **Email:** Check “Email” and once the event triggers that it will send Email to setting email address.
- ✧ **Alarm Output:** Check “Alarm output” and once the event triggers, the camera will linkage to alarm output.
- ✧ **PTZ:** Check “PTZ” and once the event triggers, the camera will linkage PTZ camera to move the assign Preset point.
- ✧ **Preset:** Setup the Preset point for the PTZ camera move to when the event is triggered.
- ✧ **Save:** Click “Save” icon to store the setting.

➤ **VQD (Video Quality Diagnose):** Click this button to setup Video quality detection function.



- ✧ **Enable:** Enable or disable the video diagnose function.

- ✧ **Arming Schedule:** Arm schedule of enable area detection. Check/Uncheck from Monday to Sunday, each date can has its own trigger period.
- ✧ **Image Detection Type:** There are 5 kind video quality detection modes- Color Cast, Image Blur, Image Bright, Image Dark and video loss. The setting value higher and more sensitivity. Choose one for the detection type.
- ✧ **Email:** Check “Email” and once the event triggers that it will send Email to setting email address.
- ✧ **Alarm Output:** Check “Alarm output” and once the event triggers, the camera will linkage to alarm output.
- ✧ **PTZ:** Check “PTZ” and once the event triggers, the camera will linkage PTZ camera to move the assign Preset point.
- ✧ **Preset:** Setup the Preset point for the PTZ camera move to when the event is triggered.
- ✧ **Save:** Click “Save” icon to store the setting.

➤ **Face Detection:** Click this button to setup the parameters of Face detection.

The screenshot displays the 'Face Detection' configuration window. On the left, a sidebar lists various system settings, with 'Face Detection' selected and highlighted by a red rectangle. The main configuration area is divided into several sections:   
1. **Enable:** A checkbox labeled 'Enable' is checked.   
2. **Arming Schedule:** A grid for setting detection times for each day of the week (Mon-Sun), with each day having a 24-hour clock (0-23) and a 60-minute clock (0-59).   
3. **Area Setting:** Includes a video preview showing a red rectangular detection area over a scene with people. Below the preview is an 'Area Type' dropdown menu set to 'Detecting' and a 'Clear' button.   
4. **Setup:** Contains fields for 'Minimum Pixel' (80, range 80-300), 'FaceExtRatioW' (40, range 0-100%), 'Face Quality Threshold' (10, range 0-10), 'Capture Quality' (99, range 1-99), 'FaceExtRatioH' (85, range 0-100%), and a 'Largest Only' checkbox.   
5. **Face Capture Config:** Includes 'Enable' (checked), 'EnableMaxFaceWidth' (checkbox), 'MaxFaceWidth' (1920, range 32-1920), 'MaximgWidth' (1920, range 32-1920), 'Capture Mode' (Interval Mode), 'Interval Time' (300, range 1-10000)ms, 'FullJpeg' (checkbox), 'FullJpeg Quality' (99, range 1-99), and 'EnableFTP' (checkbox).   
6. **Face Recg Config:** Includes 'Enable' (checked) and '识别时间' (300, range 1-10000)ms.   
7. **Linkage Setting:** Includes 'Email' (checkbox), 'Snap' (checkbox), 'Record' (checkbox), 'Alarm Output' (checkbox), 'Snap Interval' (1), 'PTZ' (Preset0), and 'Snap Number' (1).   
A 'Save' button is located at the bottom center of the configuration panel.

**Note:** You MUST enable the Face detection function when run the Face Recognition function.

- ✧ **Enable:** Check "Enable" and select the schedule to enable Face detection function.
- ✧ **Arming Schedule:** Arm schedule of enable area detection. Check/Uncheck from Monday to Sunday, each date can has its own trigger period.
- ✧ **Drawing Area:** Select the Detection areas or Shield area from "Area type" section, then press and drag the left button of Mouse to setup the area. Click "Clear" bottom to clear the current detective areas.
- ✧ **Setup**

- **Minimum Pixel:** Setup the minimum pixels of face detection, the system will ignore when the pixels less than the setting number.



- **Capture Quality:** Setup the Snapshot image quality, high value get better quality and bigger file size.
- **Face Ex Ration (Width):** Setup the value, the area of face image will extend percentage width area when snapshot.
- **Face Ex Ration (High):** Setup the value, the area of face image will extend percentage high area when snapshot.
- **Face Quality Threshold:** Setup the minimum quality of threshold to snapshot when face detection, the system will ignore when the quality less than the setting number. High quality will get more accurate result of face recognition, but maybe lost some face who in the database.
- **Largest Only:** The camera just takes snapshot of the largest face when enable this function. The reset face of image will be ignored.

#### ✧Face Capture Config

- **Enable:** Check "Enable" and select the schedule to enable Face detection function.
- **Enable Max Face Width:** Check this icon and setup the maximum pixels of face, the system will ignore to snapshot the image when the pixels higher than the setting number.
- **Enable Image Width:** Check this icon and setup the maximum pixels of image, the system will ignore to snapshot the image when the pixels higher than the setting number.
- **Capture Mode:** Drop and select mode, there are 4 modes – Interval | Entry | Leave \ Entry & Leave. The camera will follow up the mode to snapshot when the face is detected.
- **Full JPEG:** Check the icon will take full image when face detection.
- **Full JPEG Quality:** Check this icon to choice the full image quality when face detection.
- **Enable FTP:** Check this icon will send out the snapshot to FTP server.

#### ✧Face Recg Config

- **Enable:** Check to enable auto face recognition when detect the face. .
- **Interval:** Setup the value of face recognition interval period.

#### ✧Linkage Setting

- **Snapshot:** Check "Snapshot" and then select the value of snap interval and Number once the event triggers that the camera will snapshot and save into the SD card or HDD.
- **Record:** Check "Record" once the event triggers once the event triggers that the camera will snapshot and save into the SD card or HDD.

- **Alarm Output:** Check “Alarm output” and once the event triggers, the camera will linkage to alarm output.
- **PTZ:** Check “PTZ” and once the event triggers, the camera will linkage PTZ camera to move the assign Preset point.
- **Preset:** Setup the Preset point for the PTZ camera move to when the event is triggered.

✧ **Save:** Click “Save” icon to store the setting.

➤ **Video Plan:** Click this button to setup the recording schedule for the deference event.

✧ **Video Mode:** Click this button to setup recording mode.

✧ **Recording Schedule:** Press left button of Mouse and drop the mouse to setup recording schedule.

✧ **Pre Record:** The video recording period before the event is triggered.

✧ **Post Record:** The video recording period after the event triggered.

✧ **Video Edge IP address:** This is revised function. .

✧ Click **Save** to setup the setting.

➤ **Network Setting:** Click this button to setup the Network parameters.

✧ **IP Setting:** Click this button to modify the current Internet protocol with IPv4 or IPv6, IP address, enable/disable DHCP and DNS IP address.

**Get IP address automatically:** Select this option to obtain an available dynamic IP address assigned by the DHCP server each time the camera is connected to the LAN.

**Use Static IP address:** Select this option to manually assign a static IP address to the Network Camera.

1. You can make use of IP Search tools on the software CD to easily set up the Network Camera on LAN. Please refer to Quick user guide for details.
2. Enter the Static IP, Subnet mask, Default router, and Primary DNS provided by your ISP Subnet mask: This is used to determine if the destination is in the same subnet The default value is "255.255.255.0".
3. Configure the NIC settings, including the IPv4 (IPv6) Address, IPv4(IPv6) Subnet Mask and IPv4(IPv6) Default Gateway. **IPv6** protocol version No. is 6 will available later.

**DNS1:** The primary domain name server that translates hostnames into IP addresses

**DNS2:** Secondary domain name server that backups the Primary DNS



1. If the DHCP server is available, you can check to automatically obtain an IP address and other network settings from that server.
2. The valid value range of Maximum Transmission Unit (MTU) is 500 ~ 9676.
3. The Multicast sends a stream to the multicast group address and allows multiple clients to acquire the stream at the same time by requesting a copy from the multicast group address.
4. Before utilizing this function, you have to enable the Multicast function of your router and configure the gateway of the network.
5. If the DNS server settings are required for some applications (e.g., sending email), you should properly configure the Preferred DNS Server and Alternate DNS server.
6. The router must support the route advertisement function if you select Route Advertisement as the IPv6 mode.

✧ **PPPoE:** If you have no router but only a modem, you can use Point-to-Point Protocol over Ethernet (PPPoE) function. Click this button to enable the PPPoE function. Select this option to configure your Network Camera to make it accessible from anywhere as long as there is an Internet connection

**Note** that to utilize this feature, it requires an account provided by your ISP.

✧ **Port Settings:** If there is a router and you want to access the speed dome through Wide Area Network (WAN), you need to forward the 3 ports for the IP Camera. Click this button to modify the HTTP (Default is 80), RTSP (Default is 554) or Device Port number (Default is 5050), Https streaming port (Default is 443 and click **Save** to change the setting.

✧ **RTSP Port:** Use domain name to access and login device need mapping RTSP, default port is 554.

**RTSP Validation:** Choose RTSP verification mode, Http-Base64, Http-Digest selectable.

After clicking to check and enable the corresponding RTSP verification mode, when playing RTSP real-time stream, it needs to verify the user name and password.

✧ **RTMP Port:** Use domain name to access and login device need mapping RTMP, The default port is 1935.

➤ **Http/ Https:** Click this button to enable/disable the Http/Https function and port.

Line Crossing

VQD

Face Detection

Network Settings

**Http/Https**

Management Platform

Multicast Config

DDNS Settings

UPnP Settings

### Http/Https

Http

Enable: ☒

Port: 80

Https

Enable: ☒

Port: 443

Save

➤ **Management Platform:** Click this button to setup Server program. This function for the System Integrator only.

Face Detection

Network Settings

Http/Https

**Management Platform**

Multicast Config

DDNS Settings

### Management Platform

No.	Protocol	Status	Operation
1	I8S	Off	Modify
2	Fseye	On	Modify
3	GB28181	Off	Modify

- ✧ **AntsWebServer:** Enable this program for the Internet Browser viewing.
- ✧ **Fseye:** Enable this program for the App of Mobile phone or Pad remote access.
- ✧ **I8S:** Enable this program for the SDK function.
- ✧ **TelnetServer:** For email server application.

➤ **Multicast Config:** Click this button to setup Multicast configuration.

✧ **Multicast:** Multicast settings for the Video and audio of Mainstreaming and sub streaming. Click the item to display the detailed configuration information. Check “**Enable Multicast**” icon to enable multicast for streams.

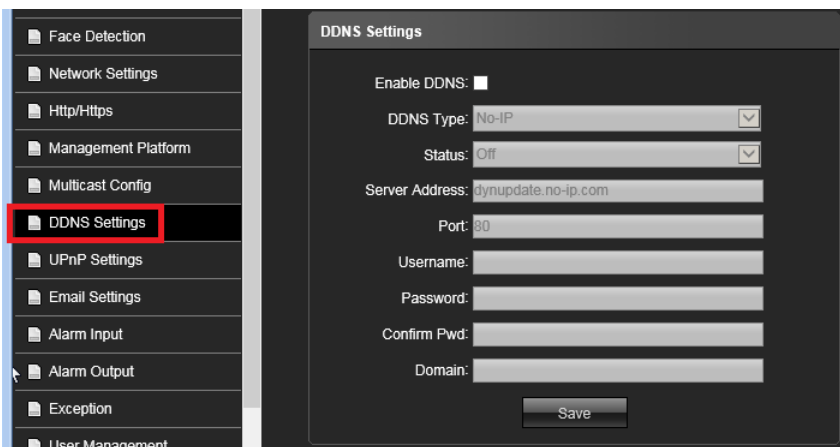
The unicast video transmission delivers a stream through point-to-point transmission; multicast, on the other hand, sends a stream to the multicast group address and allows multiple clients to acquire the stream at the same time by requesting a copy from the multicast group address. Therefore, enabling multicast can effectively save Internet bandwidth. The ports can be changed to values between 1025 and 65535.

The multicast RTP port must be an even number and the multicast RTCP port number is the multicast RTP port number plus one, and thus is always odd.



If the multicast RTP video ports are incorrectly assigned, the following warning message will be displayed.

➤ **DDNS Settings:** Click this button to setup DDNS configuration.



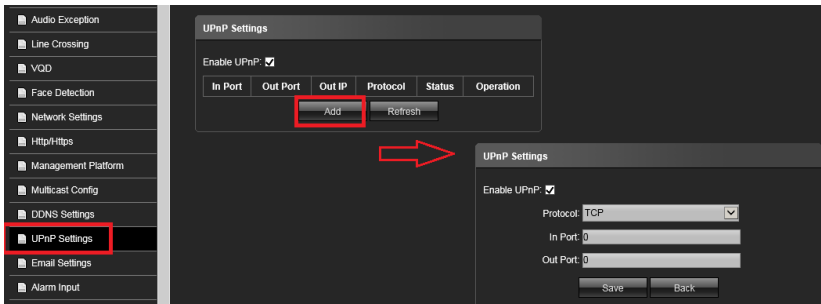
The DDNS is implemented through a dynamic domain resolution server. It requires a PC running in the server with fixed IP address on the Internet. IP Camera DDNS settings interface as above figure.

✧ **DDNS:** Click this button to setup the DDNS function, there are three default DDNS server for the user choice. If your IP Camera is set to use PPPoE as its default network connection, you can use the Dynamic DNS (DDNS) for network access. Before you start, please registration on the DDNS server is required before configuring the DDNS settings of the IP Camera. Please do the process to setup the DDNS.

1. **Enable DDNS:** Check “ **Enable DDNS** “ icon to use the DDNS function.
2. **DDNS Type:** Select DDNS server type (There are DynDNS/ PeanutHull/NO-IP/ 3322/ DnsDynamic five servers selectable), or entry the **Server Address**.
3. Entry the Port number (default is 80). User name/Password and confirm the password again.
4. Entry the standby domain which you had been applied.
5. Click “**Save**” icon to complete the parameters settings.
6. You can enable/disable the DDNS from the” Status” section.

➤ **UPnP Settings:** Click this button to setup UPnP function..

1. Click “ **Add** ” icon to setup UPnP function. .
2. Check “**Enable UPnP** “, then select the Protocol, In port and Out port.
3. Click “**Save**” icon to complete the parameters settings or click” **Back** “to cancel the setting.



✧ **UPnP:** Click this button to enable the UPnP (Universal Plug and Play) function.

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

1. Check “**Enable UPnP™**” icon from settings interface.
2. Entry the Device Port and then click the **Save** icon to save the setting.

You can edit the Friendly Name of the IP Camera. This name can be detected by corresponding device, such as a router.

**Enable UPnP presentation:** Select this option to enable UPnP presentation for your Network Camera so that whenever a Network Camera is presented to the LAN, shortcuts of connected Network Cameras will be listed in My Network Places. You can click the shortcut to link to the web browser. Currently, UPnP is supported by Windows XP or later.

**Note:** That to utilize this function, make sure the UPnP component is installed on your computer.

✧ **Enable UPnP port forwarding:** To access the Network Camera from the Internet, select this option to allow the Network Camera to open ports on the router automatically so that video streams can be sent out from a LAN. To utilize of this feature, make sure that your router supports UPnP and it is activate.

- **Email Settings:** Click this button to setup the email parameters. The system can be configured to send an Email notification to all designated receivers if an alarm event is detected, e.g., motion detection event, video loss, tamper-proof, etc.

The screenshot displays the 'Email Settings' configuration window. On the left is a vertical sidebar with a list of system settings: Network Settings, Http/Https, Management Platform, Multicast Config, DDNS Settings, UPnP Settings, **Email Settings** (highlighted with a red border), Alarm Input, Alarm Output, Exception, User Management, and System Update. The main area of the window is titled 'Email Settings' and contains the following fields and controls:

- Sender's Address: [Text Input Field]
- Password: [Text Input Field]
- Confirm Pwd: [Text Input Field]
- SMTP Server: [Text Input Field]
- SMTP Port: [Text Input Field, value 0]
- SSL ☐ Identity Verification ☐
- Receiver's Address: [Text Input Field]
- Receiver's Address: [Text Input Field]
- Receiver's Address: [Text Input Field]
- [Save Button]

Before you start, please configure the DNS Server settings before using the Email function.

1. Enter the email addresses (sender's email address).
2. Enter the password and confirm the password again.
3. Enter the SMTP Server IP address or host name (e.g., smtp.263xmail.com).
4. Enter the SMTP Port, the default TCP/IP port for SMTP is 25.
5. Enable SSL function; please check the “SSL” or “Identity Verification” icon, if it is required by the SMTP server.
6. Enter the receiver email addresses which you want to send out when alarm is triggered. You can setup 3 emails address at a time.
7. Click “**Save**” icon to complete the parameters settings.



➤ **FTP Settings:** Click this button to setup the FTP server which you want to save the video clips, Email and snapshot file.

Multicast Config

DDNS Settings

UPNP Settings

EMAIL Settings

**FTP Settings**

Alarm Input

Alarm Output

Exception

User Management

System Update

FTP Settings

Server Address:

Link Mode:

Passive

Port:

21

Username:

Password:

Path:

Save

➤ **Alarm Input:** Click this button to setup the alarm input parameters.

Motion Detection

Video Tampering

Target Count

Object Left/Lost

Area Detection

Audio Exception

Line Crossing

VQD

Face Detection

Network Settings

Http/Https

Management Platform

Multicast Config

DDNS Settings

UPnP Settings

Email Settings

**Alarm Input**

Alarm Output

Exception

User Management

Alarm Input

Alarm Input : 1

Handle : ☐

Alarm In Name :

AlarmIn0

Trigger :

Normally Open

Week

Week : Mon

Arming Schedule

Period1:

☒

0

0

-

23

59

Period2:

☐

0

0

-

0

0

Period3:

☐

0

0

-

0

0

Period4:

☐

0

0

-

0

0

Period5:

☐

0

0

-

0

0

Period6:

☐

0

0

-

0

0

Period7:

☐

0

0

-

0

0

Period8:

☐

0

0

-

0

0

Linkage Setting

Email: ☐

Alarm Output: ☐

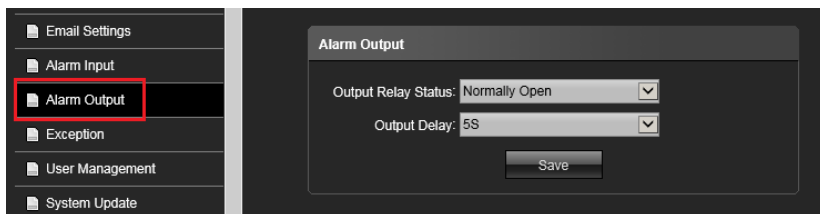
PTZ: ☐

Preset0

Save

- ✧ **Enable:** Check “ Handle” icon to enable the alarm input function.
- ✧ **Alarm input:** This IP camera support 2 alarm input ports. Select the alarm input port.
- ✧ **Alarm in name:** You can define the alarm input name or location.
- ✧ **Trigger:** Setup the alarm input mode (Normal Close / Normal Open) of trigger single.
- ✧ **Arming Schedule:** Arm schedule of enable alarm input detection. Check/Uncheck from Monday to Sunday, each date can has its own trigger period.
- ✧ **Email:** Check “Email” and once the event triggers that it will send Email to setting email address.
- ✧ **Alarm Output:** Check “Alarm output” and once the event triggers, the camera will linkage to alarm output.
- ✧ **PTZ:** Check “PTZ” and once the event triggers, the camera will linkage PTZ camera to move the assign Preset point.
- ✧ **Preset:** Setup the Preset point for the PTZ camera move to when the event is triggered.
- ✧ **Save:** Click “Save” icon to store the setting.

➤ **Alarm Output:** Click this button to setup the alarm output parameters when the event is triggered.



- ✧ **Output Replay Status:** Setup the alarm output mode (Normal Close / Normal Open).
- ✧ **Output Delay:** Entry the value alarm output trigger period. The alarm output will keep on sending the signal of each trigger.
- ✧ **Save:** Click “Save” icon to store the setting.

- **RTSP:** Click this button to setup the parameters of RTSP server.

- ✧ **Enable RTSP Server:** Check this function to enable the RTSP transmission protocol.
- ✧ **RTSP Port:** Change the port number of RTSP port. The default port is 554.
- ✧ **RTSP Validation:** Select the validation method which you want when uses the RTSP transmission.
- ✧ **Save:** Click “Save” icon to store the setting.

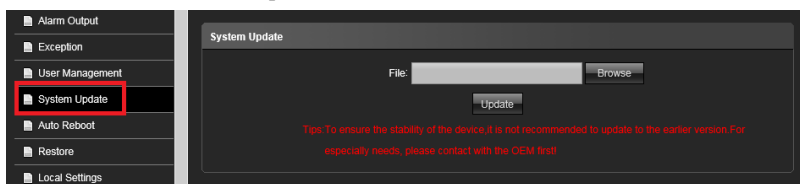
- **Exception Settings:** Click this button to setup the alarm output trigger of exception event.

- ✧ **Exception Type:** There are Network Discounted/ IP Address Conflict/ Illegal Access/ HDD Full/HDD (SD) Error, there are 5 exception types.
- ✧ **Alarm Output:** Entry the value alarm output trigger period. The alarm output will keep on sending the signal of each trigger.
- ✧ **Save:** Click “Save” icon to store the setting.

- **User Management:** Click this button to Add new user to Modify/Delete existing user.

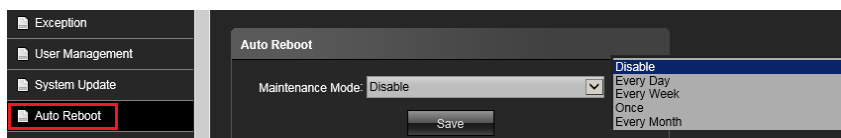
- ✧ **Add User:** Click this icon to add a new user. Entry the user name/Password and confirm password again, then click “**Save**” icon to complete the setting.
- ✧ **Modify:** Click this icon from existing user section to modify user name and password
- ✧ **Del:** Click this icon from existing user section to delete the user.
- ✧ **Permission:** Click this icon from existing user section to modify the privilege of existing user. You can setup individual right for each user.
- ✧ **Save:** Click “**Save**” icon to store the setting and log out at the same time.
- ✧ **Return:** Click “**Return**” icon to quit the setup and log out at the same time.

- **System Update:** Click this button to update the newest Firmware. You can visit [www.i-view.com.tw](http://www.i-view.com.tw) to find put the newest Firmware when needed.



- ✧ **File:** Click “**Browse**” icon to select the new Firmware file. Please save the Firmware at the C:\ or E:\ path directory to avoid the update failed.
- ✧ **Update:** Click this icon to updates the Firmware, after select the correct Firmware file.

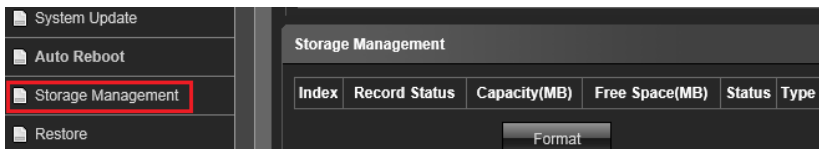
- **Auto Reboot:** Click this button to setup the reboot schedule. As this process can avoid reducing the IP camera failed and renew IP camera to get better performance.



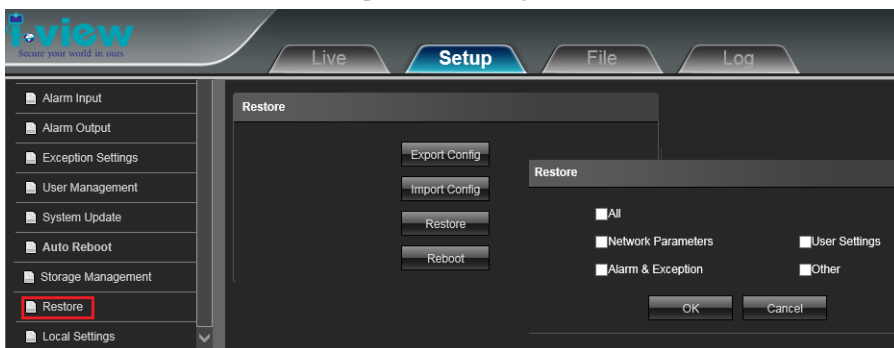
- ✧ **Maintenance Mode:** Click and drop menu from this section to choose the schedule (Disable, Very Day, and Every Week, Once) for reboot.
- ✧ **Save:** Click “**Save**” icon to store the setting.

- **Storage Management:** Click this button to check the current SD card status, such as Capacity (MB)/ Free Spare (MB)/ Status or format SD card. As shown in the follow figure:

**Note:** This section will disappear when the IP camera does not plug the SD card.



- **Restore:** Click this button to restore the parameters setting. .



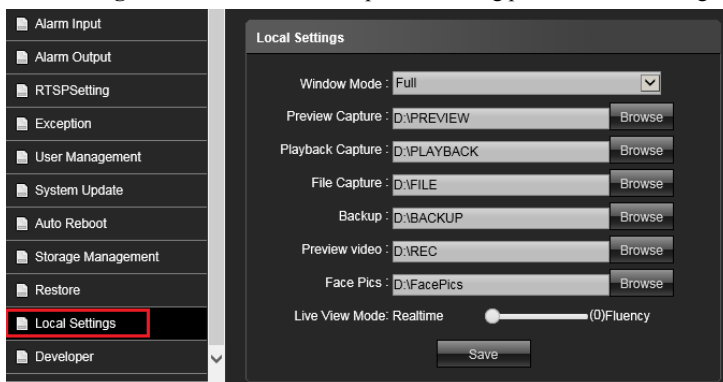
✧ **Export Config:** Export and store the existing configuration.

✧ **Import Config:** Restore the configuration to the IP camera.

✧ **Restore:** Restore the parameters as default setting, choose the difference items to back to default.

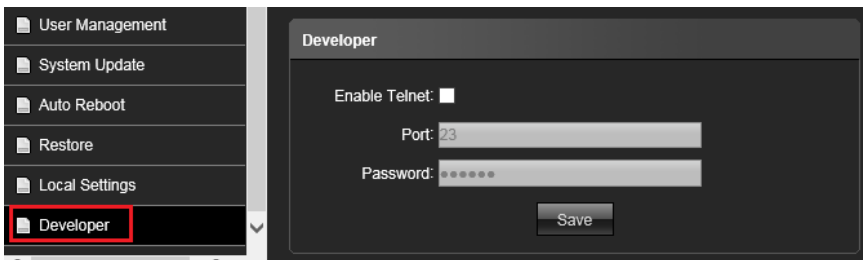
✧ **Reboot:** Reboot the IP Camera.

- **Local Settings:** Click this button to setup the recording parameters and storage path.



- ✧ **Window Mode:** Set the preview window mode(Full/ 4:3/ 16:9/ Original Image optional)
- ✧ **Preview Capture:** Select and modify the preview capture file storage path
- ✧ **File Capture:** Select and modify the file management capture file storage path
- ✧ **Rec Capture:** Select and modify the preview interface video record file storage path.
- ✧ **Live View Mode:** Real-time/ Fluency two types selectable, the value of them can be adjustable.
- ✧ **Save:** Click “**Save**” icon to store the setting.

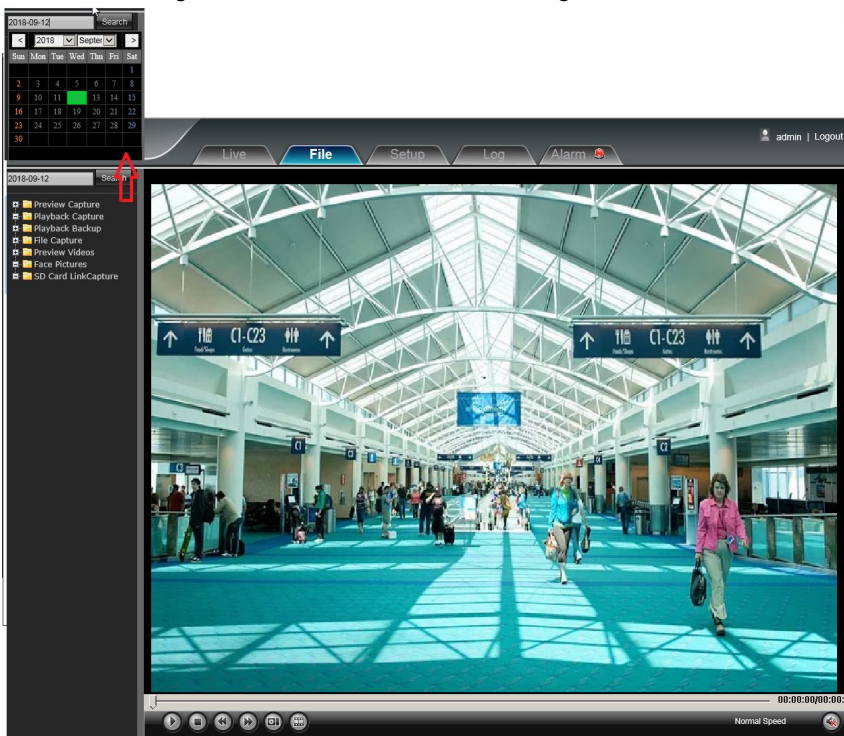
➤ **Developer:** This section for the software developer or system integrator use only. The detail information please contact to i-View Communication Inc. [Support@i-view.com.tw](mailto:Support@i-view.com.tw)



The screenshot displays the i-View software interface. On the left is a vertical sidebar menu with the following items: User Management, System Update, Auto Reboot, Restore, Local Settings, and Developer. The 'Developer' item is highlighted with a red rectangular border. To the right of the sidebar is the main content area, which is titled 'Developer' at the top. Below the title, there are three settings: 'Enable Telnet:' followed by an unchecked checkbox, 'Port:' followed by a text input field containing the value '23', and 'Password:' followed by a text input field containing seven dots. At the bottom right of the main content area is a 'Save' button.

### 4-5. The Function Description of File Window

Click “**File**” section to playback the video clips or snapshot file of IP camera from the SD card or HDD of PC. The File Management interface as shown in the follow figure.



Entry the assign time period and then click “**Search**” button to find out the Video clips and Snapshot file which you want to playback.

- ✧ **Preview Capture:** To review preview capture files, search and double click the files to playback the image file.
- ✧ **Playback Capture:** To playback the image of capture files in file management.
- ✧ **Playback Backup:** To playback the image of backup files in file management.
- ✧ **Preview Capture:** To review preview capture files, search and double click the files to view the image file.
- ✧ **File Capture:** To review capture files in file management, search and double click the files to view the image file.

- ✧ **Preview Videos:** To review preview interface video record files, search and double click the files to playback the video file.
- ✧ **Face Picture:** To review the Face detection picture in file management, search and double click the files to view the image file.
- ✧ **SD Card Link Capture:** To review preview capture files of event trigger, search and double click the files to view the image file.

## ➤ Playback function description



**Play:** Click button to playback the video clip.



**Stop:** Click button to stop the playback the video clip.



**Decrease speed** – Decrease the speed of playback.



**Increase speed** – Increase the speed of playback.



**Copy video clip** – Copy current video clip to a specified location for archiving or distribution.



**Snapshot** – Capture the video screen and save as a JPEG file.



**Voice:** Click button to turn on/ off the voice during playback.




**Navigation bar** – Display the current position of the video clip and allow users to move to different points within the clip. Left moves backward, right moves forward.



#### 4-6. The Function Description of Log Window

Click “**Log**” section to check the view log information and the interface shown as the below diagram.



Secure your world to ours

Live

Playback

File

Setup

Log

Alarm

Face

Log Search

Main Type

All

Start Time

2018-12-07

End Time

2018-12-07

Page No

20

Search

No.	Log Time	Main Type	Log Theme	Ch	User Address
1	2018-12-07 18:57:03	Operation	Remote Login		192.168.1.96
2	2018-12-07 18:56:50	Operation	Remote Logout		192.168.1.96
3	2018-12-07 18:51:24	Operation	Remote Login		192.168.1.96
4	2018-12-07 18:51:10	Operation	Remote Logout		192.168.1.96
5	2018-12-07 18:18:54	Operation	Remote Login		192.168.1.96
6	2018-12-07 18:18:39	Operation	Remote Logout		192.168.1.96
7	2018-12-07 18:18:31	Operation	Remote Login		192.168.1.96
8	2018-12-07 18:18:06	Operation	Remote Logout		192.168.1.96
9	2018-12-07 18:17:41	Operation	Remote Login		192.168.1.96
10	2018-12-07 18:17:30	Operation	Remote Logout		192.168.1.96
11	2018-12-07 18:00:43	Operation	Remote Logout		192.168.1.25
12	2018-12-07 17:53:08	Setup	Set SENSOR	1	192.168.1.96
13	2018-12-07 17:52:55	Operation	Remote Login		192.168.1.25
14	2018-12-07 17:52:36	Operation	Remote Login		192.168.1.96
15	2018-12-07 17:52:23	Operation	Remote Logout		192.168.1.96
16	2018-12-07 14:42:23	Setup	Set Audio Parameters	1	192.168.1.96
17	2018-12-07 14:42:23	Setup	Set Compression Parameters	1	192.168.1.96
18	2018-12-07 12:27:35	Operation	Remote Login		192.168.1.96
19	2018-12-07 12:27:13	Operation	Remote Logout		192.168.1.96
20	2018-12-07 11:34:18	Operation	Remote Login		192.168.1.96

Total 46 Records

Current 1 Page

Page Down

End Page

Skip To

1/20

Entry the assign time period, and then click “**Search**” button to find out the view log file.

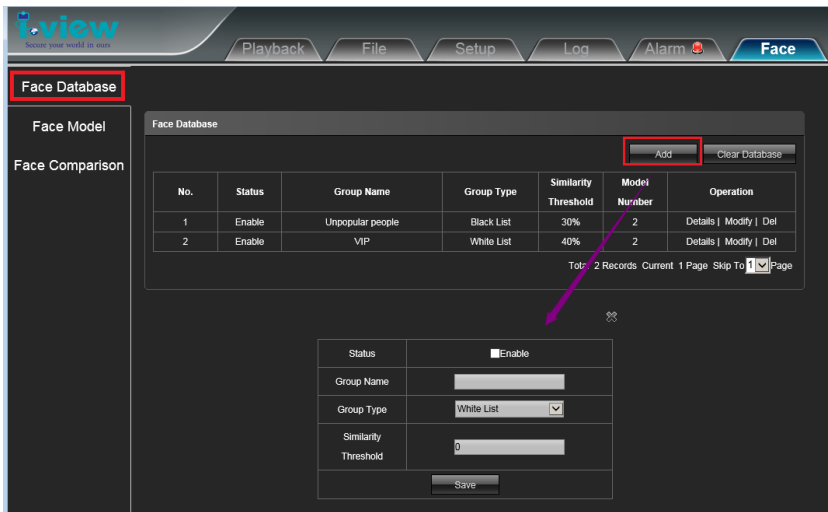
- ✧ **Main Type:** Select the log type to check. There are Alarm/ Exception Settings/ Operation / Setup optional or All to check all log.
- ✧ **Start Time/ End Time:** Select time period which you want to check the view log files.
- ✧ **Page No:** Select the page number if the search log files more than one page.

## 4-7. How to Setup the Database of Face Recognition?

Click “Face “ section to setup the Database of Face, Group, and search the result of the Face Recognition. Please follow up the setup process as below.

- **Setup the Group Database of Face recognition**

➤ **Face Database:** Click this tab to setup the Group.



✧ **Enable:** Check this icon to enable this group, otherwise it will do not active the Database of this Group.

✧ **Group Name:** Enter the name of Group, such as VIP.

✧ **Group Type:** Drop and select the group type. There is Black list, White List and Others 3 kind preset modes.

✧ **Sensitivity Threshold:** Enter the confidence percentage of face recognition confidence, the system will ignore the result when the confidence lower than the setting.

- **Import he face to build up the Face model**

➤ **Face Import:** Select the Group and then click “Detail” tab to import the face photo from the existing file or IP camera to build up the Database.

- ✧ **Single Import**

Please follow up the process as below to build up the face model.

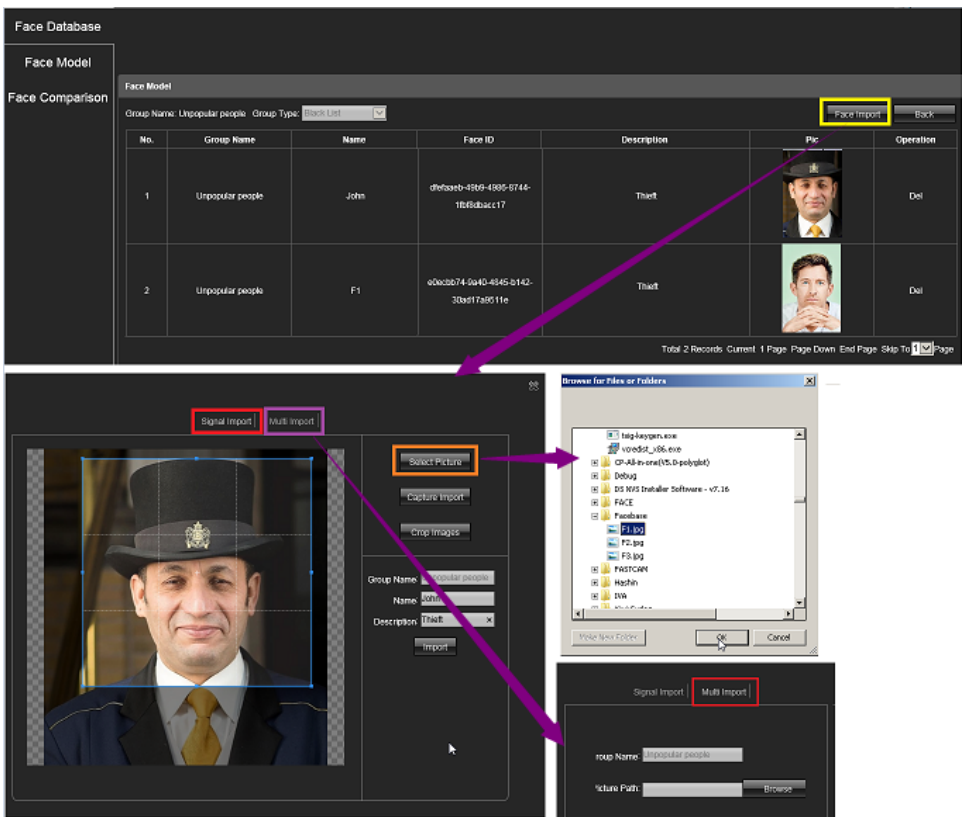
1. Click the “**Select Picture**” tab and then browser the photo file.

2. Press the right button of Mouse then drop and drag to adjust the size of photo which you want to import the face photo into the Database.
3. Enter the text from “Name” and “Description” tab and then click “**Import**” icon to finish the process.

#### ❖ **Multi Import:**

1. Browser the folder which wants to import multi photos at a time.
2. Click “**Import**” icon after photos load is finished to complete the setting.

**Note:** The Multi import cannot setup the name and description, so please rename each photo file which you want to import and show the name on the Face Database.



➤ **Face Model:** Click this tab to search the existing face from the Database.

No.	Group Name	Name	Face ID	Description	Pic	Operation
1	Unpopular people	F11	abe9428d-a164-4597-a48a-95457c365492			Del

Total: 1 Records Current: 1 Page: 10 Page

Check the parameters which you want to search the existing face from the Database. The parameters are including Group name, Name, Photo search (Face to Face), Face ID, Description, Similarity Threshold mode and Query Type. Click the “**Search**” icon and the result will list on the window base on the setting parameters.

➤ **Face Comparison:** Click this tab to search the result of face recognition.

No.	Time	Face Model	Group Name	Group Type	Name	Face ID	Pic	Operation
1	2018-12-07 10:49:07	Unpopular people		Other		30ad17ad5f1e		Details
2	2018-12-07 10:49:07	Unpopular people		Other		8Decb74-9a83		Details

Total: 13 Records Current: 1 Page: Page Down End Page: Ship To: 1 Page

Please follow up the process as below to search the result of face recognition.

1. Select the search period; please choose the “**Start time**” and “**End time**”.
2. Select the Query Condition.
3. Check the parameters which you want to search the result of face recognition.
4. Click hen browser the photo file.
5. Press the “**Search**” icon and the result will show on the window.

### 4-8.How to run the Face Recognition on Browser?

Please follow up the steps as below to setup the Face recognition function

1. You need to enable schedule and setup the parameters of **Face detect** before you start to use the **Face Recognition**. The detail process that you can refer to [Page 56, setups the Face detect function.](#)
2. Check **Save Face Capture Jpeg** and **Save Panorama Jpeg** icons to save the photo into the SD card or HDD.
3. Check **Draw ID & Score** icon to enable the Face ID and score will display on the image when the face is detected.
4. Click “**Face**” tab which on the right /top site, the IP camera will start to enable face recognition function. The result will be showing the side bar.
5. The right side window will show the result of face recognition and the button window will show the image of face detection.

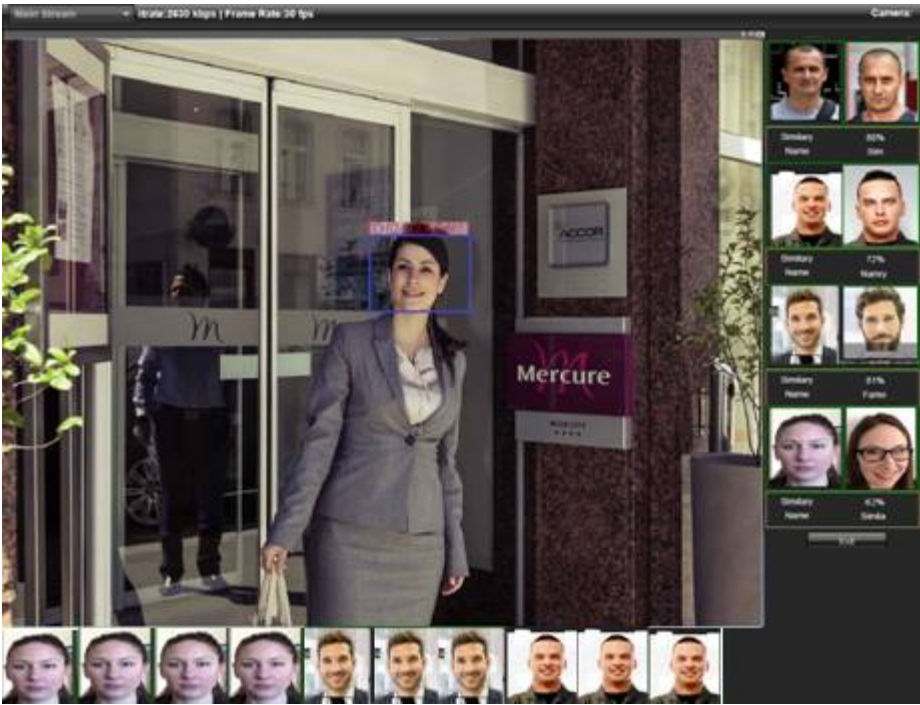
☒ Show Smart Detection Rule

☒ Show Smart Detection Result

☐ Save Face Capture Jpeg

☐ Save Panorama Jpeg

☐ Draw Id & Score



# Chapter 5. Troubleshooting

Before you send this IP Camera back to your dealer when you found this IP Camera is not working properly, please checks the table as below to save your time.

Problem description	Possible solution(s)
Can't connect to IP Camera	<ul style="list-style-type: none"><li>✧ Check the IP address and port number is correct or not</li><li>✧ Make sure the entry User name/Password is correct.</li><li>✧ Make sure the port number is opened from the NVR and Router.</li><li>✧ Make sure the network cable is correctly connected to your local area network. (The green LED will be flash).</li><li>✧ Make sure the IP camera and NVR at the same LAN segment.</li><li>✧ Make sure the Switch Hub is workable.</li><li>✧ Check the LAN cable and Ethernet port of NVR are workable.</li><li>✧ Check IP camera is powered.</li><li>✧ Check the IP address and port number setting is matched with IP camera.</li><li>✧ NVR had been installed the correct video codec.</li></ul>
No IP Camera found	<ul style="list-style-type: none"><li>✧ Make sure the network cable is correctly connected to your local area network. (The green LED will be flash).</li><li>✧ Make sure camera power is on.</li><li>✧ Make sure the Switch Hub is workable.</li><li>✧ Check the LAN cable and Ethernet port of NVR are workable.</li><li>✧ Check network routing cable(s).</li><li>✧ Check cable distances do not exceed operating distance.</li></ul>
No image	<ul style="list-style-type: none"><li>✧ If the place where IP camera is installed is too dark, try to add some lights when possible.</li><li>✧ Check if there's anything covering the lens.</li><li>✧ NVR had been installed the correct video codec.</li></ul>