IP Camera - CM-IPMP

(HD Cloud camera)

User's manual

Model:CM-IPMP

Note: after the setup , in Order to protect your privacy please modify the factory password, and keep the user name and password safe.

Manual version:

Version	Date	description
V1.0	September 16, 2012	CM-IPMP revised version of A1

Cloud Camera user manual

Content

Cloud Camera user manual

Cloud Camera user manual

Product Overview

Packing List.

- ✓ 1 x network camera
- ✓ 1 x Ethernet cable
- ✓ 1 x 5V power adapter
- ✓ 1 x Disc
- ✓ 1 x Quick Installation Guide
- ✓ 1 x Bracket (base) and mounting set
- ✓ 1 x Wireless antenna

Note: The use of non-regulated power supply, will result in damage, and will void the product warranty.

Please contact your dealer in case any of the described item above is missing.

System Requirements

- Microsoft Windows ® 7, Vista ®, XP ®, Mac OS or Linux

- CPU clocked at 1.3G or higher, at least 128MB of RAM

- Internet Explorer 7 or later, Firefox 3.5 or later, Safari 4 and Chrome 8.0 or Later.

Introduction

Congratulations on your purchase of the Cloud CAMERA.The Cloud CAMERA has multiple functions, is suitable for small offices and home.Unlike traditional IP CAMERAS, Cloud CAMERA has a complete system with built-in CPU and web server, which can transmit high-quality images, improving the security and monitoring. Cloud CAMERA can be accessed from any computer or laptop via a local network or from the Internet using a web browser where can be viewed and controlled.

Cloud Camera user manual

Its installation is simple.

intuitive user-friendly WEB interface settings, can be combined with 802.11b/n /g wireless network. The Cloud CAMERA also has a remote monitoring and motion detection function, making it a complete, cost-effective home security solution.

Features

✓ Supports H.264/MPEG4/MJPEG stream, suitable for Local, Internet access as well as cross-platform;

✓ CMOS sensor, supports 1280 * 720,640 * 360 , 320 * 180,160 * 90 real-time video encoding;

✓ Supports Smartphone to watch the video screen, support Windows Phone, Android system Smartphones / IPHONEs / IPADs devices (720P HD image is available for 25fps streaming);

✓ P2P Technology-free configuration plug-and-play (no need to do port mapping , DNS, IP address settings)

✓ WPS easy wireless connectivity and privacy features.

✓ Intelligent transmission technology

✓ Supports two-way voice intercom, the use of carrier-grade signal processing (echo cancellation, noise suppression, voice equaliser, comfort sound, noise suppression).

✓ Support the SNS social networks, open id (QQ, facebook landing)

✓ Supports remote firmware upgrade (automatically prompt to the latest version).

✓ Access to multi-users, multi-device managements.

✓ Two-dimensional code, each machine has a unique ID number and password.

✓ Same Encryption protection used by financial industry, (using RSA/DH/DES/MD5/SHA/CRC/BASE64 encryption algorithm).

✓ Support cloud storage technology.

✓ Alarm linkage/ Push, transfer video and pictures by E-mail, FTP; SMS alarm notification methods.

✓ Support motion detection, and can be an external alarm detector, to achieve the comprehensive protection;

Cloud Camera user manual

✓ Support more than one type of browser for video playback and monitoring, such as IE / Firefox / Safari / Google Chrome, etc.;

✓ Supports Flash Player, Quicktime, Realplayer, VLC, The Mplayer video player direct access to the camera.

✓ On PTZ , 320 ° Pan rotation and 120 ° Tilt rotation;

✓ Infrared LED for night vision range of 10 meters, All day monitoring; support IR CUT, Day / Night;

✓ Built-in WIFI module, and the flexibility to set up wireless monitoring environment;

✓ Maximum 32G SD card storage,for Snapshots and Videos;

✓ Supports POE power supply (compliant with the IEEE the standard 802.3 standard). (Optional)

Overview of the Hardware view

Phot[•^} •[¦

Lens

IR LED

T icrophone

Status Light STATE1

Status Light STATE2

POWER LED

Cloud Camera user manual

Reset

Ùpeaker

FN Ó˘ ɑ{ }

WIFI
Antenna

DC5V Power

SD card

Ethernet
interface

External
input/output
interface

Audio input/output
bæ&\ •

Note: press the reset buttom once to restart; Press and hold press the reset button for 5 seconds, to reset to factory default.

Installation

Hardware Installation

Connect the network cable and power
Wired: Plug the Ethernet cord into the
Ethernet port into the IPCAM
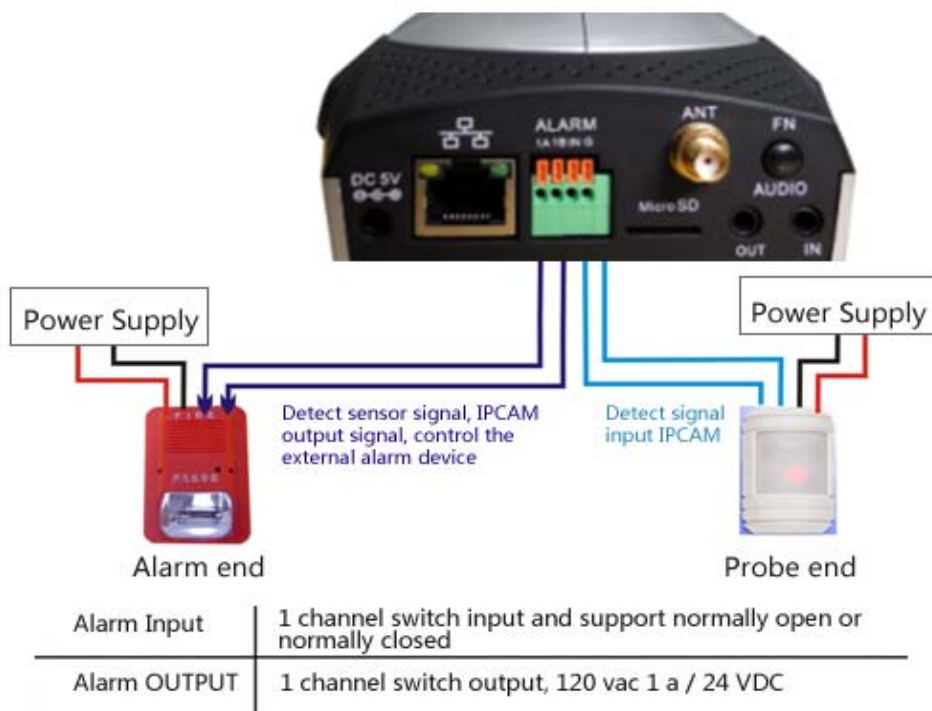and the other end into the router

Wireless: The package comes with an antenna. Connect it onto the back of the unit. Also connect the power using the original power adapter.

Cloud Camera user manual

POWER LED should be red.

Connect an external alarm interface and an external audio

 External audio input / output interface:
Audio IN: MIC and Audio OUT: External Speaker or Headphone

Camera Installation Wizard

The first step to configure the network connection:
1.WIRED LAN IPCAM connect to the power
supply and Network Cable. The Power indicator will lid in
steady red light.
STATE2 indicator will also turn red,but
Wait 20 seconds, and the led will turn green and flash every 3 seconds

Cloud Camera user manual

2. **Wi-Fi:** WIFI: You Can use either the (WPS) connection
or manually login to the router and look for the IPCAM IP.
Power the unit ON and wait until the Unit stops its self test movement
and the green light is flashing on STATE2 indicator.
1..Press the FN button for 3 seconds, the button is located
in the back of the unit right above the audio jack.
2..Press the WPS Button from the router within 60seconds.
Please look at the user's manual of the Router if you can't
locate the button.
3..In some routers you might have to login and proceed
from the router's WIFI connection wizard.
4..If there is no WPS option in your router, please login and look for wireless
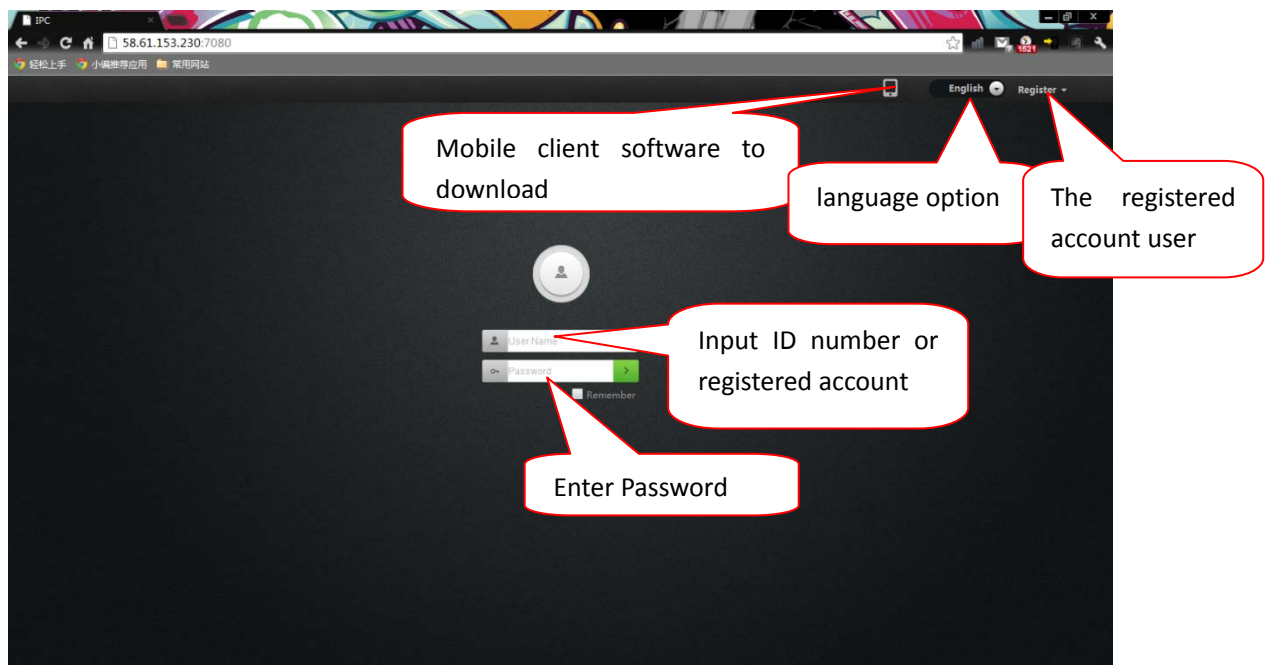IP address on the network.
Look for one that is new to the Network and type that IP using the Internet Browser
•.Note: The Router's DHCP server function must be enabled.

The second step: This Following step is to create an Account for your own central management service.
1..Go to http://www.mipcm.com and create an account typing your new username and password.
2..Please keep these two information safe.

FN button

Mobile client software to download

language option

The registered account user

Input ID number or registered account

Enter Password

Cloud Camera user manual
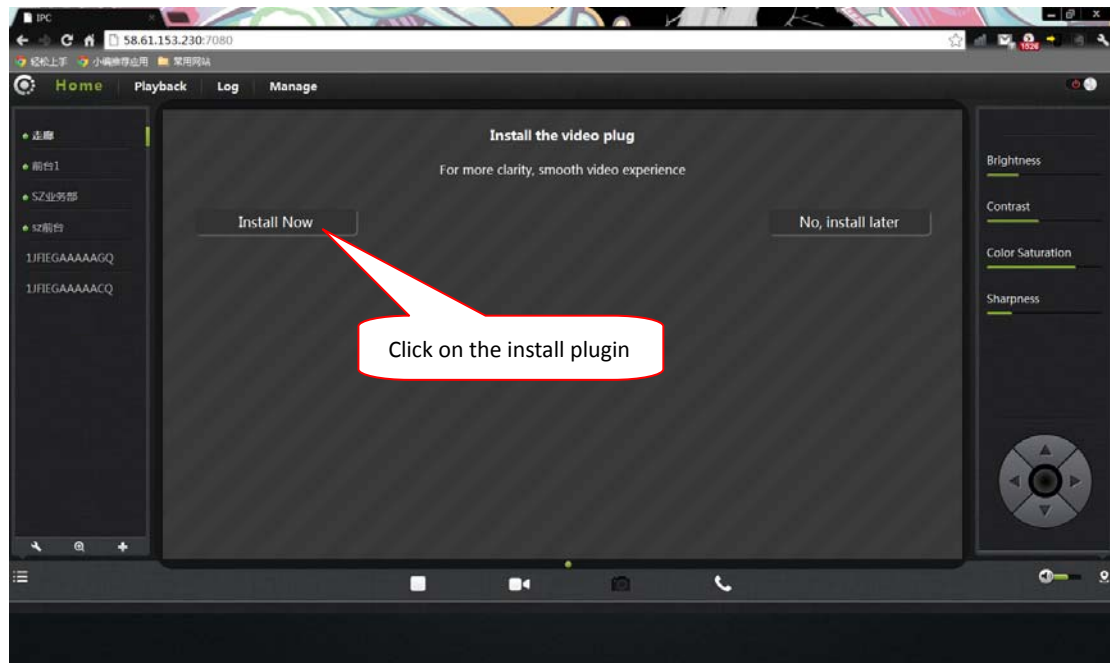
ce.

Central Management Interface

User's interface

Play Button
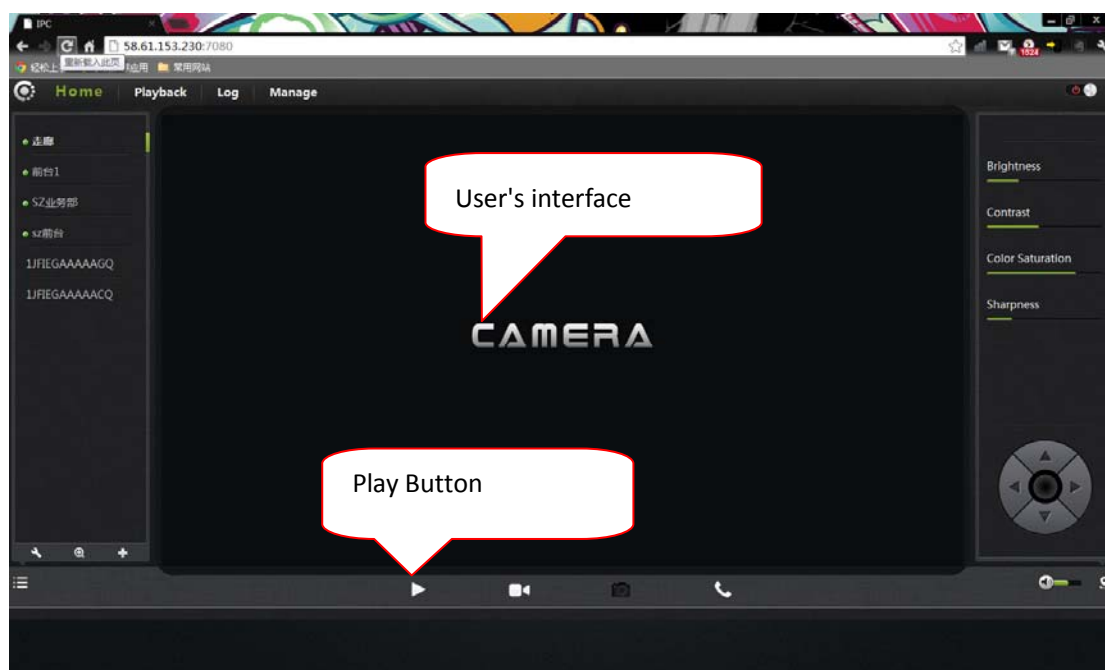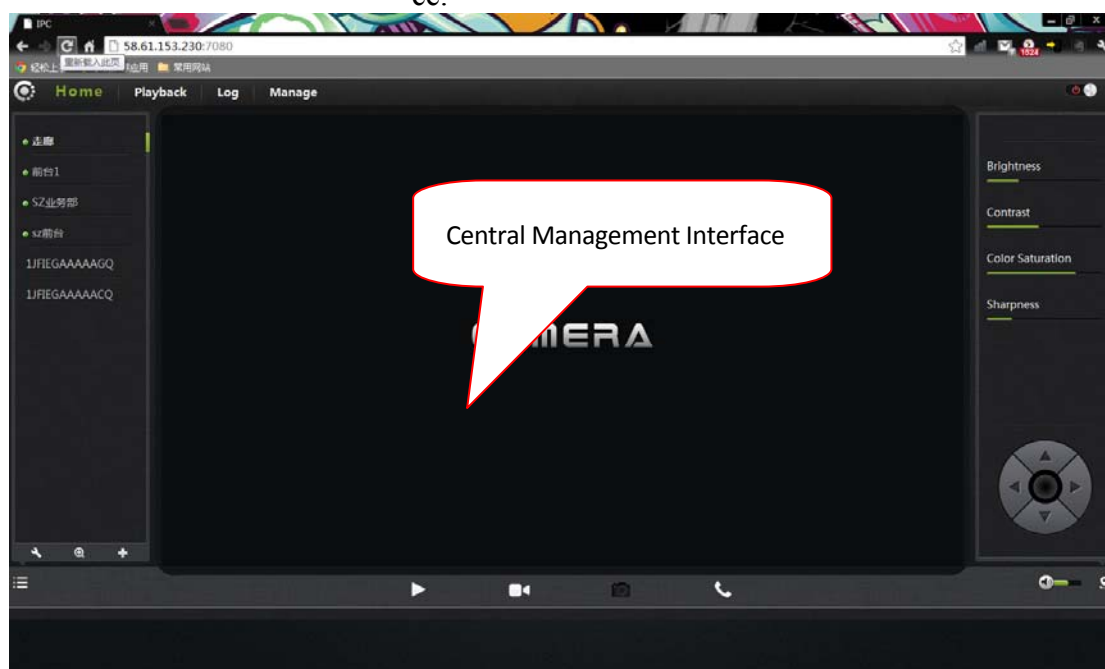
C: Install Plug-in:

Cloud Camera user manual

Note: If the Unit is not connected to internet, you can still watch it on your local lan just typing the

IP address of you IPCAM . the camera's ip can be found in your router.

Wireless Installation Considerations

IPCAM wireless cameras allows you to install anywhere in the wireless coverage area
However, the wireless signal needs to pass through the walls, ceilings and other objects.Signal strenght
may vary depending on your room or office's type of building materials and environmental RF (radio
frequency) noise. Please follow these basic guidelines to maximize wireless range:
1. The Wall, ceiling between the routers and other network devices (such as
network cameras) minimize the number - and each wall or ceiling will weaken the signal between
3 -90 feet
2. Note that if you have walls between the camera and the router it can lower the range and the
transmition quality.Specially if the transmission line and the wall makes an angle lower or over 90°.

Cloud Camera user manual

3. Building materials makes difference. The metal door or aluminum
frame will weaken the wireless signal. Place the access points, wireless
routers and other network equipment to transmit signal through drywalls or open
doorways. Materials and objects, such as glass, steel, metal,
water (fish tanks), mirrors, file cabinets, brick and concrete walls will weaken
these signals.
4. This product should be placed in at least 3-6 feet or 1-2 meters away from any RF
generating electronic devices and appliances.
5. If you are using 2.4GHz cordless phones or other radio equipments
(such as microwaves), your wireless connection may deteriorate
 drop completely. Put the 2.4GHz phone base away from the wireless device
as possible. Even if the phone is not being used, the dock will still transmit signals.

Cloud Camera user manual

Home page

Once Logged in, at the Home page, press on Play button to see a live video.
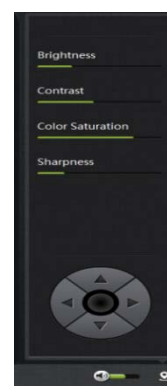

One .Camera status bar:

1. Here, you can see the online status of each camera.

• Green means camera is online and ready.
• Yellow means the camera online, but the camera password has
  been changed. You need to enter a new password in order to access
  the camera.
• Red indicates the camera is offline and not accessible remotely.

1. If the camera is offline, try these following approaches:
• Check to make sure the camera's network connection is normal.
• Try restarting your network router.
• Check the camera cable connections to ensure that they are securely connected.
• Check and confirm if the camera's STATE2 green light flashes
(every 3 seconds).If you still cannot access, please reboot the unit.

2. ![search icons]: Searches the IPCAM within the local LAN, and add the remote IPCAM and manage the cameras which had been added.

3. ![icon]: show and hide the status bar

Two. Image settings and PTZ control bar.

1. ![icon]: Exit the video interface.

2.Brightness: adjust the brightness level of the video screen.

3.Contrast: adjust the video screen contrast level.

4.Saturation: adjust the video screen color saturation level.

5. ![PTZ icon]: PTZ control IPCAM up / down / left / right

6. ![volume icon]: Control the Audio Volume

7. ![icon] : Display and hide the Status bar.

Three. Interface buttons: ![interface buttons]
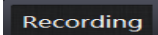
1. ![icon] Video play / pause button: Click button on the video image playback / pause.

Click on the inverted triangle button, select playback image resolution (1280 * 720,640 * 360,320 * 180,160 * 90).

2. ![icon]Record button (the recorded files will be stored on SD Card): Click on the

audio / video recording button ![icon] , the icon will indicate rec on

on the inverted triangle button ![icon] to enter the

mode ![Recording]

Recording Options:
Option1 - 24/7 recording mode
Option 2 - Schedule Recording

Alarm Recording Options:
I/O Alarm : Triggered by an External alarm device
Motion Alarm: Triggered by a Video motion detection
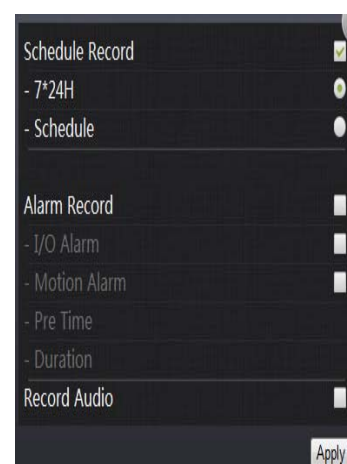
Cloud Camera user manual

Audio Recording:
When Enabled, it will record audio when alarm is triggered.
3. Snapshot button - Click on this icon to take snapshots from the live video.
Click on arrow down button to change the display Resolution.
(1280x720, 340x360,320x180, 160x90).
4. Intercom - a two way communication between the camera and the remote user.

Playback

Playback video from SDCARD.
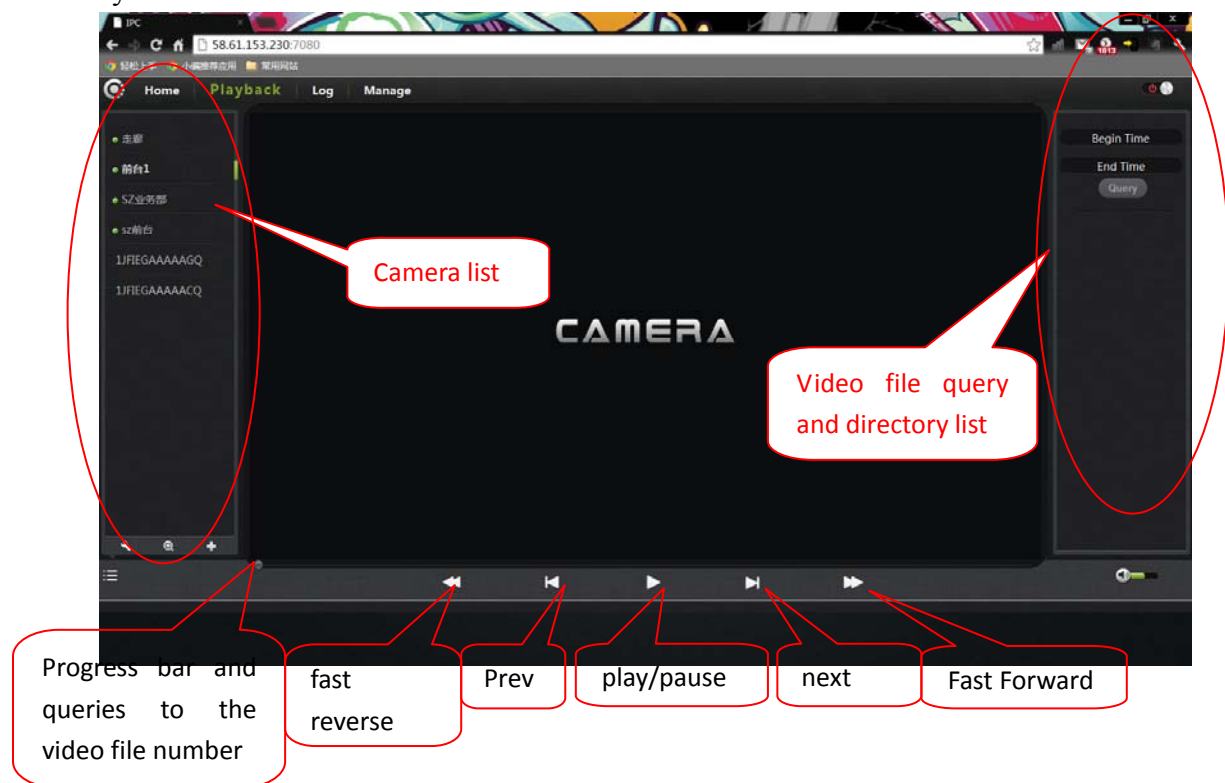
1. Select one camera from the camera List.
2. Select the start day by clicking on [begin time] and select the time by using the sliding bars for hours and minutes and click on [query] button.

Cloud Camera user manual

3. After Searching, the progress bar will be displayed in color

4. Use these video controls to watch the video or look for any specific footage or event.

Log: It shows the user's log history in chronological order.

Camera list
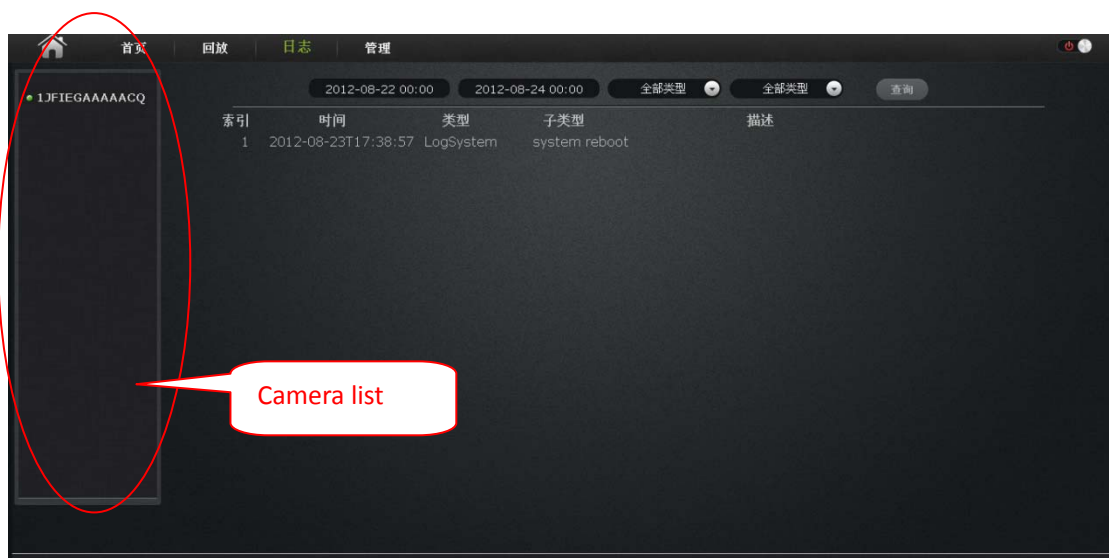
1. Select the Camera from the list.
2. Select the Start Time.
3. Select the End Time.
4. Select a State.
5. Query
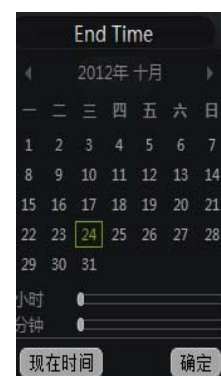
Cloud Camera user manual

Management:

This section is for camera setup.

1. Product Information:

Model:

Firmware Version:

Plug-in Version:

Device Serial Number:
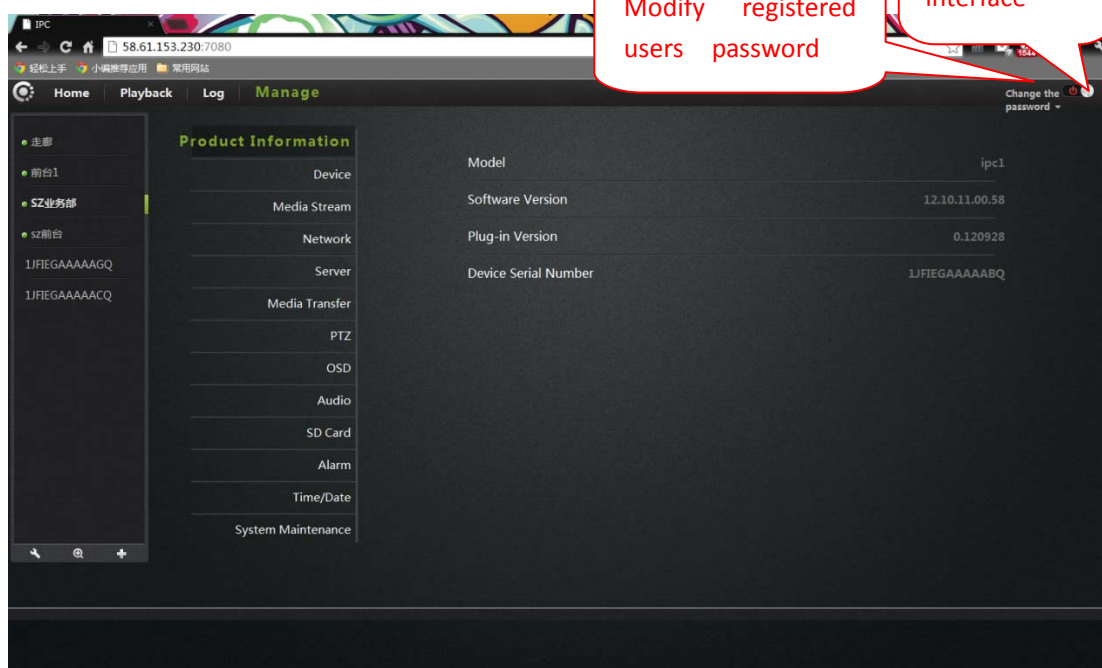
Cloud Camera user manual

2. Equipment

Modify camera's password.
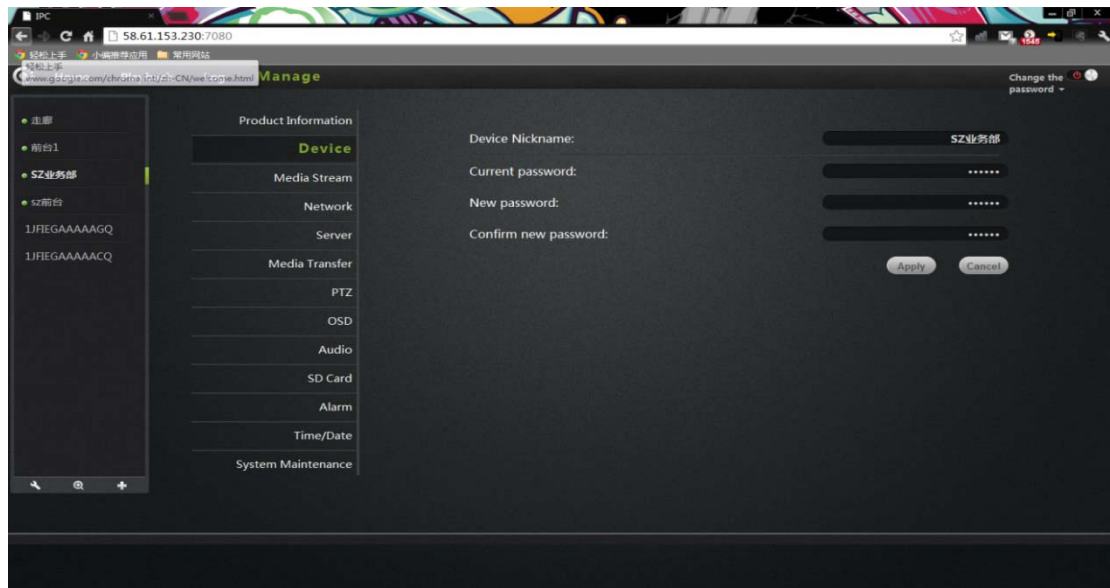
Device nickname: Modify the Camera Name.
Password: Modify the Password you must enter the current password.
New Password:Modify the Password (Please make sure you keep it safe)
Confirm Password: Confirm your New Password.
Click Apply to save the changes.

3. Media stream:

Audio / Video Stream Bit rate Settings.
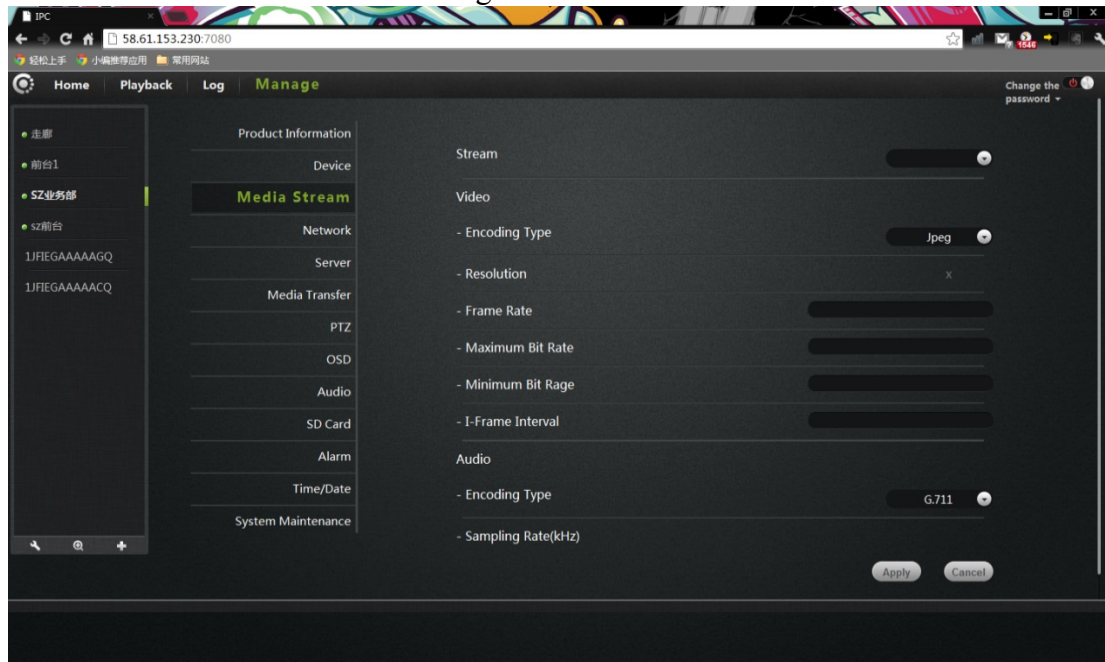
Stream: The video stream options are: high (HD) / normal (normal) / half (half) / (min) four, and their corresponding resolution of 1280x720, 640x360, 320x180,

Image:

Resolution: Select the display resolution corresponding to the video stream resolution.
Frame Rate: Select the frame rate speed.30fps is consider realtime view, anything lower than this will affect the playback content.
Bit Rate: select the video transmission speed rate. the higher the value the slower the transmission will get.
I Frame Interval: Send Each Keyframe Interval.
Audio:
Encoding Type: Audio Encoding G.711, G.726, AMR, AAC, four encodings.
Sampling Rate: Refers to the frequency of the Audio Samples.
Click Apply to save Changes.

Cloud Camera user manual

4. Network
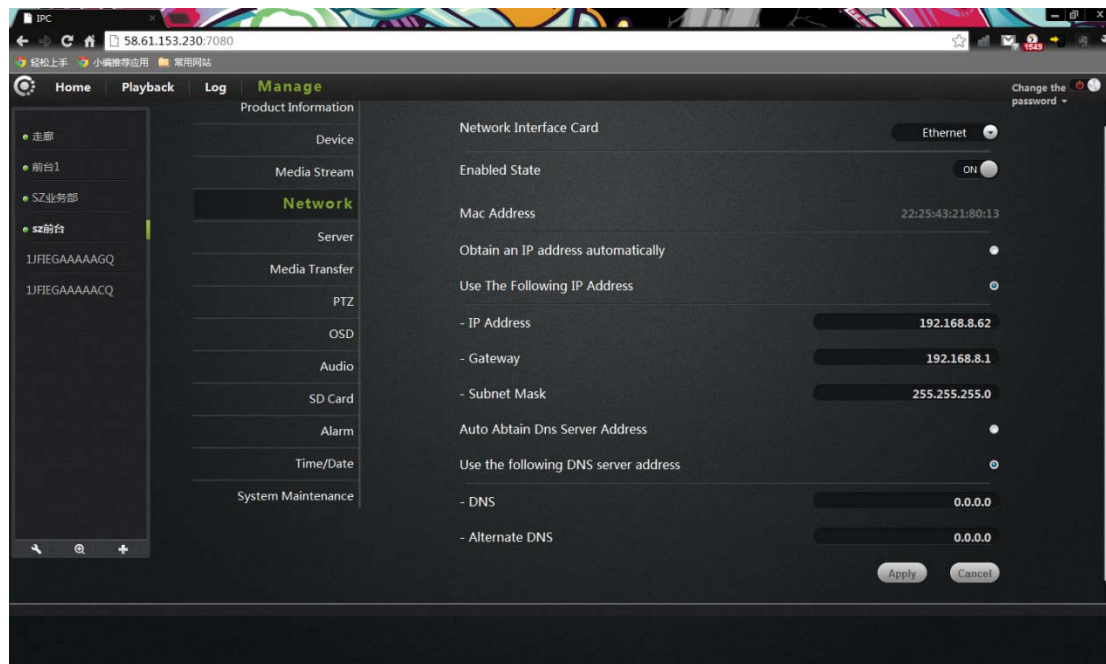
NIC: Ethernet (wired) and wireless networks.

4.1.Ethernet:

More Effective when connected to a wired network.
Startup Status: Displays the current Ethernet Mode.
Mac Address: Displays the current Ethernet Mac
address.
Automatically obtain an IP address: The unit will
automatically obtain its own IP address, Gateway and
Subnet mask information.
Use the Following Address: Manually gives a specific
IP address to the unit.
Auto Obtain DNS Server Address: It will automatically
Obtain its own DNS Address.
Use the follwing DNS Address: Input Manually a DNS
Address.
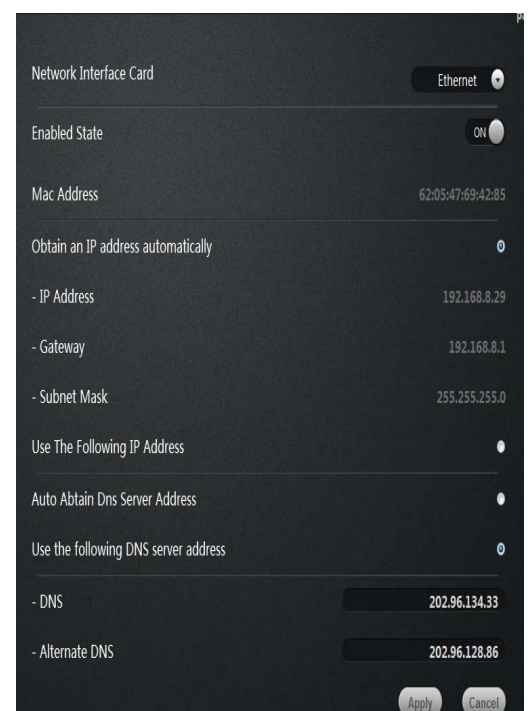
Cloud Camera user manual

4.2. Wireless Network:

NIC choose a wireless network.

Startup Status: Displays the current wireless network, enable / disable.

Wireless mode: hot / terminal

A. **Hot spot**: as the default it searchs equipment, network cameras, wireless hot spot, wireless devices through wireless search, Point-to-point connection to the camera.

DHCP: Dynamic Host Configuration Protocol for wireless hotspots, starting address to the end the address and gateway.

B. **Terminal**: As search equipment.

Connection Status: Displays the status of the wireless network.

Select Network: Wireless will automatically search for the cameras surrounding the wireless network terminal in the drop-down list, select the wireless network terminal.

Password: Enter the password for the wireless network equipment.

Click the connect button to connect the selected wireless

Click Apply to save your changes.

Mac address: displays the current wireless network Mac address.

Automatically obtain an IP address (cameras default): select camera

Machine automatically get connected to the router and it is automatically assigned to

IP address / gateway / subnet mask information.

Use the following IP address: Check the user manual allocation

One IP address / gateway / subnet mask to the camera.

Dns server address automatically exercised: After checked, camera will Automatically get the DNS Information from the router where is connected to.

Following dns server addresses: After checked, user Manually assign DNS to the camera.

Click Apply to save your changes.

Cloud Camera user manual

Reset

Ùpeaker

FN Ó˘ œ[}

WIFI
Antenna

DC5V Power

SD card

Audio input/output
bœ&\ •

Ethernet
interface

External
input/output
interface

Note: press the reset buttom once to restart; Press and hold press the reset button for 5 seconds, to reset to factory default.

Installation

Hardware Installation

Connect the network cable and power
Wired: Plug the Ethernet cord into the
Ethernet port into the IPCAM
and the other end into the router

Wireless: The package comes with an antenna. Connect it onto the back of the unit. Also connect the power using the original power adapter.

Cloud Camera user manual

6. Media transfer:
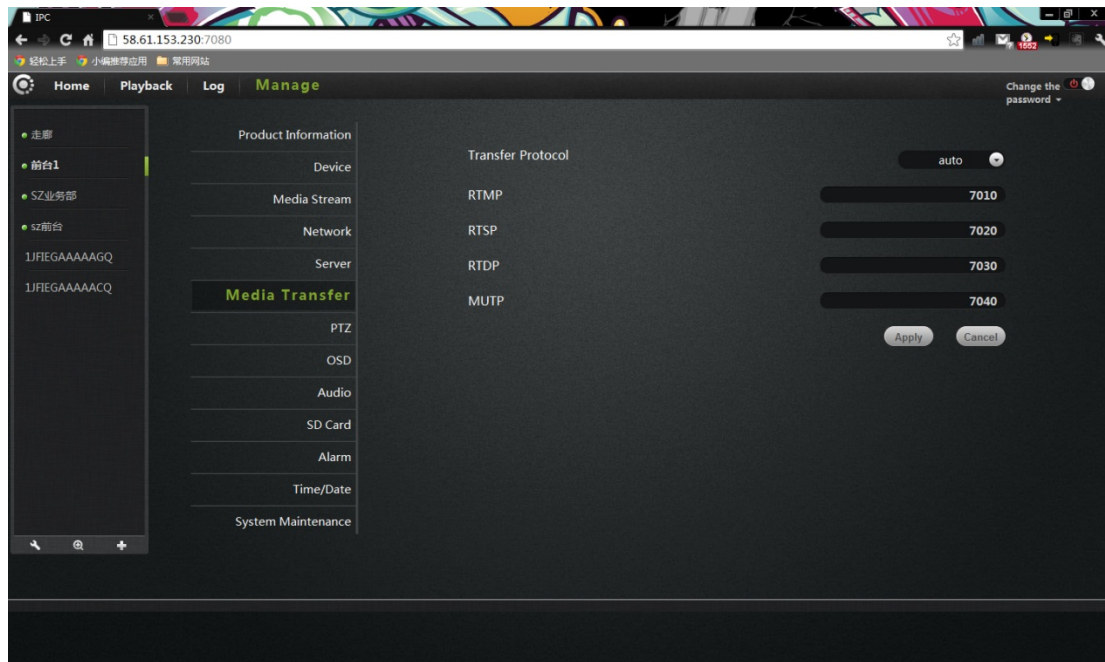
Transfer Protocol: drop-down list have RTMP, RTSP, RTDP, MUTP, four transport protocol, select AUTO (the default protocol RTDP).

RTMP: port 7010, do not install the plug when viewing images with this agreement.

RTSP: port is 7020, this agreement play equipment suitable for streaming media player (such as QuickTime and VLC Universal Player) video.

RTDP / MUTP: ports 7030/7040, private P2P video streaming protocol.

Click Apply to save your changes.

7. PTZ

PTZ rotation parameter settings.

Cloud Camera user manual
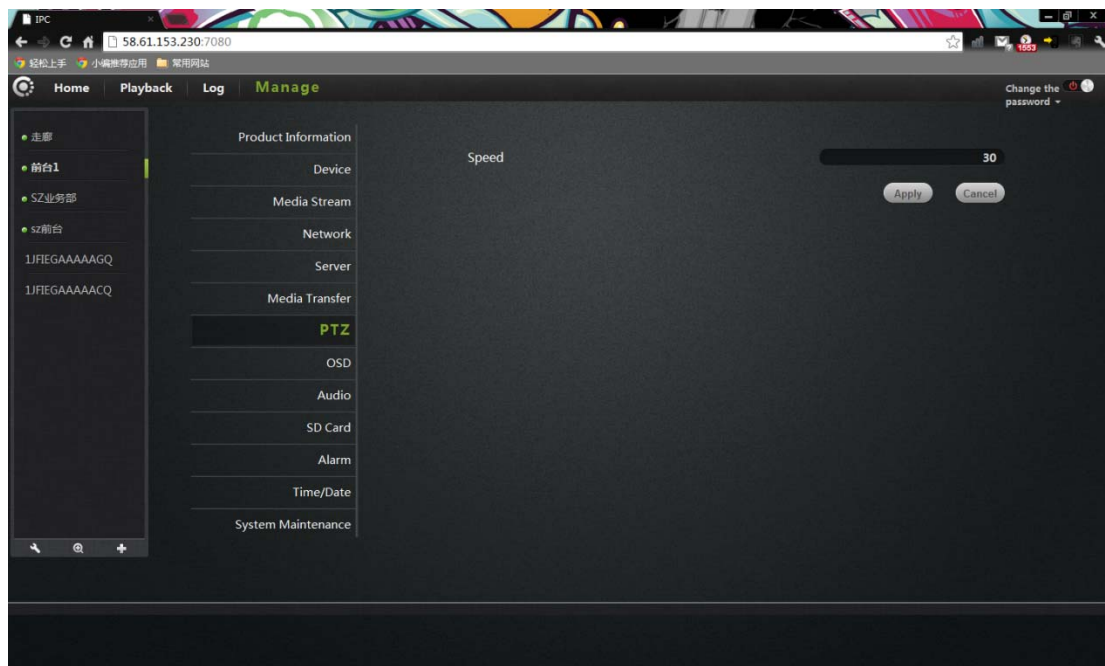
Speed: PTZ speed parameter settings, the greater the value, the   PTZ faster.

Click Apply to save your changes

8. OSD:

Image screen display menu settings.

Cloud Camera user manual
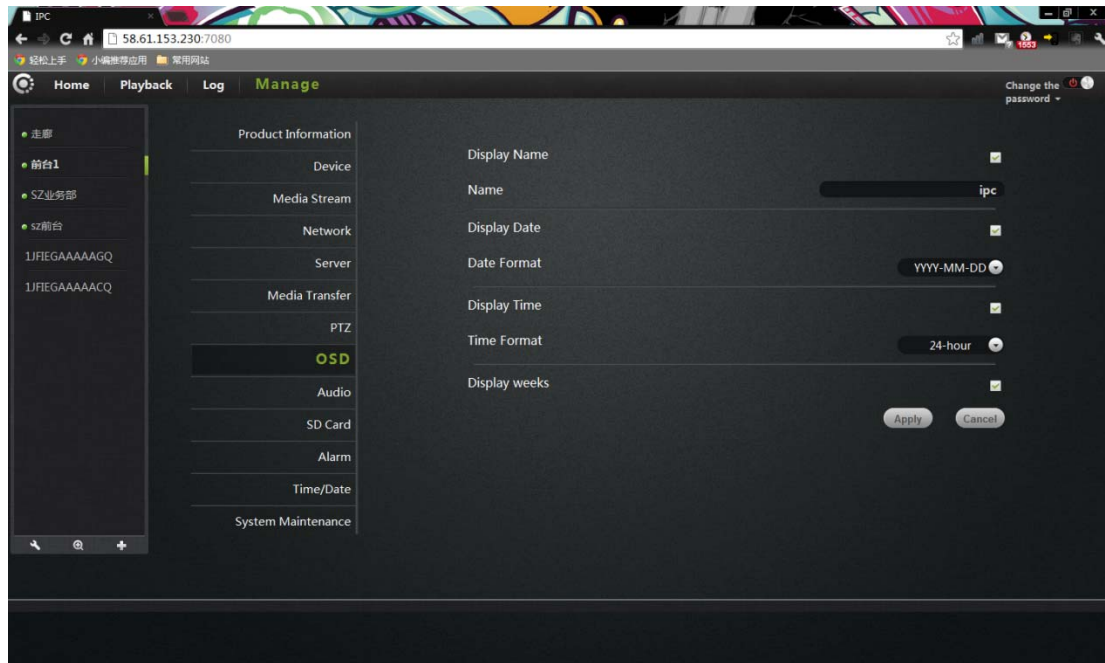
Display Name: After checked , will display the name of the camera in the top left corner of the screen.
Name: The user can modify the screen displays the name of the camera.

Display date : After checked , will display the date of the camera.
Date format: User can select year / month / day or month / day / year both date formats.

Show time: After checked , will display the time of the camera.
Time format: user can select 24-hour or 12-hour system.

Display week: Check the upper left corner of the screen displays the day of the week.
Click Apply to save your changes

Cloud Camera user manual

9．**Audio:**
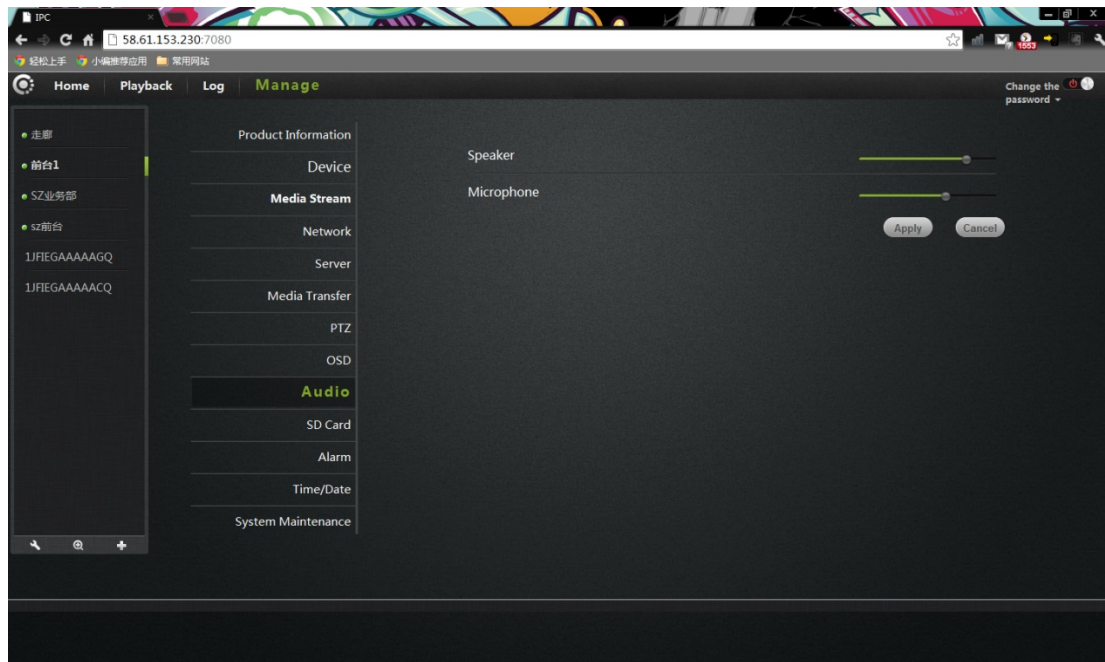
Speaker: Set the camera the size of the sound from the speakers, use the mouse to drag the slide bar, the greater the value, the greater the sound from the speaker

Microphone: Set the sensitivity of the camera microphone, use the mouse to drag the slide bar to set, the greater the value, the more sensitive microphone will be.

Click Apply to save changes.

Cloud Camera user manual

1$. SD card:
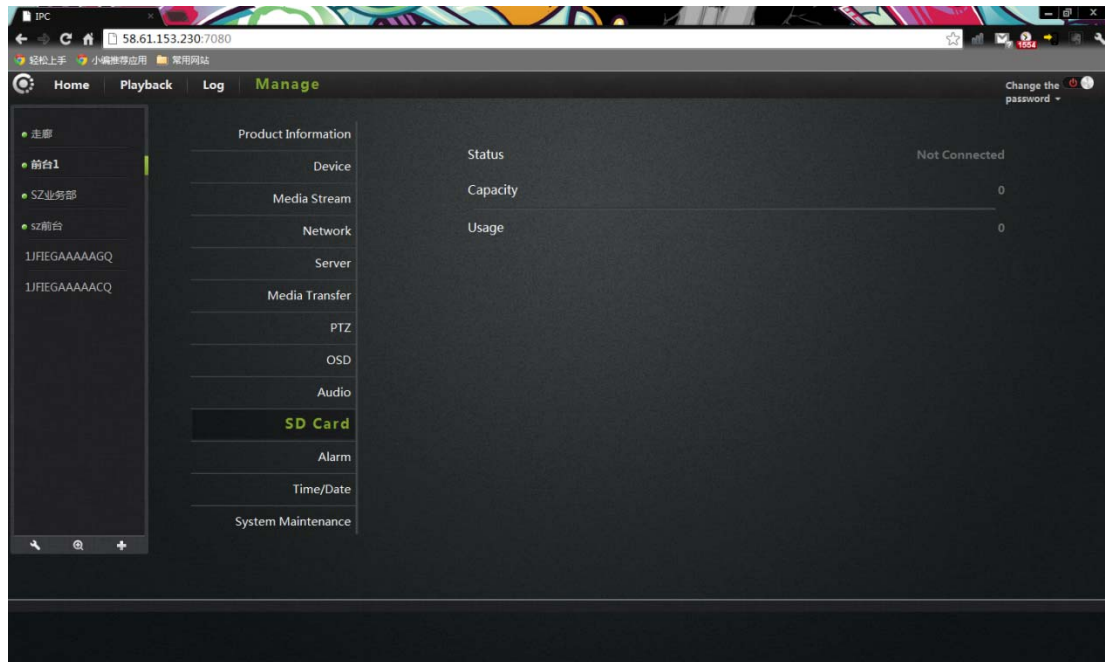
Display the status of the camera SD card.

Status: Displays the current SD card plugged into the camera and whether it has been read to the camera.

Capacity: Show the total size of the plug into the camera's SD card.

Usage: displays the current plug into the SD card in the camera has been used in the situation.

Click Apply to save your changes.

Cloud Camera user manual

11. Alarm:
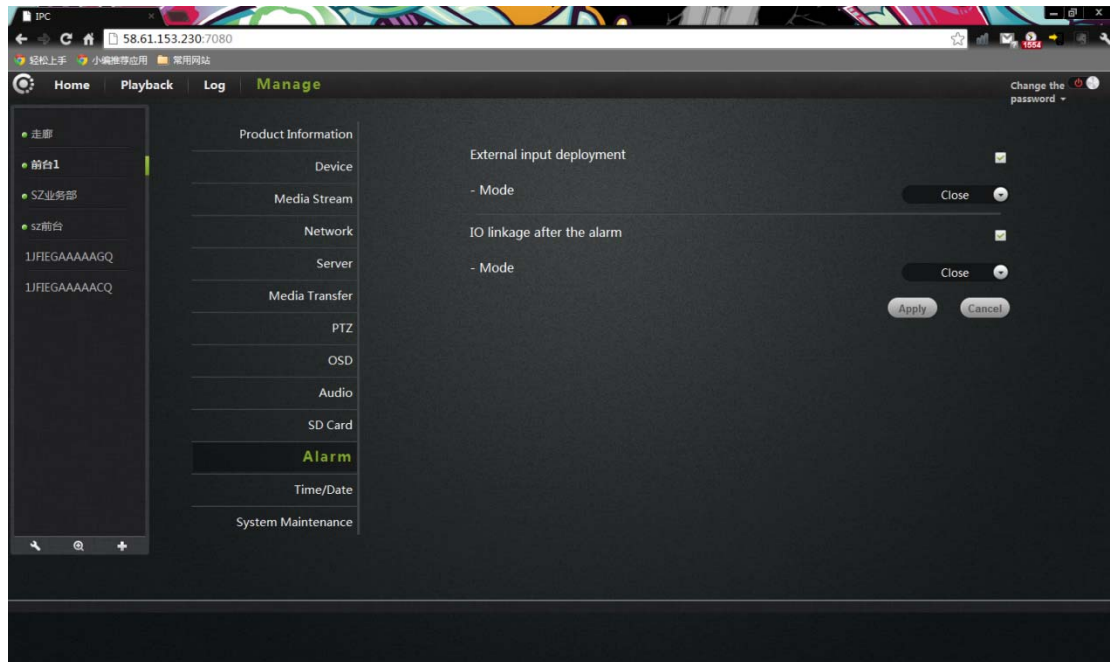
External input arming: trigger signal input, an external alarm sensor probe (such as smoke alarms probe).Checked mode depending on the type of external alarm probe equipment to select normally closed or normally open.

IO linkage: the alarm trigger signal output, external alarm equipment (such as speaker equipment). Checked, the machine triggered the alarm linkage output alarm signal to trigger external alarm, normally closed or normally open mode depending on the type of external alarm devices.

Click Apply to save your changes.

Cloud Camera user manual

12.Date/Time
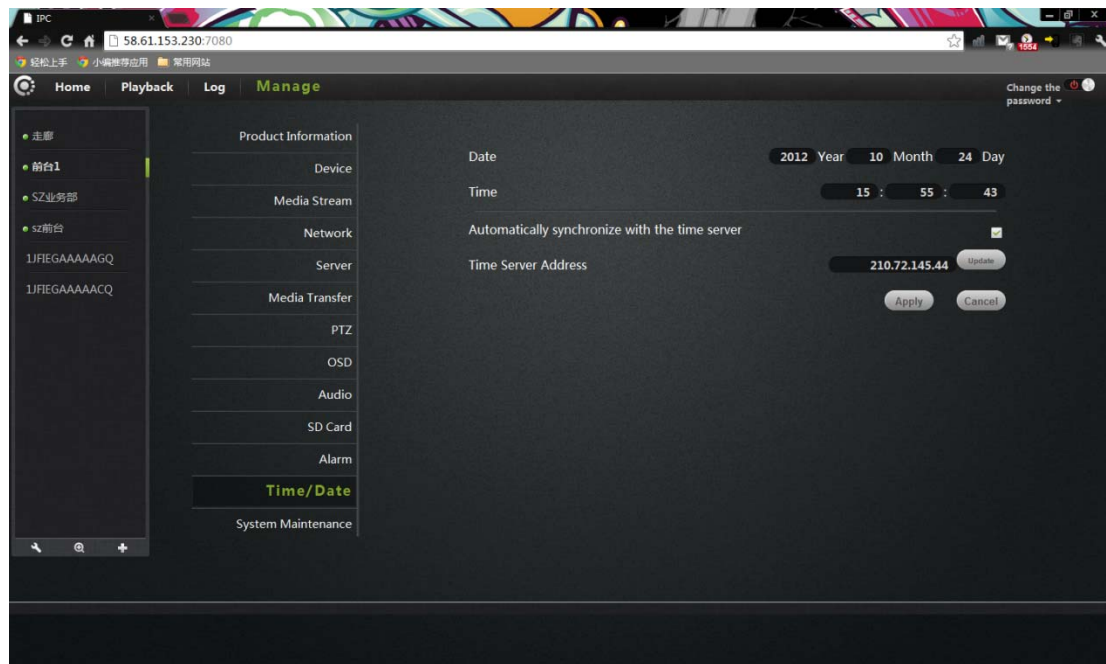
Date: the date of the camera can be manually modified.

Time: time of the camera can be manually modified.

Automatically synchronized with the time server: after checked , the camera time is automatically synchronized with the server time.

Time server address: the address of the time server.

Click Apply to save your changes.

13 .System maintenance:
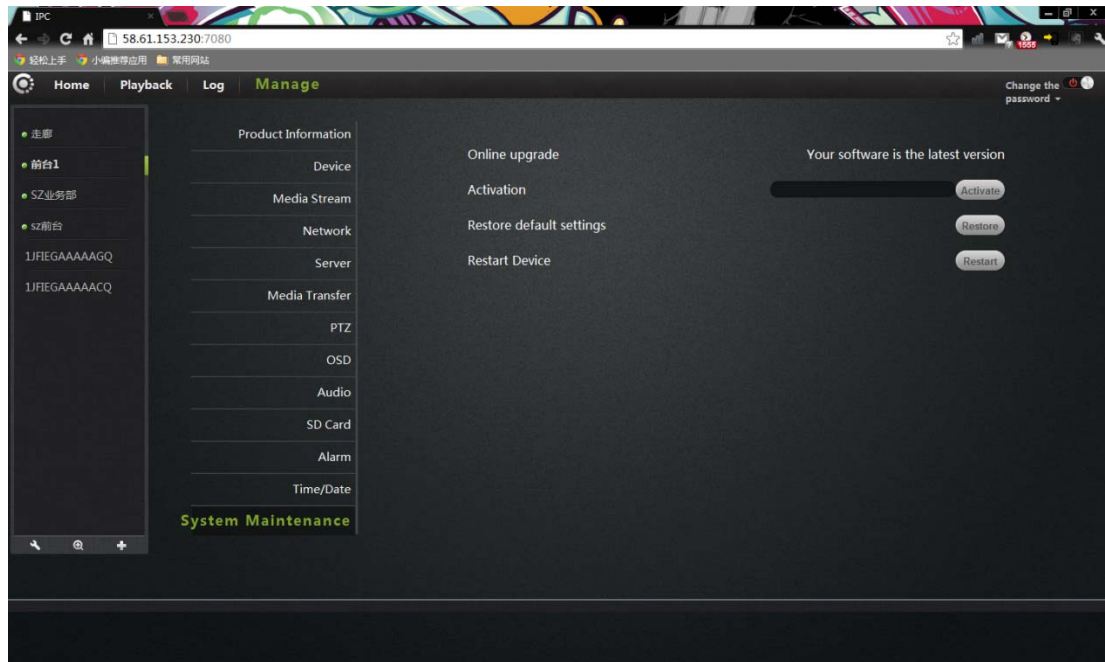
Online upgrade: If you have the latest software will prompt <update> click update, the camera will upgrade the software online.

Note: Software upgrade on the camera there is a certain risk, software upgrade and cannot cut off the network, or they can put the machine up dead.

Restore the default settings: click the restore button, the camera will be restored to the factory default settings, the user will cancel the camera settings made.

Restart the device: click on the reset button to restart the camera.

Click Apply to save your changes.

Cloud Camera user manual

Troubleshooting

This chapter provides solutions to problems that may arise in the IP CAMERA install and running.

If you encounter problems, please read the following description. (The following example is based on Windows ® Vista ™ and XP Description If you are using a different operating system, your computer screen and following a similar example.)

1. What is remote access? How do I enable it?

Through remote access, you can use a web browser from any PC connected to the Internet to access the camera. So even if you are not at home, you can watch the camera images, and manage the camera settings.
To enable remote access, you can simply follow the Quick Installation Wizard.
If you are not connected on the camera, make sure the following items:
....The green LED camera on SETATE2 green light flashes (every three seconds shiny 5 times).
....Network connection is working properly
... Router's LAN & WAN connection is working properly.
... The router has enabled UPnP.
... The router can get a public network IP.
... The router has been upgraded to the latest firmware version.
... You have tried to restart the router by unplugging the power and then plug it in again the way
After the completion of the inspection of the above, you can re-landing.

2. Why photo camera's network connection unreliable?

The network cable may be a problem. Make sure the cable is working, PING network known address of the device. If the cable connection is correct and your network connection is working, you should receive a similar (bytes = 32 time = 2 ms) reply.
Another possibility is that the network camera network devices such as hubs or switches, there is a problem. Make sure that the power for all devices are connected and working properly.

3. Why Network Camera work locally, but the remote does not work?

This may be caused by the firewall prot ection, and your system administrator to check network firewall. The firewall may need to make some configuration changes, in order from your local LAN, external access to the network cam era. For m ore

detailed information, please refer to the relevant sections of the cameras installed in the router backend.

Ensure that the network camera does not conflict with any Web server running on your network.

The default router setting might be the problem. Make sure that the router settings configured to allow external access from your local LAN network cameras.

4. Why the image on some of the vertical white line?

There may be a CMOS sensor due to exposure to light (such as direct exposure to sunlight or a halogen light) and overload result. The CMOS sensor is located in the rear of the lens, its role is the measurement light signal and converts it to a digital format so that the computer will digital format in the form of an image presented to the user. CMOS sensor is a long time in the bright light , the network camera cannot be immediately transferred to a dark area, so as not to damage the CMOS sensor. .

5. The camera blurred image, how to solve?

If the network camera work where light is dim, the video image may become blurred. Another possibility is that the camera lens and CMOS sensor not good focus, the camera aligned 5 meters away from the object, turn the lens slowly by hand repeatedly adjusted until the image is most clear.

6. The image quality is poor, how to improve the image quality?

Determine your computer's display properties set at least six colors.16 or 256 colors makes the image appear jitter artifacts, it seems the quality will be poor.

Network Camera image display is not configured correctly. Configuration through the Web Management Web video interface, you can adjust the parameters to improve the image quality, these parameters include: brightness, contrast, and color saturation.

7. Why no images on the Web browser?

The ActiveX might not enabled. If you are through Internet Explorer to see the image, make sure to enable ActiveX in the Internet Options menu. You may also need to modify the browser's security settings to allow installation of ActiveX plug. If you are using Internet Explorer version is less than 7.0, you need to upgrade to a Web browser, in order to watch the video sent by the network camera.

8. Troubleshooting, LED status indication:

Indicator	Indicator f lashing frequency	Status
POWER (red light)	Long bright	normal Power supply
STATE1 (red light)		

STATE1 (green light)	flash 2 times every 3 seconds	SD card connected
STATE2 (red light)	flash 2 times every 3 seconds	Did not get to the IP address
STATE2 (green light)	flash 2 times every 3 seconds	Connected on the router, but not connected to external networks
	flash 5 times every 3 seconds	Wired is connected to external networks, and can be accessed remotely
	flash 6 times every 3 seconds	Wireless connection on the outside network, remote access

Cloud Camera user manual

Wireless Infrastructure

IP CAMERA wireless products are based on industry standards for your home, business or public access wireless network to provide a simple and compatible high-speed wireless connection. The IP CAMERA strictly follow the IEEE standard, wireless products allows you anytime, anywhere secure access to the data you need. You will be able to enjoy the freedom of the wireless network.

Wireless LAN (W LAN) is a unit of the computer network by a wireless signal instead of wires to transmit and receive data. WLAN is more and more used in home and office environments, as well as public places such as airports, coffee shops and universities. WLAN technology in innovative wa ys to help the character work , and communicate more effectively. No cabling and other fixed infrastructure, as well as better mobility provides more convenience for many users.
In many environments, the mobile network equipment needs to be connected to a conventional Ethernet LAN, in order to use servers, printers or an Internet connection via a wired LAN. The wireless router is used to provide such a connection device.

What is wireless?

Wireless or WiFi technology is not using a cable to connect your computer to a network. WiFi uses radio frequency to connect wirelessly, so you can be free to connect computers anywhere in your home or office network.

Why buy CM-IPMP wireless equipment?

CM-IPMP is the world's leading real smartphone remote monitoring network camera products, can get the smoothly and clearly video. And access the real P2P technology. CM-IPMP products at reasonable prices, and excellent performance.

How does the wireless network work?

Similar with wireless phone when the wireless network work , through radio signals to transmit data from point A to point B. However, a wireless network have some restrictions on how you access the network . You must be the coverage of the wireless network, in order to connect to your computer. The wireless network is divided into two different types of wireless local area network (WLAN) and wireless personal area network (WPAN).

Wireless local area network (WLAN)

In wireless local area network, the access point (AP) as a computer to access the network device. The access point has a small antenna, whether through radio signals to transmit data. Indoor access point shown in the drawing, the signal can reach a distance of 300 feet. In outdoor access point signal distance up to 30 miles .Can be used such as a factory floor, industrial areas, college and high school campuses, airports, golf courses, as well as many outdoor occasions.

Which kind person are suitable for wireless network?

Increasingly popular wireless network technology in recent years, almost everyone is using it, it can provide wireless solutions for the home, office and business, D-Link.

Home

• provide for everyone at home broadband access.

• browse the web, view email, instant messaging, etc.

• No cable connection in the room around

• Simple and easy to operate

SOHO (Small Office and Home Office)

• When you at home are as in the office .everything will be in your hands

• Remote access of your office from home.

• Multiple computers to share an Internet connection and a printer

• Does not require a dedicated office space

Where to use the wireless network ?

Not just confined to the home and office, wireless technology is being extended to every corner. People like the freedom of mobility, wireless networks are becoming increasingly popular, more and more public places began offering wireless access to attract people. The wireless connection in public places is usually called "hot spots".

Use a wireless card in your laptop, you can be in distant places such as: airports, hotels, cafes, libraries, restaurants and conference center with wireless network. The wireless network is easy to install, if you first installed, you will need to work hard to understand where to start. This is why we want to provide some of the installation steps and tips to help you complete the installation process for the wireless network.

Prompt

When you install a wireless network, please note the following:

Post your router or access point on the center place of the network.

Verify that your router / access point on the center position of the network, in order to get the best results. Try to place the router / access point to the highest point in the room, so that the signal can be distributed to your room. If your home is a two-story building, you need to install the repeater signal expanding coverage.

Eliminate interference

Household appliances, such as cordless phones, microwaves, and televisions as far as possible from the router / access point. This will greatly reduce the electrical interference caused by the work at the same frequency.

Safety

Prevent your next door neighbors or intruders connect to your wireless network. Open the router's WPA or WEP security features to protect your wireless network. Please refer to the product manual to set the properties detailed information.

Wireless Security

This section describes the different levels of security you can use to protect your data from intrusion. .
IPC1 provides the following security types:
- WPA-PSK (pre-shared password)
- WEP (Wired Equivalent Privacy)

What is WEP?

WEP is Wired Equivalent Privacy. It is based on the IEEE 802.11 standard, using the RC4 encryption algorithm. WEP for data encryption via your wireless network to provide security, so that it can protect the security of transmission from one wireless device to another
To access the WEP network, you must know the key. The key is the string you create. Using WEP, you must specify the level of encryption. The type of encryption

determines the key length.128-bit encryption key is longer than 64.Key input HEX (16 hex -0-9, AF) or ASCII (American Standard Information Interchange Code - alphanumeric characters) format string definition. ASCII format allows you to enter the easy-to-remember string. ASCII string used on the network transmitted converted into HEX. Righteousness four keys can be given. You can easily change the key.

<div align="center">

What is WPA?

</div>

WPA, or Wi-Fi Protected Access, is a Wi-Fi standard, designed to improve the security features of WEP (Wired Equivalent Privacy).

Has two major improvements than WEP:

Improve data encryption through the Temporal Key Integrity Protocol (TKIP).TKIP scrambles the keys using a hashing algorithm and, by adding integrity-checking feature, ensures that the keys have not been tampered with.WPA2 is based on 802.11i, using the Advanced Encryption Standard (AES) instead of TKIP.

User authentication through the Extensible Authentication Protocol (EAP) , usually missing in WEP.WEP-based computer hardware MAC address to restrict access to the wireless network is relatively easy be listened and stealed. EAP builts on a more secure public key encryption system to ensure that only through authorized network users can access the network.

WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alphanumeric password, 8-63 characters long. The password can include symbols (!?* & _) And spaces. This key must be entered on your wireless router or access point the same key.

Complete the quick installation the IP CAMERA guide installation, you can use the IP address has been assigned the camera. A local IP address for your PC and one or more shared network through a router, so assigned to the IP address of the network camera. At this time, your local network can see the camera, configure the router to allow the camera from a remote viewing can be viewed on the network.

Specifications

Specification		CM-IPMP
Image sensor	Sensor	1/4 "color CMOS sensor
	Display Resolution	1280 * 720 pixels (1,000,000 pixels)

	there is a camera	f: 3.6mm, F: 2.4
	Minimum illumination	0.5Lux
	Perspective	65 degrees
Audio frequency	Input / Output	Built-in MIC and SPEKER, two-way voice intercom
	Audio Compression	G.711/G.726/AAC/ADPCM
Videos	Video compression mode	MJPEG/MPEG4/H.264
	Lighting frequency	50Hz, 60Hz
	Image frame rate	1-30fps
	Image resolution	1280 * 720,640 * 360, 384 * 216,256 * 144
	White balance, backlight compensation	Automatic Query
	Night Vision	12 IR LED, IR distance: 10 meters
Network	Ethernet	A 10/100Mbps RJ-45 interface
	Support Agreement	TCP / IP, UDP / IP, HTTP, SMTP, FTP, DHCP, DDNS, UPNP , RTSP And RTMP, MUTP
	Wireless standards	WIFI (IEEE802.11b/g/n)
	Support IP addresses	Static IP address and dynamic IP address
Alarm	Alarm detection	Motion Detection
	Alarm notification	Support E-mail, FTP, SMS alarm alarm notification methods (requires server support)
	External alarm	External alarm input / output
Hardware interface	Memory card	Micro SD card. (Supports up to 32GB)
	Power	DC 5V/2.0A and POE power supply (optional), power consumption <8 watts
	Audio input / output interface	An audio output jack and an audio input socket
	Button	A reset button, a function button
	Wireless interface	1 WIFI external antenna interface
	External alarm I / O	External alarm I / O port
other	PTZ rotation angle	Horizontal: 320 ° & Vertical: 120 °
	LED indication	Power / network signal / function indicator
Environment	Operating	0 ° ~ 55 ° C (32 ° F ~ 131 ° F)

	Temperature	
	Operating humidity	10% ~ 80% RH (non-condensing)
	Storage temperature	-10 ° C ~ 60 ° (14 ° F ~ 140 ° F)
Specification	Dimensions (L*W*H)	112 (L) *114 (W) *157mm (H)
	Weight	400g (Containing rack)
Computer Requirements	Central processor	2.0GHz or above (recommended 3.0GHz)
	RAM	256MB or more (Recommended 1.0GB)
	Graphics Card	64MB or more
	Operating system	Microsoft Windows 2000/XP, Vista, Windows7, Mac OS, Linux
	Browser	IE6 or later / Firefox / Google browser or other standards-compatible browser
Identification	certification	CE, FCC,ROHS