

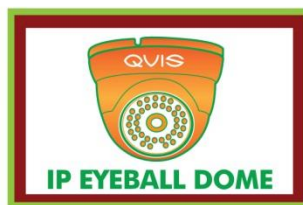
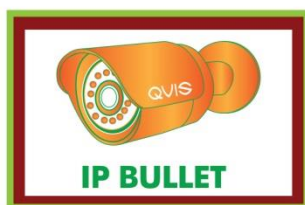
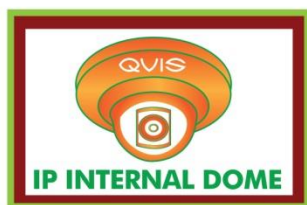


# USER MANUAL



## 2MP IR PRO PTZ DOME IPTZ-IR20A / IPTZ-IR30A

ENHANCE YOUR NVR WITH OUR WIDE RANGE OF QVIS IP CAMERAS  
OUR PRODUCTS ARE FULLY TESTED TO WORK TOGETHER



*DONT SETTLE FOR LESS, ALL OUR PRODUCTS CARRY QVIS LOGOS*

# Welcome

Thank you for purchasing the **2MP IR Pro PTZ Dome Camera**.

This user's manual is designed to be a reference tool for the installation and operation of your system.

Here you can find information about the corresponding IP camera's features and functions, as well as a detailed installation method.

**Before installation and operation please read the following safeguards and warnings carefully!**

# Precautions

## 1 . Electrical safety

- All installation and operation here should conform to your local electrical safety codes.
- The power supply shall conform to the requirement in the SELV (Safety Extra Low Voltage) and must make sure that the limited power source is rated 12V DC or 24V AC.

**Please note: Do not connect two power supplying sources to the device at the same time; it may result in device damage!**

- We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.
- We are not liable for any problems caused by unauthorized modification or attempted repair.

## 2 . Transportation Security

- Please ensure that the product does not endure heavy stresses, violent vibration or contact with water during transportation, storage and installation.
- Please use the original packing material (or the material of the same quality) if you need to return it to vendor.

## 3 . Installation

- Do not apply power to the product before completing installation.
- Do not put object(s) on the product.
- Please install a proper power cut-off device during the installation connection.

## 4 . Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers. We are not liable for any problems caused by unauthorised modifications or attempted repair.

## 5. Environment

- This product should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.
- Please keep it away from environments that contain electromagnetic radiation or objects that produce it.
- Please keep sound ventilation around the device at all times.

- Do not allow the water and other liquid to penetrate into the device if casing has been compromised. This series product complies with the IP66 standard specified in the Degrees of Protection Provided by Enclosure.
- Ensure lightning surge protection is in place to make sure you fully protect camera circuitry from electrical overload.
- Please make sure the CCD (CMOS) component is away from the radiation of the laser beam device. Otherwise it may result in CCD (CMOS) optical component damage.
- It is recommended that the grounding studs of the product should be grounded, so to further enhance the reliability of the camera.
- Avoid shooting very bright objects directly into the camera's CCD (such as the sun or light fittings), and avoid fixating the camera lens on bright static object for long time, as it will cause Irreparable damage to the camera's CCD.

## **6. Daily Maintenance**

- Please shut down the device and then unplug the power cable before you begin any maintenance work.
- Do not touch the CCD (CMOS) optic component. Please use an air jet to clean the dust off the lens surface. You can use the dry cloth with some alcohol or mild detergent to clear if necessary.
- When the camera is not in use please put the dustproof cap to protect the CCD (CMOS) component.
- Do not use volatile solvent such as the benzene, paint thinner or detergent with the ability to abrade surfaces. It may result in lens damage or adversely affect the device's performance.

## **7. Accessories**

Always use all the accessories recommended by manufacturer.

Before installation, please open the package and check that all the components are included. Contact your local retailer/vendor ASAP if something is missing.

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# 1. General and Technical Features

## 1.1 Special Features

- **High Definition Footage**

Shoot video footage using MPEG H.264 compression at varying frame rates, which allows you to save network bandwidth without compromising on footage quality. You will also be able to adjust the aspect ratio of the video footage to either 16:9 or 4:3. Also supports dynamic coding within footage settings.

- **Fixed Focus/Varifocal/Automatic focusing**

In built in 20x/30x optical zoom, varifocal (variable focus) and automatic focusing function. The automatic focusing function will adjust image to optimum clarity whilst changing the zoom amount and what direction the camera is pointing towards.

- **Double Stream Option**

Supports double streaming (Main & Sub streams).

- **Multiple Supported protocols**

Supports: TCP/IP, PPPoE, DDNS, FTP, UPNP, Onvif, etc.

- **Voice intercom function**

1 x Audio In, 2 x Audio Out. Two Way audio ability.

- **Alarm function**

Supports local and wide area network signal linkage; Link to a networked alarm system using the network input/outputs.

- **Region of Interest (ROI)**

Stream concentration makes the drawing region clearer.

- **OSD function**

Setup the camera with its onboard setup user interface, via a connected monitor.



## 1.2 Function Introduction

- Pan 0.01~360°/S, Tilt 0.01°~120°/S, Preset: 360°/S (high speed IR speed dome)
- Pan 0.5°~35°, Tilt 0.5°~35°, Preset: 35 ° /s (for Vari-speed IR dome)
- Auto object tracking, zoom in/out, and motion detection (Auto Track Model)
- Schedule up to 7 days of programmable timed actions
- Built-in Semi-conductor heater & digital temperature sensor
- PWM cooling fan with variable speeds to control temperature to a stable level
- Reserved network interface and extra capacity for a extra network module
- Pan Tilt accuracy +/- 0.1°, 256 preset positions
- 8 cruising tracks, each cruising track contains 32 presets
- 4 pattern tours, with 10 Mins memory, and 500 programmable instructions
- Multiple protocols through RS485
- 8 auto scan with user-defined left and right boundaries, and settable scan speed
- 8 settable Privacy Zones
- Automatically compatible with PELCO\_P, PELCO\_D
- Guard Location: the dome will rotate back to preset position after a period of non-use.
- Alarm triggering: the alarm can trigger preset auto scan, cruising and pattern tours functions
- Soft Address Function: this can be used to set up the dome address without uninstalling the dome

## 1.3 Integrated Super Speed PTZ Rotator

- Step-less speed change with auto zoom & speed matching
- 360° Pan and 90° Tilt range (auto-flip) without blind spot.
- Near/far IR light auto adjusts to match when camera zooms in/out

## **1.4 All-Weather Outdoor Design**

- IP66 Protection standard
- TVS 3000V Protection standard

## **1.5 Preset Position Set Up and Call Up**

Within the Preset function the camera stores the current pan/tilt angle, zoom, and other position parameters into memory. When necessary the camera recalls these parameters and adjusts the camera to a particular position. The user can store, recall and clear the presets easily and promptly by using the keyboard controller. The camera can store up to 256 presets.

## **1.6 Auto Scan**

Users can set up the left and right boundaries by using a control keyboard. Then the camera can scan between these boundaries. It can support up to 8 scanning path groups.

## **1.7 Cruising Track**

The preset position can be programmed to be recalled in a set of sequences. This sequence can be set to let the camera scan from one position to the next in a cycle at a set speed. This feature is called the 'auto cruise'. The cruise sequence and dwell time of each preset can be set. It supports up to 8 cruising tracks, each cruising track with 32 presets.

## **1.8 Pattern Tour**

Camera can memorize 600 second running paths or 500 programmable instructions. When starting a pattern tour, the camera will move automatically according recorded action path. It supports 4 groups of pattern tours.

## 1.9 Technical Parameters

<b>Power Supply:</b>	DC12V $\pm$ 10% 50W
<b>Decoder:</b>	Built-in
<b>Manual Speed:</b>	Pan:0.01°~360°/S, Tilt: 0.01°~120°/S (high speed) Pan:0.01°~100°/S, Tilt:0.01°~100°/S (Vair-speed)
<b>Preset Speed:</b>	360°/S (high speed) / 100°/S (Mid-speed)
<b>Pan Angle:</b>	360° continuous pan rotation
<b>Tilt Angle:</b>	90°(Auto Flip)
<b>Number of Preset:</b>	256
<b>Preset Accuracy:</b>	$\pm$ 0.1°
<b>Alarm input/output:</b>	1input, 1 output
<b>Auto Scan:</b>	8 auto scan tracks, user-defined left and right boundaries and scan speed
<b>Auto Cruising:</b>	8 cruising tracks, each cruising tracks has 32 preset positions, user-defined dwell time
<b>Pattern Tour:</b>	4 patterns, up to 500 instructions per pattern
<b>Guard Location:</b>	The dome will rotate back to preset position after a period of vacant time.
<b>Operating Humidity:</b>	0~90%
<b>Operating Temp:</b>	-35 °C $\pm$ 60°C

## 1.10 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.

## 2. Web Browser Operation Guide

### 2.1 Common Operations

#### 2.1.1 Factory settings

An IP camera is classified as a type of network equipment, you need to configure its network IP address, gateway, and other information to fit within the network it is being integrated into. The camera comes with a default factory IP address, which the user can change it according to their setup requirements.

Default factory IP settings:

Default IP address : **192.168.0.99**

Subnet mask : **255.255.255.0**

Gateway : **192.168.0.1**

WEB port : **8000**

#### 2.1.2 Network parameters

You will need to connect the camera to a PC with Windows installed, in order to check the camera's IP network parameters and to see if there is a successful connection. Make sure the default factory IP details of the camera is within the network parameters of the user computer, and also within the same network address segment. The IP address of the camera and the LAN cannot be the same, otherwise they will interfere with each other, causing the equipment to not operate correctly together.

Connect the camera to the PC by firstly connecting an Ethernet cable between the camera and the PC's NET port, and then provide power to the camera using the power adapter. To test whether it has been successfully connected, use the PING order within the '**cmd**' console.

To find the 'cmd' console in Windows, firstly search for 'cmd' on your computer, the icon for it should look like this:



Once loaded, the format of the command needs to be: **ping 192.168.0.99**

If the camera is correctly setup and connected the cmd console should display this:

```
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 there has been a successful connection between the computer and the camera. However, if the screen display like this:

```
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),
```

This indicates a connection failure. To solve the connection issue please check the following:

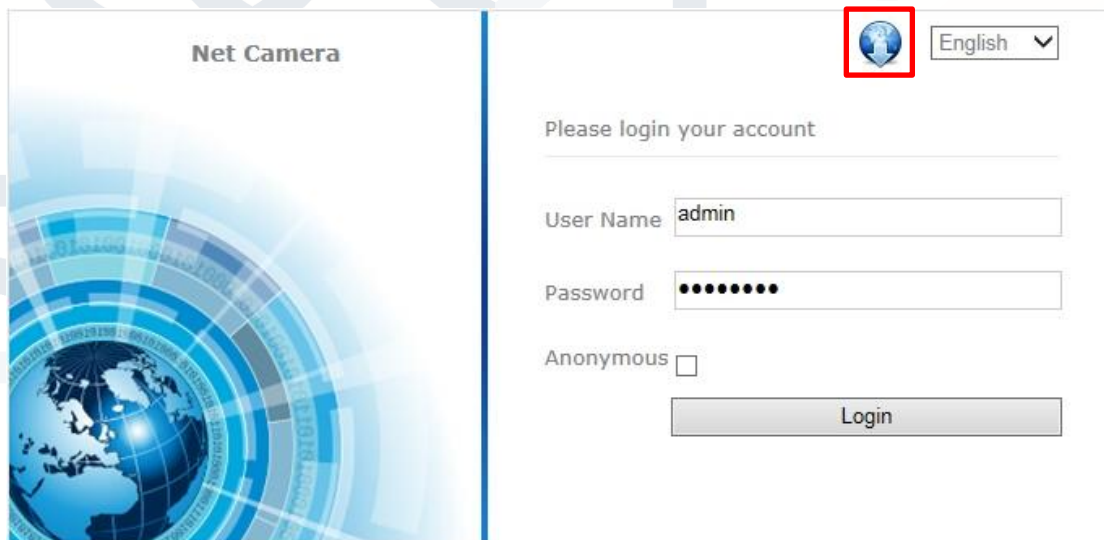
- If the hardware is correctly connected together
- If computer TCP/IP is within the same segment as the camera
- If network forbids the ping order, please contact the network administrator to gain permission.



## 2.2 Web Login

### 2.2.1 Login

Open up web browser within the Windows interface, enter default factory IP address (192.168.0.99) to open the camera's web interface. A dialog box will be shown as follows:



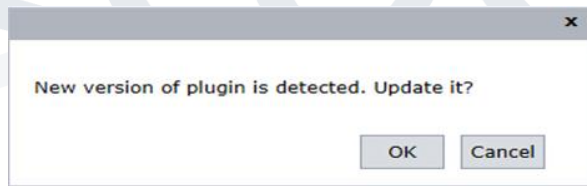
Picture 2.2.1-1 login interface

- User name : **Admin**
- Password : **Admin**
- Port : **Default 8000**

### 2.2.2 Download playing component

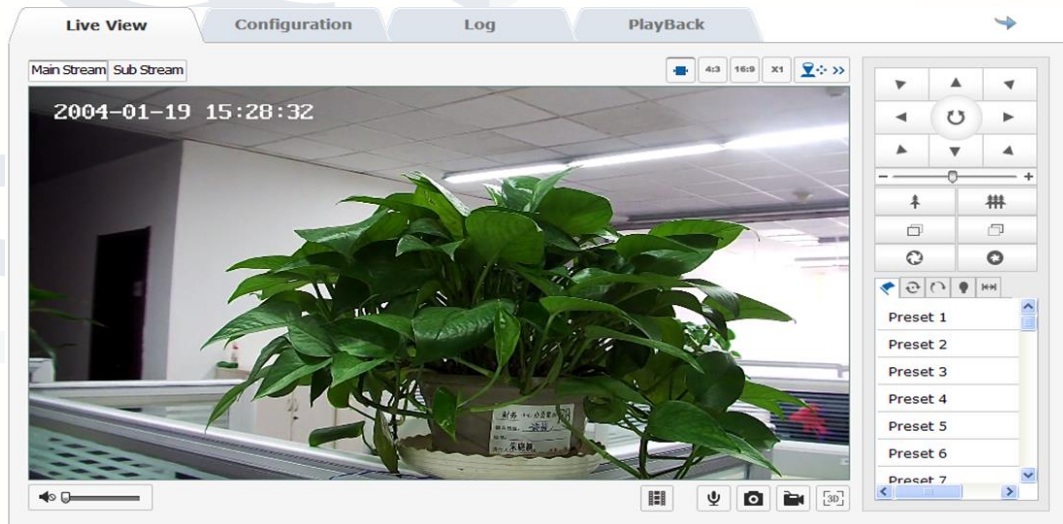
After you have logged in, if the WEB browser indicates this is the first time you've logged in and will ask for you to install the latest plug-in version. (See Picture 2.2.2-1). Click 'OK' and the plugin will be downloaded. You can also double-click the icon at the top-right corner of the login interface to download plugin (see Picture 2.2.1.1, highlighted by the red box). Double-click the downloaded **WebPluginInstaller.exe** and start & complete the installation for web browser. You need to return to the web browser screen and refresh the display (press F5 key) if you want to run this plug-in after installation, then you will be able to watch the 'preview' video stream from the camera.





Picture 2.2.2-1 Plug-in installation











After you have installed the plug-in; input user name, code, and then click the 'login 'button to enter the 'preview 'screen. See 2.2.2-2



Picture 2.2.2-2 Preview screen

Icon	Instruction
	Preview screen 4:3 ratio
	Preview screen 16:9 ratio
	Original preview screen size
	Self-adaptive preview screen
	Choose main stream or sub stream
	Volume
	Start two-way audio
	Capture
	Record
	3D positioning
	PTZ control

Sheet 2.2.2-3 Preview screen information

Icon	Instruction
	Control the vertical and horizontal movement of camera, and open or close the auto-scan
	Zoom in/out
	Focus
	IRIS
	PTZ speed
	Preset
	Sequence
	Pattern
	IR setting
	Auto scan

Sheet 2.2.2-4 PTZ control screen information

In the preview screen, you can control the camera's streamed video, which includes control over video recording, snapshot, intercom, and the on/off of the sound. The size of the image can be adjusted according to the needs of the user to set its original size; we have '4:3', '16:9' or 'Self-adaptation' mode. Preview code stream can be set as 'main stream' 'sub stream'. See 2.2.2-3

- **Operation methods for preset position**

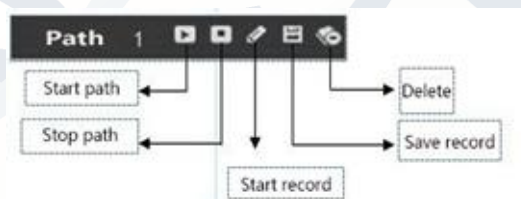
1. Find the preset section to the interface, and it will show the current preset camera position.
2. Setting a preset position; select a preset position number, and then operate direction of the camera using the directional controls.
3. When the camera scene moves to the place you want to set, then click the 'save' key to save this preset position.
4. Call the preset position: click 'call' and the set preset position can be called.
5. Delete preset position: click 'delete' can clear the information of preset position.
6. Special function preset position; this kind of preset position can be called, but it cannot be modified or deleted.

- **Operation methods for pattern scanning**

1. Enter the pattern scan screen, it will show the current pattern scan path. See 2.2.2-5
2. Start recording the scanning; click start to record the pattern scan, and the start using the camera directional controls to adjust the movement of the camera.
3. Stop recording scan; click save to save the scanning path.
4. Start and stop the pattern scan: click start to start the pattern scan, and click the stop key to stop the pattern scan. See 2.2.2-6.
5. Delete the pattern scan: click delete key to delete the pattern scan.



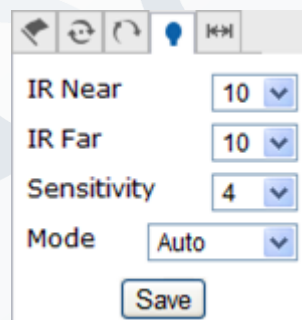
Picture 2.2.2.5 Sequence settings



Picture 2.2.2-6 Pattern settings

- **Operation methods for IR LED**

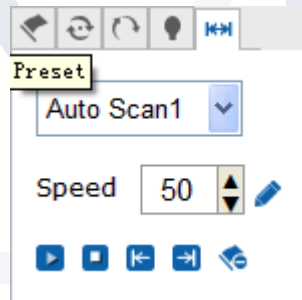
Enter the IR LED setting screen to set the power of the low beam lights between 1~10 amounts, the power of high beam lights, low beam lights compensation, enable illumination, and IR status setting. See 2.2.2-7



Picture 2.2.2-7 IR LED Setting Screen

- **Auto scanning setting**

Enter the auto scan screen to set scan speed, left boundary, right boundary, start scan, and to stop scan. Auto scanning include 8 scanning paths. See 2.2.2-7



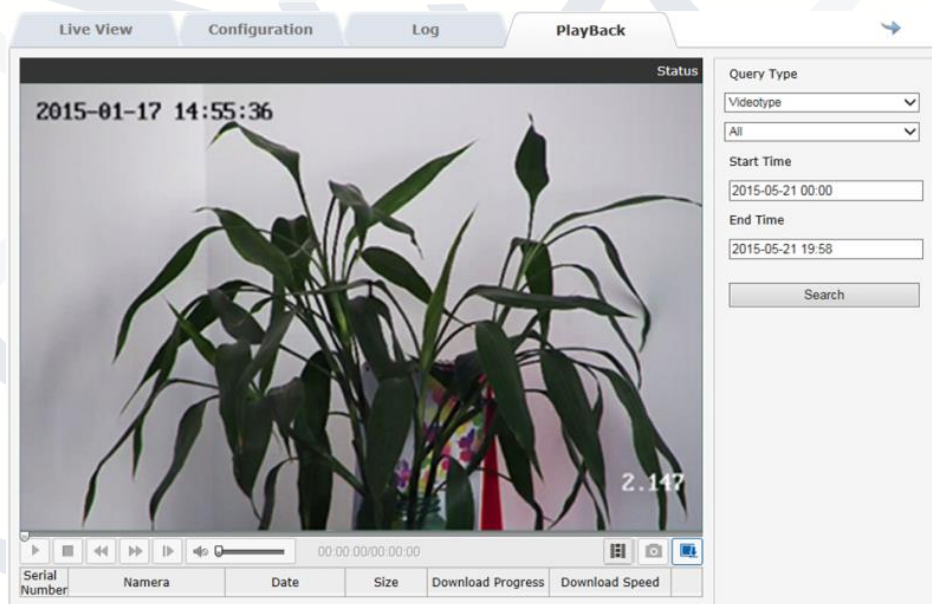
Picture 2.2.2-8 Auto scans settings

1. Scanning speed: from 1~100, the larger the gap between numbers, the more evident the effect will be.
2. To set left boundary and right boundary of the scan: first make the camera move to a specified direction and then click the left boundary icon. Move the camera to a right hand direction, stop camera movement and then click the right boundary. Finally click the start key and the camera will move in the range of the left and right limit. Click stop to stop the movement.
3. It will be the same setting methods explained in the previous point above to set other auto scanning paths.

### 2.2.3 Playback

Click 'Playback' to enter the video search playback screen. The Playback screen can inquire, playback and download effective video that has been saved on to the SD card of the camera.

Select the inquiry type, start & end time, then click the 'Search' key, and the eligible video files will be displayed in the right box. Select it and double-click to open, and then the video files will start to playback. See 2.2.3-1.



Picture 2.2.3-1 video playback

**Note: playback function can only be used under the circumstance when the camera has an SD card installed. If the camera has SD card, and it is using it for the first time you must click the ‘Storage’ key to initialise the SD card and set the video-recording plan.**

## 2.2.4 Log

Click ‘Log’ key to enter the log inquiry screen. Log screen can search, show and output the log information stored upon the SD card within the camera.

Select the type of the log, and set the start and end time of the log-search. Click the search key, and all the eligible log information will be displayed in the list. See 2.2.4-1. Click the ‘Save’ key, you can save the log information to your local computer.



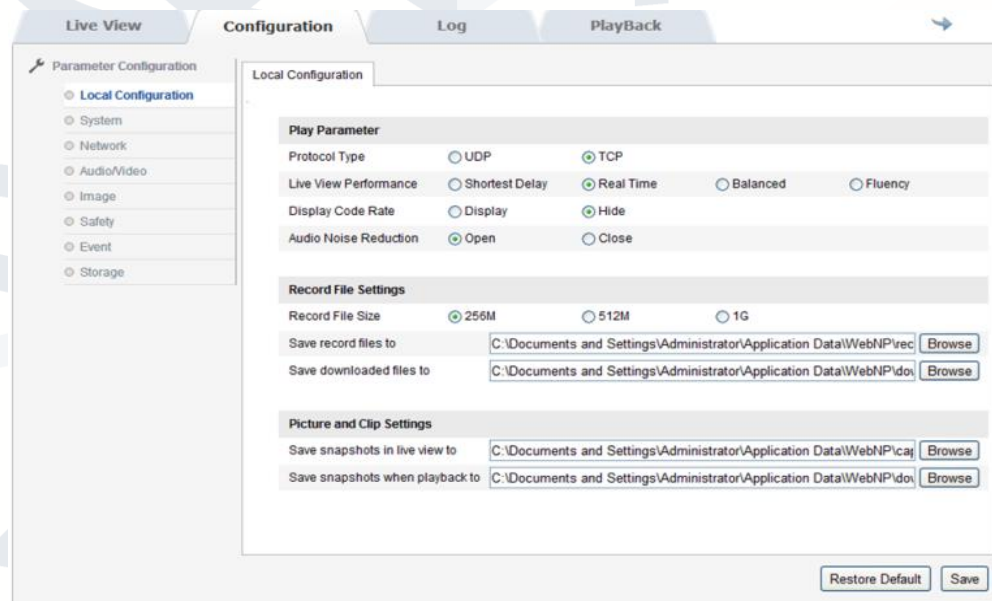
Picture 2.2.4-1 log record screen



## 2.2.5 Configuration

### 2.2.5.1 Parameter Configuration

Click 'Configuration', enter configuration interface. To set local configuration select 'Local Configuration' from the options list on the right side of the screen, as shown in picture 2.2.5-1, each item instruction as shown in picture 2.2.5-2



Picture 2.2.5-1

Parameter	Instruction
Protocol	TCP 、 UDP optional
Live video performance	Shortest-delay 、 real-time 、 balanced 、 fluency(optional)
Display Code Rate	Display、 hide （ optional ）
Audio noise reduction	Open、 close （ optional ）
Record file size	256M、 512M、 1G(optional)
Save record file to	According to the actual situation to set
Save downloaded file to	According to the actual situation to set
Save snapshots in live view to	According to the actual situation to set
Save snapshots when playback to	According to the actual situation to set

Picture 2.2.5-2 configuration information

### 2.2.5.2 System

- **System → device information**

In Device Information screen, users can set the Device Name, Model, Serial No., Firmware Version, Encoding Version, Number of Channels, Number of HDDs, and Number of Alarm input and output. See picture 2.2.5-3

Basic Information	
Device Name	ipnc
Model	
Serial No.	0027593D0089BEA0D1
Program Version	V1.0.2 Build 201504300916
Control Version	MiniPzt_V1.0.2_build201504171316
Web Page Version	1.1.1 Build 20150430
Plugin Version	1.0.2.38
Number of Channels	1
Disk Quantity	0
Number of Alarm Input	0
Number of Alarm Output	0
CPU	42%
Memory	111/132

Save

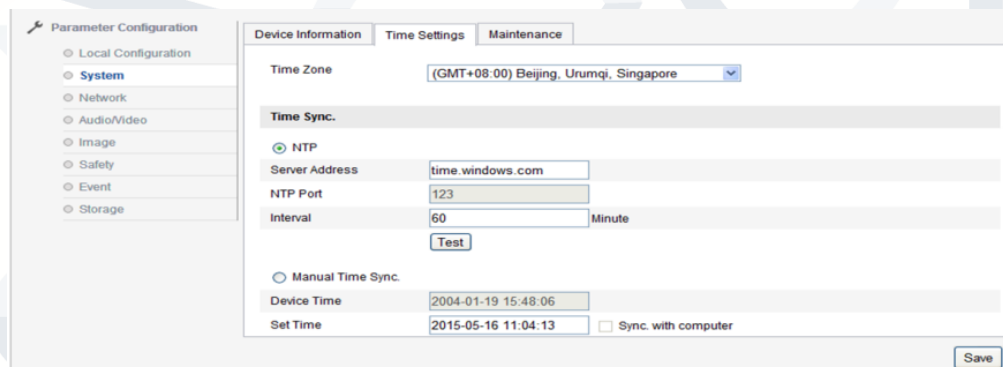
Picture 2.2.5-3 device information

- **System → Time settings**

In the Time Settings screen, time sync is operational. 'Time Zone' shows the current IP camera's time zone, and that can be set according to the actual situations. For 'Time Sync', set NTP server address, NTP port, and Interval minutes. The device will time sync according to the setup time. For 'Manual Time Sync', set time, and check 'Sync with computer time', then the time of the camera syncs with the local PC. After changing some parameters you need to click 'Save' to save the corresponding settings. See picture 2.2.5-4

**Note : You cannot change the NTP port number**





Picture 2.2.5-4 Time settings

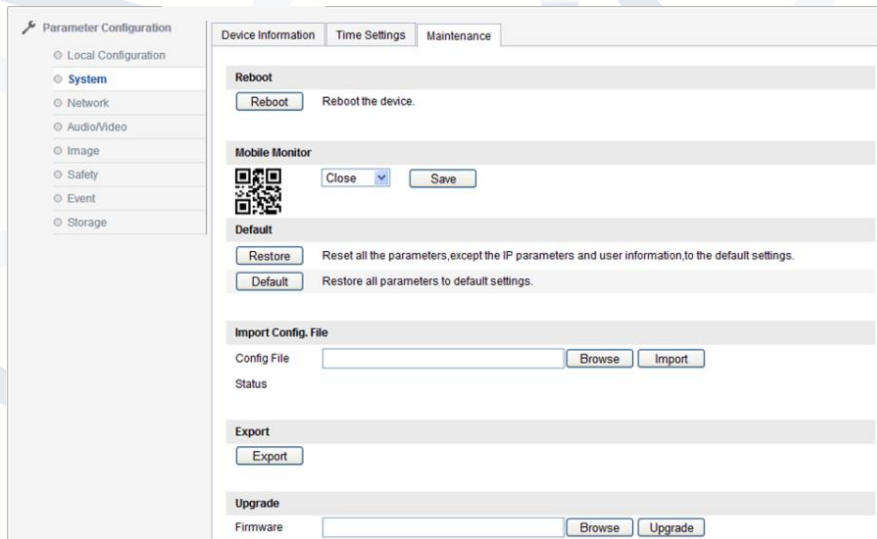
- **System→ Maintenance**

Enter system maintenance interface, See picture 2.2.6-5.

Click 'Reboot' to reboot the device. Click 'Restore' to restore device parameters. It will easily restore the other parameters except IP address, subnet mask, gateway, 8000 port number, DNSS address and user name management information. Click 'Default' and it will completely restore device parameters to default settings. Parameter import ('Import Config. File') will allow you to install a particular configuration file; parameter export will export current configuration file. (Click 'Export' then it will be exported to PC after 59 seconds, then it will automatically go to the Web login interface)

Click 'Browse', choose local upgrade file or upgrade catalogue, then click 'upgrade' to upgrade device version. 'Status' shows the current upgrade progress, after the upgrade is complete, you will be prompted that upgrade was successful.

**Note: The upgrading process will take around 1 to 10 minutes; please do not disconnect power to the device during the process. The device reboots automatically after the device has been upgraded.**

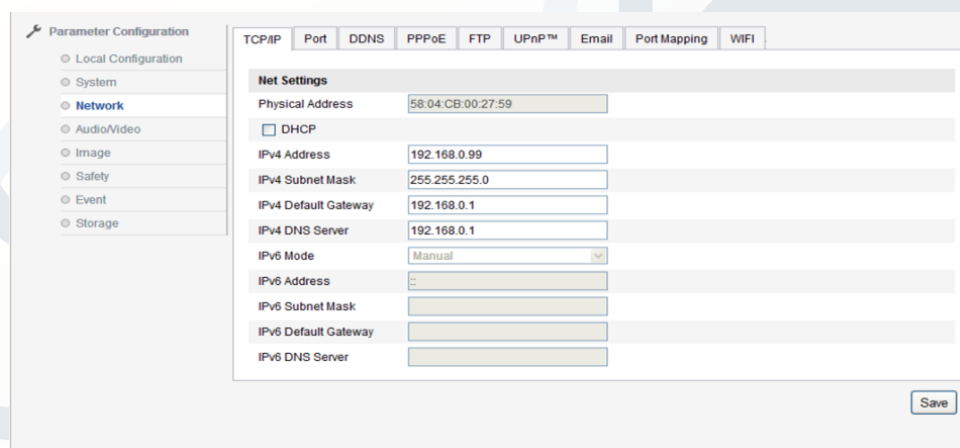


Picture 2.2.5-5 System maintenance interface

### 2.2.5.3 Network

- **Network → TCP/IP**

In the 'TCP/IP' screen, users can set 'IPv4 Address', 'IPv4 Subnet Mask', 'IPv4 Default Gateway', 'IPv4 DNS Server', and 'IPv4 mode'. When ticking 'Auto', the device will obtain the IP address automatically. After changing some parameters you need to click 'Save' to save the corresponding settings. See picture 2.2.5-6



Picture 2.2.5-6 TCP/IP interface

- **System → Port**

‘Port’ screen includes: ‘HTTP Port’ (the default is 80), ‘RTSP Port’ (the default is 554), and ‘HTTPS Port’ (the default is 443). Through network access to the device, users can set the corresponding port. After modifying the parameters, click ‘Save’ to save the settings. See Picture 2.2.6-7

**Note:** Reboot the IP camera after modifying the parameters.

The screenshot shows the 'Parameter Configuration' window with the 'Port' tab selected. The left sidebar lists various configuration categories, with 'Network' highlighted. The main area contains three input fields: 'HTTP Port' with the value 80, 'RTSP Port' with the value 554, and 'HTTPS Port' with the value 443. A 'Save' button is located at the bottom right of the configuration area.

Picture 2.2.5-7 port configuration screen

- **Network → DDNS**

Enter DDNS settings screen, the tick box allows you to enable DDNS function. DDNS Types include ‘Oray’ or ‘Noip’. See picture 2.2.6-8 When set to either DDNS types you will need to fill in Server address. The server address is DNS server’s address software operator. The ‘Domain’ is the name set by the user. The port can be set according to the configuration. User name and password are will need to be created and confirmed. After modifying related parameters, click ‘Save’ to save settings.

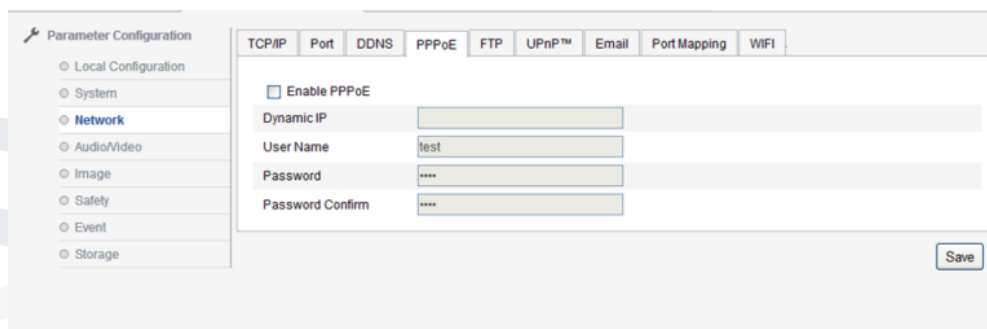
The screenshot shows the 'Parameter Configuration' window with the 'DDNS' tab selected. The left sidebar is the same as in the previous image. The main area features a checkbox for 'Enable DDNS' which is currently unchecked. Below this, there is a dropdown menu for 'DDNS Type' set to 'oray'. Several text input fields follow: 'Server Address' (www.3322.org), 'Domain' (test), 'Port' (80), 'User Name' (test), 'Password' (masked with four asterisks), and 'Password Confirm' (masked with four asterisks). A 'Save' button is at the bottom right.

Picture 2.2.5-8 DDNS configuration screen

- **Network → PPPoE**

Tick 'Enable PPPoE', this enables the PPPoE function. Input the PPPoE user name and PPPoE password, click 'Save' and restart camera. Camera will now gain a public IP address.

After modifying the related parameters, need to click 'Save' to save settings. See picture 2.2.6-9



Picture 2.2.5-9 PPPoE configuration

**Note :** When PPPoE configuration is enabled the default gateway becomes invalid ,when the parameters in network settings are modified, you will need to reboot device.

- **Network → FTP**

By setting up the FTP parameter, the user will then be able to upload snapshot files to an FTP server. See picture 2.2.5-10

'Server address' and 'Port' number need to correspond to the ones on FTP server. 'Directory structure' is where you can set the save path of file. Options include; 'Save in the root directory', 'Save in the parent directory', 'Save in the child directory'. When choosing parent director you can include 'Use device name', 'Use device number' 'Use device IP address'. Child directory includes 'Use camera name', 'Use camera number'.

After modifying related parameters, need to click 'Save' to save settings.

Parameter Configuration

- Local Configuration
- System
- Network**
- Audio/Video
- Image
- Safety
- Event
- Storage

TCP/IP Port DDNS PPPoE FTP **UPnP™** Email Port Mapping WIFI

Server Address: 192.168.2.200

Port: 21

User Name: sy ☐ Anonymous

Password: \*\*

Password Confirm: \*\*

Directory Structure: Save in the root directory

Parent Directory: Use Device Name

Child Directory: Use Camera Name

Save

Picture 2.2.5-10 FTP setting

- **Network → UPnP**

Tick 'Enable UPnP' and this function will make the device to be automatically located within the LAN. For a camera located within an internal network the UpnP function will make a gateway or instruct the router to perform auto port mapping. The camera maps the monitored network port via the gateway or router to an internal network device. The gateway or router network firewall module will begin to open this port to other computers on the Internet. Users don't need to do port mapping/forwarding within the router's settings. The precondition is that the router supports UPnP, and then opens this function. See picture 2.2.5-11

Parameter Configuration

- Local Configuration
- System
- Network**
- Audio/Video
- Image
- Safety
- Event
- Storage

TCP/IP Port DDNS PPPoE FTP **UPnP™** Email Port Mapping WIFI

☐ Enable UPnP

Friendly Name: IPNC-0027593D0089BEA0D1

Save

Picture 2.2.5-11 UPnP configuration

- **Network → Email**

Enter email settings, you will to fill in the following details; Sender, sender address, SMTP server, SMTP port, Tick start SSL or authentication, user name, password & password confirm, receiver, and receiver address, see picture 2.2.5-12. Email detail settings are shown in Picture 2.2.5-12.

The screenshot shows the 'Email' configuration tab in a 'Parameter Configuration' window. On the left is a sidebar with categories: Local Configuration, System, Network (selected), Audio/Video, Image, Safety, Event, and Storage. The main area has tabs for TCP/IP, Port, DDNS, PPPoE, FTP, UPnP™, Email (selected), Port Mapping, and WIFI. The 'Email' section is divided into 'Sender' and 'Receiver' groups. The 'Sender' group includes fields for Sender (test), Sender Address (test@qq.com), SMTP Server (smtp.qq.com), SMTP Port (25), a checkbox for Start SSL (unchecked), a checkbox for Authentication (checked), User Name (test), Password (masked), and Password Confirm (masked). The 'Receiver' group includes fields for Receiver 0 Name (test), Receiver 0 Address (test@qq.com), and empty fields for Receiver 1 Name, Receiver 1 Address, Receiver 2 Name, Receiver 2 Address, Receiver 3 Name, and Receiver 3 Address.

Picture 2.2.5-12 Email

Parameter	Instruction
Stream Type	Main stream/Sub stream
Video Type	Video stream
Resolution	1920*1080
Bitrate Type	Variable/Constant
Image quality	Lowest/low/lower/medium/highest/higher
Frame Rate	According to user's needs
Max Bitrate	Depending on resolution
Video Encoding	According to user's needs
I Frame Interval	Frame between former and back(1-100)

Sheet 2.2.5-13 Video configuration instruction



- **Network → Port Mapping**

Tick 'Enable Port Mapping' to automatically open port, see picture 2.2.5-14

The screenshot shows the 'Parameter Configuration' window with the 'Port Mapping' tab selected. The 'Enable Port Mapping' checkbox is checked. The 'Port mapping mode' is set to 'Auto'. The 'Port Type' is set to 'External Port'. The following ports are configured:

Port Type	Port
HTTP	80
RTSP	554
HTTPS	443

A 'Save' button is located at the bottom right of the configuration window.

Sheet 2.2.5-14 audio settings

- **Network → WIFI**

To enable **WIFI** connection you need to input WIFI connection parameters in to the relevant input fields. Click 'Save' to save setup. See picture 2.2.5-15

The screenshot shows the 'Parameter Configuration' window with the 'WIFI' tab selected. The 'Wireless network list' table shows three networks with SSID 'test' and Signal Strength 0. The 'Wi-Fi' section is configured as follows:

- SSID: test
- Network mode: ☒ Manage ☐ Ad-Hoc
- Safe Mode: WEP
- Encryption type: TKIP
- Key1: 123456

The 'NIC configuration parameters' section is also visible, showing DHCP settings and IP configuration. A 'Save' button is located at the bottom right of the configuration window.

Picture 2.2.5-15 WIFI settings



## 2.2.5.4 Audio/Video

- **Audio/Video → Video**

Enter 'Video' setting screen, these options will allow the user to set camera stream type, resolution, bitrate type, etc. See picture 2.2.6-16, video settings detailed information, see picture 2.2.5-17.

The screenshot shows a 'Parameter Configuration' window with a sidebar on the left containing menu items: Local Configuration, System, Network, Audio/Video (selected), Image, Safety, Event, and Storage. The main area has three tabs: Video, Audio, and ROI. The Video tab is selected, displaying the following settings:

Parameter	Value
Stream Type	Main Stream(Normal)
Video Type	Video Stream
Resolution	1920*1080
Bitrate Type	Variable
Video Quality	Medium
Frame Rate	25
Max. Bitrate	4096 Kbps
Video Encoding	H.264
I Frame Interval	50

A 'Save' button is located at the bottom right of the configuration area.

Picture 2.2.5-16 Video settings

Parameter	Instruction
Stream type	Main stream/Sub stream
Video type	Video stream
Resolution	1920*1080
Bitrate type	Variable/Constant
Image quality	Lowest/low/lower/medium/highest/higher
Frame rate	According to real condition
Max rate	According to resolution to choose
Video Encoding	According to real need
I Frame Interval	Frame between former and back(1-100)

Picture 2.2.5-17 Video settings instructions

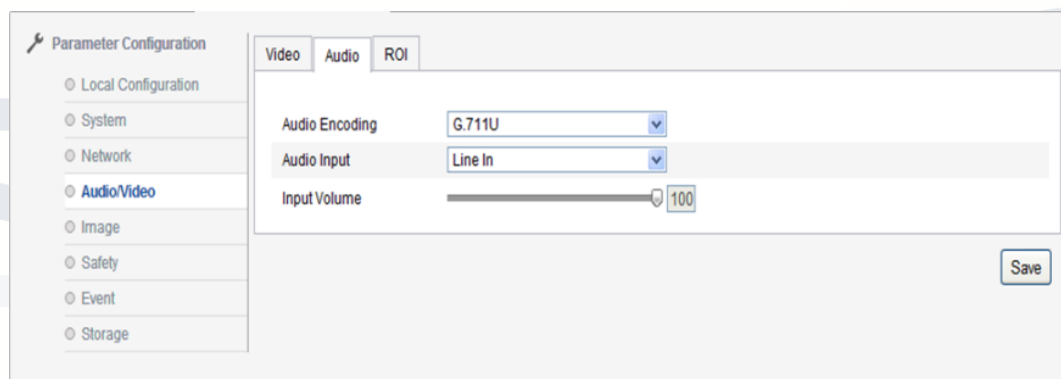
- **Audio/Video → Audio**

In the audio configuration, the 'Audio Encoding' options only contain 'G.711U' version. 'Audio Input' options include: Line in and Mic in. If using an active pickup then select the 'Line in' option, if for passive microphone, choose 'Mic in'. 'Input volume' is the input source gain control value, the default value is 50. The user can adjust the level in between 1-100 according to the actual volume requirements.

After modifying the related parameter you need to click 'Save' to save settings.

See picture 2.2.5-18 for the Audio configuration interface, audio configuration parameters shown in picture 2.2.5-19

**Note: after modifying audio encoding, please reboot the device.**



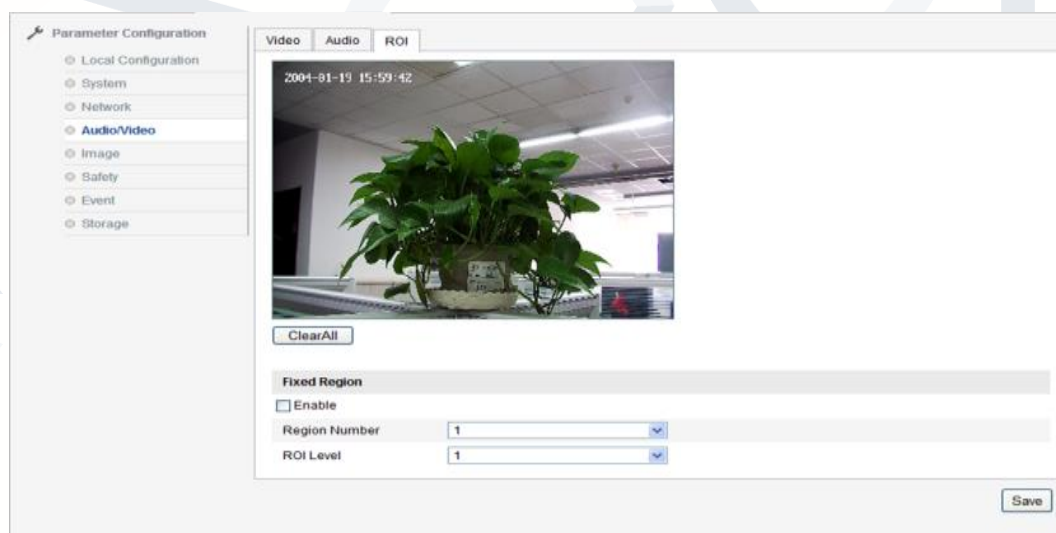
Picture 2.2.6-18 Audio setting

Parameter	Instruction
Audio encoding	G.711 ulaw
Audio input	Mic in、Line in(optional)
Input volume	0~100(optional)

Picture 2.2.6-19 audio parameter instruction

- **Audio/Video → ROI**

The video stream concentration makes the video camera's video preview image clearer. Use the sliders to adjust the 'Region Number' and 'ROI Level'.

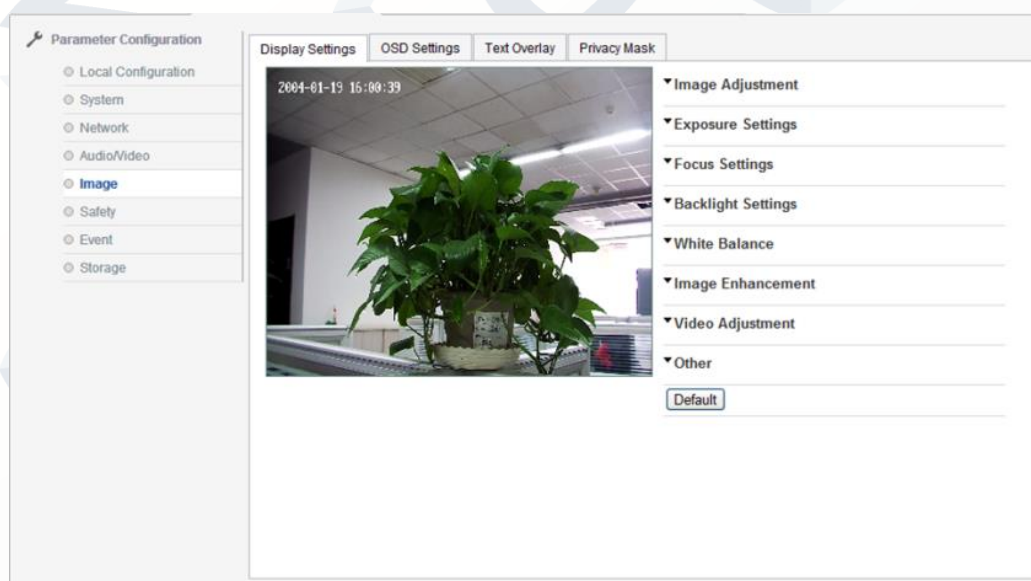


Picture 2.2.5-20 ROI

### 2.2.5.5 Image

- **Image → Display Settings**

Enter the image configuration interface, see picture 2.2.5-21, image configuration illustration see sheet 2.2.5-22



Picture 2.2.5-21 Display settings

Parameter	Instruction
Brightness	0-100
Contrast	0-100
Saturation	0-100
Sharpness	0-100
HUE	0-100
Exposure mode	Auto/Manual
Exposure bias	On/off
Compensation level	0-100
Gain limit	0-100
WDR	On/off
White balance	Auto/Manual
Digital noise reduction	On/off
2D noise reduction	0-100
3D noise reduction	0-100
Mirror	Off/left-right/up-down/center
Video standard	50Hz and 60Hz

Sheet 2.2.5-22 Image parameters

**‘Sharpness ‘:** the higher the value, the clearer the image edge will be. Although if you raise the sharpness value, it may make the picture look distorted.

**‘Focus mode:’** in ‘auto’ mode, the device automatically focuses according to changes in the monitored scene in front of the camera. ‘Semi-automatic’ mode focuses once after the user controls the PTZ movement and zoom functions, but if the scene changes it will not automatically focus again. ‘Manual’: only the user can adjust the camera’s focus.

**‘Min. Focus distance’:** the distance from lens to scene is nearer than the one within the settings, the camera will not focus clearly.

**‘Exposure mode’:** settings available to adjust are as follows: auto/manual, Iris, and shutter. Only exposure bias open, the compensation level can be adjusted as well.

**‘Video standard’:** 50Hz, 60Hz (optional). This section represents the refresh and frame rate of the video stream from the camera, which you are given the opportunity to modify. After modifying, device needs to reboot. When the user chooses 50Hz, the real-time frame rate is 25frame/sec. When 60Hz is set, real-time frame rate is 30frame/sec.

**‘Mirror’**: direction of symmetry includes ‘left/right’, ‘up/down’, center. The video adjustment option is used to switch symmetry direction of image.

**‘WDR’**: On/Off

**‘White balance’**: Auto/MWB

**‘Digital noise reduction’**: This is used to adjust the level of noise point within the image. It will also simultaneously reduce the detail of image.

**‘Default’**: when you click default, all the parameters in this display setting box will resort back to factory default values.

- **Image → OSD setting**

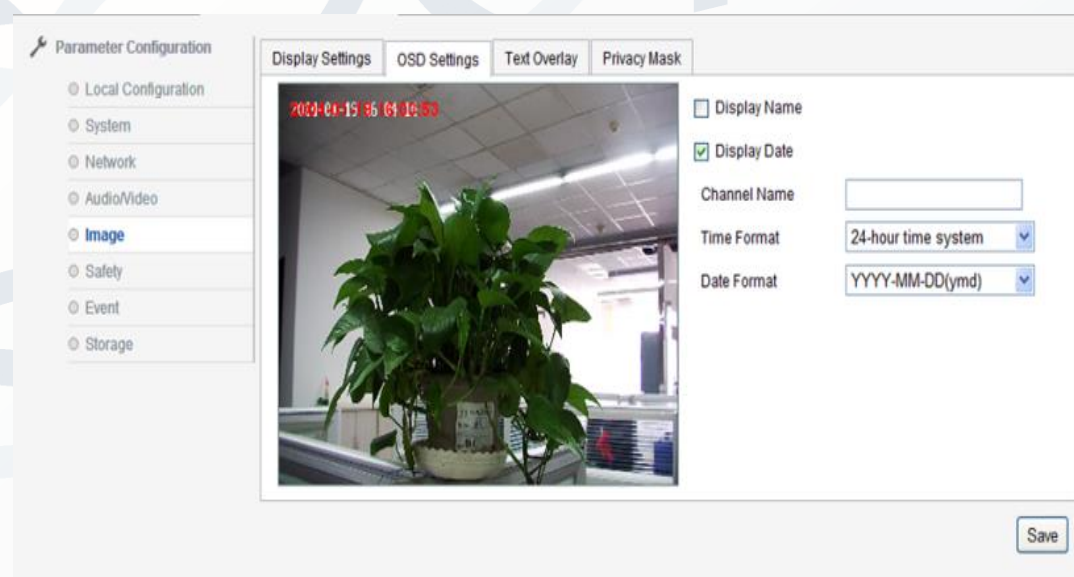
User can set the channel name, display name, and date according to their needs. Time format: 24-hour time system/12-hour time system.

**Date Format:**

‘XX-XX-XXXX( month-day-year )’; ‘XXXX-XX-XX( year-month-day )’;

‘XX-XX-XXXX(day-month-year)’;

After modifying parameters, click ‘Save’ to save settings. See picture 2.2.5-23



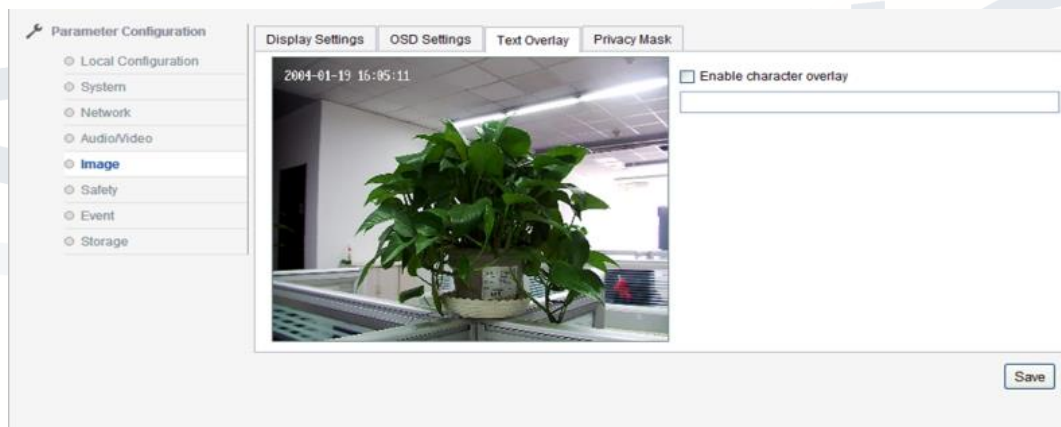
Picture 2.2.5-23 OSD Settings



- **Image → Text Overlay**

Camera supports text overlay within the image. Supports a maximum of 40 characters, see picture 2.2.5-24.

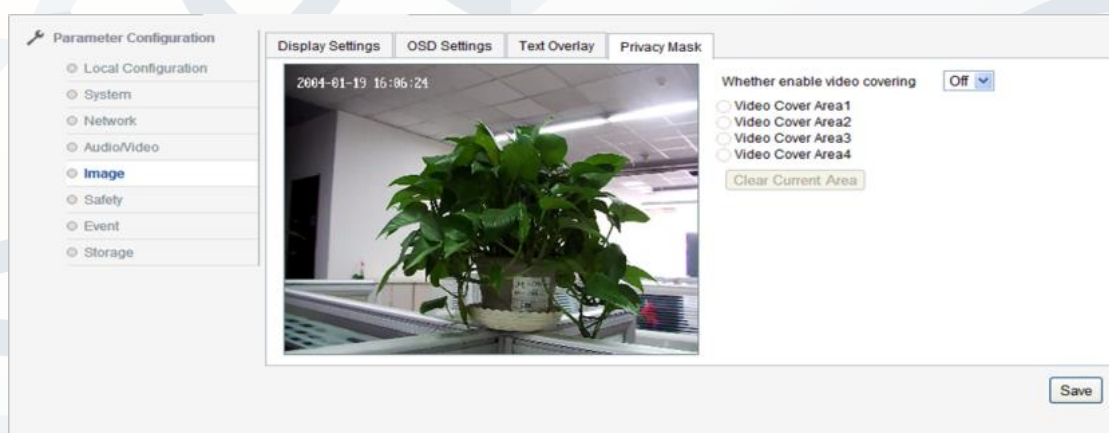
Input the text overlay characters into box, and then tick corresponding character number. The user can preview the input character. Using the mouse, drag the mouse cursor across preview window to choose display location which will show the text overlay, click 'Save', to confirm characters will show within the image.



Picture 2.2.5-24 Text Overlay

- **Image → Privacy mask**

User can enable and set up to 4 privacy mask areas depending on their needs. See picture 2.2.5-25



Picture 2.2.5-25 Privacy Mask

### 2.2.5.6 Safety

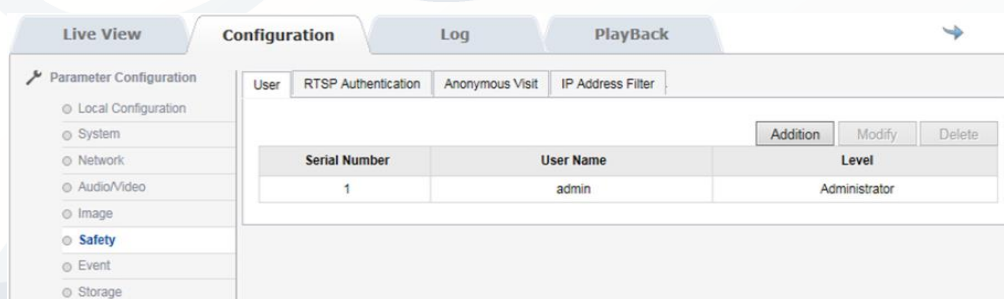
- **Safety → User**

Enter the Safety configuration menu; the user can set user information, select administrator 'admin', and also create other user accounts according to how many users will have access to the camera. A maximum of 8 users can be created. See picture 2.2.5-26

**User addition:** click 'Addition'; camera will display addition box where you will need to input user name, password, and 'user level' administrator/user/observer. Then click ok to create user. See picture 2.2.5-27

**User modify:** Choose the user name you wish to modify, click 'modify' to enter interface. In this box the user needs to modify 'user name' and 'password', see picture 2.2.5-28

**Delete user:** choose the user name you wish to delete, a dialog box will appear, click confirm to delete the user.



2.2.5.26 User Settings

The 'Add user' dialog box is shown. It has a title bar 'Add user'. Inside, there are four input fields: 'User Name' (a text box), 'Level' (a dropdown menu with 'Administrator' selected), 'Password' (a text box), and 'Password Confirm' (a text box). At the bottom right, there are two buttons: 'OK' and 'Cancel'.

Picture 2.2.5-27 Addition



**Modify user**

User Name: admin

Level: Administrator

Password:

Password Confirm:

OK Cancel

Picture 2.2.5-28 Modify user

- **Security → RTSP Authentication**

The authentication can be set as either 'disable' or 'basic' from the drop down list options.

**'Disable'**: closes RTSP authentication.

**'Basic'**: enables RTSP authentication.

After modifying the parameters, click 'Save' to save the settings. See Picture 2.2.5.29

**Parameter Configuration**

- Local Configuration
- System
- Network
- AudioVideo
- Image
- Safety**
- Event
- Storage

User RTSP Authentication Anonymous Visit IP Address Filter

RTSP Authentication: Disable

Save

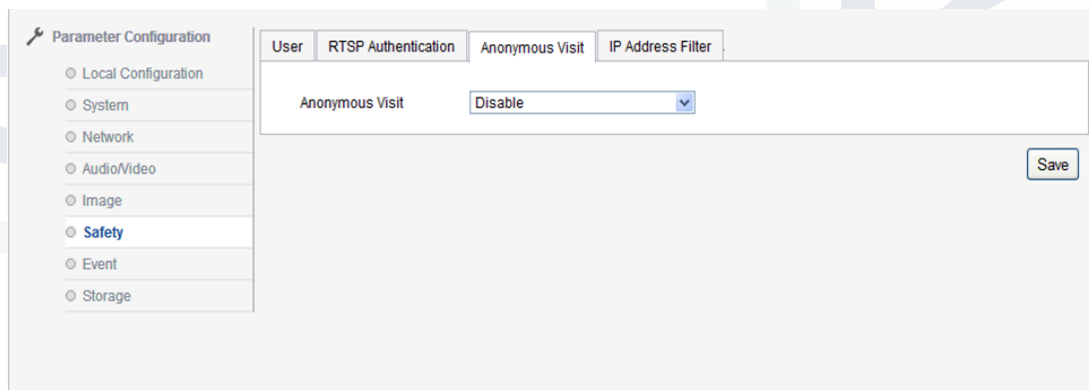
Picture 2.2.5-29 RTSP Setting screen

- **Security → Anonymous Visit**

You will be able to choose either 'enable' and 'disable' from the drop down list, choosing enable will allow a user to login to the anonymous

camera web interface. When the user logs in as anonymous they will only have access to the live preview video footage from the camera. The will not have access to the playback, log, and configuration interface. See picture 2.2.5-30.

When you enable anonymous visit, the next time a user logs into the camera via their web browser the login section will have anonymous option to tick. Tick 'anonymous', then click the [login] button, user will then be able to login directly.

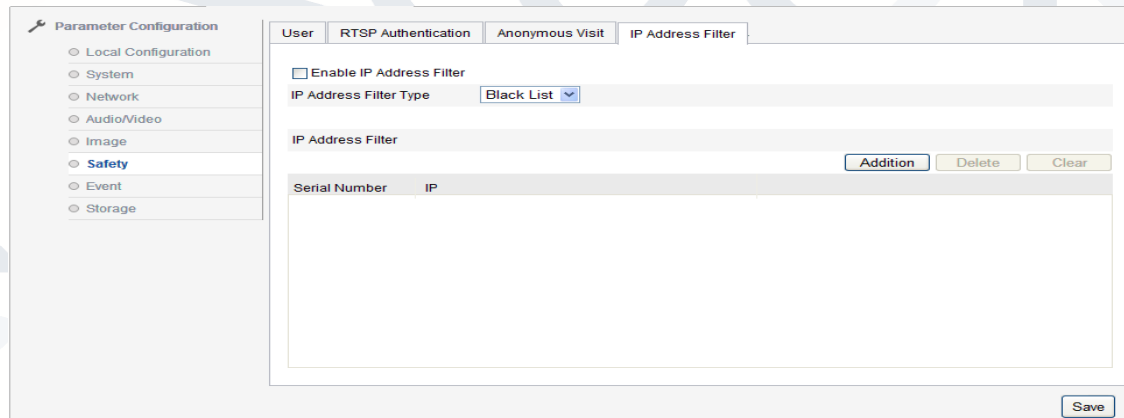


Picture 2.2.5-30 Anonymous visit

- **Security → IP address filter**

Tick the 'Enable IP Address Filter' box to start this function. This option will then allow the user (under administrator login) to add 'Friendly' IP addresses to the list so they can be allowed to access to the camera. The user can also provide IP addresses to be blacklisted, i.e. to be denied/forbidden login access to the camera.

To add an IP address to the list, firstly select what list the IP address is to be added to from the 'IP Address Filter Type' drop down options. Click 'Addition' to add new IP address, after the addition is complete, the user can click either [modify], [delete] and [clear] to manage IP address. See picture 2.2.5-31



Picture 2.2.5-31 IP address Filter

- **Event → Motion detection**

**Area setting:** hold down left mouse key and drag it across the live preview footage window, then release mouse left key, this will finish drawing the area. When user finishes drawing the area, arming schedule and linkage methods can be set.

Click 'Clear all' to clear drawing area.

Tick the 'enable motion detection' box will start the IP camera motion detection function. See picture 2.2.5-32. Sensitivity: 0-100 settable.



Picture 2.2.5-32 Motion Detection

'Arming schedule' will show the current motion detection arming time.

Click [edit] to edit the arming schedule for the whole week or for selected days within the week.

User can also set start time and end times for four specific periods per day, see picture 2.2.5-33.

The screenshot shows a web interface for configuring an arming schedule. At the top, there is a section titled "Arming Schedule" with an "Edit" button. Below this is a 24-hour grid for the days of the week (Mon to Sun). The grid shows that all days are armed from 0 to 24 hours. Below the grid is a section titled "Linkage Method" which is divided into two columns: "Normal Linkage" and "Other Linkage".

Normal Linkage	Other Linkage
<input checked="" type="checkbox"/> Audible Warning	
<input checked="" type="checkbox"/> Notify Surveillance Center	
<input type="checkbox"/> Trigger Channel	
<input type="checkbox"/> Capture	
<input type="checkbox"/> Capture Upload FTP	
<input type="checkbox"/> Capture Upload Mail	
<input type="checkbox"/> Capture storage SD card	
	Trigger Alarm Output <input checked="" type="checkbox"/> Select All

Picture 2.2.5-33 Arming Schedule/Linkage Method

After finishing setting up parameters, click the [confirm] key to save the settings.

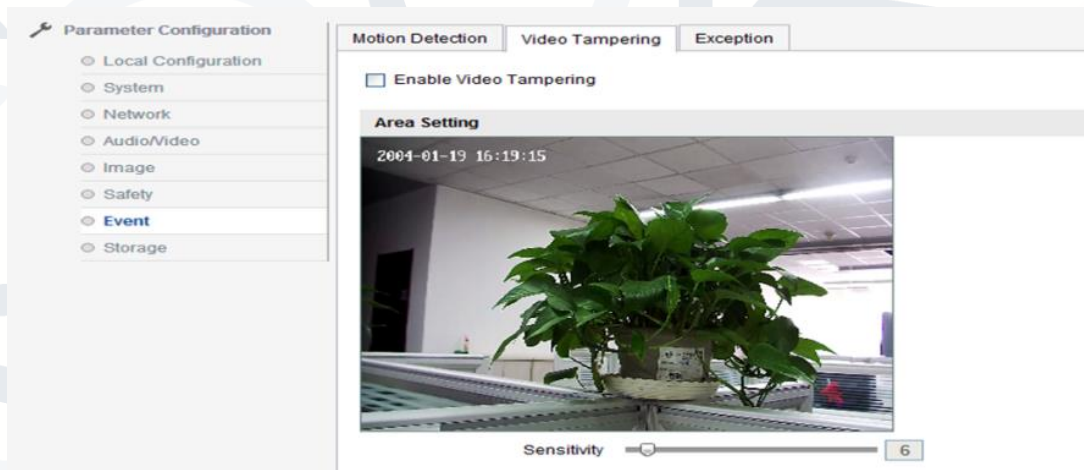
- **Event → Video Tampering**

When the the 'Enable Video Tampering' box is ticked the IP camera video tampering function will be enabled. This means the camera will log an alarm trigger if the camera lens is covered either mistakenly or maliciously, See picture 2.2.5-34.

Area setting default is set to whole screen.

Slider sensitivity scale ('Sensitivity'): 0-100

After related parameter has been revised, click [save] to save related settings.



Picture 2.2.5-34 Video Tampering

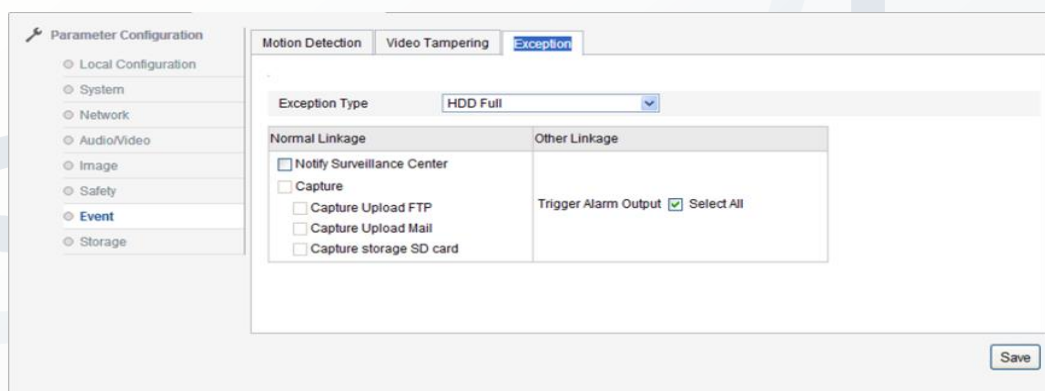
- **Event → Exception**

'Exception Type' includes 'HDD FULL', 'HDD Error', 'Network Disconnected', and 'IP address conflict'. See Picture 2.2.5.35

'Normal Linkage' includes 'Notify surveillance Center' and 'Capture'

'Other Linkage' includes corresponding alarm output channel.

After modifying related parameters, click [save] to save settings.



Picture 2.2.5-35 Exception



- **Storage → Record Schedule**

Tick the 'Enable Record Schedule', then click 'Editor' button to edit the record schedule. Appoint record period(s) and the choose record type. See picture 2.2.5-36. For edit schedule, see picture 2.2.5-37.

Record time includes 'All day' and 'Section'. If user chooses 'Section' the user is able to choose a specific time period. Supports up to 4 record period settings.

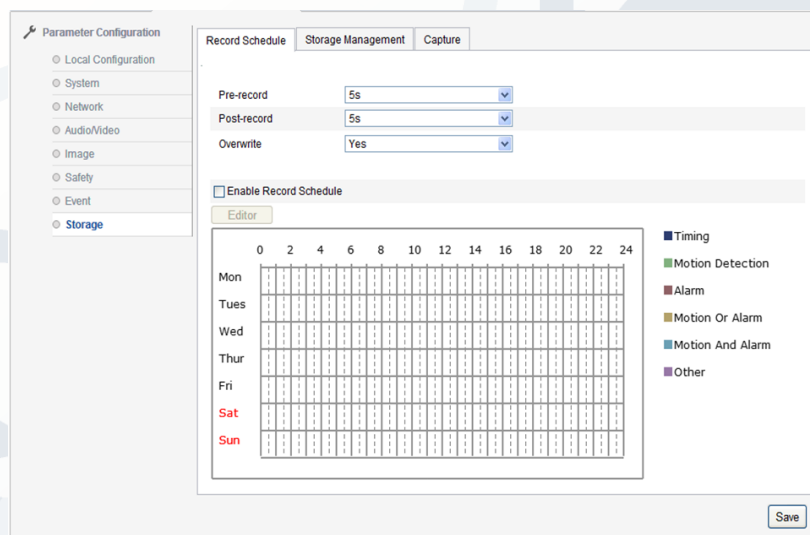
Record types include: 'Timing', 'Motion Detection', 'Alarm', 'Motion Or Alarm', 'Motion and Alarm', 'Other'.

Pre-record is the advanced pre-record time before starting of record, 0-3sec (optional).

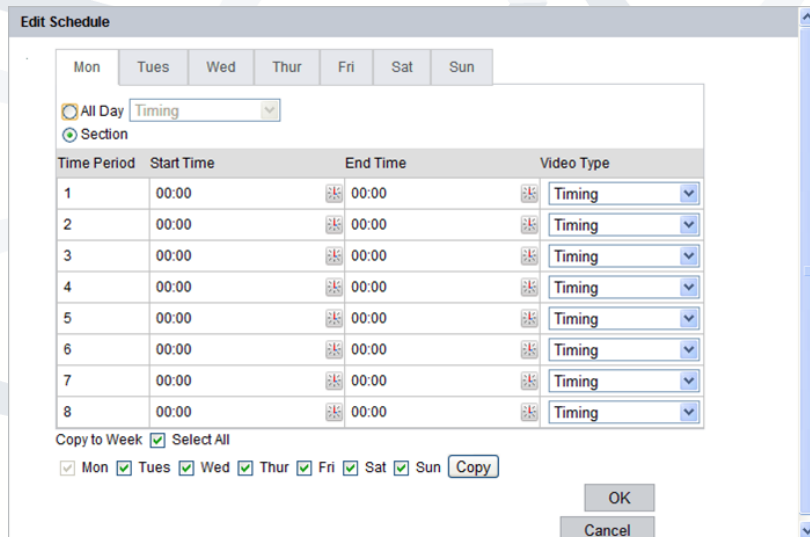
Post-record is the delayed continued time of recording, 5sec-10min (optional).

After modifying related parameters, click 'Confirm' to save settings.

**Note: Overwrite is measured according to 2Mbps, the bigger stream you choose, the shorter the pre-record time is.**



Picture 2.2.5-36 Record schedule

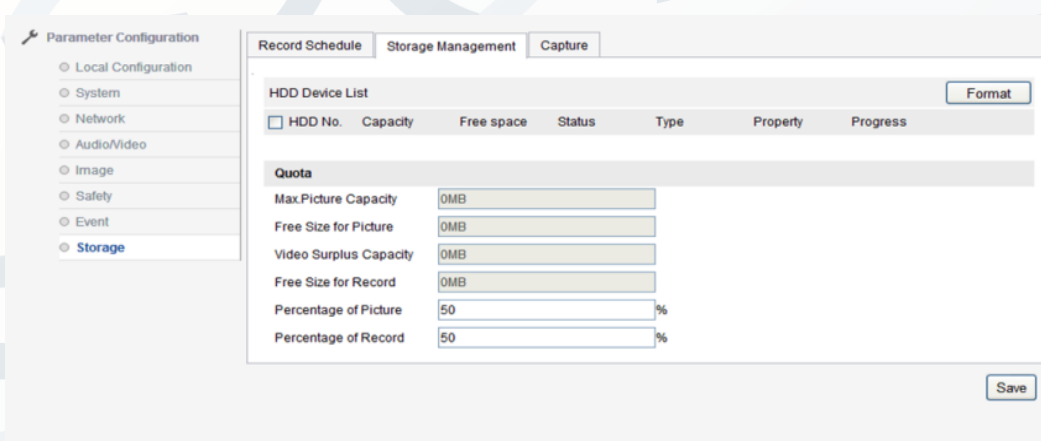


Picture 2.2.5-37 Edit Schedule

- **Storage → Storage Management**

Storage management menu is used to view the status and the capacity of the storage medium. You can also carry out format operations on the storage medium. Select the inserted TF card, click 'Format' to format the TF card. See picture 2.2.3-38.

'HDD No.' shows the serial number of the storage medium. 'Capacity': shows the total capacity of a storage medium. 'Free space', shows remaining space of a storage medium. 'Status' shows the current status of the storage medium. 'Format' formats operation of the storage medium.



Picture 2.2.5-38 Storage management

- **Storage → Capture**

Setup snapshot capture to coincide with the record schedule's parameters. See picture 2.2.5-39.

'Format' provides the option to capture snapshot in the JPEG image format.

'Resolution' is current main stream's resolution.

'Quality' gives user to choose either High/Middle/Low image quality settings.

'Interval' will allow the user to set interval time length. Units available to choose from: 'millisecond', 'second', 'minute', 'hour', 'day'. Interval can range from 1 to 604800 milliseconds.

After modifying the related parameters, click [save] to save settings.

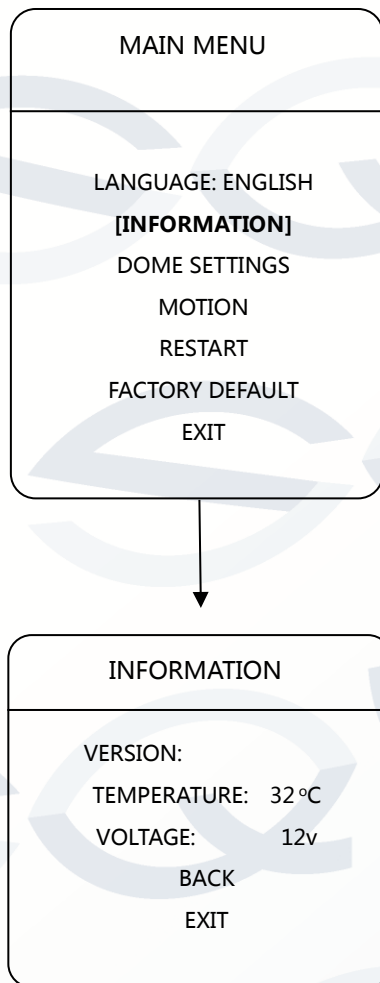
The screenshot shows a software interface for 'Parameter Configuration'. On the left is a sidebar with a tree view containing: Local Configuration, System, Network, AudioVideo, Image, Safety, Event, and Storage (which is selected). The main area has three tabs: 'Record Schedule', 'Storage Management', and 'Capture' (which is active). Under the 'Capture' tab, there are two sections. The 'Timing' section includes a checkbox for 'Enable Timing Snapshot' (unchecked), and three dropdown menus: 'Format' set to 'JPEG', 'Resolution' set to '1920\*1080', and 'Quality' set to 'High'. Below these is an 'Interval' field with the value '3' and a unit dropdown set to 'Second'. The 'Capture Linkage' section has three checkboxes: 'Upload to FTP' (unchecked), 'Upload to E-mail' (unchecked), and 'Capture Storage SD Card' (unchecked). A 'Save' button is located at the bottom right of the window.

Picture 2.2.5–39 Capture

## 3 OSD MENU FUNCTION

The OSD (On Screen Display) menu of the camera can be viewed either within the live footage preview screen on the Web connection interface or via a display monitor connected to an NVR that has a connection to the camera. You can navigate through the OSD menu via controls found within the camera. This chapter will show you the available OSD options and how to use it to configure the camera.

### 3.1 INFORMATION

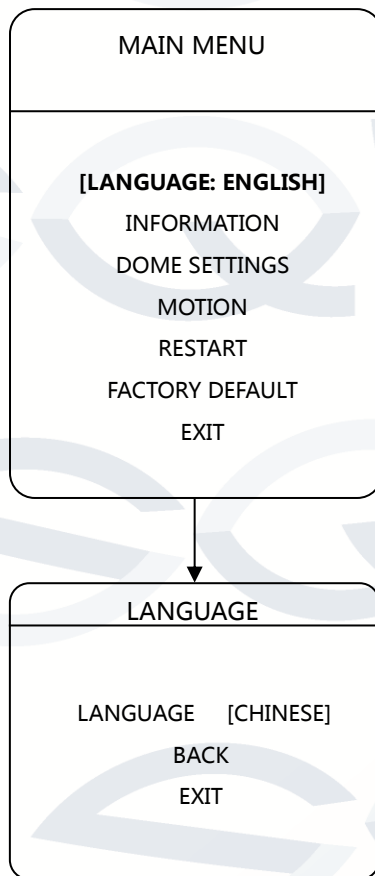


The user can review the camera's system information for reference. The information provided can include: Dome ID, dome address, baud rate, protocol, temperature, voltage, alarm information, dome title, version, date, time, and temperature scale.

Use the following steps to display the System Information screens:

1. Move the cursor to "INFORMATION".
2. Click IRIS + to enter, the INFORMATION screen opens.
3. Click up or down to select the item.
4. Click IRIS + to confirm the setup of each item.

## 3.2 LANGUAGE



The user can choose and set OSD menu language. The device supports either Chinese/English.

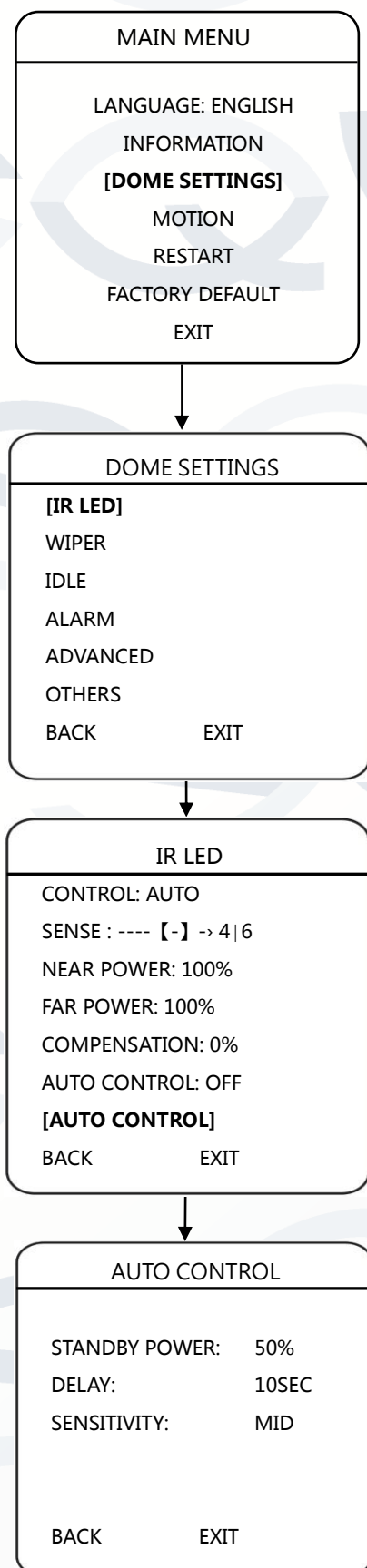
Location and configuration method:

Click IRIS + to enter and click up or down button to select.

All on-screen menus will be changed to the selected language.



### 3.3 IR LED



User can configure the IR LED working mode via the 'IR LED' options within the 'DOME SETTINGS' menu. The configuration options are as follows:

#### 1. CONTROL MODE:

AUTO	IR LEDs turn on or off automatically according to light conditions
TIMING	LED is adjusted according to Open and Close Times.
OPEN	IR LED kept constantly open
CLOSE	IR LED kept constantly closed
CAMERA	IR LED status (Open/Close) will be synchronised with Camera's day and night switch set up.

#### 2. SENSITIVITY:

Here the user can manually set the sensitivity from 1-5. The smaller the number is the lower the light level of the environment will be when the IR LEDs are turned on.

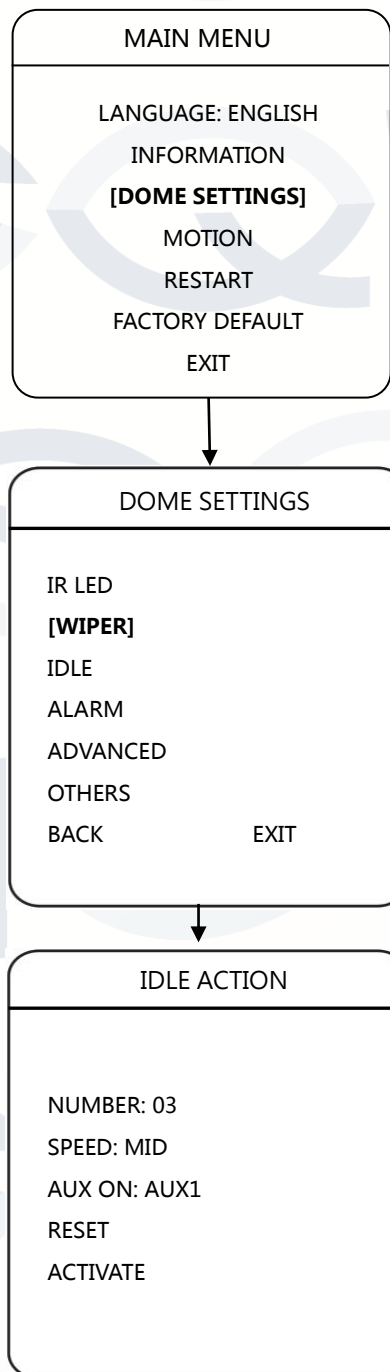
#### 3. NEAR/FAR POWER COMPENSATION:

When near power opens or far power opens according to the power setting, you can set the near/far power compensation to either: 10%, 20%, 30%, 40%, 50%,

#### 4. AUTO CONTROL:

When the IR LEDs are on, they will turn its power consumption to the standby status, which will effectively extend the service life of IR LEDs. And under this mode, when objects appear in the screen, the IR LED will turn its power consumption back to the normal status.

### 3.4 WIPER



The user can make adjustments to the lens wiper under this menu (suitable for wiper-equipped dome)

#### 1. Number:

Move the cursor to “NUMBER” and click IRIS + to enter the wiper setup preset number. Click the up or down button to select number (1-10), and then click IRIS + to confirm.

#### 2. Speed:

Move the cursor to “SPEED” and then click IRIS + to enter the Wiper speed setup. Click the up or down button to select “HIGH”, “MID” or “LOW”, then click IRIS + to confirm.

#### 3. Reset:

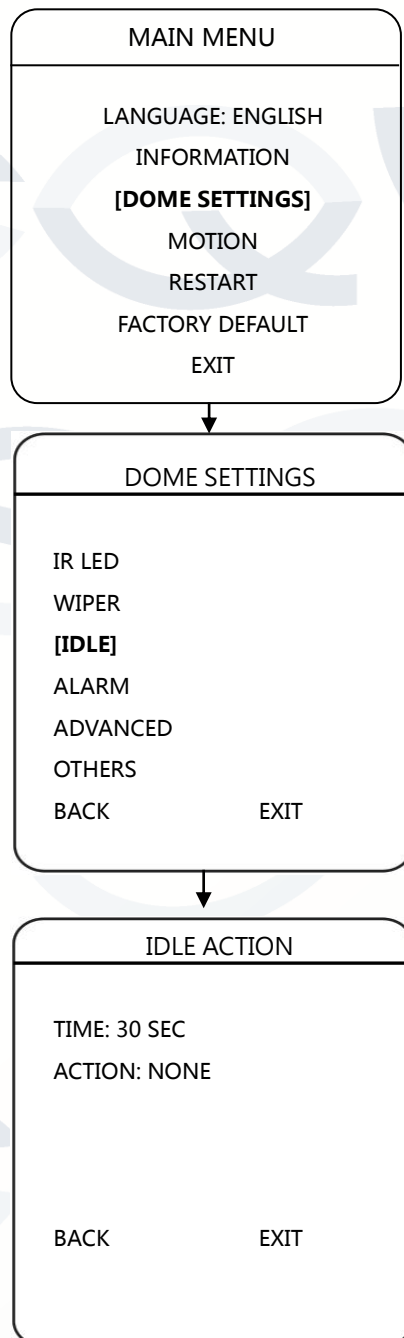
Move the cursor to “RESET” and click IRIS + to reset wiper settings.

#### 4. Activate:

Move the cursor to “ACTIVATE” and click IRIS + to ACTIVATE wiper preset. The wiper will be activated.

**Note:** Calling the preset number 71 can also enable the wiper.

### 3.5 IDLE



User could set camera to idle via the 'DOME SETTINGS' OSD menu options.

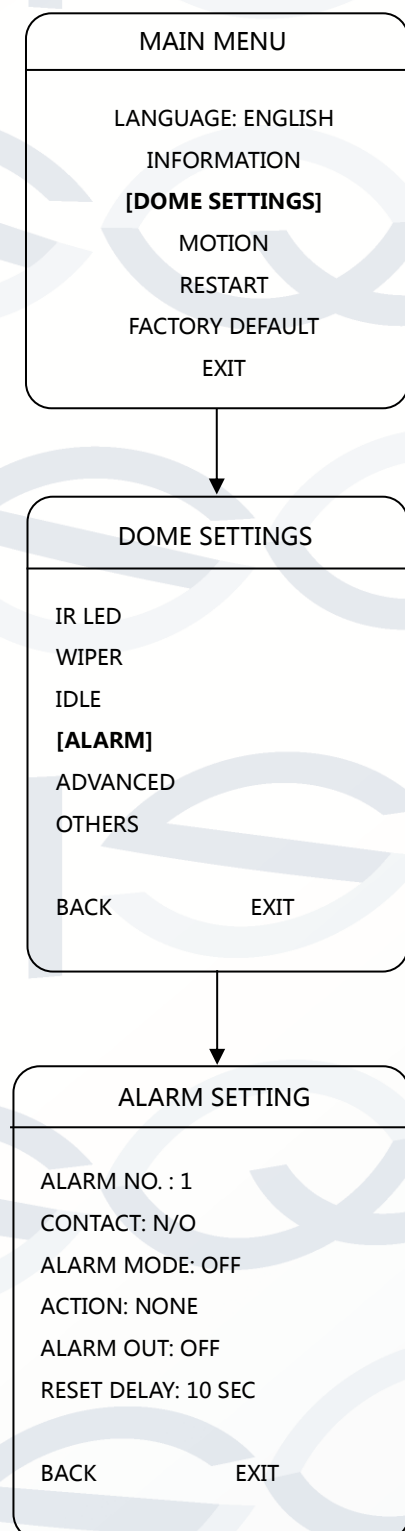
#### 1. Action:

Click up/down key to highlight 'ACTION', click left/right key enter setting mode, click left/right key to choose idle action. Action options include: no action, preset 1, auto scan, auto cruise, and pattern. Once the action has been selected click the up/down keys to set next operation.

#### 2. Delay

Click the up/down key to select the 'Delay' option, click left/right to enter setting mode, click left/right key to operate time choice—1min, 5min, 10min. Click up/down key for the next step.

## 3.6 ALARM



The dome system has 4 alarm inputs and 2 alarm outputs (optional function). When an alarm signal is received to the input of the dome it triggers a user defined action (such as a presets, patterns, etc.), at the same time the alarm output signal will be activated.

- 1. ALARM NO.:** Move the cursor to 'ALARM NO.' Click IRIS + to enter and click up or down button to select the alarm input no.
- 2. CONTACT:** Set the alarm contact status. There are two input states, OPEN and CLOSE.

### 3. ALARM MODE:

OFF	Alarm function is deactivated.
ON	Alarm function is activated.
AUTO	AUTO Alarm function will be activated and deactivated between START TIME and STOP TIME.

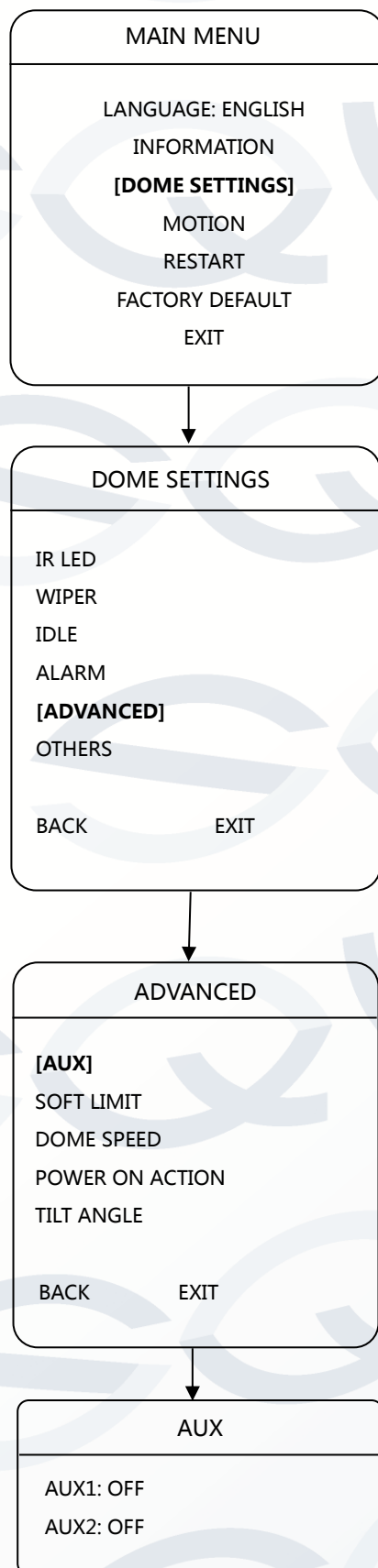
### 4. ACTION:

NONE	(default) No action
PRESET	Dome goes to preset. (Default as Preset 1)
SCAN	Dome starts auto scan (Default as Auto Scan 1)
SEQ	Dome runs auto cruise (Default as Auto Cruise 1)
PATTERN	Dome runs pattern (Default as Pattern 1)

**ALARM OUT:** Move the cursor to 'ALARM OUT'. Click IRIS + to enter and click up or down button to select one of the alarm output channel options "OFF" "OUTPUT1" "OUTPUT2" "ALL", which are used to set the link alarm output signal switch after receiving alarm input signal(s).

**RESET DELAY:** Move the cursor to the 'ALARM OUT'. Click IRIS + to enter and click up or down button to select a reset delay time: "10SEC" "30SEC" "1MIN" "5MIN" "10MIN". This settings dictates the length of time that the speed dome has from alarm signals detection to alarm reset and return back to normal. The setting is valid under AUTO ALARM MODE.

### 3.7 AUX

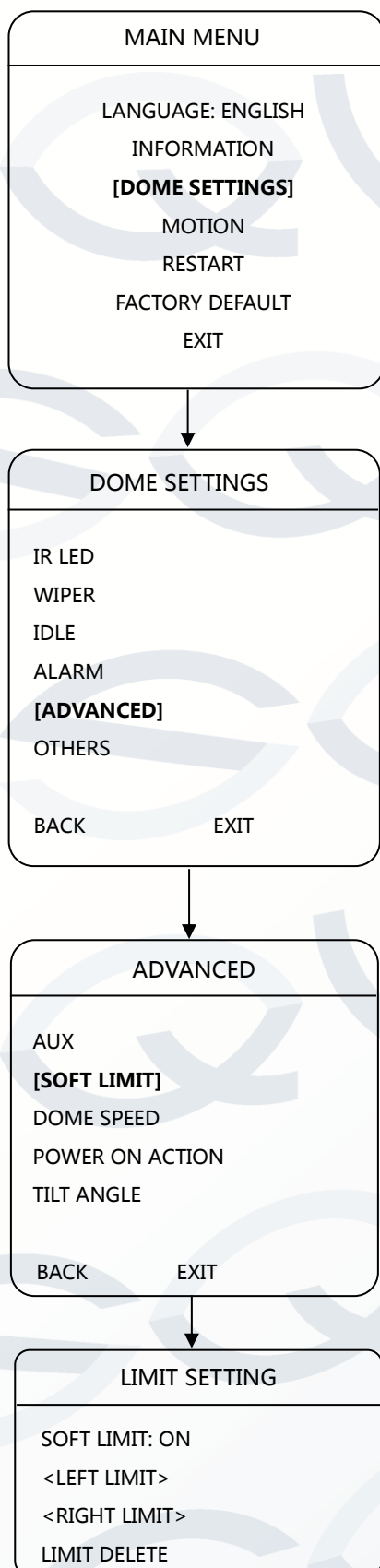


The user can set up the auxiliary output to trigger other devices such as an alarm or a controller.

Move the cursor to AUX and click IRIS + to enter and click up or down button to select “ON” “OFF”, then click IRIS + to confirm.



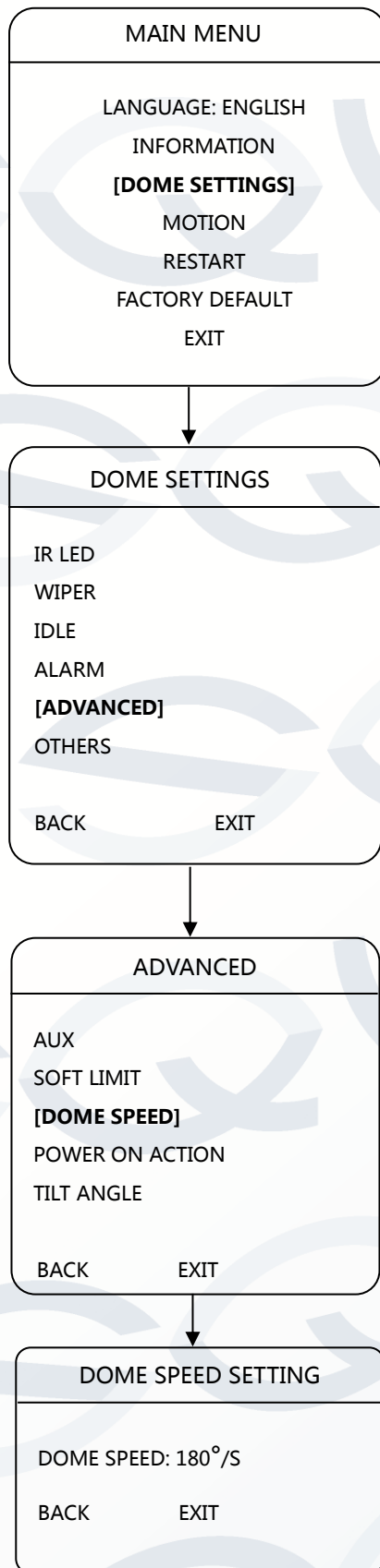
### 3.8 SOFT LIMIT



The user can set up the soft limit to define the left and right boundaries for the pan movement.

1. **SOFT LIMIT:** Move the cursor here and click IRIS + to enter. Click the up or down button to select “ON” or “OFF” to enable or disable this function.
2. **LEFT LIMIT:** Move the cursor here and click IRIS + to enter. to control the PAN movement of the dome to a defined position for the left limit. Click IRIS + to confirm.
3. **RIGHT LIMIT:** Move the cursor here and click IRIS + to enter to control the PAN movement of the dome to a defined position for the right limit. Click IRIS + to confirm.
4. **LIMIT DELETE:** Move the cursor here and click IRIS + to delete all the settings.

### 3.8 DOME SPEED

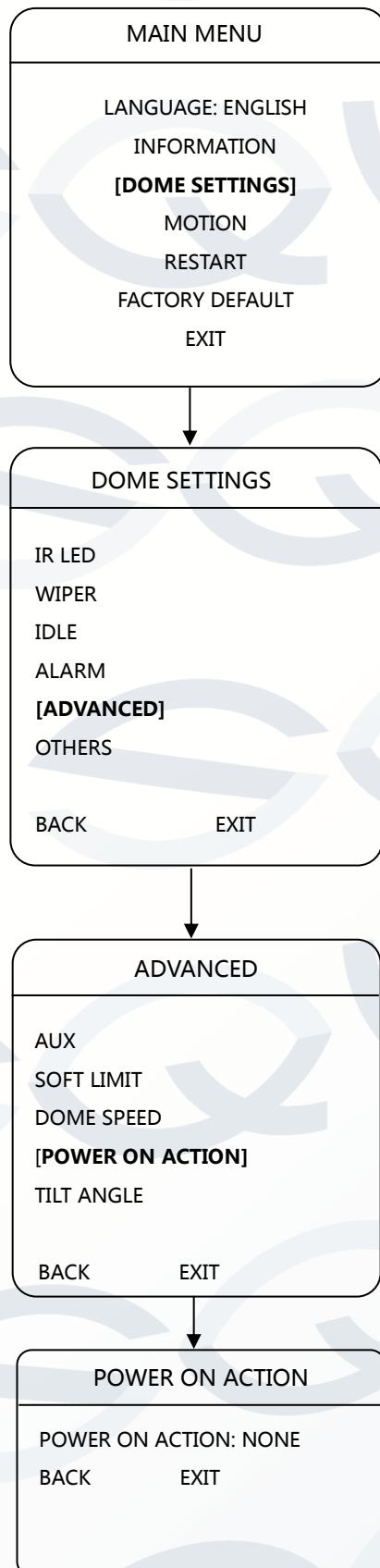


To set the dome speed, the user can enter this menu to set up in degree angle per second.

Move the cursor to DOME SPEED and click IRIS + to enter to select the dome speed when doing the pan movement.

Move the cursor to BACK/EXIT and click IRIS + to run the command of BACK or EXIT.

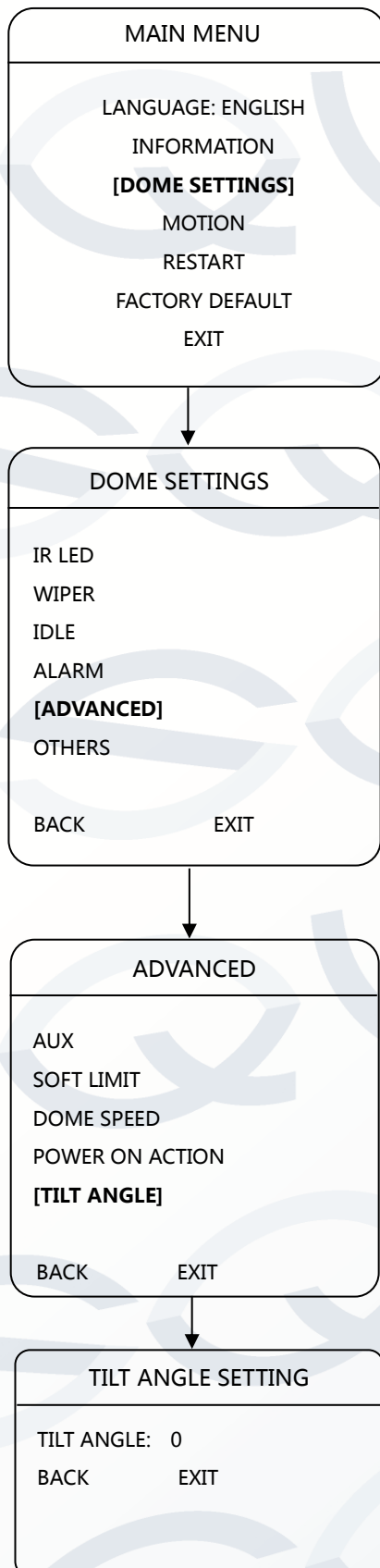
### 3.9 POWER ON ACTION



The user can define the dome action when power is on, Move the cursor to 'POWER ON ACTION' and click IRIS + to enter the setup.

NONE	(default) No action
PRESET	Dome goes to preset. (Default as Preset 1)
SCAN	Dome starts auto scan (Default as Auto Scan 1)
SEQ	Dome runs auto cruise (Default as Auto Cruise 1)
PATTERN	Dome runs pattern (Default as Pattern 1)

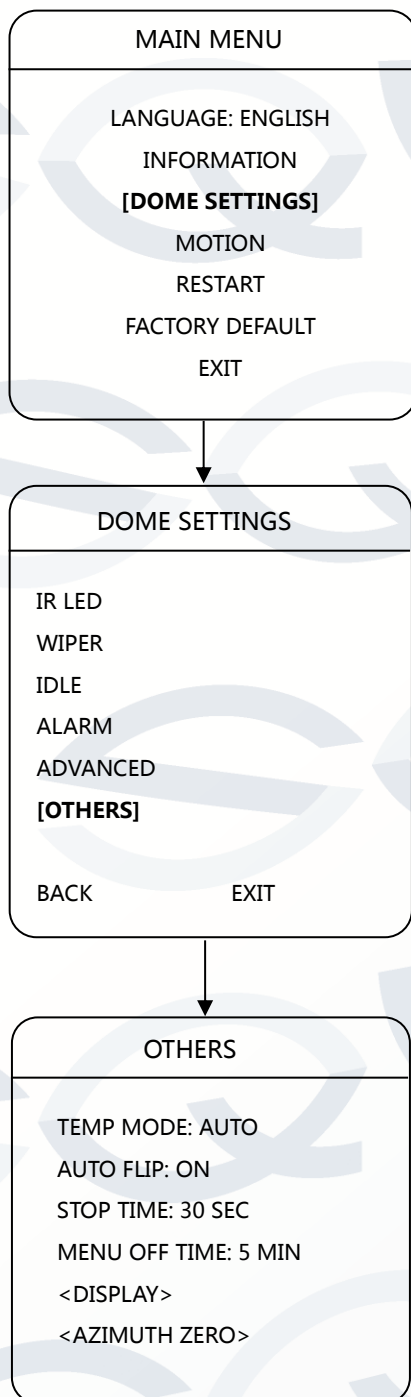
### 3.10 TILT ANGLE



The user can set up the tilt angle under the menu of 'TILT ANGLE'.

Move the cursor to 'TILT ANGLE' and click IRIS + to the setup of tilt angle. Click the up or down button to select the angle and click the IRIS + to confirm.

### 3.11 OTHERS

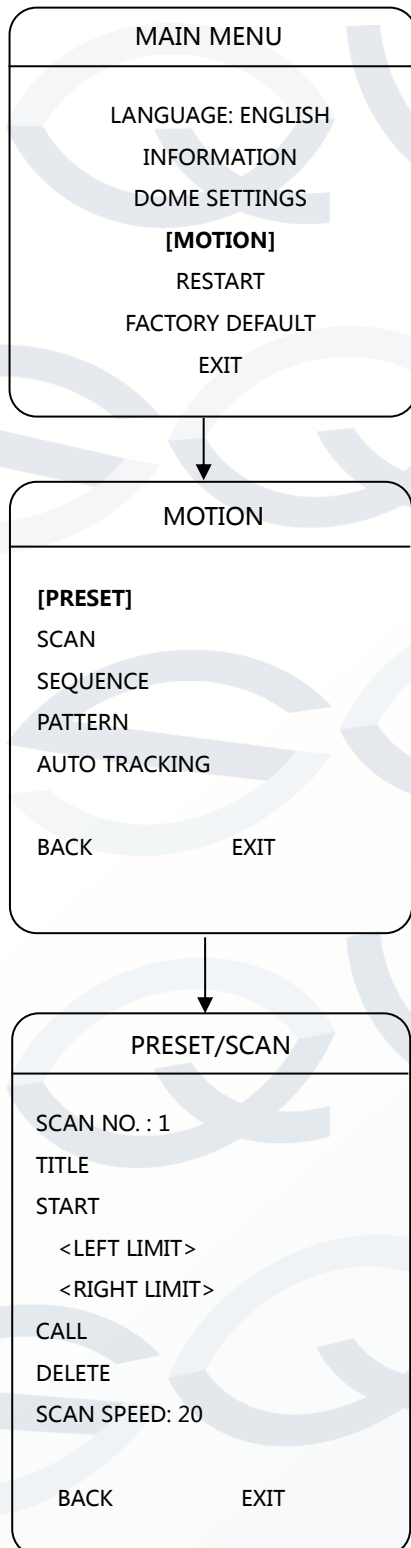


The user can set up TEMP MODE, INTERNAL FAN, PRESET FREEZE, STOP TIME. MENU OFF TIME and NORTH ZERO here under the 'OTHERS' menu

1. **TEMP MODE:** To set up the control mode of the dome's fans and heaters. It includes three modes: AUTO, FAN HIGH SPEED and FAN LOW SPEED.
2. **AUTO FLIP:** When the camera tilts downward and goes just beyond the vertical position, the camera will rotate 180 degrees. The user can click IRIS + to enter and choose to turn on/off this function.
3. **MENU OFF TIME:** To set up the time that the OSD menu will turn off when there are no operations. Options include 1/2/5/10 min.
4. **AZIMUTH ZERO:** To set up the due north of the dome (pan 0°). Move the cursor here and click IRIS + to enter. Click the up or down button to control the dome to pan 0° and click IRIS + to confirm.



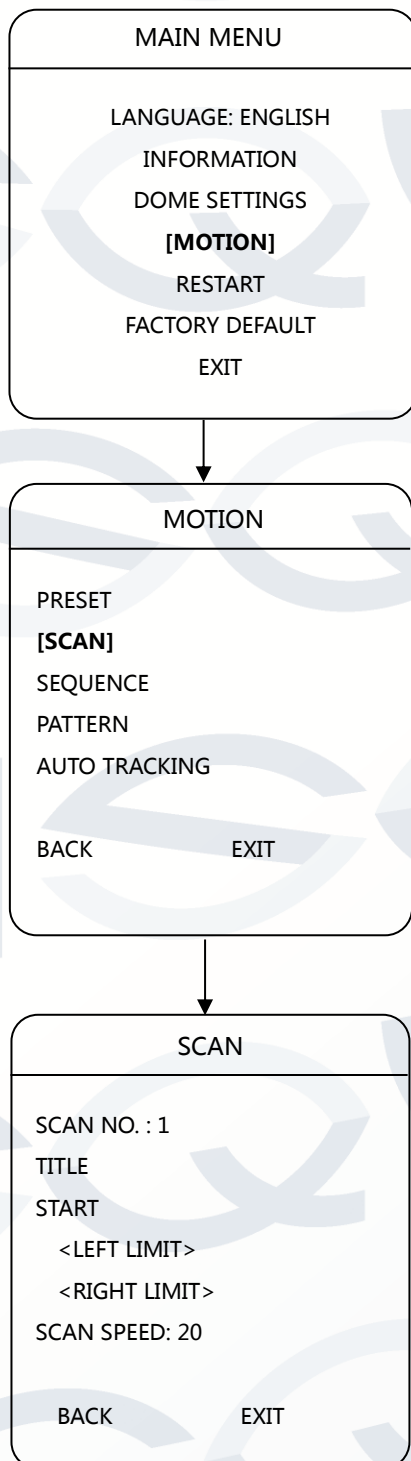
### 3.12 PRESET



The dome supports 220 presets. Please check the following steps to set up a preset.

1. **PRESET/SCAN NO.:** Move the cursor here and click IRIS + to enter the setup of Preset Number. Click the up or down button to select a preset number (1-64 and 100-255) and click IRIS + to confirm.
2. **TITLE:** Move the cursor here and click IRIS + to enter the setup of Preset Title. Check the detailed above in DOME TITLE settings.
3. **LEFT LIMIT:** Move the cursor here and click IRIS + to enter. Move the dome to a defined position as left limit and click IRIS + to save this left boundary.
4. **RIGHT LIMIT:** Move the cursor here and click IRIS + to enter. Move the dome to a defined position as right limit and click IRIS + to save this right boundary.
5. **CALL:** Move the cursor here and click IRIS + to call up the current preset.
6. **DELETE:** Move the cursor here and click IRIS + to delete the current preset.
7. **SCAN SPEED:** Move the cursor here and click IRIS + to set up the preset call up speed of LOW, MID and HIGH.

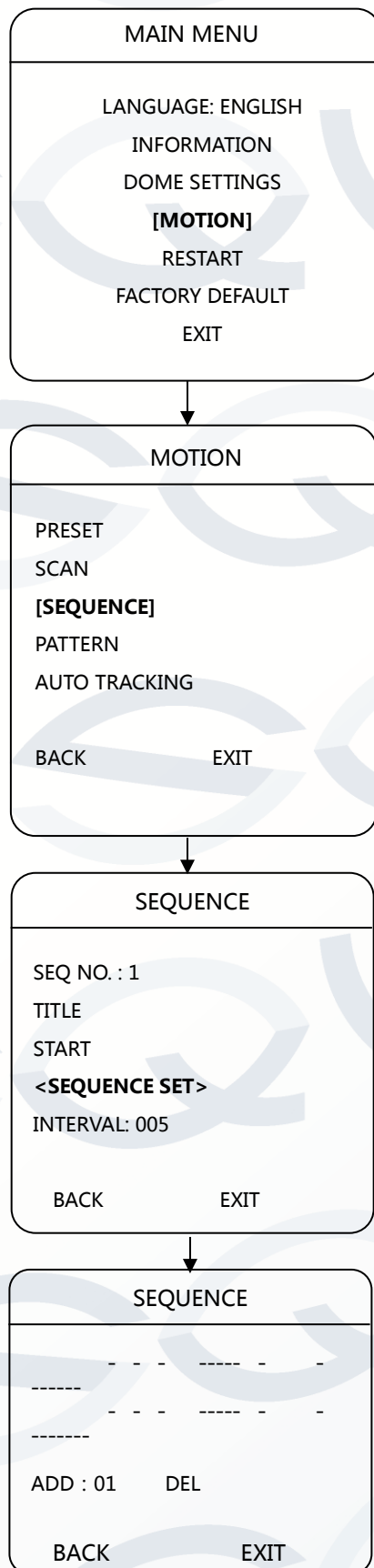
### 3.13 (AUTO) SCAN



The dome supports auto scan 8 groups. Please check the following steps to set up a scan.

1. **SCAN NO.:** Move the cursor here and click IRIS + to enter the setup of SCAN Number. Click the up or down button to select a preset number (1-8) and click IRIS + to confirm.
2. **TITLE:** Move the cursor here and click IRIS + to enter the setup of SCAN Title. Check the detailed above in DOME TITLE settings.
3. **START:** Move the cursor here and click IRIS + to start the current scan.
4. **<LEFT LIMIT>:** Move the cursor here and click IRIS + to enter. Move the dome to a defined position as left limit and click IRIS + to save this left boundary.
5. **<RIGHT LIMIT>:** Move the cursor here and click IRIS + to enter. Move the dome to a defined position as right limit and click IRIS + to save this right boundary.
6. **SCAN SPEED:** Move the cursor here and click IRIS + to set up the scan speed ranging 1-30.

### 3.14 AUTO CRUISE (SEQUENCE)

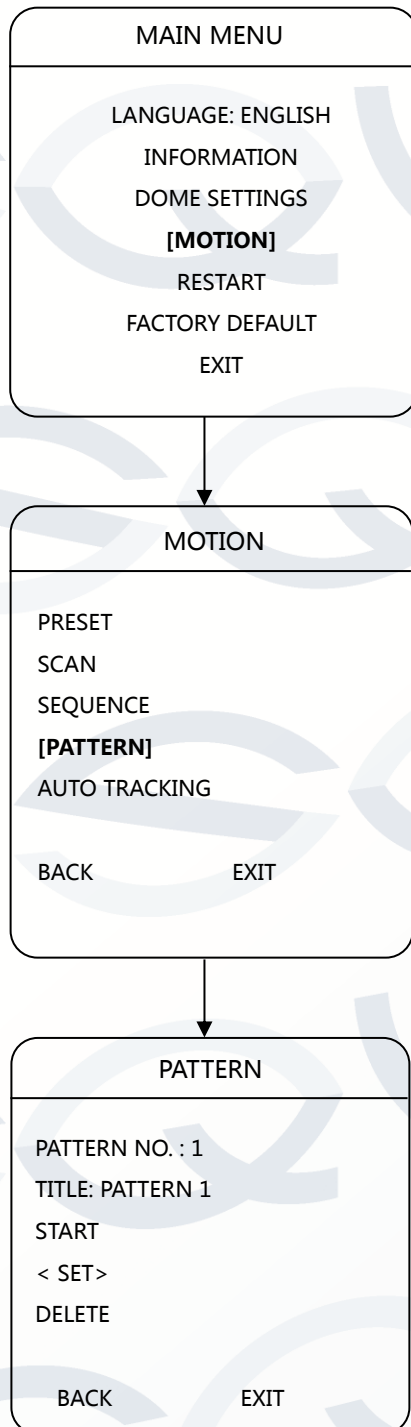


The dome supports 8 auto cruise groups and each cruise supports 32 presets. Please check the following steps to set up cruise.

1. **SEQ NO.:** Move the cursor here and click IRIS + to enter the Sequence Number setup. Click the up or down button to select a preset number (1-8) and click IRIS + to confirm.
2. **TITLE:** Move the cursor here and click IRIS + to enter the Sequence Title setup. Check the details above in DOME TITLE Settings.
3. **<SEQUENCE SET>:** Move the cursor here and click IRIS + To enter. Move the cursor to EDIT and click IRIS + enter Edit mode of sequence. Move the left and right button to select each item.
  - a) When the < > is on the item NO., move the up or down button to select the Serial NO. Of the preset in a sequence. There are up to 32 presets in each sequence.
  - b) When the < > is on the item PRESET, move the up or down button to select the preset NO. That the user wants to add in the sequence.
  - c) When the < > is on the INTERVAL, move the up or down button to select the interval time between each preset.
  - d) When the < > is on the last item, move the up or down button to select edition mode as "INS (insert)", "ok" and "delete".
  - e) Click IRIS + when selecting INS to insert the settings into the position of current Serial No.
  - f) Click IRIS + when selecting OK to override the settings of Current Serial No.
  - g) Click IRIS + when selecting delete to delete the settings of the Current Serial No.
  - h) Click IRIS + to save all the setting and click IRIS CLOSE to exit.

1. **DELETE/START:** Move the cursor here and click IRIS + to delete/start the current sequence.

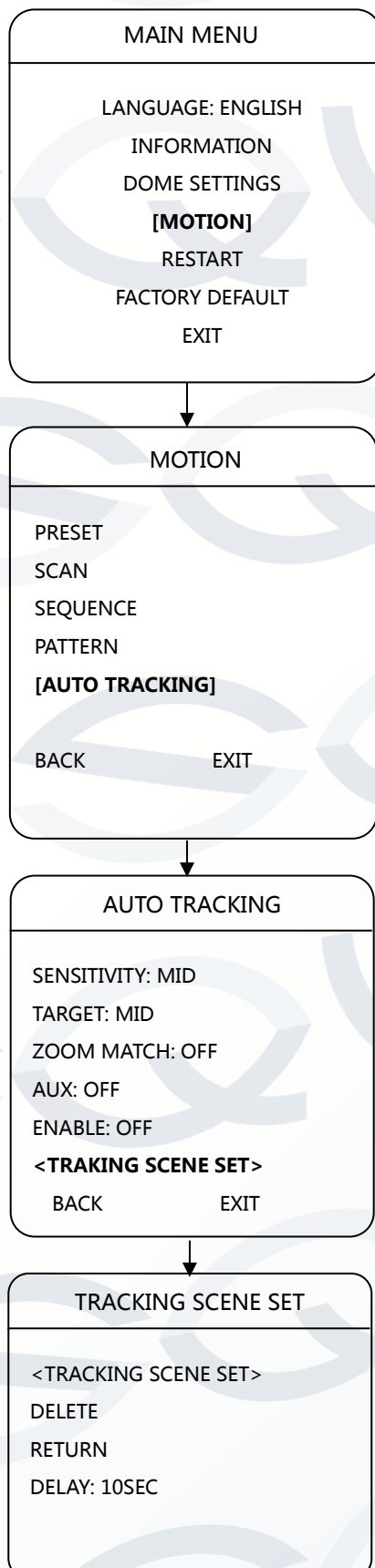
### 3.15 PATTERN TOUR



The dome supports 4 pattern tours and each pattern provides a maximum of 10 Minutes of 500 commands. Please check the following steps to set up a pattern.

- 1) **PATTERN NO.:** Move the cursor here and click IRIS + to enter the setup of Pattern Number. Click the up or down button to select a pattern number (14) and click IRIS + to confirm.
- 2) **TITLE:** Move the cursor here and click IRIS + to enter the setup of Pattern Title .Check the detailed above in DOME TITLE settings.
- 3) **<SET>:** Move the cursor here and click IRIS + to enter. Click the dome up/down/left/right, make the zoom in/out and click IRIS + to save the pattern tour.
- 4) **START:** Move the cursor here and click IRIS + to start the current pattern tour.
- 5) **DELETE:** Move the cursor here and click IRIS + to delete the current pattern tour.

### 3.16 AUTO TRACKING



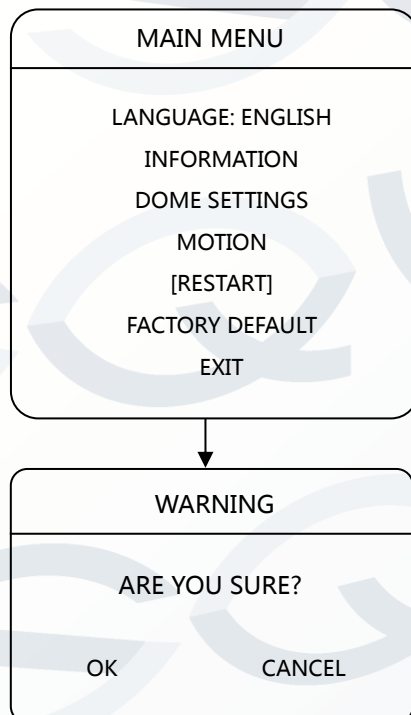
Under the auto tracking mode, the dome will auto track any detectable moving objects entering camera's view. When the object is moving out of the scene, the dome will return to a preset position as defined after the defined time.

1. **SENSITIVITY:** The user can set up the auto tracking sensitivity under this menu. When set as 'LOW', the dome will auto track an obvious object when it has entered the camera's view. When set as 'HIGH', the dome will auto track when small object when it has entered the camera's view. Move the cursor there and click the IRIS + to enter. The options include: LOW, MID and HIGH.
2. **TARGET:** To set up the size of the tracking object. The options include Large. MID and SMALL.
3. **AUX:** If set to "ON" here, the object auto tracking will activate an alarm aux output at the same time. Click IRIS + to enter to select "ON" or "OFF"
4. **ZOOM MATCH:** Under the auto tracking model, if turning on the ZOOM MATCH function, the dome will zoom in and out when it is auto tracking, to keep the right proportion between the object and background. Move the cursor there and click the IRIS + to enter. And click the up or down to select the optical zoom.
5. **ENABLE:** Move the cursor here and click IRIS + to enter to select "ON" or "OFF" to enable or disable this function.



6. **TRACKING SCENE SET:** Here the user can set up the scene the dome will go back to when the camera has finished auto tracking. Move the cursor here and click IRIS + to enter. Move the dome to the wanted scene and click IRIS + to confirm.
7. **DELETE:** Move the cursor here and click IRIS + to delete the return scene.
8. **RETURN DELAY:** To set up the time that dome will waiting to return to this scene.
9. **RESTART:** The dome allows the user to reset its settings remotely under this menu.

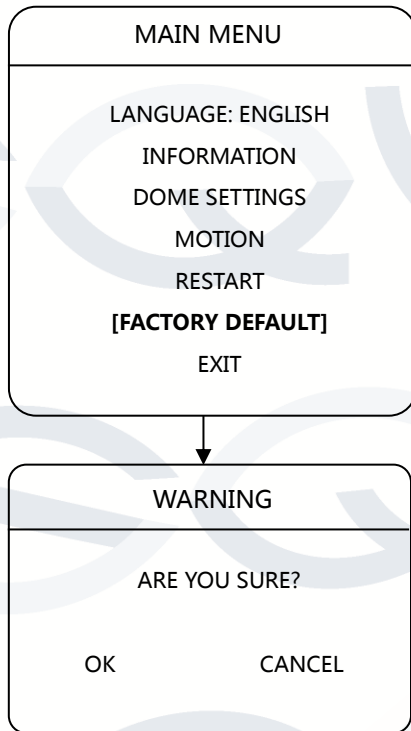
### 3.17 RESTART



Move the cursor here and click IRIS + to enter. Select “OK” or “CANCEL” to continue the reset or cancel the reset.



### 3.18 FACTORY DEFAULTS



FACTORY DEFAULT will allow the user to recover all the original factory default settings.

Move the cursor here and click IRIS + to enter. Select “OK” or “CANCEL” to continue the reset or cancel the reset.

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