



IP PTZ Speed Camera

User Manual

Please read this manual carefully before use of the products and preserve for reference purposes. Specifications are subject to change without notice*

Disclaimer

- This manual is provided for user reference only, without legal restraint.
- This manual is useful for many models. Some functions introduced in the manual may be not available for some models. Please take the real models as the standard.
- This content of this manual is subject to change without prior notice, and the updates will be added into the new version of this manual.
- This manual may contain several technically incorrect places or printing errors, please feel free to let us know. We will readily improve or update the procedures described in the manual.

Notes on Safety

- Please use the specified power supply to connect.
- Do not attempt to disassemble the camera; in order to prevent electric shock, do not remove screws or covers.
- There are no user-serviceable parts inside. Please contact the nearest service center as soon as possible if there is any failure.
- Avoid from incorrect operation, shock vibration, heavy pressing which can cause damage to product.
- Do not use corrosive detergent to clean main body of the camera. If necessary, please use soft dry cloth to wipe dirt; for hard contamination, use neutral detergent. Any cleanser for high grade furniture is applicable.
- Avoid aiming the camera directly towards extremely bright objects, such as sun, as this may damage the image sensor.
- Please follow the instructions to install the camera. Do not reverse the camera or the reversing image will be received.
- Do not operate it incase temperature, humidity and power supply are beyond the limited stipulations.
- Keep away from heat sources such as radiators, heat registers, stove, etc.
- Do not expose the product to the direct airflow from an air conditioner. Otherwise, it may cause moisture condensation inside the clear dome due to temperature difference between internal and external of the dome camera.

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Chapter 1 Introduction

This IP speed dome camera is front-end equipment used for video capture. Its digital flip technology makes omni-directional and non-blind-spot monitoring a reality. It utilizes most advanced technologies, such as video encoding and decoding technology, and complies with the TCP/IP protocol, SoC., etc., to ensure this system more stable and reliable.

This product is widely used in banks, telecommunication systems, electricity power departments, law systems, factories, storehouses, uptowns, etc. In addition, it is also an ideal choice for surveillance sites with middle or high risks.

- 1/3 " CMOS progressive scan
- HD network video output
- H.264/H.265 image compression format
- TCP/IP, DHCP, DDNS, NTP, RTSP, SMTP, FTP, PPPoE
- SD card local storage, network remote storage
- Web GUI menu
- Support selected area amplification and PTZ function
- Provide standard SDK, easy to integrate with other digital system
- IP66 ingress protection; TVS 6KV lightning protection, surge protection

Chapter 2 IE Remote Access

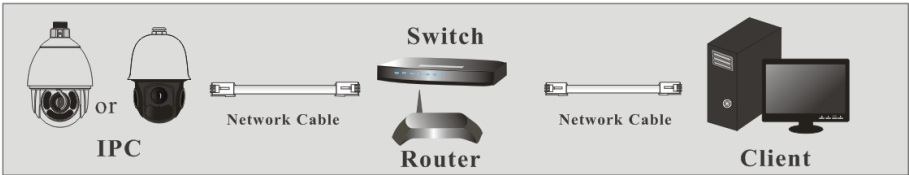
You may connect IP-Cam via LAN or WAN. Here we use IE browser (6.0) for example. The details are as follows:

2.1 LAN

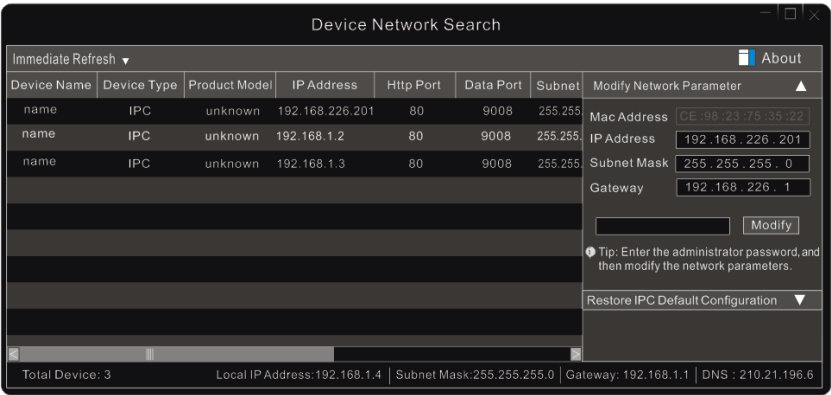
In LAN, there are two ways to access IP-Cam: 1. access through IP-Tool; 2. directly access through IE browser.

2.1.1 Access through IP-Tool

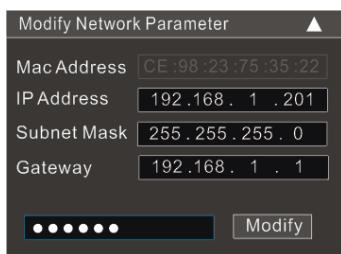
Network connection:



- ① Make sure the PC and IP-Cam are connected to the LAN and the IP-Tool is installed on the PC from the CD.
- ② Double click the IP-Tool icon on the desktop to run the software as shown below:



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

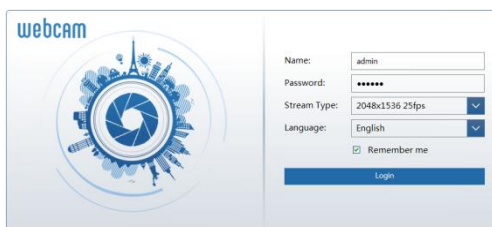


For example, the IP address of your computer is 192.168.1.4. So the IP address of the camera shall be changed to 192.168.1.X. After modification, please input the password of the administrator and click “Modify” button to modify the setting.



The default password of the administrator is “123456”.

④ Double click the IP address and then the system will pop up the IE browser to connect IP-CAM. IE browser will auto download the Active X control. After downloading, a login window will pop up as shown below.



Input the username and password to log in.

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

2.1.2 Directly Access through IE

The default network settings are as shown below:

IP address: **192.168.226.201**

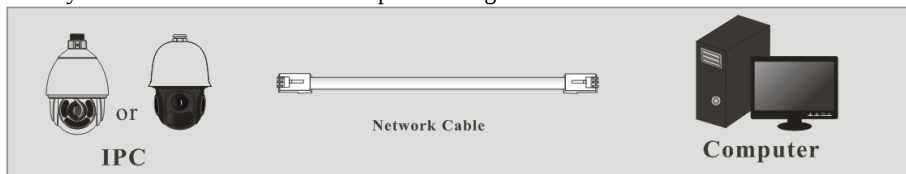
Subnet Mask: **255.255.255.0**

Gateway: **192.168.226.1**

HTTP: **80**

Data port: **9008**

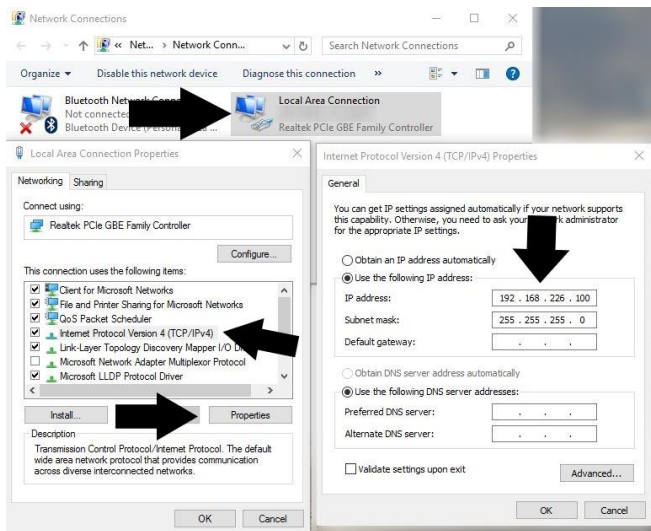
You may use the above default settings when you log in the camera for the first time. You may directly connect the camera to the computer through network cable.



Select “Use the following IP address” and manually enter the following information:

IP address: 192.168.226.4

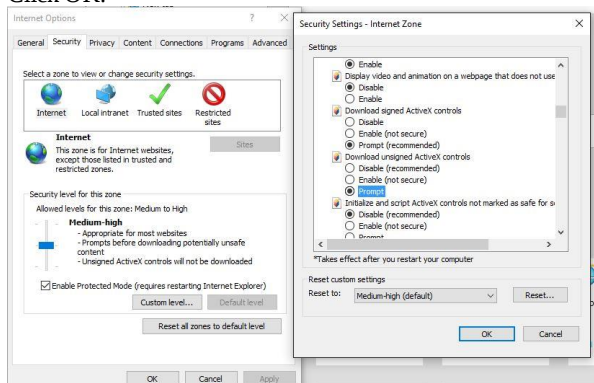
Subnet Mask: 255.255.255.0



② Open the IE browser and input the default address of IP-Cam and connect. The IE browser will download Active X control automatically.

****IMPORTANT:** You must configure IE Internet options before the Active X control will install. Proceed to do the following in Internet Explorer:

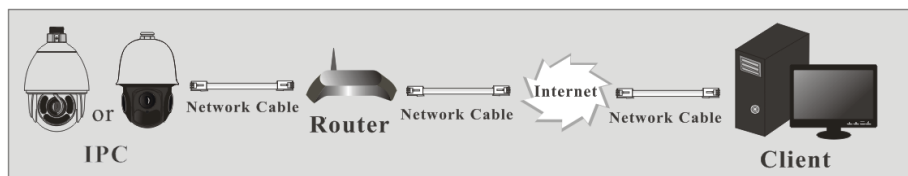
Click on Tools (cog wheel top right corner) > Internet Options > Security > Click Custom level > Scroll to **DOWNLOAD UNSIGNED ACTIVEX CONTROLS** > set it to **PROMPT** > Click OK.



- ③ After downloading Active X control, the login dialog box will pop up.
- ④ Input the default username and password and then enter to view camera, and access camera settings.

2.2 WAN (Router)

➤ Access through the router



- ① Make sure the camera is well connected via LAN and then log into the camera via LAN and go to Config ② Network ③ Port menu to set the port number.

HTTP Port	80
Data Port	9008
RTSP Port	554

- ② Go to Config ② Network ③ TCP/IPv4 menu to modify the IP address.

IP Config PPPoE Config IP change notification Config

☐ Obtain an IP address automatically

☒ Use the following IP address

IP Address

Subnet Mask

Gateway

☐ Obtain DNS server address automatically

☒ Use the following DNS server

Preferred DNS Server

Alternate DNS Server

③ Go to the router's management interface through IE browser to forward the IP address and port of the camera. Login to the router by typing in the default gateway address into the web address bar of the browser (ex. <http://192.168.1.1>). Navigate to the Port forwarding, Virtual Server, Custom service, or Pinhole section in the router.

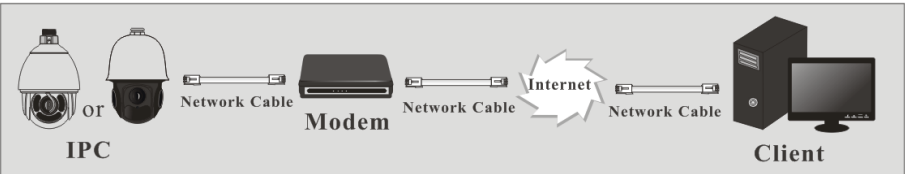
Port Range					
Application	Start	End	Protocol	IP Address	Enable
1	9007	to 9008	Both	192.168.1.201	☒
2	80	to 81	Both	192.168.1.201	☒
3	10000	to 10001	Both	192.168.1.166	☐
4	21000	to 21001	Both	192.168.1.166	☐

Router Setup

④ Open the IE browser and input WAN IP and http port to access. You can find the WAN IP address under the router status page. It is also called the "Internet IP address."

➤ **Access through PPPoE dial-up**

Network connection



You may access the camera through PPPoE auto dial-up.

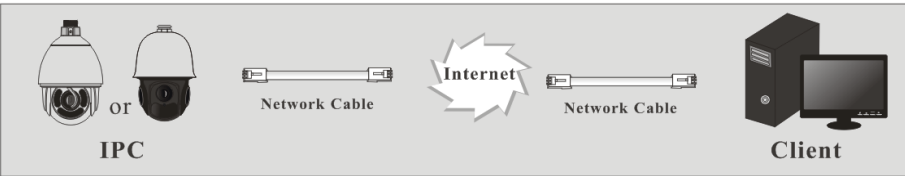
- ① Go to Config ⑦Network ⑦Port menu to set the port number.
- ② Go to Config ⑦Network ⑦TCP/IPv4 menu. Check “PPPoE Config” and then input the user name and password, which you can get from your internet service provider.

IP Config	PPPoE Config	IP change notification Config
☐ Enable		
User Name		
Password		

- ③ Go to Config ⑦Network ⑦DDNS menu. Before you configure the DDNS, please apply for a domain name first. Please refer to [5.5.4 DDNS](#) Configuration for detail information.
- ④ Open the IE browser and input the domain name and http port to access.

Access through static IP

Network connection

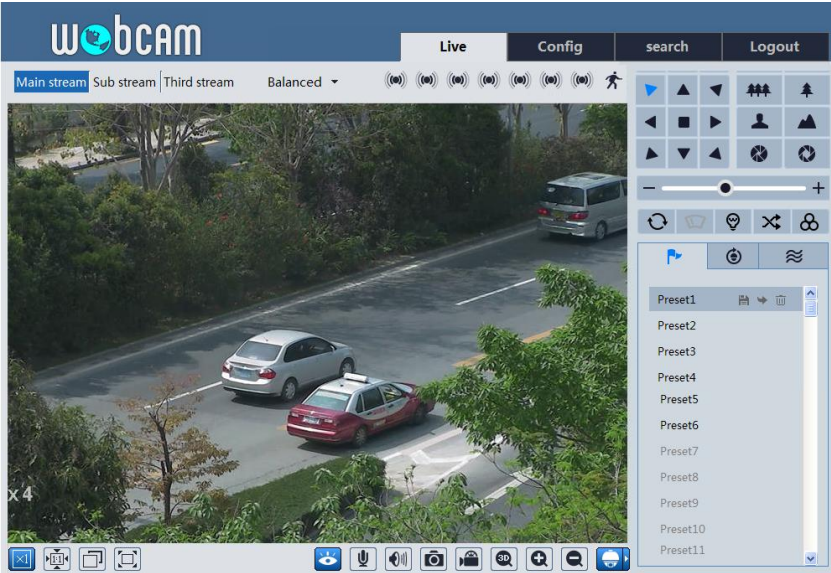


The setting steps are as follow:

- ① Go to Config➤Network➤Port menu to set the port number.
- ② Go to Config➤Network➤TCP/IPv4 menu to set the IP address. Check “Use the following IP address” and then input the static IP address and other parameters.
- ③ Open the IE browser and input its WAN IP and http port to access.

Chapter 3 Remote Preview

After you log in, you will see the following window.



The descriptions of the icons in the remote preview interface are as follows:

Icon	Description	Icon	Description
	Sensor alarm indicator icon		Motion alarm indicator icon
	Original size		Open/close audio
	Appropriate size		Snap
	Auto		Start/stop record

	Full screen		Zoom in
	Start/stop live view		Zoom out
	Start/stop two-way talk		PTZ control
	Move the cursor to view the live image in all directions after you click this button. Additionally, hold and drag the left mouse button to zoom in the live image.		

*** Only one sensor alarm indicator icon can be displayed for some models.**

Click PTZ extended button to unfold PTZ control panel. In remote preview interface, you can view the image from every direction by controlling the PTZ.

The descriptions of the icons in the control panel are as follows:

Icon	Description	Icon	Description
	Click it to rotate the dome diagonally up-left		Click it to rotate the dome diagonally up-right.
	Click it to rotate the dome upwards.		Click it to stop rotating the dome.
	Click it to rotate the dome towards left		Click it to rotate the dome towards right.
	Click it to rotate the dome diagonally down-left		Click it to rotate the dome diagonally down-right.
	Click it to rotate the dome downwards.		Drag the scroll bar to adjust rotating speed of the dome.
	Click it to zoom out the live image.		Click it to zoom in the live image.
	Focus -		Focus +
	Iris -		Iris +
	Auto scan		Wiper
	Light		Random scan
	Group scan		Preset
	Cruise		Track

Select preset and click  to call the preset. Select and set the preset and then click  to save the position of the preset. Select the set preset and click  to delete it. Select cruise and click  to start cruise.

Chapter 4 Menu Setup

On the PTZ control panel of IE remote preview interface, call Preset 95 and click . This will take you to see the following main menu setup.

1 SYSTEM INFORMATION

2 SYSTEM SETUP

3 CAMERA SETUP

4 DOME FUNCTION

5 DISPLAY SETUP

6 LOAD DEFAULT

0 EXIT

 The menu setup can be displayed when the resolution of the live is set to 1920×1080. After you go to the main menu interface, you can select the menu by clicking the direction button ().

-  : Select to move up or down.
-  : Select to the menu on the left.
-  : Select sub-menu or to select the menu on the right.

4.1 System Information

Select System Setup by clicking  or  button and then click  button to go to System Information menu as shown below:

- SOFTWARE:

- FIRMWARE:

- CAMERA:

- DATE:

- TEMP:

1 RETURN

0 EXIT

4.0.0

V1.06 B

AR20H

2015-07-20

35°C

You can check the software and firmware version, camera, system temperature, date, dome ID, dome protocol and baud rate here.

4.2 System Setup

Select System Setup by clicking  or  button and then click  button to enter System Setup as shown below:

1 AUTO PT FLIP: ON
2 LANGUAGE SETUP:
3 RS485 SETUP:
4 DATE SETUP:
5 TITLE SETUP:
6 NEXT PAGE
7 RETURN
0 EXIT

1 NORTH SETUP
2 NEW PASSWORD
- CHANGE PASSWORD
3 AUTO EXIT TIME: OFF
4 RETURN
0 EXIT

4.2.1 Auto PT Flip

Select Auto PT Flip and then click  to set up the menu on the right; click  or  button to select On/Off. Click  button to return to the menu on the left and click  button to select Exit. Now, you will see the remote preview interface.

After you exit the main menu, press and hold  button to let the speed dome move to the bottom so that the dome will auto flip.

4.2.2 Language Setup

English or Chinese menu can be selected.

4.2.3 RS485 Setup

Go to System Setup  RS485 Setup as below:

1	ID TYPE:	SW
2	DOVE ID:	001
3	PROTOCOL:	PELCO-P
4	BAUD RATE:	2400
5	RETURN	
0	EXIT	

【Dome ID】 : The available range is from 001 to 255.

【Protocol】 : PELCOD or PELCOP is selectable.

【Baud Rate】 : The baud rate is selectable from 1200 to 9600bps.

4.2.4 Date Setup

Go to System Setup➡Date Setup menu as shown below:

1	DATE:	2015-07-21
2	TIME:	14:27:06
3	STORE	
4	RETURN	
0	EXIT	

- 1 Set the date and time by clicking the direction button.
- 2 Select STORE to save the setting.

4.2.5 Title Setup

Go to System Setup➡Title Setup as shown below:

1	DOVE TITLE:	
	name - - - - -	
2	STORE	
3	RETURN	
0	EXIT	

You can click direction button to set the title and then save the setting.

4.2.6 North Setup

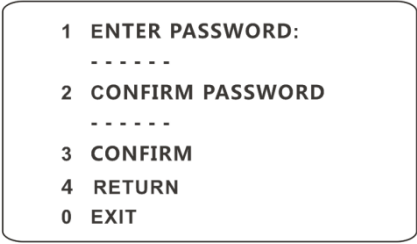
Go to System Setup 7 North Setup as shown below:



- 1 Choose a location by clicking the direction button.
- 2 Select STORE to save the setting.
- 3 The horizontal angle will treat the north position as a reference; otherwise, it will treat the horizontal origin as a reference to display the clockwise rotation angle of camera.
- 4 The vertical PTZ will treat its highest point as a reference (when the camera is parallel with the horizontal ground) to show the included angle between the camera and horizontal ground.

4.2.7 New Password and Change Password

- New Password



Enter the password by clicking  or  button.

- Numbers from 0 to 9 are available. The password should be 6 characters.
- Empty password is invalid when you set the initial new password.
- Password needs to be entered when you log in the next time.

- Change Password

1 ENTER OLD PASSWORD:

2 ENTER NEW PASSWORD

3 CONFIRM NEW PASSWORD

4 RETURN
0 EXIT

- Enter the current password and then input the new password twice. (Please refer to “New Password” for details.)
- Inputting empty new password means to delete the current password.

4.2.8 Auto Exit Time

Go to System Setup ⑦Next Page ⑦Auto Exit Time. You can set a time for the menu to exit automatically.

4.3 Camera Setup

After you go to camera setup menu, you will see the following menu.

1 CAMERA CONTROL
2 IMAGE SETUP
3 LENS SETUP
4 DAY NIGHT SETUP
5 PAL/NTSC: PAL
6 RETURN
0 EXIT

4.3.1 Camera Control

After you select Camera Control, you will see the following menu.

1	BLC:	OFF
2	HLC:	OFF
-	HLC LEVEL:	20
3	3D NR:	LOW
4	COLOR LEVEL:	07
5	NEXT PAGE	
6	RETURN	
0	EXIT	

1	SHARPNESS:	04
-	WDR:	OFF
-	CAMMA:	DEFAU
2	CAM DEFOG:	1
-	VE:	OFF
-	HIGH SENSI:	OFF
3	RETURN	
0	EXIT	

【BLC】 : When the background light is so strong that the foreground is dark, the brightness of the whole image will improve by enhancing the visibility of the foreground image when the BLC function is enabled.

【HLC】 : If enabled, the darker part will be lightened, while the highlight part will be suppressed.

【HLC Level】 : Range from 00~20.

【3D-NR】 : Reduces the noise of the brightness and chroma of the image in low light condition.

【Color Level】 : Adjust the saturation of the image.

【Sharpness】 : Set the image definition.

【WDR】 : If WDR is ON, it will help the speed dome provide clear images even under back light circumstances. When there are both very bright and very dark areas simultaneously in the field of view, WDR will balance the brightness level of the whole image and provide clear images with details.

【Gamma】 : Measurement of the contrast of an image.

【CAM Defog】 : Some products support this function.

4.3.2 Image Setup

Select Image Setup to go to the following sub-menu.

1	AE SETUP	
2	WB SETUP	
3	AGC:	11
4	IMAGE FLIP:	OFF
-	HR:	ON
5	RETURN	
0	EXIT	

- **AE Setup**

Go to AE Setup menu as shown below:

1	AE MODE:	AUTO
-	BRIGHTNESS:	10
-	SHUTTER:	06
-	IRIS:	13
2	RETURN	
0	EXIT	

【AE MODE】 : Auto, Bright, Shutter, IRIS, and Manual are optional.

【Brightness】 : Range from 0 (darkest) ~20 (brightness) . It is available only when bright mode is selected.

【Shutter】 : The lower the value of camera shutter is, the brighter the image is. It is available only when the shutter or manual mode is selected.

【IRIS】 : The higher the value of the camera IRIS is, the more the light passes through. It is available only when the camera is IRIS or Manual mode.

- **WB Setup**

Go to WB Setup menu as shown below:

1	WB MODE:	AUTO
-	MWB RED GAIN:	10
-	MWB BLUE GAIN:	10
2	RETURN	
0	EXIT	

【WB Mode】 : White Balance Mode. There are two options you can choose including auto and manual. You can select the mode according to different lighting condition.

【MWB Red Gain】 : The operation is effective in manual mode.

【MWB Blue Gain】 : The operation is effective in manual mode.

[AGC] The larger the number is, the higher the brightness and the more the noise in the image

- **Image Flip**

- ❖ MIRR: Turn over the image left or right.
- ❖ FLIP: Turn over the image up or down.
- ❖ ROTA: Turn over the image up, down, left or right.

4.3.3 Lens Setup

Go to Camera Setup ⑦ Lens Setup menu as shown below:

1	FOCUS LIMIT:	1M
2	ZOOM MAG DISP:	ON
3	ZOOM SPEED:	4
4	DZOOM:	OFF
-	LEN INITIALIZE	
5	RETURN	
0	EXIT	

- **Focus Limit**

Set the nearest distance of focus.

- **Zoom MAG DISP**

If “ON” is selected, you will see the zoom magnification in the live image

- **Zoom Speed**

Adjust zoom speed. The range is from 1 to 8.

- **DZoom**

After enabling digital zoom mode, digital zoom will be increased on the basis of optical zoom.

- **Len Initialize**

After enabling “Len Initialize”, the camera lens will restore to factory default.

4.3.4 Day & Night Setup

Day & Night Mode includes three modes: Auto, Night, Day and Time.

1	DAY NIGHT MODE:	AUTO
-	DAY TIME:	07:00
-	NIGHT TIME:	19:00
2	IR SENSITIVITY:	3
3	RETURN	
0	EXIT	

❖ Auto : Camera will automatically switch between day and night mode as needed

❖ Night : The camera will be in night mode all the time.

❖ Day: The camera will be day mode at all the time.

❖ Time: Camera will regularly switch the mode between day and night according to the set day and night time. Day & Night Mode will be disabled if enabling this function.

- **IR Sensitivity**

Set the level of the IR sensitivity. The higher the value is, the more the sensitive it is.

4.3.5 Video Format

PAL or NTSC is optional. (North America = NTSC)

4.4 Dome Function

Go to Dome Function menu as shown below:

1 PRESET SETUP
 2 CRUISE SETUP
 3 GROUPING SETUP
 4 TASK SETUP
 5 TRACE SETUP
 6 NEXT PAGE
 7 RETURN
 0 EXIT

1 ALARM SETUP
 2 PRIVACY MASK
 - MOTION DEFECT
 3 HOME POSITION
 4 WIPER SETUP
 5 RETURN
 0 EXIT

4.4.1 Preset Setup

This function is used to memorize the specific position of pan, tilt, zoom and focus, giving convenience for quick return to a position by calling preset.

- 1 Selecting the preset setup menu brings up the following menu.

1 PRESET NO: 001
 2 EDIT CUR PRESET
 3 DEL CUR PRESET
 4 DEL ALL PRESET
 5 RETURN
 0 EXIT

- 2 Select the preset number.
- 3 Go to Edit CUR Preset interface as below:

- PRESET NO: 1
 1 TITLE: Z - - - - -
 2 SAVE CUR PRESET

Press iris- to switch menu mode
and PTZ mode

- 4 Press iris – (minus) to switch menu mode and PTZ mode. And then set the position of the preset by clicking the direction buttons.
- 5 Set the title by clicking  or  button.
- 6 Save the setting.

4.4.2 Cruise Setup (Tour)

Go to Dome Function **7** Cruise Setup menu as below:

```
1 CRUISE NO:      1
2 EDIT CUR CRUISE
3 RUN CUR CRUISE . . .
4 DEL ALL CRUISE
5 RETURN
0 EXIT
```

In this interface, by programming presets in cruise list in advance, the system will keep calling those presets at the set time in sequence when executing cruise command so that non-stop monitoring between multiple important positions can be achieved.

To set this up:

- 1 Select the cruise number.
- 2 Edit the current cruise. This camera supports 8 cruises and 16 presets for each cruise. Go to “Edit Cur Cruise” menu as shown below:

```
PRESET NO/TIME (SEC)
01: 001/005  02: 002/005
03: 003/005  04: 004/005
05: 005/005  06: 006/005
07: 007/005  08: 008/005
A: NEXT PAGE
B: STORE
C: CANCEL
```

Set the preset and time. The preset ranges from 001 to 255 and the dwell time is from 05s to 240s.

- 3 Run the current cruise. The camera will automatically keep running according to the cruise you set until new command is received. The corresponding operating information will display on the screen when the camera is running.
- 4 Select STORE to save the setting.

4.4.3 Grouping Setup

Go to Dome Function➊Grouping Setup as below:

1

EDIT GROUPING

2

RUN GROUPING . . .

3

DEL GROUPING

4

RETURN

0

EXIT

Go to “Edit Grouping” menu as shown below.

01: CRU1

02: CRU2

03: CRU3

04: CRU4

05: CRU5

06: CRU6

07: CRU7

08: CRU8

A: STORE

B: CANCEL

8 cruises can be set in a group. CRU 1 stands for Cruise 1, CRU 2 stands for Cruise 2 and so on. “Run Grouping” means to run the cruises in order.

4.4.4 Task Setup

Go to Dome Function➋Task Setup menu as shown below:

1

TASK: OFF

2

TASK SETTING

3

DELETE TASK

4

RETURN

0

EXIT

By dividing 24 hours into several periods and appointing different commands for each period, the camera system will automatically execute the commands according to the set time if there is no operation.

Setting Steps:

- 1 Enable the task.
- 2 Set the task.

```

FORMAT: TIME/FUNC/NO
1  00:00 - - 00:00  NON: 00
2  00:00 - - 00:00  NON: 00
3  00:00 - - 00:00  NON: 00
4  00:00 - - 00:00  NON: 00
A:  NEXT PAGE
B:  STORE
C:  CANCEL

```

Time Format: Start Time – End Time. The tasks will be automatically executed in chronological order.

Task Type: RSC, ASC, PRE, CRU, TRA.



Note: The home position function will be disabled if enabling task setting.

4.4.5 Track Setup

Go to Dome Function 7 Track Setup menu as shown below:

```

1  TRACK NO:      1
2  TRACK SETTING
3  RUN CUR TRACK . . .
4  DEL CUR TRACK
5  RETURN
0  EXIT

```

This function is used to memorize the operation of the PTZ, zoom and focus so that repeating operation progress can be realized by running track.

Setting Steps:

- 1 Choose the track number.
- 2 Edit the track. Enter the track setting menu. Click “Iris – (minus)” to start recording track. Control the dome movement by direction buttons and then save the setting. Each track can record up to 180s. If the time exceeds 180s, the system will automatically save the operation data and return to the previous menu. In addition, 360 commands can be recorded for each track at most. If exceeding 360 commands, the system will

automatically save the first 360 commands and then exit the current menu. The recording time is related to the operating frequency. The more frequent the operation is, the shorter the memory time is.

- 3 Select “RUN CUR TRACK...” to perform the command.

4.4.6 Alarm Setup

Go to Dome Function 7 Alarm Setup as shown below:

```
1  ALARM IN NO:      1
2  EDIT CUR ALARM IN
4  RETURN
0  EXIT
```

Setting Steps:

- 1 Select Alarm In No.
- 2 Go to “EDIT CUR ALARM IN” menu as shown below.

```
1  ALARM IN CON:      N.O
2  ALARM IN MODE:      ON
3  ALARM CALL:         PRE50
4  OUTPUT ENABLE:      OFF
5  RETURN
0  EXIT
```

【ALARM IN CON】:Set the alarm input type to be Normally Opened (N.O.) or Normally Closed (N.C.) according to the sensor type.

【ALARM IN MODE】:ON, OFF, and TIME are optional.

【ALARM CALL】: Call the preset you need. When the first alarm input happens, the camera will automatically switch to this preset to monitor.

【OUTPUT ENABLE】: Select ON. When alarm input occurs, the camera will output alarm information.



Note: If the dome is on the menu state on an alarm, any command is negative.

4.4.7 Privacy Mask

Go to the Main Menu 7 Dome Function 7 Privacy Mask menu as below:

1	MASK NO:	1
2	MASK COLOR:	BLACK
3	MASK DISPLAY:	ON
4	CREATE MASK:	
5	DEL CUR MASK	
6	DEL ALL MASK	
7	RETURN	
0	EXIT	

【Mask NO.】 : Set the current mask area. 8 mask areas can be set at most.

【Mask Color】 : Select the color to mask.

【Mask Display】 : If “ON” is selected, the mask area will be displayed on the live interface.

【Create Mask】 : Go to the “Create Mask” sub-menu and then set the mask area and position by moving the direction buttons on the live interface. Click “Iris - (minus)” button to switch between the size and position of the mask area size. After that, save this mask area.

【Delete Current Mask】 : Select this menu to delete the current mask area.

【Delete All Mask】 : Select this menu to delete all mask areas.

4.4.8 Home Position

Go to System Setup 7 Home Position menu as shown below:

1	HOME:	OFF
2	HOME SET:	PRE 70
3	DELAY TIME (SEC):	007
4	RETURN	
0	EXIT	

The setting steps:

- 1 Enable the home position function and select the preset ,which should be set in advance.
- 2 Then select delay time (range from 007s to 180s) and exit the menu.

When the stand-by time of the dome camera exceeds the delay time, the camera will automatically execute the command to monitor the selected preset.

4.4.9 Wiper Setup

Some models may not support this function. Go to Main Menu  Wiper Setup as shown below.

1	SPEED LEVEL:	MIDD
2	RUN TIME:	15SEC
3	START:	
4	STOP:	
5	RETURN	
0	EXIT	

- 1 Set the speed level and run time.
- 2 Select “START” to enable wiper function.

4.5 Display Setup

You can enable title display and time display if you need.

1	TITLE DISP:	ON
2	TIME DISPLAY:	ON
-	TEMP DISPLAY:	OFF
-	DIRECTION:	OFF
-	PRE TITLE:	OFF
-	SYSTEM:	ON
3	RETURN	
0	EXIT	

4.6 Load Default

There are three menus, including master reset, master clear, and system reboot.

【Master Reset】 : Restore the camera state and active menu to factory default but do

not clear those parameters such as preset and cruise.

【Master Clear】 : Restore the camera to factory default.

【System Reboot】 : Reboot the camera.

Chapter 5 Remote Configuration

5.1 System Configuration

The “System configuration” includes four sub-menus: Basic Information, Date and Time, Local Config and SD Card.

5.1.1 Basic Information

In the Basic Information interface, you can check the relative information of the device.

Device Type	xxxx
Brand	Customer
Software Version	4.0.1.1(3152)
Software Build Date	2016-03-04
Kernel Version	20150923
Hardware Version	1.0
Onvif Version	2.3
OCX Version	1.0.7.1
MAC	00:18:ae:59:0a:33
PTZ Version	V1.3.10
Camera Type	xxxx

5.1.2 Date and Time Configuration

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

Zone	Date and Time
Time Zone:	GMT (Dublin, Lisbon, London, Reykjavik) ▼
☐ DST	

You can select the time zone and DST
Click “Date and Time” to set the time mode .

Zone

Date and Time

Time Mode:

☐ Synchronize with NTP server

NTP server:

☐ Synchronize with computer time

Date: Time:

☒ Set manually

Date: Time:

5.1.3 Local Config

Go to Config➤System➤Local Config. You can set the storage path of the captured pictures and video records.

Path

Browse

Path

Browse

Video Sound Settings

☐ Open
 ☒ Close

5.1.4 SD Card

Go to Config➤System➤SD Card.

Capacity

Used Capacity

Remaining Capacity

State

Pop Up

Format

In the above interface, you can check the capacity, used capacity, remaining capacity and state of the SD card. The first time you used the SD card, you should click “Format” to format SD card”.



Note: Using of SD card function should be coordinated with alarm. When alarm is triggered, the system will automatically snap picture and save the picture into SD card.

5.2 Image Configuration

Image Configuration includes three submenus: Video/Audio, OSD and Camera Setup.

5.2.1 Video / Audio Configuration

The following interface will be displayed by clicking Config➤Image➤Video/Audio.

Index	Stream	Resolution	Frame	Bitrate	Bitrate(Kbps)	Video	I Frame	Encode	Profile
1	Main stre...	1920x1080	25	CBR	4096	Lower	30	H264	Base Line
2	Sub strea...	704x576	25	CBR	1024	Highes	100	H264	Main Profile
3	Third stre...	704x576	25	CBR	1024	Highes	100	H264	High Profile

☒ Video encode slice split Stream of snapping photos Size: (704x576)

In this interface, you can set the resolution, frame rate, bitrate type, video quality and more, subject to the actual network condition.

To set the audio encoding and audio type, please select the audio tab.

Video

Audio

Audio Encoding

Type of Audio

5.2.2 OSD Configuration

Go to Config➤Image➤OSD menu to display the interface as shown below:



Date Format

☐ Display Timestamp

Device Name

☐ Display Device Name

Content of OSD

☐ Display OSD

You may set time stamp, device name, and OSD here. After enabling the corresponding display and entering the content, drag them to change their position. Then press the “Save” button to

save the settings.

5.2.3 Camera Setup

Go to Config➤Image➤Camera Setup.



AE ModeAuto

White BalanceAuto

AGC15

MirrorClose

Day Night ModeNight

SensitivityMid

BLC

Open

Close

Color Level4

Brightness7

Sharpness10

3D DNRClose

Fog1

Focus Limit1M

Zoom Display

Zoom Speed3

Camera InitialCamera Initial

Set Northnorth

PAL/NTSC50HZ

Default

Reset

Many parameters of the camera can be set in above sub-menu, such as Color, Brightness, Sharpness, 3D DNR, Fog, Day Night Mode, etc. Please refer to Chapter 4.3 for more detail.

5.3 PTZ Configuration

5.3.1 PTZ and Password Setting

➤ PTZ Setting

Go to Config➤PTZ➤Setting. This will let you see the following submenu.

PTZ Settings	Others
Auto PTZ Flip	On
Language	English
Menu Keeping Time	Off
Communication Setting	
Dome ID	1
Protocol	PELCO-D
BaudRate	2400

In this submenu, PTZ title, date, auto PTZ flip, language, and menu keeping time can be set. If your model support RS485 interface, you may configure the communication setting for keyboard control.

🔒 Password Setting

If the password is set, you must input the password every time you go to the menu of the PTZ. Go to Config➤PTZ➤Setting➤Others, here you can set the password of the PTZ menu.

5.3.2 Load Default

It includes the function of reset, clear and restart. Please refer to Chapter 4.6 for more details.

5.3.3 Dome Function

Dome function includes preset setup, cruise setup, group setup, track setup, task setup, alarm setup, home position setup and wiper setup. Please refer to Chapter 4.4 Dome Function for more details.

5.4 Alarm Configuration

Alarm configuration includes four submenus: Motion Detection, Alarm In, Alarm Out and Alarm Server.

5.4.1 Motion Detection

To set motion detection:

1. Go to Config➤Alarm➤Motion Detection

Alarm Config

Area and Sensibility

Schedule

☒ Enable Alarm

Alarm Holding Time 20 Seconds ▾

Trigger Alarm Out

☒ Alarm Out

☒ Trigger Snap

☐ Trigger Email

☐ Trigger FTP

Check “Enable Alarm” check box to activate motion based alarm, choose alarm holding time and set alarm trigger options.

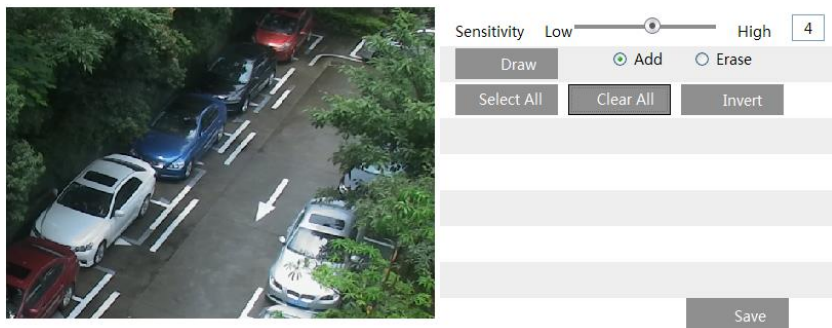
Alarm Out: If selected, this would trigger the external relay output on detecting a motion based alarm.

Trigger Snap: If selected, the system will snap images on an alarm and save them in SD card.

Trigger Email: If the email and attach picture checkbox is checked (Email address shall be set first in the Mail config interface), the triggered snap pictures and event will be sent to the designated email address(es).

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

2. Set motion detection area and sensitivity. Click “Area and Sensitivity” tab to see the following sub-menu.



Move the “Sensitivity” scroll bar to set up the motion track sensitivity.
Check “Add”, click “Draw” button and move mouse to select the motion detection area; Select “Erase” and move the mouse to clear motion detection area.
After that, click “Save” to save the settings.

3. Set the schedule of the motion detection. Click “Schedule” tab to set the schedule of the motion detection.

Week Schedule

Sun. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 Manual Input

Mon. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 Manual Input

Tues. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 Manual Input

Wed. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 Manual Input

Thur. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 Manual Input

Fri. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 Manual Input

Sat. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 Manual Input

Holiday Schedule

Date

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0

00:00-23:59 Manual Input

Week schedule

You can set an alarm schedule for any day of the week, Monday to Sunday.

Add: Add the schedule for a special day.

Erase: Delete holiday schedule.

Day schedule

You can set alarm time for a holiday or special circumstance.

1. Select a date at the “Date” pull down list, press “Add” button to add that date to the list box on the right side and then move the scroll bar to set the schedule of that day.

2. Select a date in the list box on the right side, and press “Erase” to remove the schedule on that day.

Press the “Save” button to save the settings.

Note: Holiday schedule is priority to Week schedule.

5.4.2 Alarm Input

To set sensor alarm (alarm input)

1. Go to Config ● Alarm ● Alarm In, to set alarm trigger.

Sensor1
Sensor2
Sensor3
Sensor4
Sensor5
Sensor6
Sensor7

Sensor 1
Apply settings to
Sensor1
Copy

Alarm Type
NO

Alarm Holding Time
20 Seconds

Sensor Name

☒ Enable Alarm

☒ Alarm Out

☐ Trigger Snap

☐ Trigger Email

☐ Trigger FTP

Schedule

Erase
Add

Week Schedule

Sun.
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
00:00-24:00
Manual Input

Mon.
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
00:00-24:00
Manual Input

- Set the alarm type, alarm holding time and sensor name.
- Enable alarm.
- Set alarm trigger options. The setting steps are the same with that of motion detection. Please refer to motion detection chapter for details.
- Click “Save” to save the settings.

If there are many sensors, you can Copy and paste to quickly apply settings to other sensors.

2. Set the schedule of the sensor alarm. The setting steps of the schedule are the same with that of motion detection. Please refer to motion detection chapter for details.

5.4.3 Alarm Out

1. Go to Config➤Alarm➤Alarm Out, menu is shown below:

Alarm Out	Alarm Holding Time	Manual Operation	
alarmOut1	20 Seconds	Open	Close

2. Select alarm holding time and alarm name
3. Click “Open” to trigger alarm output. Click “Close” to stop alarm output.
4. Press the “Save” button to save the settings.

5.4.4 Alarm Server

Go to “Alarm configuration” ⑦ “Alarm Server” interface is shown below.

Server Address	
Port	0

You may input the alarm server address and port. When the alarm happens, the camera will automatically transfer the alarm event to the alarm server. If the alarm server is not used, there is no need for you to configure here.

5.5 Network Configuration

5.5.1 TCP/IPv4

Go to Config ⑦ Network ⑦ TCP/IPv4. There are two ways for network connection.

IP Config
PPPoE Config
IP Change Notification Config

☒ Obtain an IP address automatically

☐ Use the following IP address

IP Address

Subnet Mask

Gateway

☐ Obtain DNS server address automatically

☒ Use the following DNS server

Preferred DNS Server

Alternate DNS Server

- Use IP address. Obtain an IP address automatically by DHCP protocol or use the following IP address.
- Use PPPoE: Enter the username and password from your ISP.

IP Config
PPPoE Config
IP Change Notification Config

☒ Enable

User Name

Password

If you use PPPoE to connect internet, you will get a dynamic WAN IP address. This IP address will change frequently. You may use the IP change notification to keep up with this .

IP Config
PPPoE Config
IP Change Notification Config

☐ Trigger Email

☐ Trigger FTP

Trigger Email: When the IP address of the device is changed, a new IP address will be sent to the appointed mailbox automatically

Trigger FTP: When the IP address of the device is changed, a new IP address will be sent to FTP server.

5.5.2 Port

Go to Config➤Network➤Port.

HTTP Port	80
Data Port	9008
RTSP Port	554

HTTP port, Data port, and RTSP port can be set.

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

Data Port: The default data port is 9008. You may change as needed.

RTSP Port: The default port is 554. You may change as needed.

5.5.3 Central Server

This function is mainly used for connecting to Sibell NVMS

☐ Enable

Server Port	0
Server Address	
Device ID	1

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

5.5.4 DDNS Configuration

If your camera is setup to use PPPoE as its default network connection, DDNS should be set for network access. Before you set the DDNS, please make sure you have registered for a domain name on the DDNS server.

1. Go to Config➤Network➤DDNS.

☒ Enable

Server Type	mintdns
Server Address	www.dvrdydns.com
User Name	
Password	
Domain	

2. Apply for a domain name. Take www.dvrdydns.com for example. Input www.dvrdydns.com in the IE address bar to visit its website. Then click the “Registration” button to register as shown below.

NEW USER REGISTRATION	
USER NAME	XXXX
PASSWORD	••••• ?
PASSWORD CONFIRM	•••••
FIRST NAME	XXX
LAST NAME	XXX
SECURITY QUESTION.	My first phone number. ▼
ANSWER	XXXXXXXX
CONFIRM YOU'RE HUMAN	 New Captcha Enter the text you see above
Submit Reset	

Create domain name.

You must create a domain name to continue.

Domain name must start with (a-z, 0-9). Cannot end or start, but may contain a hyphen and is not case-sensitive.

.dvrddns.com ▼

Request Domain

After you successfully request your domain name, you will see your domain in the list.

Click a name to edit your domain settings.

NAME	STATUS	DOMAIN
654321ABC	✔	654321abc.dvrddns.com

Last Update: Not yet updated IP Address: 210.21.229.138

[Create additional domain names](#)

3. Input the username, password, and domain name you apply for in the DDNS configuration interface.
4. Click “Save” button to save the settings.

5.5.5 SNMP

To get camera status, parameters, alarm information and remotely manage the camera, you can set the SNMP function. Before using the SNMP, please download the SNMP software and set the parameters of the SNMP, such as SNMP port and trap address.

1. Go to Config Network SNMP.
2. Check the corresponding version checkbox (Enable SNMP V1, Enable SNMP V2, Enable SNMP V3) according to the version of the SNMP software you download.
3. Set the “Read SNMP Community”, “Write SNMP Community”, “Trap Address”, “Trap Port.” Please make sure the settings are the same as that of your SNMP software.

Note: Please use the different version in accordance with the security level you required. The higher the version is, the higher the level of the security is.

SNMP v1/v2

☐ Enable SNMPv1

☐ Enable SNMPv2

Read SNMP Community

Write SNMP Community

Trap Address

Trap Port

Trap community

SNMP v3

☐ Enable SNMPv3

Read User Name

Security Level

Authentication Algorithm ☒ MD5 ☐ SHA

Authentication Password

Private-key Algorithm ☒ DES ☐ AES

Private-key Algorithm

Write User Name

Security Level

Authentication Algorithm ☒ MD5 ☐ SHA

Authentication Password

Private-key Algorithm ☒ DES ☐ AES

Private-key Algorithm

Other Settings

SNMP Port

5.5.6 RTSP

Go to Config  Network  RTSP.

☒ Enable

Port	554
Address	rtsp://IP or domain name:port/profile1
	rtsp://IP or domain name:port/profile2
	rtsp://IP or domain name:port/profile3

☐ Allow anonymous viewer login (No user name or password required)

1. Select “Enable”.
2. RTSP Port: Access port of the streaming media. The default number is 554.
3. RTSP Address: The RTSP address you need to input in the media player.
4. Check “Enable anonymous viewer login...”.

5.5.7 UPnP

If you enable this function, you can quickly access the camera via LAN and you don’t need to configure the port mapping when the camera is connected to the WAN via the router.

Go to Config➤Network➤UPnP:

Select “Enable UPNP” and then input name.

☐ Enable

UPnP Name	
-----------	--

After you enable it and set the UPnP name, you will see the UPnP name by clicking “Network” on the desktop of your computer which is in the same local area network. Then double click this name to access the camera quickly.

5.5.8 E-mail

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

Go to Config➤Network ➤ Email.

Sender	
Sender Address	
User Name	
Password	
SMTP Address	
Secure Connection	Unnecessary v
SMTP Port	25 Use default
☐ Send Pictures	
Test Account Setting	

Receiver	
Receiver Address	
Clear	Delete
Add	

Sender Address: sender's e-mail address;

User name and password: sender's user name and password;

SMTP Address: SMTP server address (ex. smtp.gmailx.com).

SMTP Port: The SMTP port.

Secure connection: Select according to the smtp server authentication requirements.

Send Pictures: Check if you want to send emails with attached alarm images.

Click "Test Account Settings" to test connection.

Receiver email address: Receiver's e-mail address;

5.5.9 FTP

After you set the FTP server, the captured pictures on an alarm will be uploaded to the FTP server.

Go to Config  Network  FTP.

Server Name
 Server Address
 Port
 User Name
 Password
 Upload path
☐ Send Pictures

Server Name : The name of the FTP.

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

Port: The port of the FTP.

Use Name and Password: The username and password are used to login the FTP.

Upload Path: The path of uploading the files.

Send Pictures: If enabled, the captured pictures will be uploaded to FTP.

5.6 Security Configuration

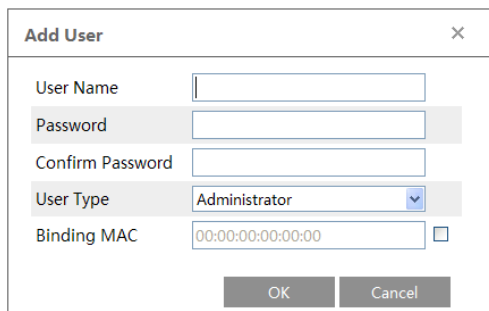
5.6.1 User Configuration

Go to Config  Security.

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

Add user:

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



Add User [X]

User Name

Password

Confirm Password

User Type Administrator [v]

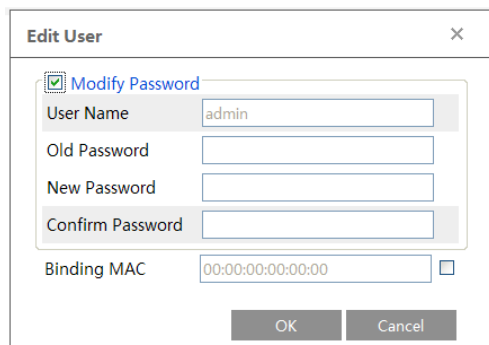
Binding MAC ☐

[OK] [Cancel]

2. Input username in “User Name” textbox.
 3. Input letters or numbers in “Password” and “Confirm Password” textbox.
 4. Choose the user type.
 5. Input the MAC address of the PC in “Binding MAC address” textbox.
- After binding physical address to the IP-CAM, you can access the device on this PC only.
6. Click “OK” button and then the new added user will display in the user list.

Modify user:

1. Select the user you need to modify.
2. The “Edit user” dialog box pops up by clicking “Modify” button.



Edit User [X]

☒ **Modify Password**

User Name admin

Old Password

New Password

Confirm Password

Binding MAC ☐

[OK] [Cancel]

3. Input old password of this user in the “Password” text box.
4. Input new password in the “New password” and “Confirm Password” text box.
5. Input computer’s MAC address as required.
6. Click “OK” button to modify user’s password.

Delete user:

1. Select the user you want to delete in the user configuration list box.
2. Click “Delete” button to delete the user.

Note: The default super administrator cannot be deleted.

5.6.2 Online Video User

Go to Config➤Security➤Online Video User. You can view the user who is viewing the live video.

5.6.3 Block and Allow Lists

Go to Config➤Security➤Block and Allow Lists.

IP address filter setting
☒ Enable IP address filtering
☒ Block the following IP address ☐ Allow the following IP address

Add
Delete
0.0.0.0

Block the following MAC address
☒ Enable MAC address filtering
☒ Block the following MAC address ☐ Allow the following MAC address

Add
Delete
00:00:00:00:00:00

Save

Setting steps are as follows:

Check “Enable IP address filtering” check box.

Select “Block the following IP address” or “Allow the following IP address” and input IP address in the IP address list box and click “Add” button.

After you set the IP address or MAC address, the system will block or allow the user using the added IP address or MAC address to access the camera.

5.7 Maintenance

5.7.1 Backup & Restore

Go to Config➤Maintenance➤Backup & Restore.

Import Setting

Path

Browse...

Import Setting

Export Setting

Export Setting

Default Setting

Load default

- **Import & Export Setting:**

You can import or export the setting information from PC or to device.

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

- **Default Setting**

Click “Load default” button to restore all system settings to default status.

5.7.2 Reboot Device

Go to Config➤Maintenance➤Reboot.

Click “Reboot” button to reboot the device.

5.7.3 Upgrade

Go to Config➤Maintenance➤Upgrade. In this interface, you can upgrade system and PTZ.

Upgrade System

Path
Browse...

Upgrade

Upgrade PTZ

Path
Browse...

Upgrade

1. Click “Browse” button to select the save path of the upgrade file
2. Click “Upgrade” button to start upgrading the application program.
3. The device will restart automatically
4. After you successfully update the software, click “OK” button to close IE and then re-open IE to connect IP-Cam.

Caution! DO NOT turn off PC or close the IP-CAM during upgrade.

5.7.4 Log

To query and export log

1. Go to Config➤Maintenance➤Operation Log.

Main Type:
All log
Sub Type:
All log

Start Time:
2015-07-14 00:00:00
End Time:
2015-07-14 23:59:59

Query
Export

Index	Time	Main Type	Sub Type	User Name	Login IP
1	2015-07-14 11:15:18	Operation	Log in	admin	192.168.12.53
2	2015-07-14 11:12:02	Exception	Disconnected		192.168.12.53
3	2015-07-14 19:12:17	Exception	Disconnected		192.168.12.52

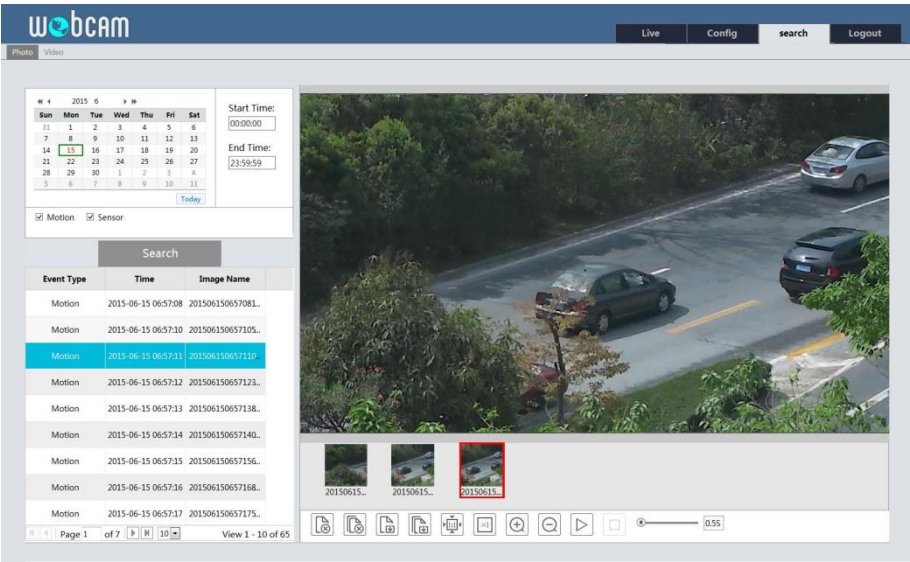
2. Select the main type, sub type, start and end time.
3. Click “Query” to view the operation log.
4. Click “Export” to export the operation log.

You can view the run log by clicking Config➤Maintenance➤Run Log.

Chapter 6 Playback

6.1 Photo Search

Click “Search” icon to search the photos saved in the SD card.



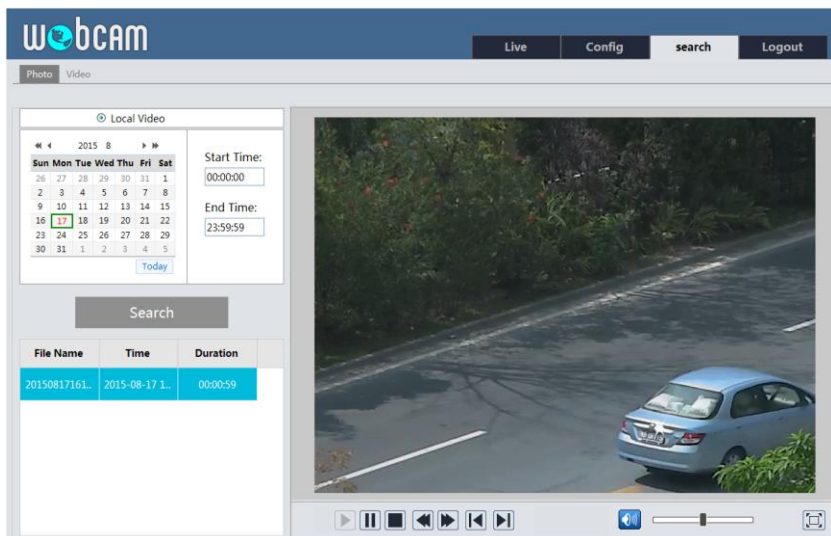
1. Set time: Select date and choose the start and end time.
2. Choose “Motion” or “Sensor”.
3. Click “Search” button to search the picture.
4. Double click a filename or select a filename to view captured pictures.

The descriptions of the icons are as follow

Item	Buttons	Explanations
1		Close: Select certain picture and click this button to close this picture.
2		Close all: Click this button to close all pictures viewing.
3		Save: Click this button to select the save path of the picture file on the PC for saving the current picture.
4		Save all: Click this button to select the save path of the picture files on PC for saving all pictures.
5		Proper size: The picture will fit on screen by clicking this button.
6		Actual size: Click this button to display the actual size of the picture as required.
7		Zoom in: Click this button to amplify the picture.
8		Zoom out: Click this button to zoom out the picture.
9		Slide show photos: Click this button to play the picture in slide show mode.
10		Stop show: Click this button to stop slide show
11		Play speed: Play speed of the slide show

6.2 Video Search

You can play the local video recording through playback interface. Before playing, please set the storage path of the video record in the local configuration interface. After that, click “Video” tab on the menu toolbar. See interface below.



Choose the date, the start time and end time and then click “Search” button to search the recording files. Double click the recording to play.
The descriptions of the buttons on the playback interface are as follows.

Button	Description
	Play button. After pausing the video, click this button to continue playing.
	Pause button.
	Stop button.
	Speed down.
	Speed up.
	Previous file
	Next file
	Full screen. Click it to display full screen. Double click to exit full screen.
	Volume.

Chapter 7 Q & A

1. Q: How do I find my password if I forget it?

Reset the system to the factory default setting or contact the dealer.

Default IP: 192.168.226.201

User name: admin

Password: 123456

2. Q : The devices can't connect through IE browser. Why?

A : It may be caused by the anti-virus and Windows Firewall/Windows Defender on your computer. Please temporarily disable and try to search device again.

3. Q : IP tool won't search devices, why?

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

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

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

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

4. Q : IE cannot download ActiveX control. Why?

① Refer to section 2.1.2, on how to configure IE settings

5. Q : No sound can be heard, why?

The audio input device is not connected. Please connect and try again.

The audio function is not enabled at the corresponding channel. Please check AUDIO input to enable this function.

6. Q: How to do when the device is unable to start normally when upgrading?

If the device is unable to start normally when upgrading, please rename the files suffixed with .tar as updatepack.tar and copy it to the root directory of SD card. Restart the device and then the device will upgrade automatically from the SD card. After finishing upgrading, the user can search the IP address of IP Cam in the IP Tool.

Appendix Preset Description

Call Preset	Call NO.90 Preset	Run track 1
	Call NO.91 Preset	Run cruise 1
	Call NO.92 Preset	Run cruise 2
	Call NO.93 Preset	Run cruise 3
	Call NO.94 Preset	Run cruise 4
	Call NO.95 Preset	OSD menu
	Call NO.97 Preset	Enable random scan
	Call NO.99 Preset	Enable P-P SCAN
	Call NO.100 Preset	Wiper ON
	Call No.101 Preset	Wiper OFF
Set Preset	Set NO. 91 Preset	Set random scan; task auto call the beginning point
	Set NO. 92 Preset	Set left border of P-PSCAN
	Set NO. 93 Preset	Set right border of P-PSCAN
	Set NO.94 Preset three times	Set the boundary value of the near and middle infrared light
	Set NO.95 Preset three times	Set the boundary value of the middle and far infrared light