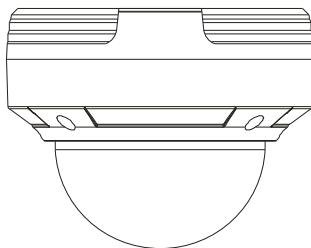


Water-Proof Network Camera

User Manual



TeleEye

MP221E-HD

Please read this manual carefully for correct use of the product.

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.
- This is product instructions not quality warranty. We may reserve the rights of amending the typographical errors, inconsistencies with the latest version, software upgrades and product improvements, interpretation and modification. These changes will be published in the latest version without special notification.
- When this product is in use, the relevant contents of Microsoft, Apple and Google will be involved in. The pictures and screenshots in this manual are only used to explain the usage of our product. The ownerships of trademarks, logos and other intellectual properties related to Microsoft, Apple and Google belong to the above-mentioned companies.
- This manual is suitable for water-proof network camera. All pictures and examples used in the manual are for reference only.

Table of Contents

1	Introduction	1
1.1	Summarization.....	1
1.2	Check Package Content.....	1
1.3	Overview	2
2	Installation.....	3
2.1	Install IP-CAM to Ethernet Network.....	3
2.2	Install CMS	4
3	IE Remote Access.....	5
3.1	LAN.....	5
3.1.1	Access through IP-Tool.....	5
3.1.2	Directly Access through IE	6
3.2	WAN.....	7
4	Remote Preview	9
4.1	The Remote Preview Interface	9
4.2	Record Playback.....	10
4.3	Snap Pictures	10
5	Remote Live Surveillance.....	12
5.1	System Configuration	12
5.1.1	Basic Information	12
5.1.2	Date & Time Configuration	12
5.2	Video Configuration	13
5.2.1	Camera Configuration.....	13
5.2.2	Video Stream.....	14
5.2.3	OSD Configuration	14
5.2.4	Video Mask.....	15
5.2.5	ROI Configuration	16
5.3	Alarm Configuration	17
5.3.1	Motion Detection Area.....	17
5.3.2	Motion Detection Trigger.....	17
5.3.3	Motion Detection Schedule.....	18
5.4	Network Configuration.....	19
5.4.1	Port.....	19
5.4.2	Wired	19
5.4.3	Server Configuration.....	20
5.4.4	IP Notify	20
5.4.5	DDNS Configuration	21
5.4.6	RTSP.....	22
5.4.7	UPnP.....	22
5.4.8	Mail Setting	23
5.4.9	FTP	23
5.5	Advanced Configuration.....	24
5.5.1	User Configuration.....	24

5.5.2	Security Configuration.....	25
5.5.3	Configure Backup & Restore.....	26
5.5.4	Reboot Device.....	27
5.5.5	Upgrade.....	27
6	Q & A.....	28
7	Specification	30

1 Introduction

1.1 Summarization

This IP-CAMERA (short for IP-CAM) is designed for high performance CCTV solutions. It adopts state of the art video processing chips. It utilizes most advanced technologies, such as video encoding and decoding technology, complies with the TCP/IP protocol, SoC, etc to ensure this system more stable and reliable. This unit consists of two parts: the IP-CAM device and central management software (short for CMS). The CMS centralizes all devices together via internet or LAN and establishes a sound surveillance system to realize unified management and remote operation to all devices in one network.

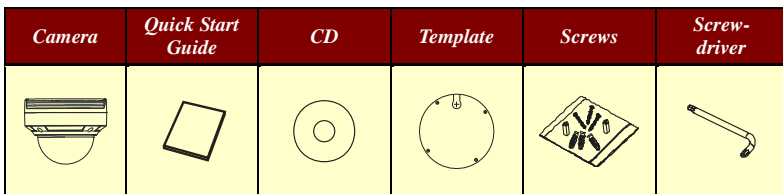
This product is widely used in banks, telecommunication systems, electricity power departments, law systems, factories, storehouses, uptowns, etc. In addition, it is also an ideal choice for surveillance sites with middle or high risks.

Main Features

- 1080P (1920 × 1080) full real time coding
- Max. resolution: 1920 × 1080
- ICR auto switch, true day/night
- 3D DNR, digital WDR
- ROI coding
- Support defog
- PoE power supply
- Support smart phone, iPad, remote monitoring
- Support P2P (NET Traversal)

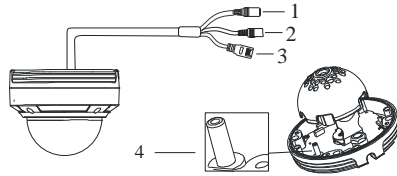
1.2 Check Package Content

The pictures below are only for reference. Please make the object as the standard.



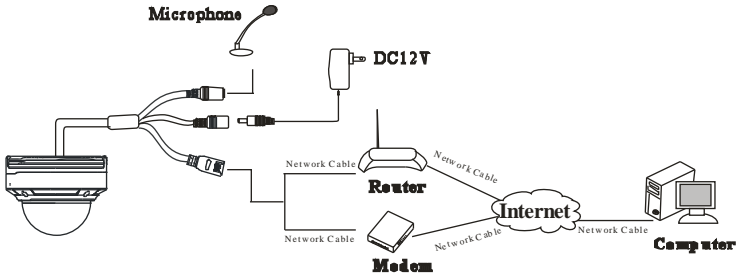
Accessories	Description
IP-CAMERA	The device without Lens
Quick Start Guide	The Brief instructions of the product
CD	CD-ROM with software and manual
Template/Screws/Screwdriver	For installation

1.3 Overview



1	MIC IN Cable	3	Network Cable
2	Power Cable	4	CVBS Video Output

Cable Connections



2 Installation

2.1 Install IP-CAM to Ethernet Network

Before you start, please make sure that the wall is strong enough to withstand three times the weight of the camera and check whether the power supply is in conformity with your AC outlet. The mounting steps are as follows:

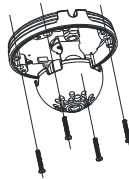
- ① Attach the drill template to the place where you want to fix the camera and then drill 3 screw holes according to the drill template.



- ② Loosen the screws to open the lower dome.



- ③ Route and connect the cables. Then secure the camera to the ceiling or wall with screws as shown below.



- ④ Install the lower dome back to the camera and secure it with the screws. Then remove the protection film softly to complete the installation.



2.2 Install CMS

Find CMS software from CD and then double click “Setup.exe” file to pop up installation wizard. Install the software according to the prompts in the wizard. After you complete the installation, you will see the CMS and IP-Tool icon on the desktop. Please see the user manual of this software for more details.

If you need to install IP-Tool separately, please double click IP-Tool installation package and install it according its wizard prompts. After you finish installing, double click IP-Tool icon to start IP-Tool.

3 IE Remote Access

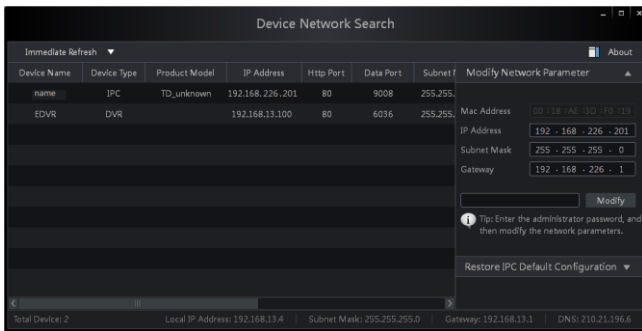
IP-CAM can be connected through LAN or WAN. Here only take IE browser (6.0) for example. The details are as follows:

3.1 LAN

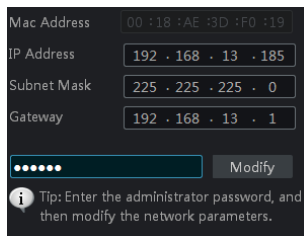
In LAN, there are two ways to access IP-CAM: 1. Access through IP-Tool; 2. Directly access through IE browser.

3.1.1 Access through IP-Tool

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



- ③ Modify the IP address. 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.



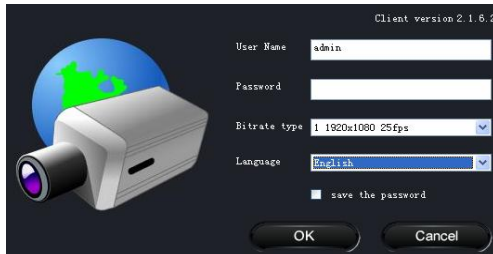
For example, the IP address of your computer is 192.168.13.4. So the IP address of the camera shall be changed to 192.168.13.X. After modification, please input the password of the

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.



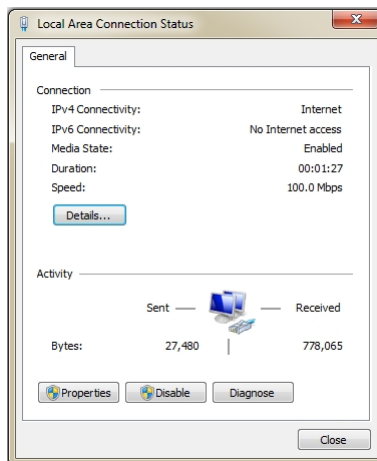
Input the username and password to log in.



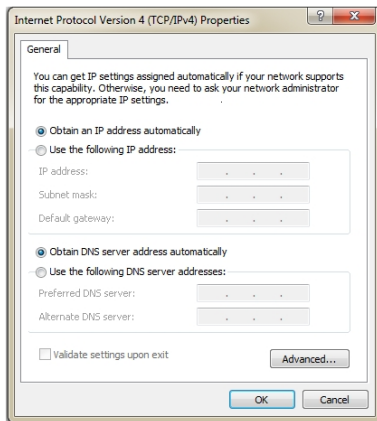
The default username is “**admin**”; the default password is “**123456**”.

3.1.2 Directly Access through IE

① Manually set the IP address of the PC and 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 “Property” and then select internet protocol according to the actual situation (for example: IPV4). Next, click “Property” button to set the network of the PC.



- 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.

3.2 WAN

Take access the camera by the router or virtual server for example

- ① Make sure the camera is well connected via LAN and then log in the camera via LAN and go to the Config→Network Config→Port menu to set up the port number.
- ② Go to Config →Network Config→Wired menu to modify the IP address.
- 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”.

Network basic config	
HTTP Port	<input type="text" value="80"/>
Data Port	<input type="text" value="1024"/>
RTSP Port	<input type="text" value="554"/>

Port Setup

IP Config	
<input checked="" type="radio"/> Obtain an IP address automatically	
<input type="radio"/> Use the following IP address	
IP Address	<input type="text" value="192.168.12.153"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.12.1"/>
<input checked="" type="radio"/> Obtain DNS server address automatically	
<input type="radio"/> Use the following DNS server	
Preferred DNS server:	<input type="text" value="192.168.225.1"/>
Alternate DNS server:	<input type="text" value="8.8.8.8"/>

IP Setup

Port Range						
Application	Start	End	Protocol	IP Address	Enabl	
1	9008	to 9008	Both	192.168.6.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	80	to 81	Both	192.168.6.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	10000	to 10001	Both	192.168.6.166	<input type="checkbox"/>	<input type="checkbox"/>
4	21000	to 21001	Both	192.168.6.156	<input type="checkbox"/>	<input type="checkbox"/>
5	7777	to 7778	Both	192.168.6.206	<input type="checkbox"/>	<input type="checkbox"/>
6	1029	to 1030	Both	192.168.6.207	<input type="checkbox"/>	<input type="checkbox"/>

Router Setup

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

4 Remote Preview

4.1 The Remote Preview Interface



Remote Preview

1	People icon	6	Full screen
2	Fix size	7	Start recording
3	Actual size	8	Playback
4	Zoom in	9	Snap
5	Zoom out	10	Enable audio

- When motion detection alarm is triggered, the people icon turns red.

Right click to pop up a pull-down list as shown below:

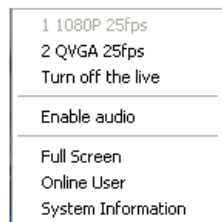
Stream: Two streams are optional.

Turn off the live: Click this item will close present live preview.



Full screen: The live preview picture will full-screen display. Double click or click right mouse to return to the previous interface.

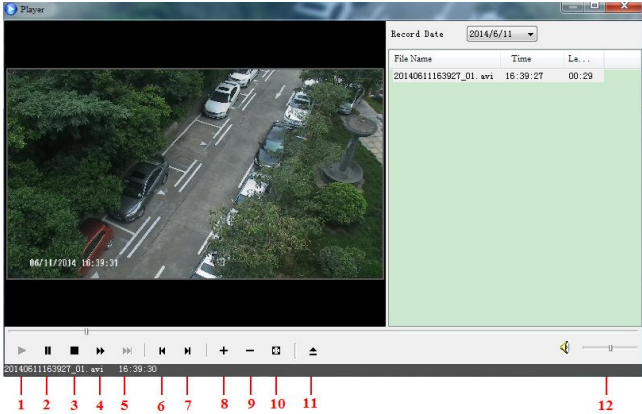
Online user: Display the current user connecting to the device.

System information: Display the device information: device name, firmware version, software build date, kernel version and hardware version.




4.2 Record Playback

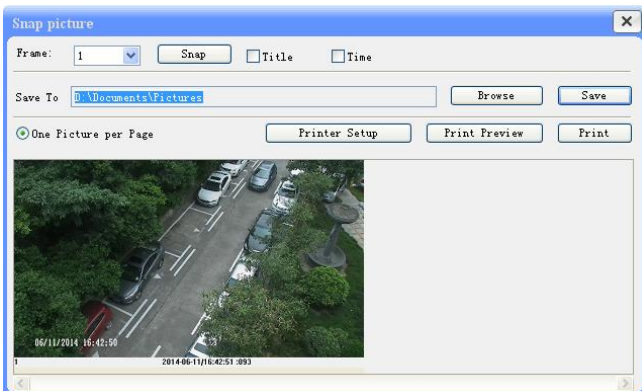
Before you play the record files, please make sure you have recorded. You make click  button to record. Then click  button to pop up a video player. Double click the record file to play the video as shown below.



1	Play	5	Next frame	9	Zoom out
2	Pause	6	The previous file	10	Full screen
3	Stop	7	The next file	11	Path
4	Forward	8	Zoom in	12	Volume

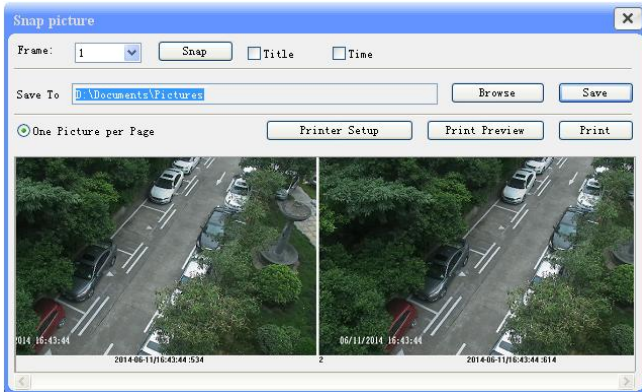
4.3 Snap Pictures

Select the picture number, and then click “Snap”  icon as shown below.



Single Snap

User can snap multiple pictures. Select the picture number from Frame pull down list box, such as 2, and check “Title” and “Time” to show capture title and time on the snap pictures simultaneously.



Multi-picture Snap

Click “Browse” to set saving path. Click “Save” to save pictures to HDD on the computer; Click “Printer setup” to set the printer and print the snap pictures; drag the scroll bar to view all snapped pictures.

5 Remote Live Surveillance

Functions of remote configurations include: System Configuration, Video Configuration, Alarm Configuration, Network Configuration and Advanced Configuration. User should firstly select the menu on the left, and then set the relative parameters. When a user set the parameters of a certain device, other users can not set this device.

5.1 System Configuration

The “System configuration” includes two submenus: Basic Information and Date & Time.

5.1.1 Basic Information

In the basic information interface, user can set up the device name and also can check the relative information of the server

Setting steps:

1. Clicking the “Config” icon will appear the menu list.
2. Clicking the “Basic Information” will pop up a window as shown below.
3. Input the name of the device in the “Device name” text box.
4. Press the “Save” button to save the settings.

The screenshot shows the 'System Information' configuration window. It contains several input fields for system details:

Software Version	3.4.1	Software Build Date	2014-7-29 (YYYY-MM-DD)
Kernel Version	20131023	Hardware Version	1.3
MAC	00:18:AE:3D:EF:3F	Onvif Version	2.3
Device name	9421M	Maximum number of	4

5.1.2 Date & Time Configuration

Setting steps:

1. Go to “System Configuration” → “Date & Time”.

The screenshot shows the 'Date and Time setting' window. It includes the following configuration options:

- Time Zone:** A dropdown menu set to 'GMT+08 (Beijing, Hong Kong, Shanghai, Taipei)'. Below it is an unchecked checkbox for 'DST Enable'.
- Timing mode:** A section with two radio buttons: 'Manual' (selected) and 'NTP'.
 - Under 'Manual', there are 'Set Time' fields for date (2014-6-14) and time (11:30:59), and an unchecked checkbox for 'PC time'.
 - Under 'NTP', there is an 'NTP Server' text box containing 'time.windows.com'.

2. Set time zone.
3. Enable DST mode as required.
4. Set time. You may set time manually or enable NTP.

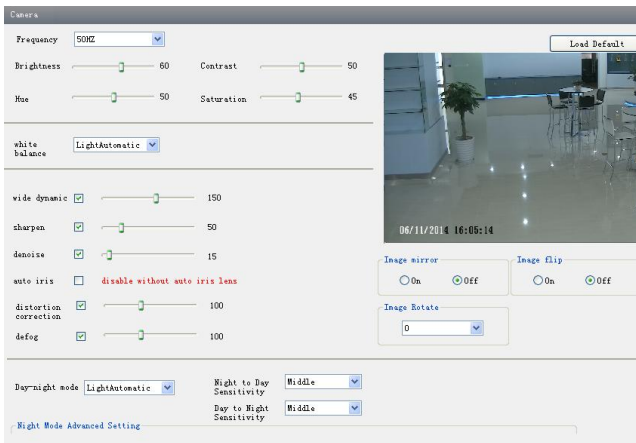
5.2 Video Configuration

Camera Configuration includes five submenus: Camera Configuration, Video Stream, OSD Config, Video Mask and ROI Config.

5.2.1 Camera Configuration

Setting steps:

1. Go to “Video Configuration” → “Camera” interface as shown below.



2. You may adjust brightness, contrast, hue and saturation of the picture.
3. Select white balance mode.
4. Wide dynamic, sharpen, denoise, distortion correction mode and defog are adjustable.
5. You can also set day-night mode and enable the image mirror and image overturn function.
6. You may set up image rotation.
7. 2D denoise, 3D denoise, digital gain, analog gain and frequency are adjustable.
8. Press the “Save” button to save the settings.



Before distortion correction



After distortion correction

5.2.2 Video Stream

Go to “Video configuration” → “Video Stream” to see an interface as shown below.

	Resolution	Frame rate	Bitrate type	Video quality	Bitrate	I Frame Interval	Video Encoding Profile
1	1920x1080	25	CBR	Highest	6144 Kbps	100	H264 Base Line
2	704x576	25	CBR	Highest	1024 Kbps	100	H264 Base Line

Alarm Picture Size: 704x576

Audio Encoding: G.711A

Audio In Type: L18

Video encode slice split

Three video streams can be adjustable.

Resolution: The higher the resolution is, the clearer the image is.

Frame rate: The higher the frame rate is, the more fluency the video is. However, more storage room will be taken up.

Bitrate type: Including CBR and VBR. CBR means that no matter how changeable the video resources are, the compression bitrate keeps constant. This will not only facilitate the image quality better in a constant bitrate but also help to calculate the capacity of the recording. VBR means that the compression bitrate can be adjustable according to the change of the video resources. This will help to optimize the network bandwidth.

Video Quality: When VBR is selected, you need to choose image quality. The higher the image quality you choose, the more bitrate will be required.

Bitrate: Please choose it according to the actual network situation.

I Frame interval: It is recommended to use the default value. If the value is over high, the read speed of the group of pictures will be slow resulting in the quality loss of the video.

Video encoding profile: Baseline and main profile are optional. Baseline profile is mainly used in interactive application with low complexity and delay. Main profile is mainly used for higher coding requirement.

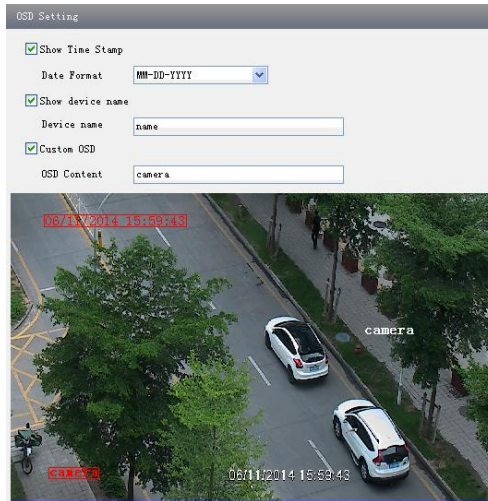
Alarm picture size: Please select it according to the actual situation.

Video encode slice split: If enabled, you may get more fluency image even though using the low-performance PC.

5.2.3 OSD Configuration

Go to “Video Config” → “OSD Config” menu to display the interface as shown below.

You may set time stamp, device name and custom OSD here. Drag the time stamp and custom OSD to set their position. Then press the “Save” button to save the settings.



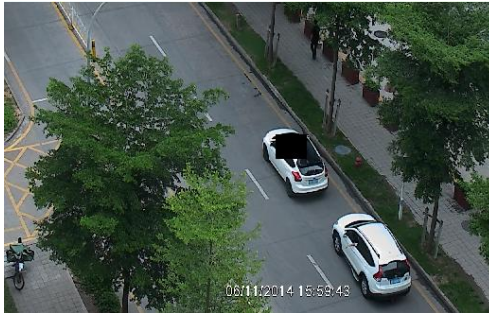
5.2.4 Video Mask

You can set 4 mask areas at most.



To set up video mask

1. Enable video mask and select mask color.
2. Click “Draw” button and then drag the mouse to draw the video mask area.
3. Click “Save” button to save the settings.
4. Return to the live to see the following picture.



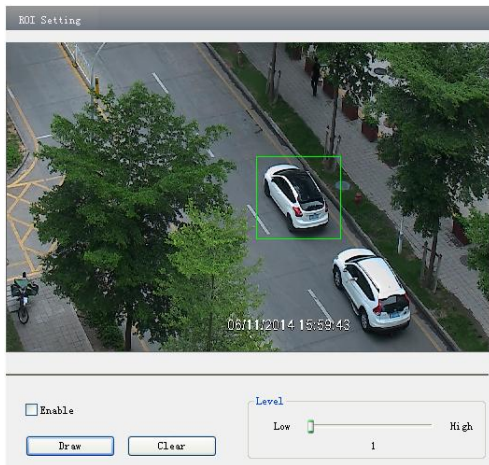
Clear the video mask:

Go to video mask menu and then click “Clear” button to delete the current video mask area.

5.2.5 ROI Configuration

To set up ROI

1. Go to Config→ROI Config menu.



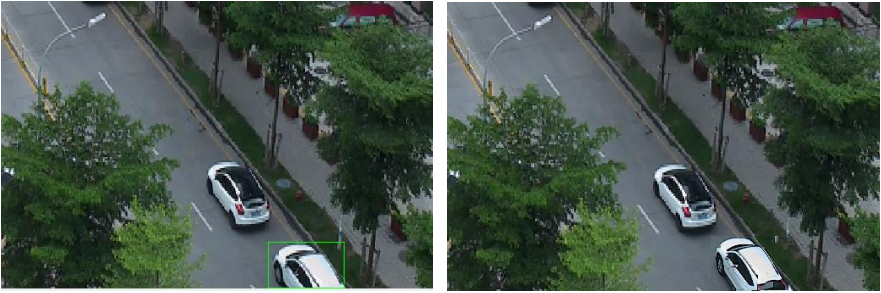
2. Check “Enable” and then click “Draw” button.

3. Drag the mouse to set the ROI area. You may set 8 ROI areas at most.

4. Set the level.

5. Click “Save” button to save the settings.

Now, you will see the selected ROI area is clearer than other areas especially in low bitrate condition.

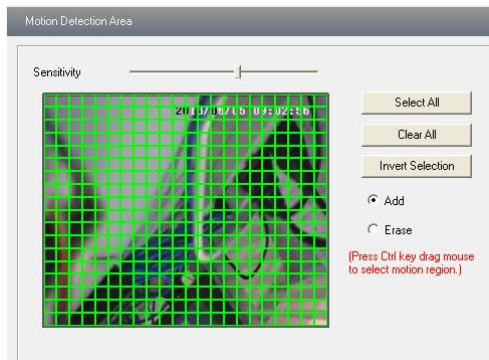


5.3 Alarm Configuration

Alarm configuration includes three submenus: Motion Detection Area, Motion Detection Trigger and Motion Detection Schedule.

5.3.1 Motion Detection Area

1. Go to “Alarm configuration” → “Motion Detection Area” to see an interface as shown below.
2. Move the “Sensitivity” scroll bar to set up the motion trace sensitivity.
3. Check “Add”, press the “Ctrl” button and move mouse to select the motion detection area; Select “Erase” and move the mouse to clear all motion detection area.
4. Press the “Save” button to save the settings.



5.3.2 Motion Detection Trigger

1. Go to “Alarm Configuration” → “Motion Detection Trigger” to display an interface as shown below.

2. Check “Enable alarm” check box. Then all functions under this interface will be activated.
3. Trigger Email: Check “Attach picture” and select email addresses in the “Receive email address” text box (Email address shall be set first in the Mail config interface). Then the triggered snap pictures will be sent into those addresses. User can also define the subject and content of the email.
4. Trigger FTP: Check “Uploading picture”. Then the triggered snap pictures will be sent into FTP server address.

Note: Please refer to FTP configuration chapter for more details.

6. Press the “Save” button to save the settings.

5.3.3 Motion Detection Schedule

Go to “Alarm configuration” → “Motion Detection schedule” interface as shown below.

Week schedule

User could set the alarm time from Monday to Sunday for alarm everyday in one week.

Note: The lengthwise means one day of a week; the rank means 24 hours of a day. Click on the pane to set the alarm hours. Green means selected area. Blank means unselected area.

Add: Add the schedule for a special day.

Erase: Delete holiday schedule.

Day schedule

User could set alarm time for alarm at a certain time of special day, such as holiday.

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 prior to Week schedule.

Motion schedule setting

Erase Add

Week Schedule

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
Sunday																								
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
Monday																								
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
Tuesday																								
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
Wednesday																								
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
Thursday																								
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
Friday																								
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
Saturday																								

Holiday Schedule

Date: 12/17/2009

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
Holiday																								

5.4 Network Configuration

Network configuration includes eight submenus: Port, Wired, Server Configuration, IP Notify, DDNS Config, RTSP, UPnP, Mail Setting and FTP.

5.4.1 Port

1. Go to “Network config”→ “Port” to see the interface as shown below.

Network basic config

HTTP Port	<input type="text" value="80"/>
Data Port	<input type="text" value="1024"/>
RTSP Port	<input type="text" value="554"/>

2. Input port number for IE access in the “HTTP Port” textbox.
3. Input the port number for audio & video transmission in the “Data Port” textbox.

5.4.2 Wired

1. Go to “Network Configuration”→ “Wired” to see a tab shown below.
2. There are two options for IP setup: obtain an IP address auto by DHCP protocol and use the following IP address. You may choose one of options as required.
3. Use the following IP address: display the IP address, subnet mask, gateway and DNS of the device.

The screenshot shows two configuration sections. The top section, titled "IP Config", has two radio button options. The first option, "Obtain an IP address automatically", is selected. The second option, "Use the following IP address", is unselected and has input fields for IP Address (192.168.15.24), Subnet Mask (255.255.255.0), and Gateway (192.168.15.1). Below this, there are two more radio button options for DNS configuration. The first, "Obtain DNS server address automatical", is selected. The second, "Use the following DNS server", is unselected and has input fields for Preferred DNS server (192.168.226.1) and Alternate DNS server (8.8.8.8). The bottom section, titled "PPPoE Config", has a checkbox for "PPPoE" which is unchecked. Below the checkbox are input fields for "User Name" and "Password".

4. PPPoE: User needs to manual input the user name and password for dial-up internet. Firstly, log in IE clients and then enter user name and password of PPPoE, save the setting and exit. Secondly, set up IP address change notice. Thirdly, connect with Modem. Then the device will dial up internet automatically.
5. Press the “Save” button to save the settings.

5.4.3 Server Configuration

Go to “Network Configuration”→ “Server Config”.

The screenshot shows the "Server Config" web interface. It features a checked checkbox labeled "Do you want IPCamera to connect Server". Below this are three input fields: "Server Address" (empty), "Server Port" (containing the number 0), and "Device ID" (containing the number 1).

1. Check “Do you want IP Camera to connect Server”.
2. Check the IP address and port of the transfer media server in the CMS/NVMS. Then enable the auto report in the CMS/NVMS when adding a new device. Next, self-define the device ID and input the remaining information of the device in the CMS/NVMS.
3. Input the above-mentioned server IP, server port and device ID in the responding boxes.
4. Click “Save” button to save the settings.

5.4.4 IP Notify

1. Go to “Network Configuration”→ “IP Notify” to see a tab as shown below.

2. If the “Enable notifying change of IP” is selected, when the IP address of the device is changed, a new IP address will be sent to the appointed mailbox automatically; If “FTP” is selected, when the IP address of the device is changed, a new IP address will be sent to FTP server.

IP change notification

Enable notifying change of IP FTP

Receival email address Server address

5.4.5 DDNS Configuration

1. Go to “Network Configuration” → “DDNS Configuration” tab as shown below.

DDNS config

Enable DDNS

DDNS Server Type www.dyndns.com

User Name

Password

Domain

2. Apply for a domain name. Take www.dvrddns.com for example.

Input www.dvrddns.com in the IE address bar to visit its website. Then click “Registration” button to register as shown below.

NEW USER REGISTRATION

USER NAME

PASSWORD

PASSWORD CONFIRM

FIRST NAME

LAST NAME

SECURITY QUESTION. My first phone number.

ANSWER

CONFIRM YOU'RE HUMAN

7 8 4 0 8

New Captcha

Enter the text you see above

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.

,

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

Search by Domain:

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. Select the server type and then input the username, password and domain name you apply for in the DDNS configuration interface.
4. Click “Save” button to save the settings.

5.4.6 RTSP

Go to “Network Configuration” → “RTSP” interface as shown below.

RTSP

Enable RTSP server

RTSP Port:

RTSP Address:

Enable anonymous viewer login (no user name or password required)

1. Select “Enable RTSP server”.
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. You can also choose to enable anonymous viewer login.

5.4.7 UPnP

Go to “Network Configuration” → “UPnP” interface as shown below.
 Select “Enable UPnP” and then input friendly name.

UPnP Setting

Enable UPnP

Friendly Name:

Then double click “Network” icon on the desktop of the PC to see an icon with the friendly name and IP address of the camera. You may quickly access the device by double clicking this icon.

5.4.8 Mail Setting

Go to “Network Configuration” → “Mail Setting” interface.

The screenshot shows the 'Mail config' interface with the following fields and values:

- From Email: test10007@gmail.com
- User Name: test10007@gmail.com
- Password: [masked]
- Server address: smtp.gmail.com
- Secure Connection: not required (dropdown menu)
- SMTP Port: 465
- Buttons: Use default, test your account settings
- Receive email address list:
 - Header: Receive email address:
 - Input field: [empty]
 - Label: Receive email address:
 - Input field: [empty]
 - Buttons: Add, Delete

1. From Email: Sender’s e-mail address.
2. User name and password: Sender’s user name and password.
3. Server address: SMTP name of sender.
4. Select the secure connection type at the Secure Connection pull down list according to user’s actual needs.
5. Receive email address list: Add email address into the list.
6. Receive email address: Receiver’s e-mail address.
7. After all parameters set up, you can click “Test your account settings”. If email sent successful, a “Test Successful” window will pop up, if not, users can try other email addresses or check the setting.

Notice: If you change the static IP into PPPoE and select mailbox, there will be an e-mail sent to your mail box for notifying a new IP address.

5.4.9 FTP

Go to Network Configuration → FTP interface as shown below.

The screenshot shows the 'FTP Setting' interface with a table and buttons:

Server name	Server address	Port ...	User Name	Upload path:

Buttons: Add, Modify, Delete, Test

1. Add: Click Add button to input FTP server's server name, address, port number, user name, password, and upload path, click OK to confirm the setting.
 2. Modify: Click this button to change some information of the FTP server.
 3. Delete: Select a certain FTP account and click this button to delete this account.
 4. Test: Select a certain FTP account and click this button to test its valid or not.
- Please refer to the following table for parameters and instructions of FTP configuration.

<i>Parameter</i>	<i>Meaning</i>
Server name	The name of the FTP server
Server address	The address of the FTP server
Port	The port number of the FTP server
User name	The user name of the FTP server
Password	The password of the FTP server
Path	The save path for FTP files

5.5 Advanced Configuration

Advanced configuration includes four submenus: User Configuration, Security Configuration, Configure Backup & Restore, Reboot and Upgrade.

5.5.1 User Configuration

Go to "User Configuration" interface.

Add user:

1. Clicking "Add" button pops up "Add User" dialog box.

User Configuration

Add User

Note: After binding physical address to the IP-CAM, you can access the device on this PC in network only. If the MAC address is "00:00:00:00:00:00" which means it can be connected to any computers.

2. Input user name in "User Name" textbox (only letters).
3. Input characters in "Password" and "Confirm Password" textbox (letters or numbers).
4. Input the MAC address of the PC in "Binding MAC address" textbox.
5. Click "OK" button and then the new added user will display in the user list.

Modify user:

1. Select the user which needs to modify password and physical address in the user configuration list box.
2. Clicking “Modify” button will pop up “Modify user” dialog box as shown below.

Modify User

3. Input original password of this user in the “Password” text box.
4. Input new password in the “New password” and “Confirmation” text box.
5. Input computer’s physical address which is used to access the server in the “User PC MAC” text box.
6. Click “OK” button to modify password and binding MAC address successfully.

Delete user:

1. Select the user which needs to delete in the user configuration list box.
2. Clicking “Delete” button will pop up a confirm dialog box. Then click “OK” to delete the user.

Note: The default super administrator cannot be deleted.

<i>Parameter</i>	<i>Meaning</i>
User Name	User name to operate the logon client end
User Type	Type of users, normal user, advanced user and super administrator
Binding MAC address	The MAC addresses of user access the server which should set up according to actual MAC address of server.
Password	Password to log in the client terminal
Confirm Password	Password to log in the client terminal

5.5.2 Security Configuration

1. Go to Advanced Configuration→Security Configuration to see a tab shown below.
2. Check “Enable IP address” check box, select “Deny the following IP address”, input IP address in the IP address list box and click “Add” button. Then this IP address will display in the list box; the operation step of “Allow the following IP address” is the same with “Deny the following IP address”.
3. Select the IP address which needs to be deleted from the IP address list box and click

“Delete” button to delete that IP address.

4. Check “Enable MAC address” check box, select “Deny the following IP address”, input MAC address in the MAC address list box and click “Add” button. Then this MAC address will display in the list box; the operation step of “Allow the following MAC address” is the same with “Deny the following IP address”.

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: "Deny the following IP address" (selected) and "Allow the following IP address". There is a large empty list box on the left and "Add" and "Delete" buttons on the right. The bottom panel is titled "MAC filter setting" and contains a checked checkbox for "Enable MAC address filtering". Below it are two radio buttons: "Deny the following MAC address" (selected) and "Allow the following MAC address". There is a large empty list box on the left and "Add" and "Delete" buttons on the right. At the bottom right of the MAC filter setting panel, there is a text input field containing "00 : 00 : 00 : 00 : 00 : 00".

5. Select the MAC address which needs to be deleted from the MAC address list box and click “Delete” button to delete that MAC address.

6. Click “Save” button to save the above setting.

5.5.3 Configure Backup & Restore

Go to Advanced configuration → Configure Backup & Restore Interface.

● **Import & Export Configuration:**

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. You can import or export all setting information to PC, but those two settings “User Configuration” and “Network Configuration” are exceptional.

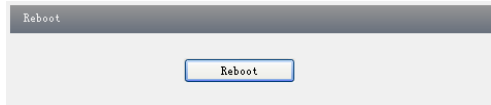
The image shows a configuration interface with three sections. The top section is "Import setting" and includes a "Path" input field with a "Browse" button. Below it are two checkboxes: "User Config" (checked) and "Network Config" (unchecked). There is a dropdown menu labeled "All configuration exception for" and an "Import setting" button. The middle section is "Export setting" and contains an "Export setting" button. The bottom section is "Default setting" and contains a "Load Default" button.

● **Default Configuration**

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

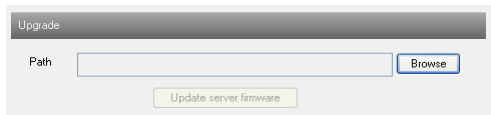
5.5.4 Reboot Device

Go to Advanced configuration—Reboot device to see an interface as shown below. Click “Reboot device” button to reboot the device.



5.5.5 Upgrade

Go to Advanced Configuration—Upgrade interface as shown below.



1. Click “Browse” button to select the save path of the upgrade file.
2. Click “Upgrade server firmware” 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.

Notice: You can't disconnect to PC or close the IP-CAM during upgrade.

6 Q & A

1. Q: Forget password.

A: Reset the device to the default factory settings by IP-Tool.

Note: User name: admin

Password: 123456

2. Q: The devices cannot be connected through IE browser.

A: Network doesn't connect well. Please check the connection and make sure it 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.

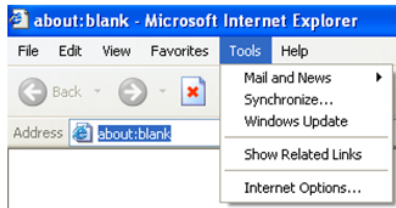
3. Q: IP tool cannot search devices.

A: 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.

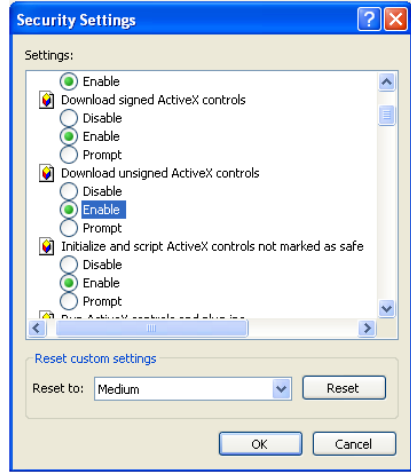
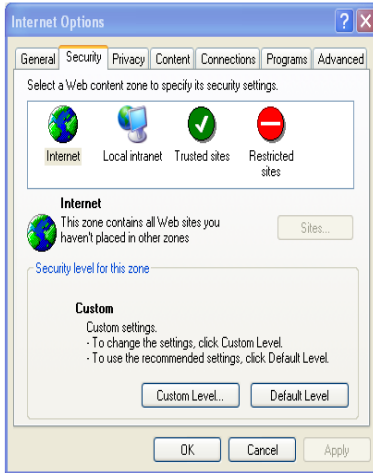
a. IE browser blocks ActiveX. Please do setup following below.

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



② select Security-----Custom Level...Refer to the following picture on the left

③ Enable all the sub options under "ActiveX controls and plug-ins". Refer to the following picture on the right.



④ Then click OK to finish setup.

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

5. Q: No sound can be heard.

A: Without connect audio input device. Please connect and try again.

B: Without enable audio function at the corresponding channel. Please check AUDIO item to enable this function.

7 Specification

Model	2 Megapixel Water-proof Dome Network Camera	
Camera	Image Sensor	1/2.8 " CMOS
	Image Size	1920 × 1080
	Electronic Shutter	1/25s~1/100000s
	Auto Iris	Fixed Iris
	Min. Illumination	0 Lux (IR ON)
	Lens	3.6mm (6mm, 8mm optional)
	Day-Night Switch	ICR auto switch
	WDR	Digital WDR
	DNR	3D noise reduction
Image	Video Compression	H.264
	Encode Mode	VBR/CBR
	Image Quality	Five levels VBR; Freely adjustable under CBR
	Bitrate	64Kbps~8Mbps
	Resolution	1080P(1920 × 1080), 720P(1280 × 720), VGA (640 × 480), QVGA(320 × 240)
	Multi-streams	1920 × 1080 (1~30fps) / 1280 × 720 (1~30fps) 1280 × 720 (1~10fps) / 640 × 480 (1~30fps) / 320 × 240 (1~30fps)
	Image Settings	Saturation, Brightness, Chroma, Contrast, Wide Dynamic, Sharpen, NR, etc., adjustable through client software or web browser
	ROI	Support 8 ROI areas
Interface	Network	RJ45
	Video Out	CVBS × 1
	Audio	MIC IN × 1
Function	Remote Monitoring	IE browsing, CMS remote control
	Online Connection	Support simultaneous monitoring for up to 4 users; Support multi-stream real time transmission
	Network Protocol	TCP/IP, UDP, DHCP, NTP, RTSP, PPPoE, DDNS, SMTP, FTP
	Interface Protocol	ONVIF, GB-T/28181-2011
	Storage	Network remote storage
	Smart Alarm	Motion Alarm
	PoE Power Supply	Optional
	IR Distance	No (10~20m optional)
	Water-proof	IP66
Others	Power Supply	DC12V/PoE
	Power Consumption	< 2.5W (ICR OFF); < 4.5W(ICR ON)
	Working Environment	-20℃~50℃, 10%~90% humidity
	Dimension	Φ 116mm × 91mm
	Weight (Net)	605g