



**NTCT-3M-IRPTZ20  
Hybrid PTZ Camera**

**USER MANUAL**

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## **Disclaimer**

- ▶ This manual is provided for user reference only, without legal restraint.
- ▶ This manual is available 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 in correct 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 into 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 only take IE browser (6.0) for example. The details are as follows:

### 2.1 LAN

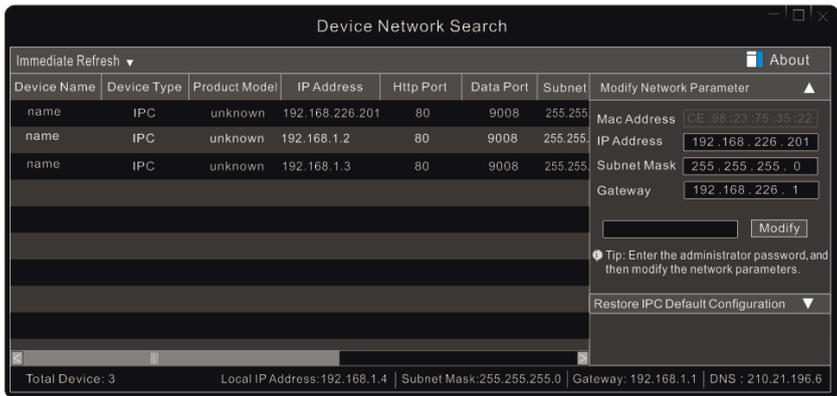
In LAN, there are two ways to access IP-Cam: 1. access through Xcel IP Utility; 2. directly access through IE browser.

#### 2.1.1 Access through Xcel IP Utility

Network connection:



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



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

Modify Network Parameter

Mac Address: CE:98:23:75:35:22

IP Address: 192.168.1.201

Subnet Mask: 255.255.255.0

Gateway: 192.168.1.1

•••••

Modify

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.

NUVICO Xcel IP-CAMERA CONFIGURATION

Name: admin

Password: \*\*\*\*\*

Stream Type: 2560x1440 30fps

Language: English

Remember me

Login

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**

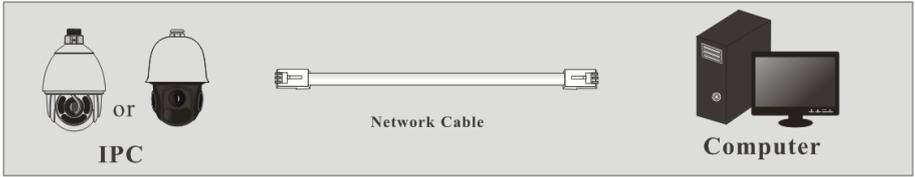
Gateway: **192.168.226.1**

HTTP: **80**

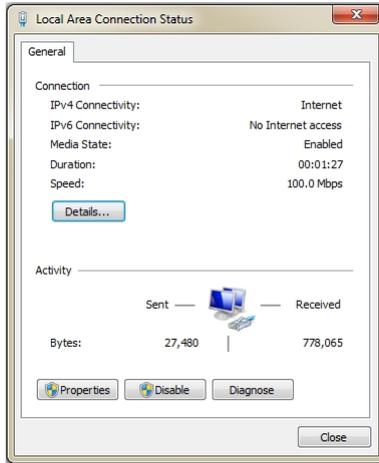
Data port: **9008**

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.

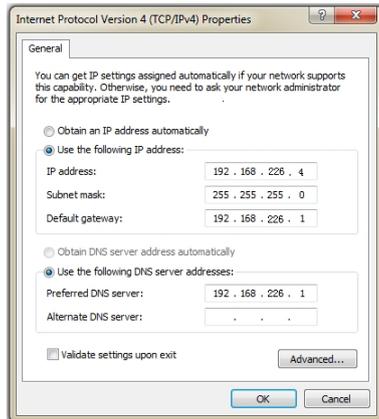
# Chapter 2 IE Remote Access



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



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

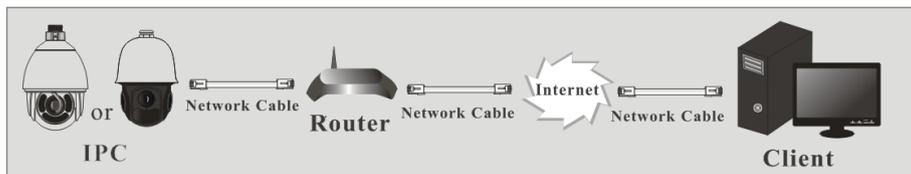


# Chapter 2 IE Remote Access

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

## 2.2 WAN

### ➤ Access through the router or virtual server



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

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

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

IP Config		PPPoE Config	IP change notification Config
<input type="radio"/> Obtain an IP address automatically			
<input checked="" type="radio"/> Use the following IP address			
IP Address	<input type="text" value="192.168.1.201"/>		
Subnet Mask	<input type="text" value="255.255.255.0"/>		
Gateway	<input type="text" value="192.168.1.1"/>		
<input type="radio"/> Obtain DNS server address automatically			
<input checked="" type="radio"/> Use the following DNS server			
Preferred DNS Server	<input type="text" value="192.168.1.1"/>		
Alternate DNS Server	<input type="text" value="8.8.8.8"/>		

# Chapter 2 IE Remote Access

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

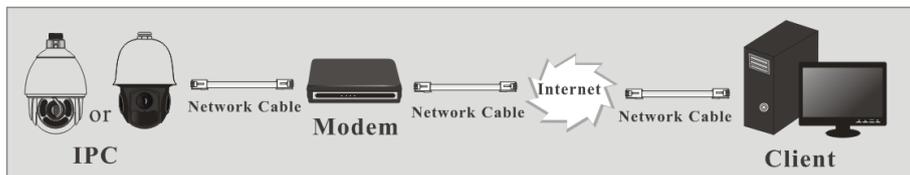
Port Range					
Application	Start	End	Protocol	IP Address	Enable
1	9007	to 9008	Both	192.168.1.201	<input checked="" type="checkbox"/>
2	80	to 81	Both	192.168.1.201	<input checked="" type="checkbox"/>
3	10000	to 10001	Both	192.168.1.166	<input type="checkbox"/>
4	21000	to 21001	Both	192.168.1.166	<input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

**Router Setup**

④ Open the IE browser and input its WAN IP and http port to access.

### ➤ Access through PPPoE dial-up

Network connection



You may access the camera through PPPoE auto dial-up. 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. Check “PPPoE Config” and then input the user name and password which you can get from your internet service provider.

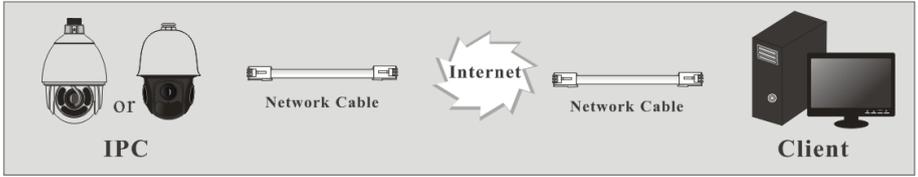
IP Config	<b>PPPoE Config</b>	IP change notification Config
<input type="checkbox"/> Enable		
User Name	<input type="text"/>	
Password	<input type="text"/>	

③ Go to Config → Network → DDNS 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

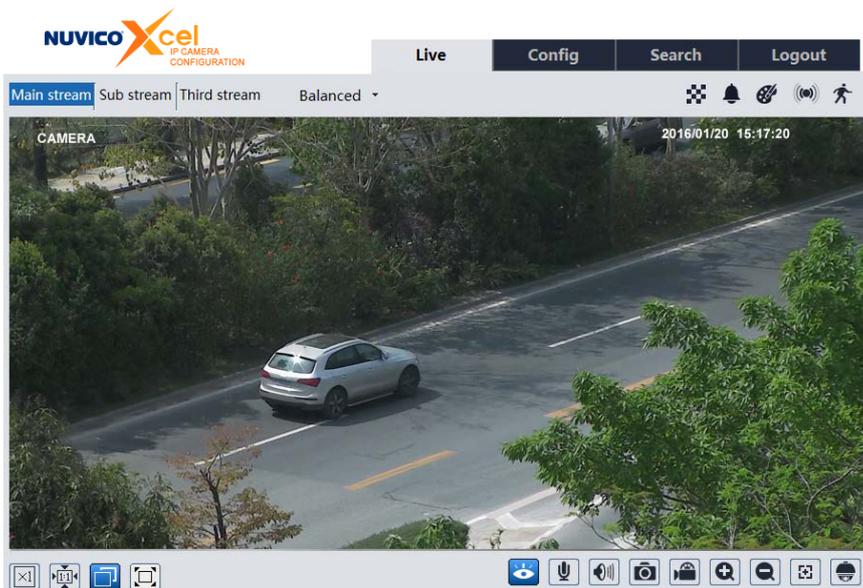


The setting steps are as follow:

- 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 icon on the remote preview interface:

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 PTZ panel.

The descriptions of the control panel are as follows:

# Chapter 3 Remote Preview

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		Radom 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 (     ).

  : To select menu by moving up and down.

 : To return to the menu on the left.

 : To confirm to enter 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: 4.0.0
- FIRMWARE: V1.06 B
- CAMERA: AR20H
- DATE: 2015-07-20
- TEMP: 35°C
- 1 RETURN
- 0 EXIT

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

# Chapter 4 Menu Setup

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. If “On” is selected, please click  button to return to the menu on the left and click  button to select Exit. Now, you will see the remote preview interface. (The ways to go to sub-menu, return or exit to the main menu in the following settings are similar to the above-mentioned steps. The following contents will not introduce it in details).

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 DOME ID:           001
3 PROTOCOL:          PELCO-P
4 BAUD RATE:         2400
5 RETURN
0 EXIT
```

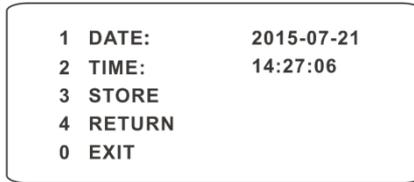
**[Dome ID]** : The available range is from 001 to 255.

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

## 4.2.5 Title Setup

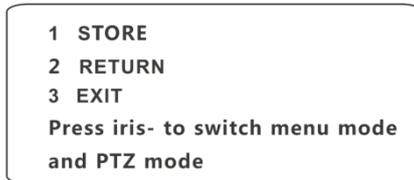
Go to System Setup→Title Setup as below:



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

## 4.2.6 North Setup

Go to System Setup→North Setup as 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 angel between the camera and horizontal ground.

## 4.2.7 New Password and Change Password

- **New Password**

1 ENTER PASSWORD:  
-----

2 CONFIRM PASSWORD  
-----

3 CONFIRM

4 RETURN

0 EXIT

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 new password.
- Password needs to be input when you log in 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→Next Page→Auto Exit Time. You may set the time to exit the menu automatically as required.

## 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
- GAMMA: DEFAU
2 CAM DEFOG: 1
- VE: OFF
- HIGH SENSI: OFF
3 RETURN
0 EXIT
```

**【BLC】** : When the background light is so stronger that the foreground is dark, the brightness of the whole image will improve thereby enhancing the visibility of the foreground image if 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】** : Reduce the noise of the brightness and chroma of the image in low illumination 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.

# Chapter 4 Menu Setup

```
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 gets. 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 noises of the image are.

- **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 → 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.

# Chapter 4 Menu Setup

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 the mode between day and night as per the ambient illumination.

❖ Night : The camera will be night mode at all time. You'd better use this mode at night.

❖ Day: The camera will be day mode at all time. You'd better use this mode in daytime.

❖ 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 sensitivity is.

### 4.3.5 Video Format

PAL or NTSC is optional.

## 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 much convenience for quick return to this position by calling preset.

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

# Chapter 4 Menu Setup

```
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 – 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

Go to Dome Function → 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.

Setting steps are as follows:

- 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 Function → Grouping 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 Function → Task Setup menu as shown below:

# Chapter 4 Menu Setup

```
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 → 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 to 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 –“ 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→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 it 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 → Dome Function → 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-” 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 → 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 Call “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, 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) ▼
	<input type="checkbox"/> DST

You can select the time zone and DST as required.

Click “Date and Time” to set the time mode .

Zone	Date and Time
Time Mode:	
<input type="radio"/> Synchronize with NTP server	
NTP server: <input type="text"/>	
<input type="radio"/> Synchronize with computer time	
Date: <input type="text" value="2015-08-17"/> Time: <input type="text" value="09:23:40"/>	
<input checked="" type="radio"/> Set manually	
Date: <input type="text" value="2015-09-17"/> <input type="button" value="📅"/> Time: <input type="text" value="09:22:22"/>	

## 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	<input type="text" value="d:\"/>	<input type="button" value="Browse"/>
Path	<input type="text" value="d:\"/>	<input type="button" value="Browse"/>
Video Sound Settings	<input type="radio"/> Open <input checked="" type="radio"/> Close	

## 5.1.4 SD Card

Go to Config→System→SD Card.

Capacity	<input type="text" value="14489 MB"/>
Used Capacity	<input type="text" value="8 MB"/>
Remaining Capacity	<input type="text" value="14481 MB"/>
State	<input type="text" value="Normal"/>
<input type="button" value="Pop Up"/> <input type="button" value="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 so on 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:



The OSD configuration interface consists of a video preview window on the left and a settings panel on the right. The video preview shows a blue car driving on a road. The settings panel includes:

- 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.



The screenshot displays a camera configuration interface. On the left, a live video feed shows a street scene with several cars. Below the feed are several control panels:

- AE Mode:** Auto
- White Balance:** Auto
- AGC:** 15
- Mirror:** Close
- Day Night Mode:** Night
- Sensitivity:** Mid

On the right, there are more advanced settings:

- BLC:** Open / Close (Close selected)
- Color Level:** 4
- Brightness:** 7
- Sharpness:** 10
- 3D DNR:** Close
- Fog:** 1
- Focus Limit:** 1M
- Zoom Display:** Checked
- Zoom Speed:** 3
- Camera Initial:** Camera Initial
- Set North:** north
- PAL/NTSC:** 50HZ

At the bottom right, there are buttons for **Default** and **Reset**.

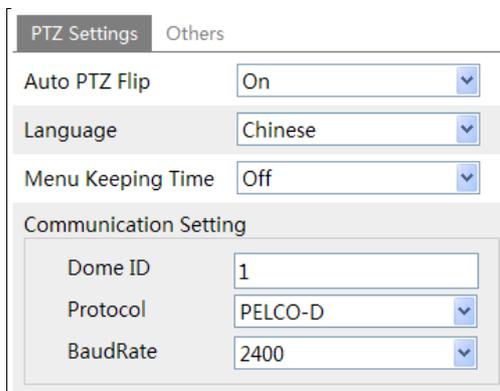
Many parameters of the camera can be set in above sub-menu, such as Color, Brightness, Sharpness, 3D DNR, Fog, Day Night Mode and so on. Please refer to Chapter 4.3 for more detail.

## 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.



The screenshot shows the PTZ Settings sub-menu with two tabs: **PTZ Settings** and **Others**. The **PTZ Settings** tab is active and contains the following options:

- Auto PTZ Flip:** On
- Language:** Chinese
- Menu Keeping Time:** Off

Below these is a section for **Communication Setting** with the following options:

- Dome ID:** 1
- Protocol:** PELCO-D
- BaudRate:** 2400

In this submenu, PTZ title, date, auto PTZ flip, language, 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 by calling preset NO. 95. Go to Config→PTZ→Setting→Others. 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 to set alarm trigger.

The screenshot shows a web-based configuration interface for Motion Detection. At the top, there are three tabs: "Alarm Config" (selected), "Area and Sensibility", and "Schedule". Below the tabs, the "Enable Alarm" checkbox is checked. The "Alarm Holding Time" is set to "20 Seconds" in a dropdown menu. Under the "Trigger Alarm Out" section, the "Alarm Out" checkbox is checked, while "Trigger Snap", "Trigger Email", and "Trigger FTP" are unchecked.

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.

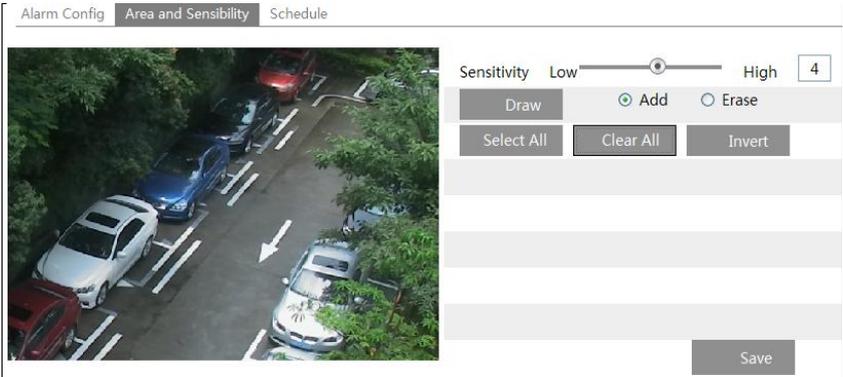
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**Trigger Snap:** If selected, the system will snap images on an alarm and save them in SD card.

**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 into those addresses.

**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 Sensibility” 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.

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

Alarm Config Area and Sensibility **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 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

Set the alarm time from Monday to Sunday for alarm everyday in one week. The lengthwise means one day of a week; the rank means 24 hours of a day. Green means selected area. Blank means unselected area.

“Add”: Add the schedule for a special day.

“Erase”: Delete holiday schedule.

## Day schedule

Set alarm time for alarm in some time of a special day, such as holiday.

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

Press the “Save” button to save the settings.

**Note: Holiday schedule is prior 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.

- 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 may use “Copy” button 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 as shown below:

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

2. Select alarm holding time and alarm name at the “Alarm Holding Time” and “Alarm Out” pull down list box respectively.
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” → “Alarm Server” interface as shown below.

Server Address	<input type="text"/>
Port	<input type="text" value="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 → Network → TCP/IPv4. There are two ways for network connection.

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

- Use IP address. There are two options for IP setup: obtain an IP address auto by DHCP protocol and use the following IP address. Please choose one of options for your requirements.
- Use PPPoE: Enter the user name and password from your ISP.

IP Config	PPPoE Config	IP Change Notification Config
<input checked="" type="checkbox"/> Enable		
User Name	<input type="text"/>	
Password	<input type="text"/>	

You can choose either way of the network connection. 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 function of IP change notification.

IP Config	PPPoE Config	IP Change Notification Config
<input type="checkbox"/> Trigger Email		
<input type="checkbox"/> 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	<input type="text" value="80"/>
Data Port	<input type="text" value="9008"/>
RTSP Port	<input type="text" value="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. Please change it as required.

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

## 5.5.3 Central Server

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

<input type="checkbox"/> Enable	
Server Port	<input type="text" value="0"/>
Server Address	<input type="text"/>
Device ID	<input type="text" value="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 set 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 a domain name on the DDNS server.

1. Go to Config→Network→ DDNS.

<input checked="" type="checkbox"/> Enable	
Server Type	<input type="text" value="mintdns"/>
Server Address	<input type="text" value="www.dvrddns.com"/>
User Name	<input type="text"/>
Password	<input type="text"/>
Domain	<input type="text"/>

2. Apply for a domain name. Take [www.dvrddns.com](http://www.dvrddns.com) for example. Input [www.dvrddns.com](http://www.dvrddns.com) in the IE address bar to visit its website. Then click “Registration” button to register as shown below.

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NEW USER REGISTRATION

USER NAME	XXXX
PASSWORD	••••• ?
PASSWORD CONFIRM	•••••
FIRST NAME	xxx
LAST NAME	xxx
SECURITY QUESTION.	My first phone number. ▾
ANSWER	xxxxxxx
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.

Search by Domain. Search

*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, domain 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 and 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, 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.

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3. Set the “Read SNMP Community”, “Write SNMP Community”, “Trap Address”, “Trap Port” and so on. 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	
<input type="checkbox"/> Enable SNMPv1	
<input type="checkbox"/> Enable SNMPv2	
Read SNMP Community	<input type="text"/>
Write SNMP Community	<input type="text"/>
Trap Address	<input type="text"/>
Trap Port	<input type="text" value="0"/>
Trap community	<input type="text"/>
SNMP v3	
<input type="checkbox"/> Enable SNMPv3	
Read User Name	<input type="text"/>
Security Level	<input type="text" value="auth, priv"/>
Authentication Algorithm	<input checked="" type="radio"/> MD5 <input type="radio"/> SHA
Authentication Password	<input type="text"/>
Private-key Algorithm	<input checked="" type="radio"/> DES <input type="radio"/> AES
Private-key Algorithm	<input type="text"/>
Write User Name	<input type="text"/>
Security Level	<input type="text" value="auth, priv"/>
Authentication Algorithm	<input checked="" type="radio"/> MD5 <input type="radio"/> SHA
Authentication Password	<input type="text"/>
Private-key Algorithm	<input checked="" type="radio"/> DES <input type="radio"/> AES
Private-key Algorithm	<input type="text"/>
Other Settings	
SNMP Port	<input type="text" value="0"/>

## 5.5.6 RTSP

Go to Config→Network→RTSP.

<input checked="" type="checkbox"/> Enable	
Port	<input type="text" value="554"/>
Address	<input type="text" value="rtsp://IP or domain name:port/profile1"/>
	<input type="text" value="rtsp://IP or domain name:port/profile2"/>
	<input type="text" value="rtsp://IP or domain name:port/profile3"/>
<input type="checkbox"/> 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 friendly name.

<input type="checkbox"/> Enable	
UPnP Name	<input type="text"/>

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	<input type="text"/>
User Name	<input type="text"/>
Password	<input type="text"/>
SMTP Address	<input type="text"/>
Secure Connection	<input type="text" value="Unnecessary"/>
SMTP Port	<input type="text" value="25"/> <input type="button" value="Use default"/>
<input type="checkbox"/> Send Pictures	
<input type="button" value="Test Account Setting"/>	
Receiver	
<input type="text"/>	
Receiver Address	<input type="text"/>
<input type="button" value="Clear"/> <input type="button" value="Delete"/> <input type="button" value="Add"/>	

Sender Address: sender's e-mail address;

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

SMTP Address: The SMTP IP address or host name.

Select the secure connection type at the Secure Connection pull down list according to user's actual needs;

SMTP Port: The SMTP port.

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

Click "Test Account Settings" to test the effectiveness of the account.

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	<input type="text"/>
Server Address	<input type="text"/>
Port	<input type="text" value="0"/>
User Name	<input type="text"/>
Password	<input type="text"/>
Upload path	<input type="text"/>
<input type="checkbox"/> Send Pictures	
<input type="button" value="Test"/> <input type="button" value="Save"/>	

Server Name: The name of the FTP.

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

Port: The port of the FTP.

User 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

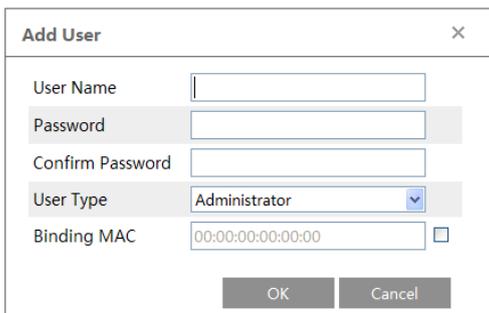
### 5.6.1 User Configuration

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.



The 'Add User' dialog box is a standard Windows-style window with a title bar containing the text 'Add User' and a close button (X). The main area contains several input fields: 'User Name' (text box), 'Password' (text box), 'Confirm Password' (text box), 'User Type' (dropdown menu showing 'Administrator'), and 'Binding MAC' (text box with the value '00:00:00:00:00:00' and a checkbox). At the bottom, there are two buttons: 'OK' and 'Cancel'.

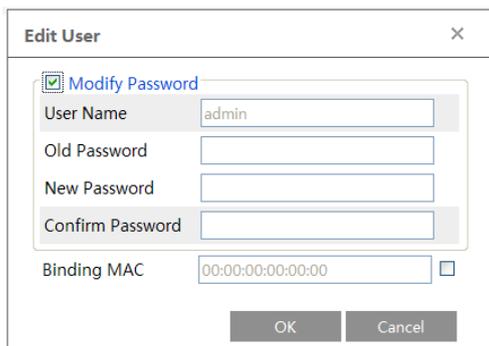
2. Input user name in “User Name” textbox.
3. Input letters or numbers in “Password” and “Confirm Password” textbox.
4. Choose the use type.
5. Input the MAC address of the PC in “Binding MAC address” textbox.

After binding physical address to the IP-CAM, you can access the device on this PC only. If the MAC address was “00:00:00:00:00:00” which means it can be connected to any computers.

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 password and physical address in the user configuration list box.
2. The “Edit user” dialog box pops up by clicking “Modify” button.



The 'Edit User' dialog box is a standard Windows-style window with a title bar containing the text 'Edit User' and a close button (X). The main area contains a checked checkbox labeled 'Modify Password'. Below it are input fields: 'User Name' (text box with the value 'admin'), 'Old Password' (text box), 'New Password' (text box), and 'Confirm Password' (text box). At the bottom, there is a 'Binding MAC' field (text box with the value '00:00:00:00:00:00' and a checkbox) and two buttons: 'OK' and '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.

The image shows two configuration panels. The top panel is titled "IP address filter setting" and contains a checked checkbox for "Enable IP address filtering". Below it are two radio buttons: "Block the following IP address" (selected) and "Allow the following IP address". There is a large empty list box on the left, and on the right, there are "Add" and "Delete" buttons, and a text input field containing "0.0.0.0". The bottom panel is titled "Block the following MAC address" and contains a checked checkbox for "Enable MAC address filtering". Below it are two radio buttons: "Block the following MAC address" (selected) and "Allow the following MAC address". There is a large empty list box on the left, and on the right, there are "Add" and "Delete" buttons, and a text input field containing "00:00:00:00:00:00". A "Save" button is located at the bottom right of the second panel.

Setting steps are as follows:

Check “Enable IP address filtering” check box.

Select “Block the following IP address”, input IP address in the IP address list box and click “Add” button. The operation step of “Allow the following IP address” and MAC address filter settings are the same with “Block the following IP address”.

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.

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

- Import Setting:** Contains a text input field labeled "Path" followed by a "Browse..." button, and a button labeled "Import Setting" below it.
- Export Setting:** Contains a button labeled "Export Setting".
- Default Setting:** Contains a button labeled "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.

The screenshot displays a web-based configuration interface for upgrading:

- Upgrade System:** Contains a text input field labeled "Path" followed by a "Browse..." button, and a button labeled "Upgrade" below it.
- Upgrade PTZ:** Contains a text input field labeled "Path" followed by a "Browse..." button, and a button labeled "Upgrade" below it.

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! You can't disconnect to 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:	<input type="text" value="All log"/>	Sub Type:	<input type="text" value="All log"/>		
Start Time:	<input type="text" value="2015-07-14 00:00:00"/>	End Time:	<input type="text" value="2015-07-14 23:59:59"/>	<input type="button" value="Query"/>	<input type="button" value="Export"/>
Index	Time	Main Type	Sub Type	User Name	Login IP
1	2015-07-14 11:15:18	Operation	Log in	admin	192.168.12.53
2	2015-07-14 11:12:02	Exception	Disconnected		192.168.12.53
3	2015-07-14 19:12:17	Exception	Disconnected		192.168.12.52

2. Select the main type, sub type, start and end time.

3. Click “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.

The screenshot shows the NUVICO Xcal camera interface. At the top, there are navigation tabs for "Photo" and "Video", and a menu bar with "Live", "Config", "search", and "Logout".

On the left side, there is a calendar for June 2015. Below the calendar are search filters for "Motion" and "Sensor". A "Search" button is located below the filters.

The search results table is as follows:

Event Type	Time	Image Name
Motion	2015-06-15 06:57:08	201506150657081...
Motion	2015-06-15 06:57:10	201506150657105...
Motion	2015-06-15 06:57:11	201506150657110...
Motion	2015-06-15 06:57:12	201506150657123...
Motion	2015-06-15 06:57:13	201506150657138...
Motion	2015-06-15 06:57:14	201506150657140...
Motion	2015-06-15 06:57:15	201506150657156...
Motion	2015-06-15 06:57:16	201506150657168...
Motion	2015-06-15 06:57:17	201506150657175...

The main video feed on the right shows a parking lot with several cars. Below the video feed is a thumbnail gallery with three thumbnails. The third thumbnail, labeled "20150615...", is highlighted with a red border.

At the bottom, there is a navigation bar with "Page 1 of 7", "View 1 - 10 of 65", and various playback controls including a zoom slider set to 0.55.

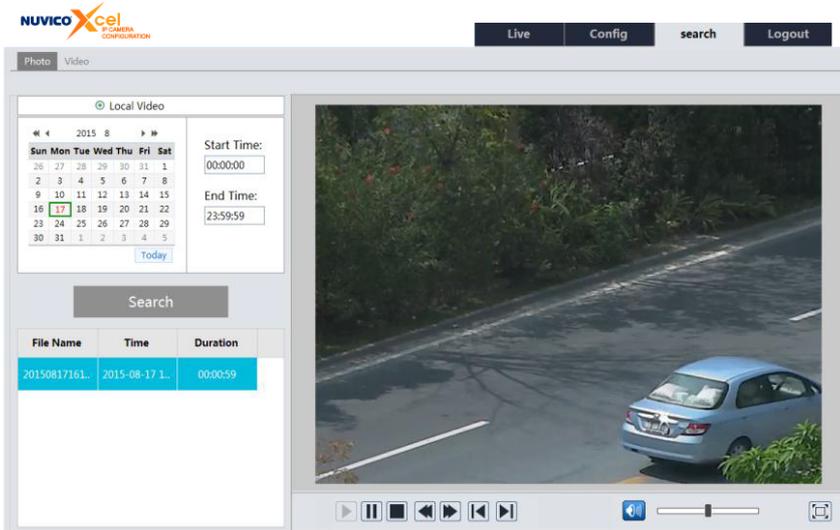
1. Set time: Select date and choose the start and end time.
2. Choose “Motion” or “Sensor”.
3. Click “Search” button to search the picture.
4. Double click a filename or select a filename to view captured pictures.

The descriptions of the icons are as follows.

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

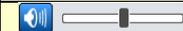
## 6.2 Video Search

You can play the local video record through playback interface. Before playing, please set the storage path of the video record in the local configuration interface and make sure there are record files. After that, click “Video” tab on the menu toolbar. The following interface will be seen.



Choose the date and the start time and end time and then click “Search” button to search the record files. Double click the record file to play the record.

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: I forget the password. How can I do?

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?

- ① Network is not connected well. Please check the connection and make sure it is connected well.
- ② IP is not available. Reset the valid IP.
- ③ Web port number has been revised: contact administrator to get the correct port number.
- ④ Exclude the above reasons. Restore the default settings with Xcel IP Utility.

Note: The default IP: 192.168.226.201, mask number: 255.255.255.0

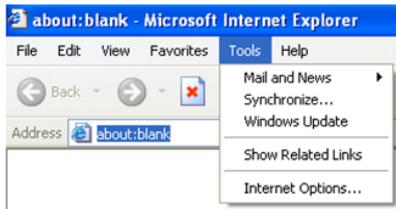
### 3. Q : Xcel IP Utility cannot search devices. How can I do?

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

### 4. Q : IE cannot download ActiveX control. How can I do?

IE browser blocks ActiveX. Please do setup following below.

- ① Open IE browser. Click Tools-----Internet Options....



- ② Select Security-----Custom Level... Refer to Fig 4-1.
- ③ Enable all the sub options under "ActiveX controls and plug-ins". Refer to Fig 4-2.

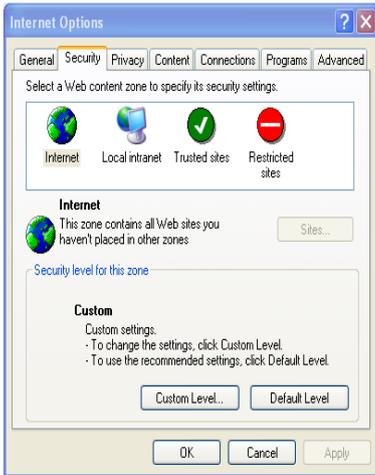


Fig 4-1

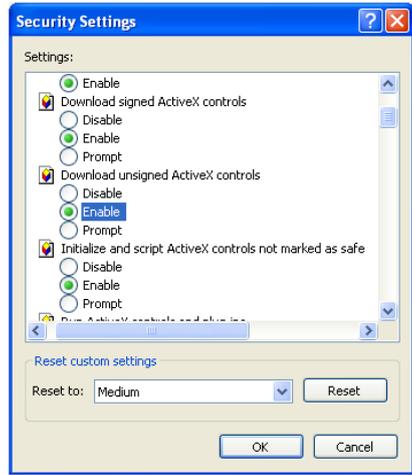


Fig 4-2

④ Then click OK to finish setup.

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

## 5. Q : Why does the device fail to sound?

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 item 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 Xcel IP Utility.

## 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