



*Now you can see!*

# 1080P IP

**IR BULLET PTZ CAMERA**

[www.provision-isr.com](http://www.provision-isr.com)



*User Manual*

I5PT-320IPMX10-P

I5PT-320IPMX4-P

I5PT-340IPX10-P

# Precautions:

Please read this manual carefully before installing and operating the camera.

- Please refer to the technical specs to confirm you are using a suitable power supply. Do not use power supply with higher/lower rating than specified.
- Do not attempt to disassemble the camera; in order to prevent electric shock, do not remove any screws or covers.
- There are no user-serviceable parts inside. Please contact the nearest service center if there is any technical failure.
- Avoid incorrect operation, shock vibration or heavy weight pressing which can damage the camera.
- Do not use corrosive detergent to clean the camera. If necessary, please use a soft dry cloth to wipe dirt. For tough contamination, use neutral detergent. Any cleanser for high grade furniture is applicable.
- Avoid aiming the camera directly towards extremely bright objects such as the sun, as it may permanently damage the image sensor.
- Please follow the installation instructions.
- Do not operate the camera in environments that exceeds the specified temperature, humidity or power.
- Keep away from any heat sources such as radiators, heat registers, stoves, etc.
- Do not expose the product to the direct airflow of an air conditioner.
- All pictures and examples used in the manual are for reference only.
- Please use our production under the following environmental standards:

Environmental Temperature:	- 35 ~60°C
Environmental Humidity:	<95%(no condensing)
Barometric Pressure:	86 ~106KPa

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# 1) Product Overview

- **PT Capabilities:** The camera is equipped with Pan/Tilt motors that allow movement range of 250° pan and 80° tilt.
- **Motorized Vari-Focal with auto-focus:** The camera is equipped with x4/10 optical zoom lens and features accurate auto focus algorithm.
- **Double stream:** The camera support dual stream video streaming for different requirements and applications.
- **Supported network protocols:** Support TCP/IP, PPPoE, DDNS, FTP, UPNP & ONVIF
- **OSD function:** On screen display of selected information.
- **PoE:** Some models (Marked by “-P”) are equipped with PoE capabilities and can be operated using PoE switches and power supplies.
- **All-weather outdoor design:**
  - IP66 Protection standard
  - TVS 3000V Protection standard

# 2) Function Introduction:

- **Movement proportional to zoom:** higher zoom values will automatically reduce the camera speed while on manual control.
- **Auto movement functions:**
  - 256 presets slots

# 3) OSD Menu operation

- **Call up OSD menu**

Call Preset 95 to enter the main OSD menu; call Preset 96 to close the OSD menu or select “Exit”

- **Confirm**

The “Left ”and “Right ”button is controlled by PTZ can change the required item, and the changed item is the confirmed one without further confirmation. You can directly click “Up” and “Down” button to go on your further operation. When setting the left and right boundary for scan and pattern, you can click the “Focus Far” for confirmation.

- **Cancel**

The “up” and “down” button controlled by PTZ carry out the request for Further action; meanwhile, it carries out the “Cancel” order for last operation.

# 4) Web Browse Operation Guide

## a. Common Operations

### Factory default settings:

IP camera is a network device and must be assigned with network IP address, subnet mask and gateway. The camera default setting is as follows:

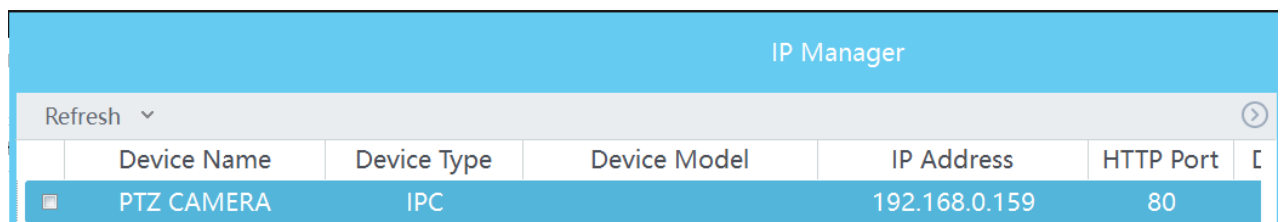
**Default IP address:** DHCP. If no DHCP server is available, the camera will fall back to 192.168.201.226

**Subnet mask:** 255.255.255.0

**Gateway:** Assigned by DHCP. If no DHCP server is available, the camera will fall back to 192.168.201.1

**WEB port:** 80

Please use Provision-ISR's Ip manager to locate the IP address of the camera. For example:



IP Manager					
Refresh					
Device Name	Device Type	Device Model	IP Address	HTTP Port	
PTZ CAMERA	IPC		192.168.0.159	80	

### Network parameters

Take the example of Windows 10 operating system. Make sure that the IP address of the computer is in network segment of the camera. If the IP addresses are not in the same segment, the computer and camera will not be able to communicate.

After setting IP address, you could test whether it has been connected between the computer and the camera by using the PING order from clicking the "start" → "run" button in the bottom left corner. The format of the command: 'ping 192.168.0.99' (Or any other IP assigned to the camera).

The screen should look as follows:

```
pinging 192.168.0.99 with 32 bytes of data:
Reply from 192.168.0.99: bytes=32 time<1ms TTL=64
Reply from 192.168.0.99: bytes=32 time<1ms TTL=64
Reply from 192.168.0.99: bytes=32 time<1ms TTL=64
Reply from 192.168.0.99 bytes=32 time<1ms TTL=64
ping statistics for 192.168.0.99:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

As the picture shown above, it indicates that it has been successfully connected between the computer and the camera. However, if the screen shows like below, it indicates some kind of a failure for the following possible reasons:

```
pinging 192.168.0.99 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
ping statistics for 192.168.0.99
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

- Hardware connection is incorrect
- Computer TCP/IP is not in the same segment as the camera
- Your network forbid pings.

## 5) Web Login

Enter IP address of the camera on “Internet Explorer” web browser to open the following interface:

◆ user name: admin

◆ password: 123456

◆ Port: 80

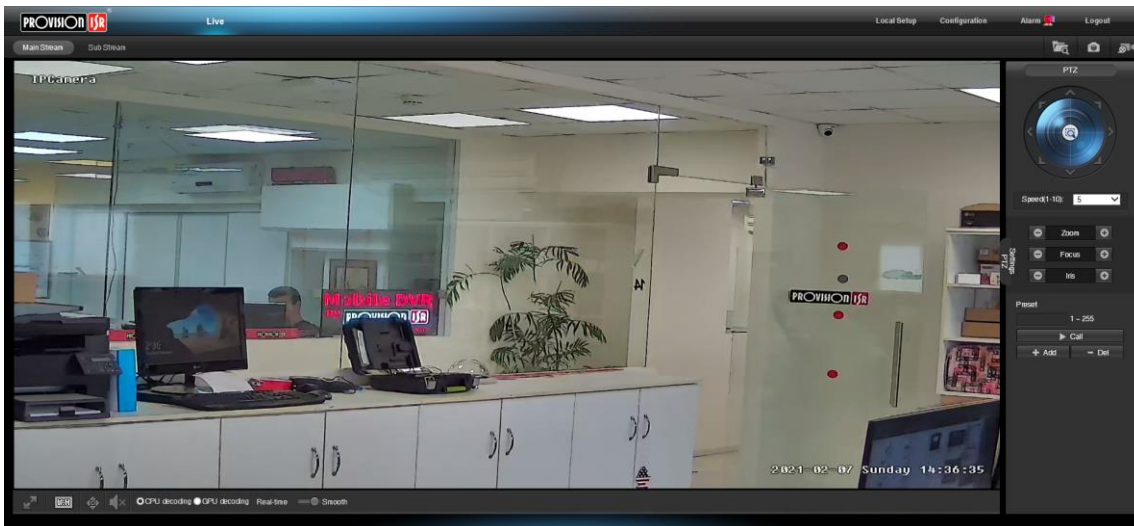




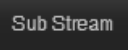
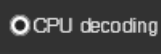

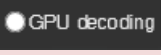



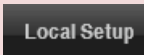






The login interface features the PROVISION ISR logo at the top. Below the logo are three input fields: 'Username' with a person icon, 'Password' with a key icon, and a 'Language' dropdown menu currently set to 'English'. A blue 'Login' button is positioned at the bottom of the form.

**Downloading and installing the video Active-X:**


Please click [here](#) to download the plug-in and install it with the administrator after closing the browser.

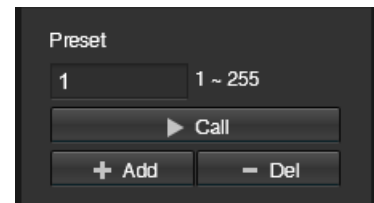
After you logged in, the web-browser will prompt you to install or update the plug-in. Click on “Ok”, close all internet browser and start the installation by double clicking on the downloaded file. Log in back to the camera web page and perform the login authentication procedure (default: admin/123456). Upon successful login, the camera will redirect to the following interface.



Button	Task	Button	Task
	View the image main stream		Open PTZ controls
	View the image sub stream		Encode video by PC CPU
	Browse for local snapshots and videos		Encode video by PC GPU
	Take a snapshot		Switch between real-time video (Less buffer) and Smooth video (More buffer).
	Start local video recording		Configure where local snapshots are videos will be saved
	Stop local video recording		Configure the camera parameters
	Full screen view		View live alarm notifications
	Change video aspect ratio		Log out of the camera

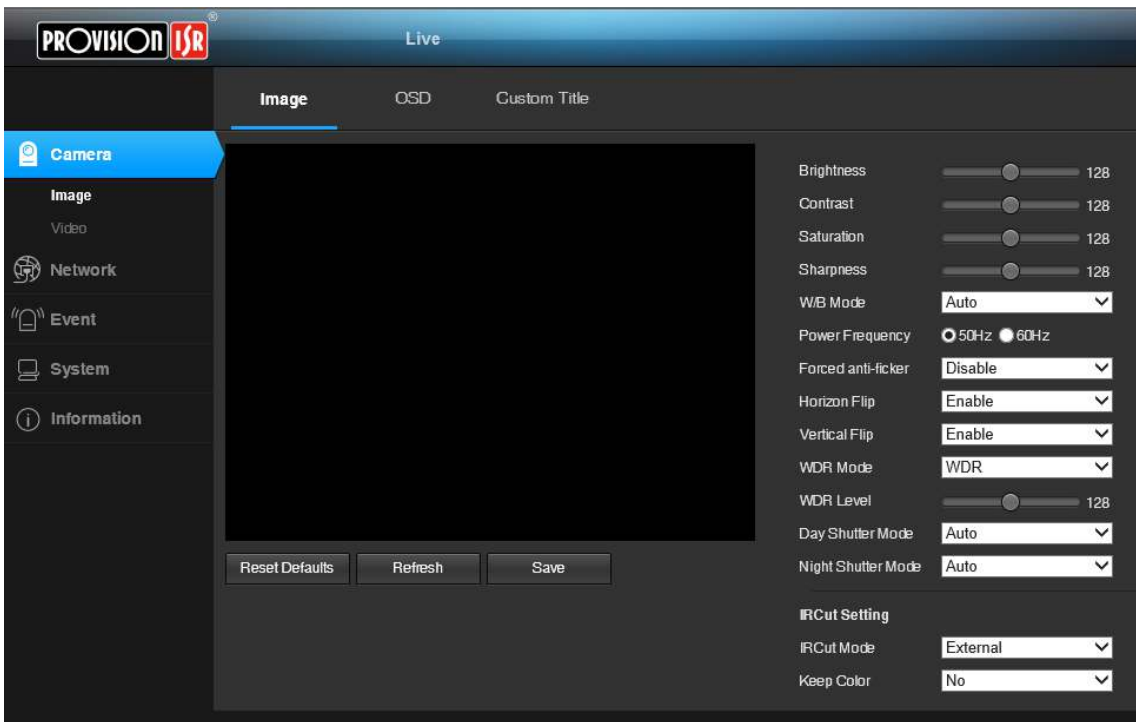
### Operation methods for preset position

1. Enter the PTZ Setting interface by clicking on .
2. Setting preset position: Input the preset number you want to save or edit, set the camera position and click on "+ Add"
3. Call the preset position: Input the preset number you want to call and click on "call".
4. Delete preset position: Input the preset number you want to delete and click on "- Del"
5. Special function preset position: this kind of preset position can be called, but it cannot be modified or deleted.



# 6) Configuration

Click "configuration" to enter the configuration interface:

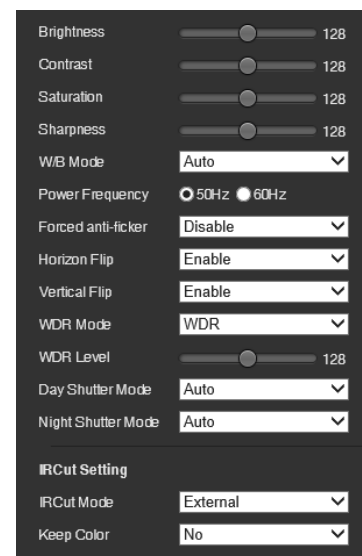


## a. Camera

### i. Image

From this interface you can set the video image settings.

- "Sharpness": Set the general image brightness. This will be done digitally and not affect the exposure values.
- "Contrast": Set the contrast of the video colors
- "Saturation": Higher saturation gives more vivid colors, but might look artificial. Lower saturation will result in dull colors.
- "Sharpness": Higher sharpness the image edge is clearer, while it could not be said the higher the sharpness, the better image quality, high sharpness can make the picture look distorted.
- "W/B Mode": Set the white balance of the camera (Auto or Manual)
- "Power Frequency": Set the power frequency in your region to prevent light flickering.
- "Forced Anti-flicker": In some cases, there might be flickering even if the power





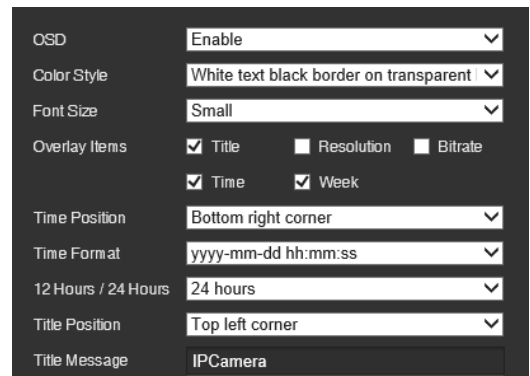
frequency is set properly. This feature will attempt to remove it.

- “Horizon Flip”: Horizontally mirror the image if required.
- “Vertical Flip”: Vertically flip the
- “WDR Mode”: Set **Digital WDR**.
- “WDR Level”: Set the WDR level.
- “Day Shutter Mode”: Set the shutter mode for day mode between auto and manual. If manual is selected, set the corresponding exposure value.
- “Night Shutter Mode”: Set the shutter mode for night mode between auto and manual. If manual is selected, set the corresponding exposure value.
- “IR Cut Mode”: Set the day/night shifting method:
  - External (Default): The CDS light measuring sensor will control over the Day/Night mode.
  - Auto: The image sensor will control over the Day/Night mode.
  - Timing: Set schedule to control over the Day/Night mode.
  - Manual: Set Day/Night Mode Manually.
- “Keep Color”: Set the camera to remain in color even in night mode.
- “Reset Defaults”: Revert all changes and restore to factory default.

## ii. OSD

Set the OSD (On screen display) that will appear on the camera video.

- OSD (Enable/Disable): Enable or Disable OSD completely.
- Color: Set the color of the OSD.
- Font Size: Set the OSD font size
- Overlay Items: Set what information will appear on the video
- Time Position: Set the position for the time/date.
- Time format: Set the time/date format
- 12 Hours/24 Hours: Set if the clock will work in 12 or 24 hour mode.
- Title Position: Set the title position.
- Title Message: Set the title of the camera

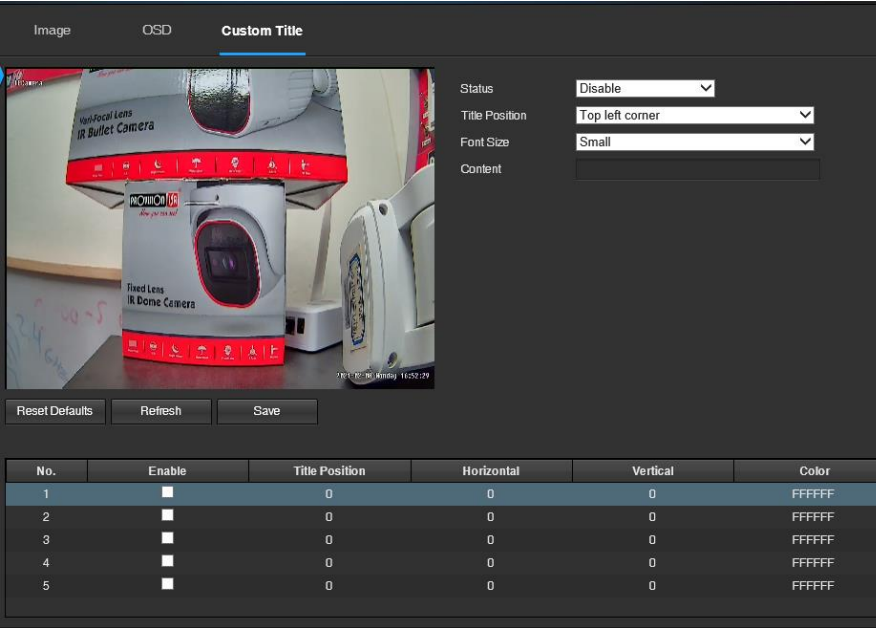


The image shows a settings menu for OSD (On Screen Display) with the following options:

OSD	Enable
Color Style	White text black border on transparent
Font Size	Small
Overlay Items	<input checked="" type="checkbox"/> Title <input type="checkbox"/> Resolution <input type="checkbox"/> Bitrate <input checked="" type="checkbox"/> Time <input checked="" type="checkbox"/> Week
Time Position	Bottom right corner
Time Format	yyyy-mm-dd hh:mm:ss
12 Hours / 24 Hours	24 hours
Title Position	Top left corner
Title Message	IPCamera

### iii. Custom Title:

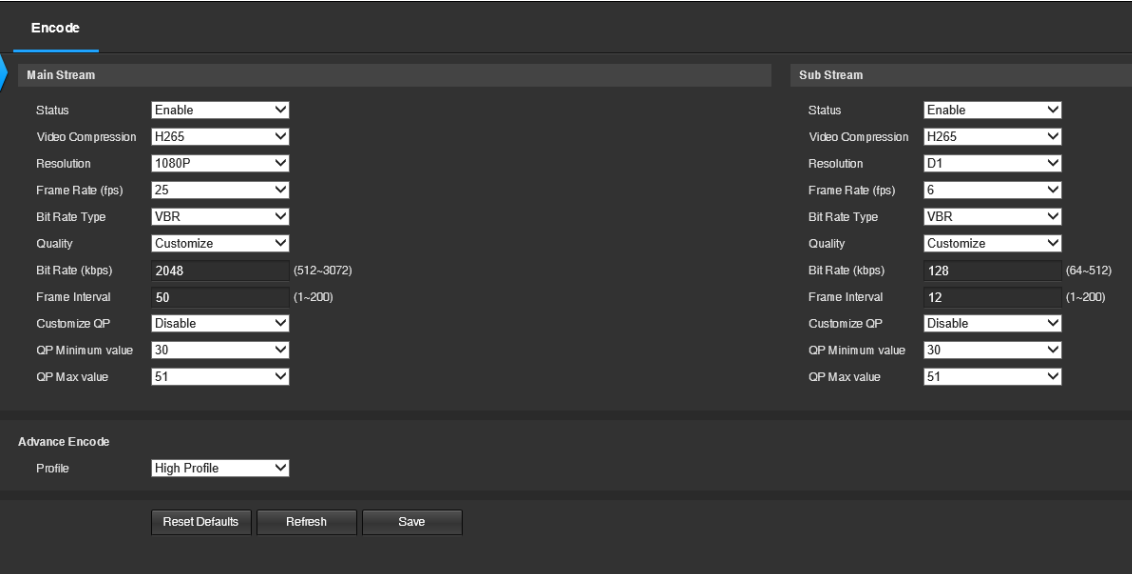
Add additional custom titles to the camera as required.



No.	Enable	Title Position	Horizontal	Vertical	Color
1	<input type="checkbox"/>	0	0	0	FFFFFF
2	<input type="checkbox"/>	0	0	0	FFFFFF
3	<input type="checkbox"/>	0	0	0	FFFFFF
4	<input type="checkbox"/>	0	0	0	FFFFFF
5	<input type="checkbox"/>	0	0	0	FFFFFF

## b. Video

Set all the video parameters of the camera.



- Status: Enable/disable the video stream.
- Video Compression: Set the video compression (H265/H264). Please make sure that the NVR support the chosen compression type.
- Resolution: Set the video resolution of the camera.
- Frame Rate (FPS): Set the FPS of the camera
- Bit Rate Type: Set VBR (Variable Bit-rate) or CBR (Constant Bit-Rate).
- Quality: Set the quality preset which will define the actual bit-rate

- Frame Interval: The I-Frame frames. Default is 50.
- QP Minimum Value: Quantization Parameter. Lower QP - less compression (higher bitrate requirements) and lower compression artifacts (higher quality).
- QP Max Value: Quantization Parameter. Higher QP - more compression (lower bitrate requirements) and higher compression artifacts (lower quality).
- Advance Encode profile: Choose between High/Main/Base encoding profile.

## c. Network

### i. Basic

From this interface you can set basic network settings such as IPv4, IPv6, DNS, DHCP and static IP.

If set to DHCP, the DHCP server will provide the camera with all the required configuration fields (IP Address ,Subnet Mask, Default Gateway, Preferred DNS and Alternate DNS).

If set to Static, the user needs to provide all the details above.

Both IPv4 and IPv6 are available but cannot work together. Please select the required protocol.

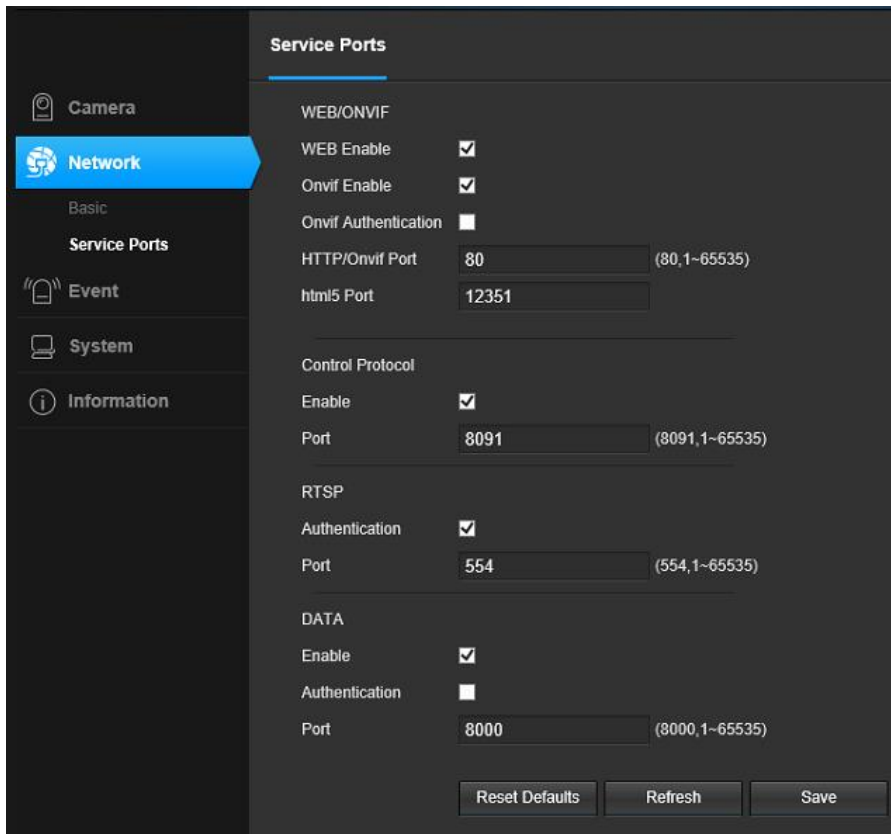
The screenshot displays the 'TCP/IP' configuration page in a web interface. On the left is a navigation menu with options: Camera, Network (selected), Basic, Service Ports, Event, System, and Information. The main content area is titled 'TCP/IP' and contains the following settings:

- Mode:** Radio buttons for 'Static' (selected) and 'DHCP'.
- MAC Address:** F0-00-00-6C-5B-42
- IP Version:** IPv4 (dropdown menu)
- IP Address:** 192 . 168 . 0 . 82
- Subnet Mask:** 255 . 255 . 255 . 0
- Default Gateway:** 192 . 168 . 0 . 1
- Preferred DNS Server:** 192 . 168 . 0 . 1
- Alternate DNS Server:** 8 . 8 . 8 . 8
- All Subnet Onvif:**

At the bottom of the configuration area are three buttons: 'Reset Defaults', 'Refresh', and 'Save'.

## ii. Service Ports:

This interface contains all the ports required for the camera work. If some of the ports are not in use, it is advisable to disable it.



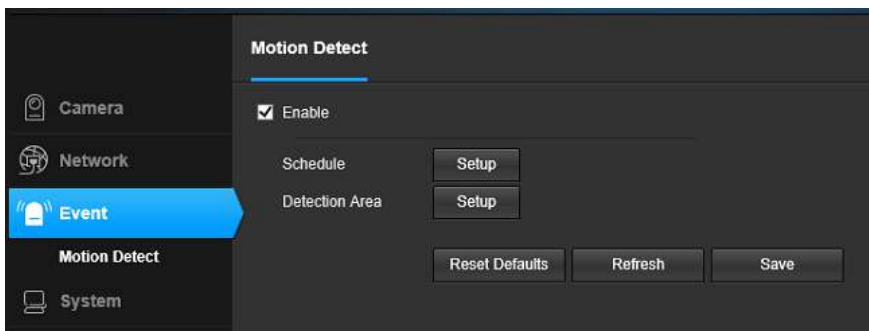
**Note:** Please reboot the IP camera after modifying the parameters.

## d. Event

### i. Motion Detect

The camera can detect motion on the scene based on pixel change.

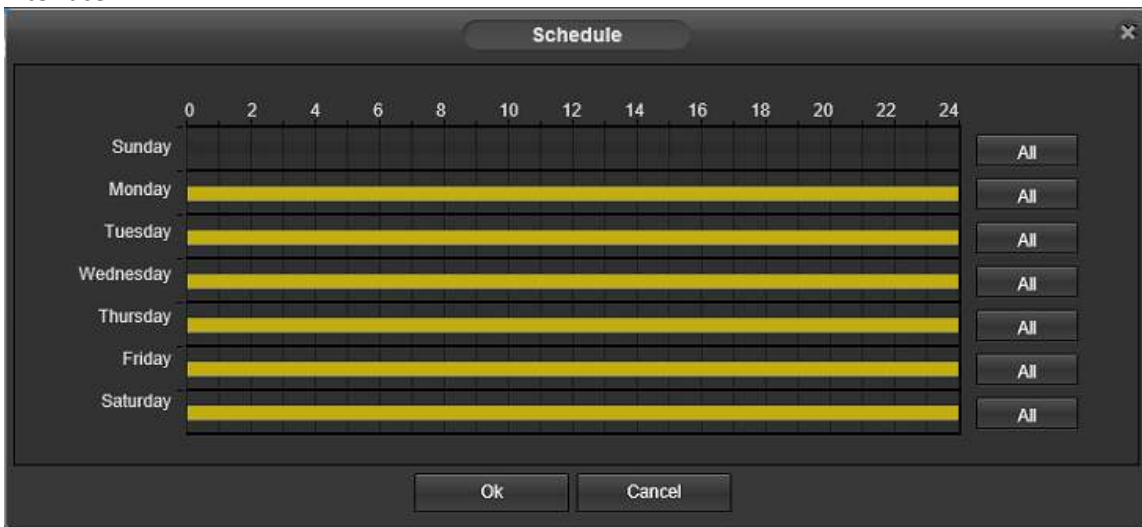
Enable/disable the motion detection as required. Note that if the NVR is set to record motion, the motion detection must be enabled on the camera side.



**Schedule:**

Set the motion detection schedule as required. Click on the "Setup" button to open the following

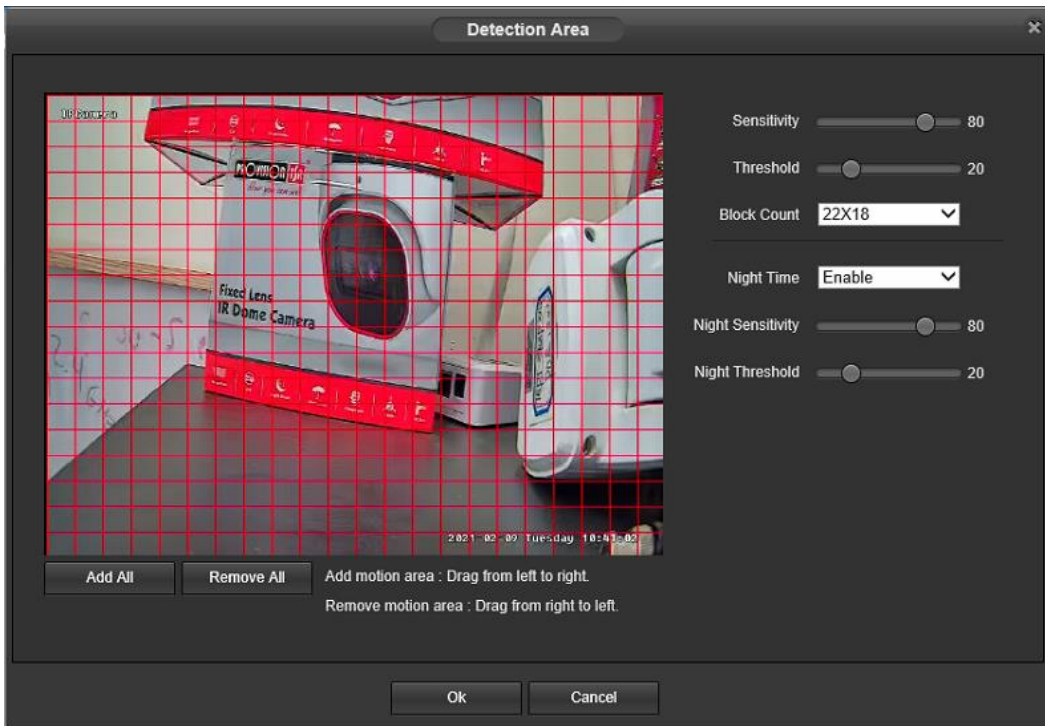
interface:



Click on a schedule to delete it. Drag the mouse from the start point to the end point to set new schedule interval. Click on "All" to set a 24h schedule for the selected day.

### Detection Area:

Set the motion detection area as required. Click on the "Setup" button to open the following interface:



**Sensitivity:** Higher sensitivity will consider minor changes as motion. Lower sensitivity will require more significant changes to be considered motion. Set the sensitivity of the motion detection.

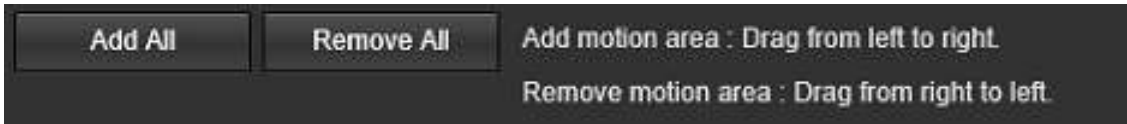
**Threshold:** Higher threshold means that more "blocks" needs to contain motion in order to trigger an alarm. Lower threshold means that less "blocks" needs to contain motion in order to trigger an alarm.

**Block Count:** set the numbers of blocks. (Default is 22x18)

**Night Time:** Set if motion detection should also be enabled when the camera is on night mode.

**Night Sensitivity / Threshold:** Same as above just for night mode.

**Detection Area:** Set the detection area as follows:

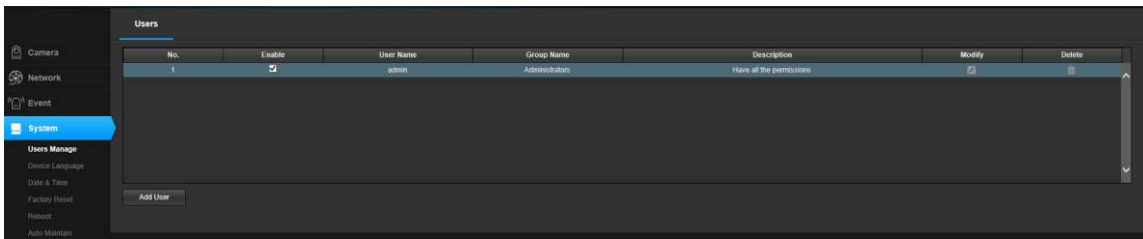


## e. System

### i. Users Manage

This interface allows you to manage the users of the system (Add/remove/modify).

The system has a built-in super administrator (admin account) which cannot be removed, but only edited.




#### Adding a User:

To add a new user, click on the “Add New” button. The following interface will open:

Set a user name and password, and choose out of 3 operating groups:

- 1) Administrator: allows to perform any operation or configuration on the camera.
- 2) Operator: allows to perform any operation or configuration on the camera, except of managing users (Cannot add/delete/modify users).
- 3) User: Can only live view and see configurations (Cannot edit or setup anything).
- 4) Save to confirm

#### Deleting a User:

Click on the delete icon () , and confirm deleting on the prompt.

Modifying a User:

Click on the modify icon () to open the following window.

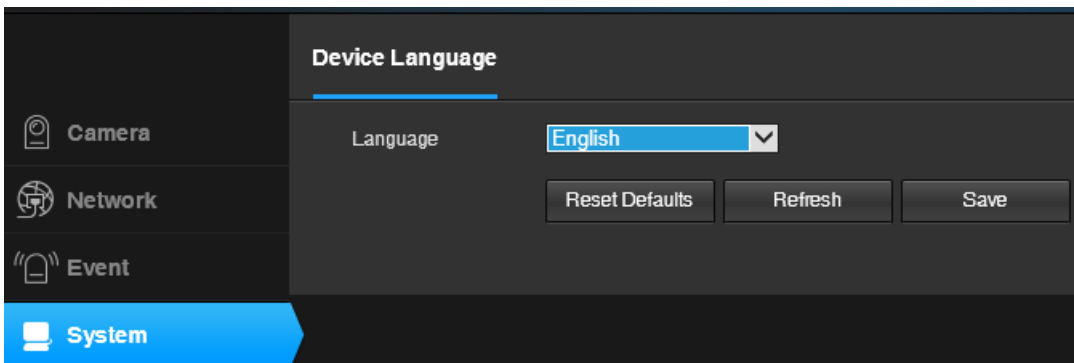


Change the user group or password as required. Click on “Save” to save the changes.

## ii. Device Language

Use this interface to change the system language.

Choose the required language, click on save to save the selection and then click refresh to apply the new language selection.

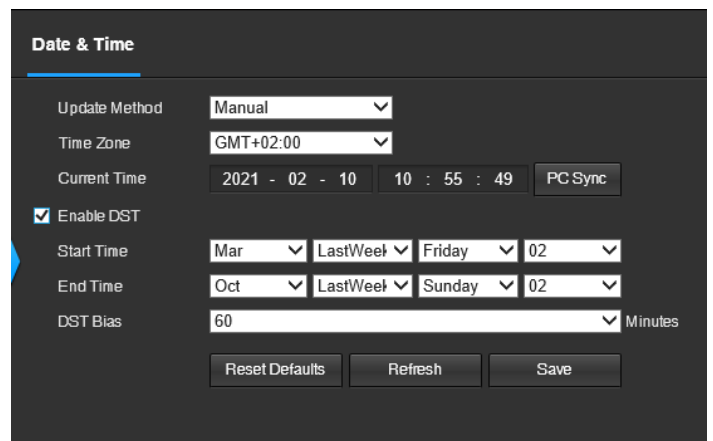


## iii. Date & Time

Use this interface to set the camera date and time.

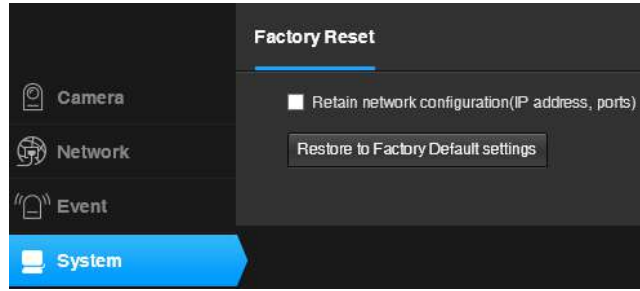
Note: In normal circumstances, the date and time will be configured automatically by the NVR. It is advisable not to change this setting manually unless required.

If you enable DST (Daylight Saving Time), please configure it according to your local DTS setup.



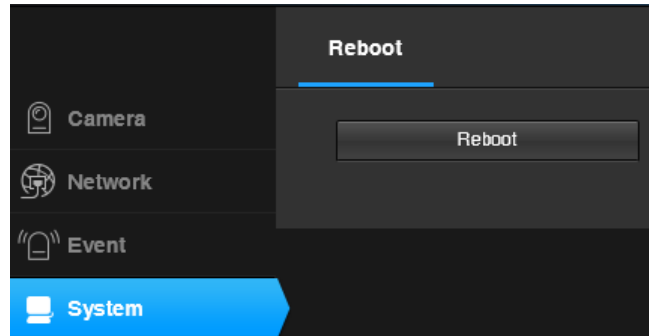
#### iv. Factory Reset

Use this interface to restore the camera settings to factory default. If you wish for the camera to retain all network configurations (IP Addresses, Ports, Etc.), please mark the option accordingly.



#### v. Reboot

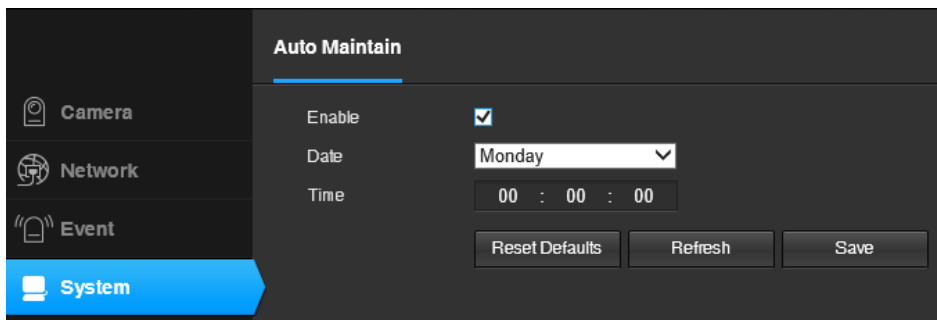
Use this to manually reboot the camera. After clicking on "Reboot", confirm or cancel in the following prompt message. Reboot time should take 1-4 minute.



#### vi. Auto Maintain

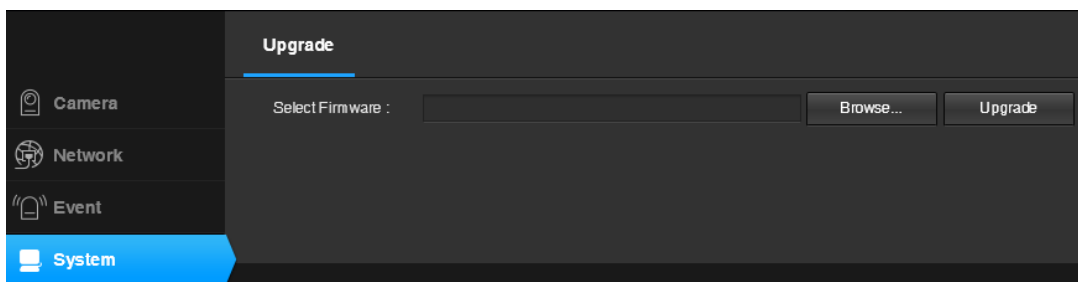
The IP camera is eventually a computer. Occasional reboot will clear the camera memory and cache and might prevent problems that appear over long time durations.

If you wish to activate the "Auto Maintain" feature, enable it and set the weekly time and date for the reboot to take place.



#### vii. Upgrade

In some cases, camera firmware update is required so new features will be added and bugs and other problems will be fixed. Click on the "Browse" button and choose the update file. Click on upgrade to confirm. The upgrade process can take 3-12 minutes. At the end of the process the camera will reboot. No configurations will be changed during the update.





## 7) Park Action

Park action will return the camera position to **Preset 1** once 1/2 minutes as passed (Default is on – 1 minute). If Preset 1 position is not configured, the Park action will not work. Please see the preset commands below to enable/disable park action.

## 8) Preset Commands:

Please use the presets described below for special actions.

<b>15PT-320IPMX4-P</b>	
<b>Operation command</b>	<b>Instruction</b>
Day/Night	SET preset 70 then: CALL preset 1: Auto Mode. CALL preset 2: Night Mode CALL preset 3: Day Mode
MVF Lens Initialize	SET preset 85 then CALL preset 65 (Lens will initialize. Please wait patiently. The process will take 2-4 minutes)
Set Day/Night Sensitivity	SET preset 71 then CALL preset 1-10 (1 – Lowest Sensitivity, 10 – Highest Sensitivity)
Park Action - Off	SET preset 96
Park Action – 60s	SET preset 97
Park Action – 120s	SET preset 98
Self-Test	CALL preset 94
<b>15PT-320IPMX10-P</b>	
<b>Operation command</b>	<b>Instruction</b>
Day/Night	SET preset 70 then: CALL preset 1: Auto Mode. CALL preset 2: Night Mode CALL preset 3: Day Mode
Set Day/Night Sensitivity	SET preset 71 then CALL preset 1-10 (1 – Lowest Sensitivity, 10 – Highest Sensitivity)
MVF Lens Initialize	SET preset 253 then CALL preset 252 (Lens will initialize. Please wait patiently. The process will take 2-4 minutes)
Park Action - Off	SET preset 96
Park Action – 60s	SET preset 97
Park Action – 120s	SET preset 98
Self-Test	CALL preset 94

## 9) Appendix

### a. Lighting protection and Anti-surge

This product uses the gas discharge tube of TVS diode and protection circuit, can effectively prevent the 3.0 kV following transient lightning and surge lamp all types of pulse signal to the damage of equipment. However, for outdoor installation according to the actual situation on the premise of guarantee the electrical safety to do the necessary protective measures:

- Signal transmission line must be with the high voltage equipment goods between high voltage cables to keep a distance of at least 50 meters
- Choose as far as possible outside wiring along the roof line
- for open field must adopt sealing pipe buried wiring way, and the steel pipe by one-point earthing, absolutely forbidden by wiring overhead way
- in strong thunderstorms or high induction voltage region (e.g., high voltage transformer substation), must be taken to add extra high power lightning protection equipment and installation of lightning rod and other measures
- Lightning protection and grounding design of outdoor installation and wiring must be combined with the construction of lightning protection requirements into consideration, and conform to the requirements of relevant national standards and industry standards.
- the system must be equipped on potential grounding. Grounding device must meet the system anti-interference and electrical safety requirements, and shall not be short term or mixed with strong power grid zero line. System separate grounding, grounding resistance is not greater than  $4\Omega$ .



*The IP IR Bullet PTZ Camera gives you more of everything: Faster movements, higher accuracy, HD video performance and easier installation.*