# **IP Camera User Manual**

# **Statement**

If the user manual cannot help you to solve the problem, please call our technology center about the solutions. We will update the content for the new functions without notice.

# **Notice**

# 1. Installation Environment

- Keep away from the places for high-temperature, heat source and direct sunlight;
- Keep away from water. When get wet, cut off the power immediately;
- Avoid to use in damp environment, the reference range for operation humidity is below 85%RH ,the reference range for operation temperature is -10 ~ +50℃.
- Please install horizontally or wall mounting, avoid to strenuous vibration and not put other equipment onto the item.

# 2. Transport and Handling

- The package is well-designed to ensure the security during the delivery, so please do not change the package at random;
- Do not move the IP cameras from overheated to supercooled condition frequently, otherwise it will frost and shorten the service life;
- Do not move the item when is power on, otherwise the main board might be damaged.



- 1. Please check the power supply before it is working.
- 2. Be careful not to bang the camera or subject it to strong impacts or shocks.
- 3. Do not directly touch the optical components for the image sensor, if necessary, please place a clean and moistened cloth with alcohol and wipe the dirt gently; When not in use, please place the dust cover on to the item to protect the image sensor.

- 4. Do not aim the camera directly into the sun or at other intense light sources that could affect the image quality (it is not the problem for the IP camera), also shorten the service life for the image sensor.
- 5. Keep away from laser when it is working, otherwise the image sensor can be damage.
- 6. If the equipment is not working properly, please contact the store or the service center, do not disassemble or modify the equipment in any way. (Problems caused by unauthorized modification or repair should be at your own risk.)

# 1 Overview

#### 1.1 Product Summary

The IP camera combines a high quality digital video camera, with a powerful web server, to bring clear video to your desktop from anywhere on your local network or over the Internet.

The IPCAM is based on the TCP/IP standard. There is a WEB server inside which could support Internet Explore and other browsers. Therefore the management and maintenance of your device is simplified by using the network to achieve the remote configuration, start-up and to upgrade the firmware. Controlling the IPCAM and managing images is simplified by using the provided web interface across the network utilizing wireless connectivity.

It can be widely used in stores, factories, schools, offices or homes and other places.

At the same time provide PC client and Mobile phone Apps, you can view your world anytime and anywhere!

Only Indoor IP camera have Pan/Tilt function. Outdoor don't have it.

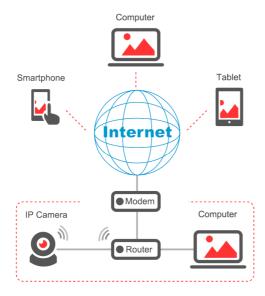
#### 1.2 Product Feature

- H.264 Main Profile and Baseline profile compression algorithm, Image clearer, stream smaller, suitable for local, the Internet and cross-platform access;
- Resolution support 1920\*1080/1280\*720/640\*352/320\*176;

- Support two-way intercom function, support G.711 and G.726 audio encoding;
- Support 802.11b/g/n protocol, build-in WIFI module to perform wireless monitoring;
- Support four regional motion detection and external alarm detector, achieve all-round protection on the spot;
- Support level 3 user permissions Settings;
- Support max. 32G micro SD card for storing the alarm video and pictures;
- Built-in web server, use one port to send all the data, it facilitates network setting;
- Support ONVIF and RTSP protocol, facilitate integration to the NVR;
- Support P2P;
- Provide free client software, support Multi-view, Long time recording, video replay etc.;
- Provide free software viewed by mobile phone.

# 2 Access the IP Camera

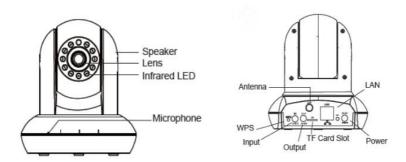
#### 2.1 Access the Camera in LAN



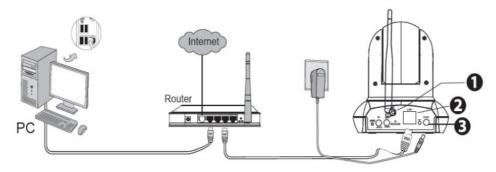
Connect the IP Camera and Computer to the same router.

#### Indoor

# 1. Physical Description

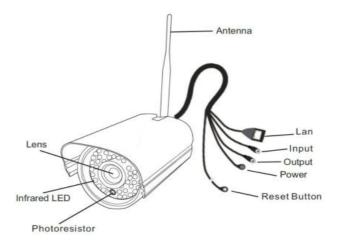


# 2. Hardware Connection

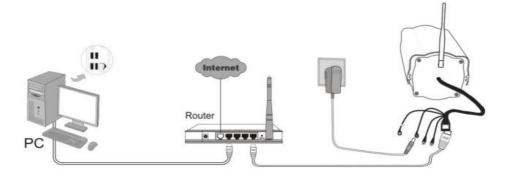


#### Outdoor

# 1. Physical Description



#### 2. Hardware Connection



#### 2.1.2 Software connection

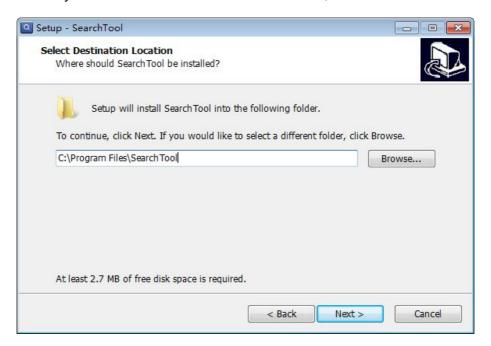
1. Insert CD to computer driver; and found "PC Search Tool", install it.



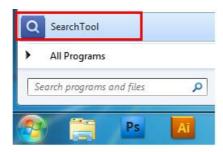
2. It will pop up a window as below; please choose the language you need, click"OK"



3. Click next. If you would like to select a different folder, click browser

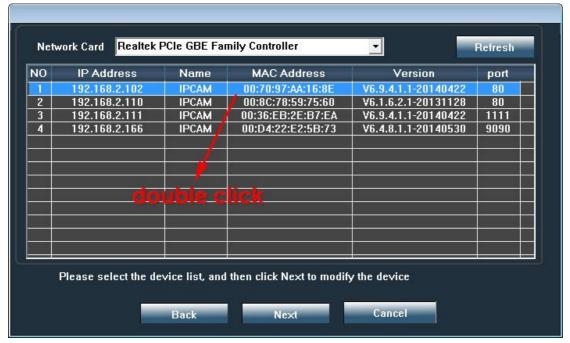


4. Continually click "Next" until the following icon showed on "Start Menu" of your computer.



5. Double click the search tool software, after openned, click "Next"





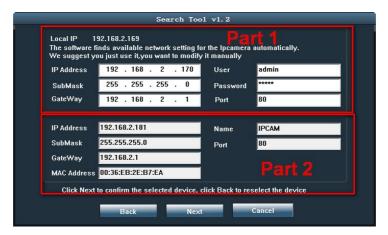
**Note**: The software automatically searches IP Camera within the LAN.

It will display the IP address, name, MAC Address, Version, and Port.

- 6. There are three kinds of situation
- 1) Search to the device in the local area network (LAN). All devices will be listed as shown above, please double click IP address to enter login interface.
- 2) Found no device in the Lan. Pls click Refresh
- 3) Double click IP address, without any change; maybe the router didn't assign ip address to IP camera correctly. Please choose the IP address of camera, then

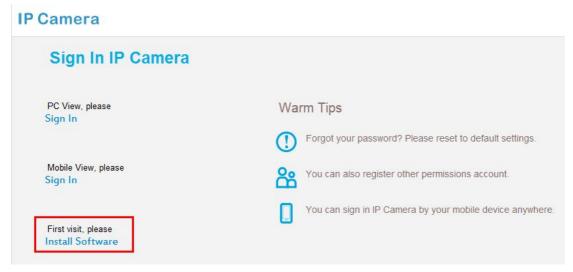
click "Next". You can got following frame, then revise IP address, Submask, Gateway manually.

Note: Part 2 is the current IP address, only part 1's information can be revised.



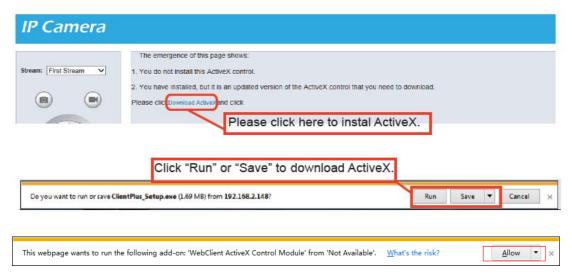
7. Double click the camera's IP address, your default browser will pop up a dialog, please enter default user name: admin and password: admin.





Note: The first time you login the camera need to install the plugin, according to the

steps below click download and install. If without install Active X, you cannot view video like following picture.



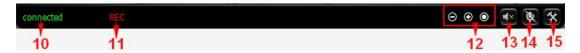
#### Attention:

Because the system permission restriction of Windows 7/8/10, after installing the video ActiveX, need to click the right mouse button to open the browser, select "Run as Administrator (A)" to launch the browser.

#### 2.1.3 View video



1) Status bar



- 1. Multi-Device (Up to 4 cameras can be monitored at same time)
- 2. You can choose 1st stream or 2nd stream, 3rd Stream to view the video. 1st

stream has the best solution. 3rd stream's resolution is 320x176 pixels.

#### 3. PT control

If the camera supports PT function, you can click up, down, left, right arrow to control the camera moving.

- 4. means start vertical, means stop
- 5. means start Horizontal, means stop
- 6. Omeans turn on infrared Led light. Omeans turn off infrared Led light
- 7. Snap/Record

Click "Snap" button, to save the picture to the specified file.

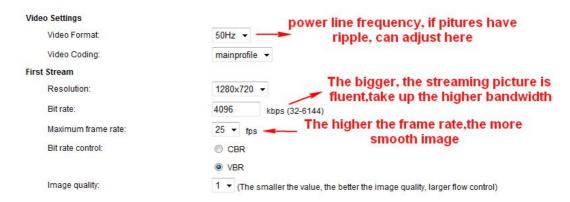
Click "Record" button to start record. Click again to stop record.

- 8. Preset, when you set camera to a position, and then click "Set", after the camera was changed the direction, click "Go" can move the camera to the position you have set.
- 9. Click Settings, enter to the management interface.
- 10. Connection status
- 11. Display record status: if click "Record", it will show "REC" which stands for recording; click record button again, it will stop.
- 12. means zoom in, means zoom out. means return to normal situation.
- 13. Audio play button: it can play out the sound which collected by the equipment on the computer, click it again, it will stop playing.
- 14. Talk button: it can transmit the sound which collected by the computer to the equipment, and played out by the speaker which was connected to the equipment. Click it again, it will stop playing.
- 15. Set the file saving location: you may set the location for recording and captured picture.

# 3 Advanced Settings

#### 3.1 Video settings

#### 3.1.1 Video settings



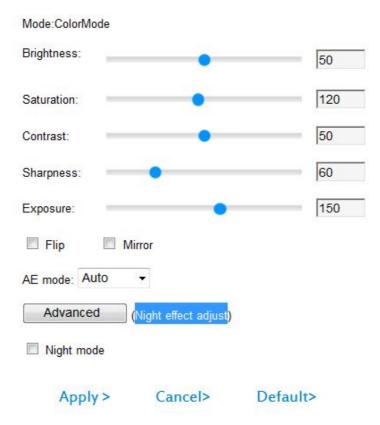
CBR: constant bit rate, video encoder will work according to the fixed settings.

VBR: Variable Bit Rate, video encoder will work variable to make image fluent, only refer to fixed settings.



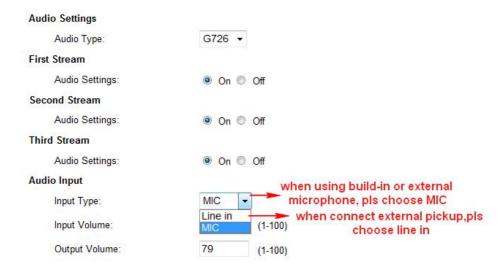
- 1) Video format: If video has ripple, you can adjust to eliminate ripple here.
- 2) Video coding: Main profile or baseline; default main profile.
- 3) Bit rate: The image more smooth, but the higher the bandwidth.
- 4) Parenthesis options: information will be displayed on the monitor screen after opening.

#### 3.1.2 Image settings



- Color adjustment: drag the slider above, user can adjust the brightness, Saturation, Contrast, Sharpness and Exposure to meet their visual user preferences.
- 2) Flip and mirror: set the picture upside down, left and right sides.
- 3) AE mode: automatically, indoor and outdoor exposure.
- 4) Night effect adjust
- 5) Restore the default value: click on the "default" button after restore image parameter values to the factory settings.

#### 3.1.3 Audio settings



Audio formats: currently support G.711 and G.726 two audio coding format, the effect is good, but a larger bandwidth. If you choose to open the audio, then in the corresponding code stream will transmit audio information.

#### 3.2 Network Settings

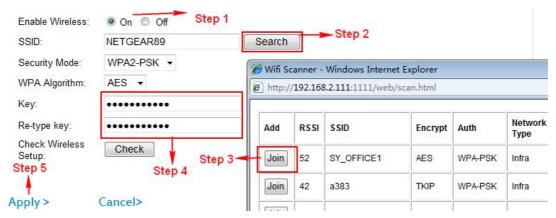
#### 3.2.1 Basic network settings

LAN Settings	
IP Configuration Type:	Fixed IP Address ▼
IP address:	192.168.1.106
Subnet mask:	255.255.255.0
Gateway:	192.168.1.1
DNS Configuration Type:	Manual DNS ▼
Primary DNS:	192.168.1.1
Secondary DNS:	
HTTP&RTSP	
HTTP Port:	80 (80 or1024~49151)
RTSP Port:	554 (554 or1024~49151)
RTSP Permission check:	$\ensuremath{ \odot \hspace{1.5pt} }$ On $\ensuremath{ \bigcirc \hspace{1.5pt} }$ Off (Note:Modify the settings, reboot the device)

- 1) HTTP port: IP address identifies the network device, the device can run multiple web applications, each network program and using network port to transmit data, so data transmission is also can be said to be carried out between the port and port. When do port mapping, need to be consistent with the port (default port is 80). The default port is often occupied by other programs, it is recommended that the reset the port number. Port number range of 80-32767.
- 2) RTSP port: network camera support RTSP protocol, you can use the VLC to play.
- 3) RTSP permissions check: select open need to enter the camera when using RTSP connection login user name and password.

#### 3.2.2 WIFI Settings (Two connection ways)

1. Connected by browsers



- 1) Step 1, Enable wireless
- 2) Step 2, Click "Search"
- 3) Step 3, Choose and Join your router at pop up new window
- 4) Step 4, Fill in user name and password of your router
- 5) Step 5, Click Apply
- 2. Connected via WPS
- 1) Please make sure your wireless router has WPS/QSS.
- Press WPS/QSS button of the router two seconds and check if WPS signal light blinking.
- Press the WPS button of camera 5 ~ 10 seconds, the camera will start WPS/QSS function, and connect your router within 60 seconds automatically.

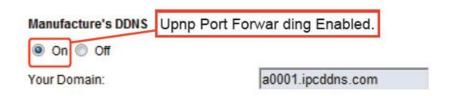
Note: WPS light long time bright means the camera is connecting router.

WPS light blinking quickly means the camera connected router failed WPS light blinking slowly means the camera connected router successful.

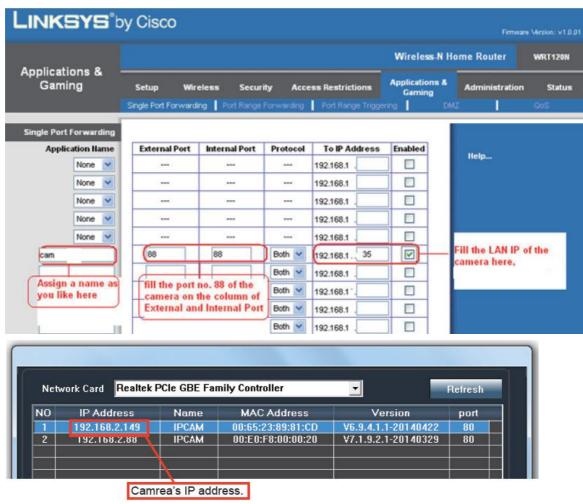
Note: Matching over 60 seconds means not successful, Please try above procedure again. If still failed, please try to connect wifi by browser or mobile phone.

#### 3.2.3 Remote access settings

- 1. Two ways of Port Forwarding
  - 1) Automatic Port forwarding



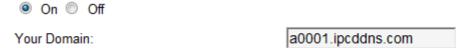
- 2) If automatic UPnP port forwarding failed, please do manually set the router.
- A. Login the router and goes to the menu of Port Forwarding or Port Trigger (or named Virtue).
- B. Take Linksys brand router as an example, Login the router, and goes to Applications & Gaming->Single Port Forwarding.
- C. Create a new column by LAN IP address & HTTP Port No. of the camera within the router showed as below



#### 2. Two ways of DDNS setting

1) After doing port forwarding successful, you can also visit camera by DDNS. The manufacturer has established a DDNS system, and allotted a DDNS to every device, the user can view it from remote PC.

#### Manufacture's DDNS



2) User can also use third party DDNS, such as www.dyndns.com.User must apply a free domain name from this website and fill the info into the below blanks and save the settings. Then the domain name can be used.

# Third Party DDNS On Off Provider: Dyndns.org ▼ User name: myuserid Password: ••••••• Your Domain: mydomain.dyndns.org

3. Using domain name to access the camera via internet, you can use the domain name+ http port to access the camera via internet. Take manufacturer's DDNS a0001.ipcddns.com and http port 88 as an example,

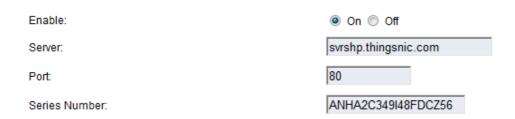
The correct accessing link would be http://a0001.ipcddns.com:88

#### 3.2.4 ONVIF



IP Camera supports ONVIF can achieve compatibility with other manufacturers ONVIF products.

#### 3.2.5 P2P



P2P platform available parameters: server address, server port, and serial number (note: the serial number of each set is unique, cannot be repeated).

# 3.3 Alarm Settings

#### 3.3.1 Motion detection

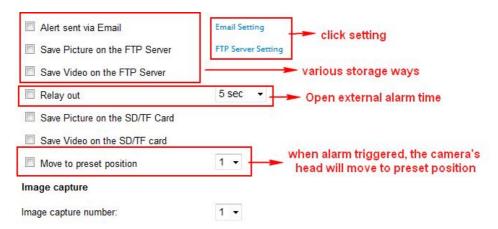


Please click "apply" after settings are done, and motion detection takes effect.

The camera will trigger corresponding alarm when the detection area occur any change.

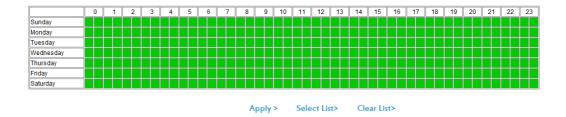
#### 3.3.2 Alarm mode settings

After camera triggers the alarm, it will store the capture pictures and videos according to your setting ways, for example, store in SD/TF, or upload to FTP, or email you, etc.



Note: Please insert the SD/TF Card and tick the "Save Video on the SD card", "Save video on the FTP server" will take effect.

#### 3.3.3 Alarm time settings



The device will trigger the alarm only during the scheduled time period, you can select the scheduled time according to your request.

Note: Please make sure your system time is correct before you set the alarm time period. Please refer to chapter 3.5.1 to set system time.

#### 3.4 Advanced Settings

#### 3.4.1 User management



There are 3 levels of user authorization

- 1) Admin: "administrator" has the highest authority. It can do any settings. Factory default password: admin
- 2) User: user can only operate the device but can't do any setting changes. The default password is user.
- 3) Guest: User can view the video, but can't operate the device. The default password is guest.

Note: Please change these 3 level passwords when your first use to ensure your safety.

# 3.4.2 Auto Snapshot



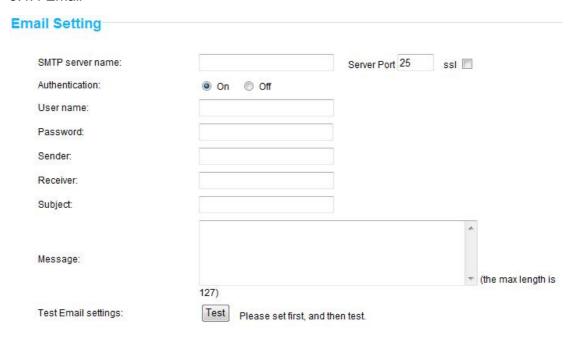
Note: Tick "Save Picture on the SD card", the snap pictures will be stored into SD card during the setting time.

#### 3.4.3 Timing Record

								_																					
Record files duration	n:						60	0			sec																		
Whether to open Record:			0	○ On ⑥ Off																									
Stream:							Fir	rst s	tream	1	•																		
	0	1	2	3	4		5	6	7	8	T	9	10	1	1	12	13	14	15	16		17	18	1	9	20	21	22	23
Sunday				П		$\Box$		П			Т							П		$\Box$									
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Tuesday				П							Т																		
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Thursday Friday																													

Note: Please insert the TF / SD card under powered off state to set timing record.

#### 3.4.4 Email



The blanks must be filled completely and correctly. Any small mistakes will result in setting failed.

Note: The password cannot use special character; otherwise the camera cannot identify it.

#### 3.4.5 FTP

Server Address:	192.168.1.100
Server Port:	21
User name:	test
Password:	•••••
Passive mode:	On
Path:	J
Test FTP settings:	Test Please set first, and then test

Please fill in FTP's user name and password correctly, also reserve some storage spaces for the video and keep FTP's authority of write and creation open.

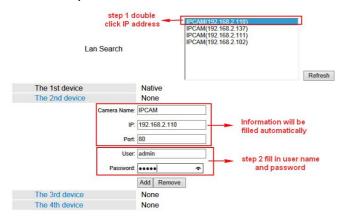
NOTE: The password cannot use special character; otherwise the camera cannot identify it.

#### 3.4.6 PT

PT		
	Cruise Laps:	1 (1-50)
	PT Speed:	Fast ▼
	Auto Center:	On Off
	Turn off motion detection when PT moving:	● On ○ Off
	Apply >	Cancel>

Cruise Laps: Control the laps of "Vertical" and "Horizontal". Auto Center: Set direction of the cameras' head when start

#### 3.4.7 Multiple Devices



You view multiple devices at same time after adding.

#### 3.5 System

#### 3.5.1 Time

Time	
Device Date Time:	2014-06-20 10:59:53
Adjust	
Network Time Protocol 🔽	
NTP Server:	time.windows.com 🕶
Interval:	01 ▼ hours
Time Zone	(GMT+08:00) Beijing,Singapore,Taipei ▼
Sync with computer time >	Apply >

Please select the time zone first.

There are three options to set the time and date, including manual setting, sync with computer time, from network time server.

#### 3.5.2 Initialize

Reboot	reboot
Factory default:	factory default
Backup setting data:	save
Restore:	Browse ok
	Browse ok
Upgrade:	210,00011

Choose "Backup setting data", the camera will generate a file, user can save the setting on your computer. This feature is convenient for user to find the original settings of camera, do not need to set parameters again;

"Upgrade firmware" is to upgrade firmware and web camera system to get the newest software of camera.

#### 3.5.3 System Log

Record all visitors' login and logout time & date.

#### 3.6 Device information

evice ID:	IPCAM	
evice Type:	C6F0SeZ3N0P0L0	
twork connection:	LAN	
rent Client:	0	
vare Version:	V6.1.6.2.1-20131128	
ddress:	00:1C:11:8C:BC:43	
dress:	192.168.1.90	
net mask:	255.255.255.0	
eway:	192.168.1.1	
ary DNS:	192.168.1.1	
dary DNS:		
status:	Disable	
acture's DDNS status:	Disable	
Party DDNS status:	Disable	
t Time:	2013-12-25 09:40:21	
FF card status:	No card	
	Browser SD/TF Card. For	mat SD/TE Card as fat32Format SD/TE Card as fat32.

"Network Connection" will display "LAN" when connected by wired cable or display "Wireless LAN" when connected by WIFI.

"SD/TF status" will display if SD /TF card inserted and the rest capacity.

Note: The device supports max 32G micro-SD card. Please format the micro-SD card to FAT32 before using the card on camera, also please check if micro-SD Card matches the camera or not before purchasing.

# 4 Appendix

#### 4.1 FAQ

#### I have forgoten the administrator username and/or password

To reset the administrator username and password, press and hold down the RESET BUTTON more than 10 seconds. Upon releasing the reset button, the username and password will return to the factory default administrator username and password. Please power on the camera before reset.

Default administrator username and password: admin

#### No video image display in the IE browser

When first using the browser (Internet Explore) access IP Camera, you must install the plug-in.

Installation method: access IP Camera address, click on the "download controls", select "run" or "save" to download. After installation is complete, Refresh web, video image will be displayed.

#### Unable to access IP Camera through IE browser

Reason 1: Network problems

Solution: Connect your PC to the network is able to work properly test the network access, cable failure and network failures, until you can Ping through each other with a PC.

Reason 2: IP address is occupied by other equipment

Solution: Disconnect IP Camera with network connectivity, separate the IP Camera and PC are connected, re-set the IP address

,

Reason 3: IP addresses are located in different subnet

Solution: Check the server settings, IP address, subnet mask and gateway

#### IP camera has been connected to the Internet but cannot access.

Following reasons

1 for the first time to visit, please allow IE to load ActiveX.

2 IP camera Http port was blocked by the firewall or antivirus software. In this case, please change the port number of the equipment.

3 Confirm the network dynamic domain name, IP or port mapping have been set correctly.

#### 4.2 Common IP camera network ports occupied

ТСР	80	Http Port  Communication ports, audio and video data transmission
UDP	554	RTSP Port
ONVIF	8080	ONVIF Port

### Disclaimer:

This manual describes the content that you may now use the version with a difference, have encountered insurmountable problems if you are using this manual, please contact our technical support or product suppliers.

The manual will be updated from time to time; the company has the right without prior notice.