User Manual

STAINLESS STEEL IP CAMERA

V1.0_20180912

IP Solutions

STAINLESS STEEL IP CAMERA

This is a **1 / 2.8" Megapixel CMOS Sensor** stainless steel IP camera with a built-in web server.

The user can view real-time video via IE browser. It supports **H.264+**, **H.264,** and **M-JPEG** video compression, providing smooth and high video quality.

With a user friendly interface, it is an easy-to-use IP camera for security applications.

Topics

Inside the folder '**Topics**' you will find the documentation related with this IP Camera. You can click on '**Read More**' for directly opening the file regarding the topic you would like to read.
Adobe Acrobat is recommended.

I. Warnings, Cautions and Copyright Read More

II. Product Specifications Read More

Product features, spec table and pictures.

STAINLESS STEEL IP CAMERA

III. Product Installation

A. Monitor Settings

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STAINLESS STEEL IP CAMERA

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Event Setting, Motion Detection, Record Time Setting, Schedule, Log List.

STAINLESS STEEL IP CAMERA

Warnings, Cautions, Copyright, Terms of Use and Maintenance

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

CAUTION

<table>
<tr><td>  </td><td>CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN</td><td>  </td></tr>
<tr><td colspan="3">CAUTION：TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</td></tr>
</table>

COPYRIGHT

THE TRADEMARKS MENTIONED IN THE MANUAL ARE LEGALLY REGISTERED TO THEIR RESPECTIVE COMPANIES.

Intended Use of the Camera

Certification	Mark
ATEX	Ⓔx II 2G Ex db IIC T6 Gb
ATEX	Ⓔx II 2D Ex tb IIIC T85ºC Db
IECEx	Ex db IIC T6 Gb
IECEx	Ex tb IIIC T85ºC Db

Hazardous Area Classification: Zone 1, Zone 2, Zone 21, Zone 22.

IP Degree: IP68, IP69

Ex Standards: IEC 60079-0: 2011 EN 60079-0: 2012
IEC 60079-1: 2014 EN 60079-1: 2014
IEC 60079-31: 2013 EN 60079-31: 2014

Nameplate

Special Conditions for Safe Use

To prevent hazardous situation and unnecessary property loss, it is essential that the user have a clear understanding of how these instructions are executed as they are introduced below.

- An irreparable damage may be done to the camera by attempting to disassemble the machine without supervised or authorized assistance from our service or approved local dealers.
- The process of installation should be conducted by professional personnel with approved qualification and must comply with all local codes.
- An alternate source for electricity supply (i.e. power supply circuit) is recommended to keep up the monitoring operation during any form of accidental power outage.
- Please ensure the camera mount takes place at a position or area which can withstand the camera weight before its installation.

- Ensure the electricity range of voltage for supplying power to the camera is compatible.
- Prevent any possibility of dropping the camera while carrying or handling it with care.
- Keep the sensor module away from contacts with bare hands.
- The camera lens could be seriously damaged by intentionally focusing at glaring light source such as sunlight or incandescent light bulbs.
- For proper protection, please keep the camera away from environments where laser equipment is near. For it may also cause damage of the sensor within the camera.
- Keep the environment temperature between -40°C to +60°C.
- Avoid any exposure to high electromagnetic radiation.
- To avoid the risk of fire or electric shock, do not expose this product to rain or moisture.

Maintenance

- While the camera is being assembled for operation and maintenance, the operator must follow the requirements of the IEC 60079-14: latest version Explosive atmosphere- Part 14: Electrical installation design, selection and erection, beside of the manufacturer's operation instruction or its National equivalent.
- External surfaces are to be routinely cleaned to prevent accumulation of dust layers.
- Ventilation of the camera is required to be kept clean and dust-free, to prevent heat accumulation.
- Cap the camera lens for keeping its sensor away from dirt if the camera is not occupied in monitoring operation.

Product Repair Service (RMA)

Please make your RMA request by directly contacting our sales representative regarding any product failure or warranty problem. We will process our repair service and a report will follow once we receive the product within 7 days.

Repair Service Report Center

HUNT ELECTRONIC CO., LTD.
22183 9F., No.171, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan.
Tel : +886-2-8692-7999

Product Specifications

Main Features:

- Certification for use in Zones 1 and 2 IIC T6 Group(Gas) and Zones 21 and 22 IIIC T85ºC Group (Dust)
- 1080P@30FPS
- 10x Bulid-in Zoom Lens
- H.264+/ H.264/ M-JPEG Video Compression
- Smart Focus System for Remote Focus Adjustment
- Power over Ethernet
- IR Cut Filter Mechanism
- Day & Night Manual Switch Time Control
- Smart Stream
- ROI Function
- IP68, IP69
- NEMA 4X
- Support iPhone/Android/Mac
- SDK for Software Integration
- Free Bundle 36 Ch Recording Software

Certification	**Mark**
ATEX	II 2G Ex db IIC T6 Gb
ATEX	II 2D Ex tb IIIC T85ºC Db
IECEx	Ex db IIC T6 Gb
IECEx	Ex tb IIIC T85ºC Db
Explosion Proof	
Housing Material	AISI 316L Stainless Steel
Hardware	
CPU	Multimedia SoC
RAM	512MB
Flash	32MB

Image Sensor	1 / 2.8” Megapixel CMOS Sensor
Sensitivity	Color : 0.005 Lux (AGC ON) B / W : 0.001 Lux (AGC ON)
Lens Type	5-50mm 10X Bulid-in Zoom Lens @ F1.6
View Angle	6.2~46°(H), 4~25.2 °(V)
Power over Ethernet	Yes
Power Consumption	PoE Max: 2.88 W DC 12V Max : 2.28W
ICR	IR cut Filter Mechanism
Operating Temperature	-40°C ~ 70°C
Dimensions	142.25mm (∅) x 224mm(H)
Enclosure Certificate	IP68, IP69, IK10
Alarm In/Out	1DI / 1DO
Sunshield	Yes
Wide Dynamic Range	120dB
Audio	G.711(64K) and G.726(32K,24K) audio compression Input : 3.5mm phone jack Output: 3.5mm phone jack Support 2-way.
RS485	1
Cable Length	4M
Weight	6.8kg
Micro SD Card Management	
Local Storage	Industrial 64 GB Micro SD card built in (optional)
Recording Trigger	Motion Detection, IP check, Network break down (wire only),Schedule, DI
Video Format	AVI , JPEG
Video Playback	Yes
Delete Files	Yes
Network	
Ethernet	10/ 100 Base-T
Network Protocol	IPv6, IPv4, HTTP, HTTPS, SNMP, SSL, TLS , DNS , ICMP, IGMP, ARP, SNTP, QoS/DSCP, Access list, IEEE 802.1X, RTSP/RTP/RTCP, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP, SAMBA, Bonjour
System	
Video Resolution[16:9]	1920x1080@30fps, 1280x720@30fps, 640x360@30fps

Video Adjust	Brightness, Contrast, Hue, Saturation, Sharpness, AGC, Night Mode, T-WDR, Flip, Mirror, Noise Reduction, Day&Night Adjustable
Features	ROI, Smart Stream, Motion Detection, Privacy Mask, Anti Fog, BNC, Tampering Detection, Corridor Mode, 3-Axis Cable Management, IP66, BNC, Push Video
Quadruple Streaming	Yes
Image Snapshot	Yes
Full Screen Monitoring	Yes
Privacy Mask	Yes, 3 different areas
Compression Format	H.264+/ H.264/ M-JPEG
Video Bitrates Adjust	CBR, VBR
Motion Detection	Yes, 10 different areas
Triggered Action	Mail , FTP , SAMBA , Dropbox , Google Drive
Security	Password protection, IP address filtering, HTTPS encrypted data transmission, 802.1X port-based authentication for network protection, QoS/DSCP
Firmware Upgrade	HTTP mode, can be upgraded remotely
Simultaneous Connection	Up to 10
Focus Mode	Auto, Manual
Web Browsing Requirement	
OS	Windows 7, 8, 10, XP, Microsoft IE 6.0 or above
Mobile Support	iOS 8 or above, Android 4.0.4 or above.
Hardware Suggested	Intel Dual Core 2.8G,RAM, 4GB, Graphic card: 128MB

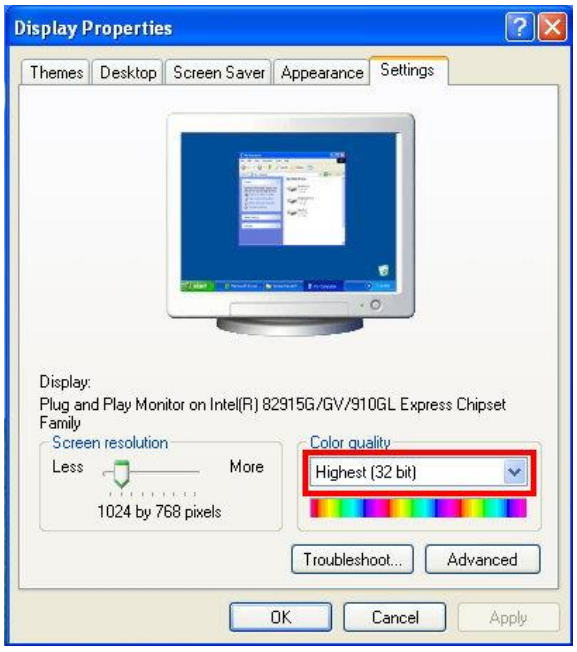
*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION.

Monitor Settings

Caution: This setting only applies to Windows 7 system users.

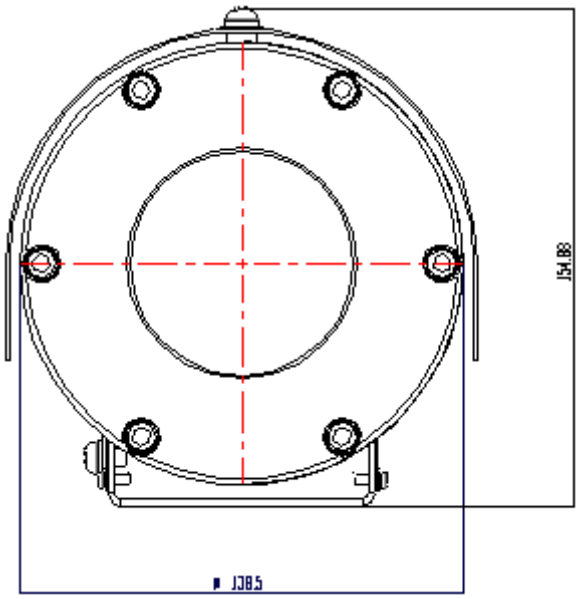
1. Right-Click on the desktop. Select **Properties**

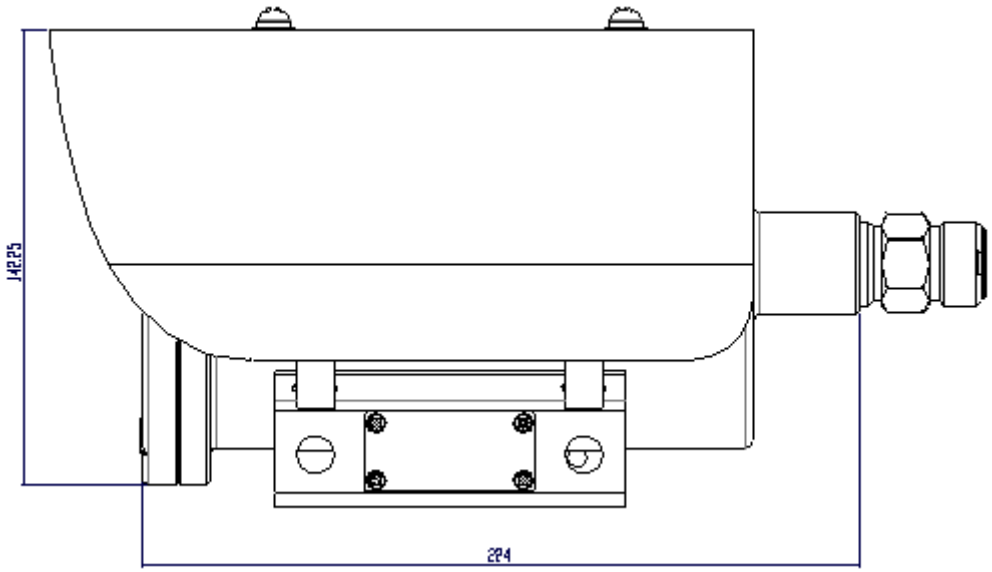
2. Change color quality to highest (**32bit**).



Hardware Installation

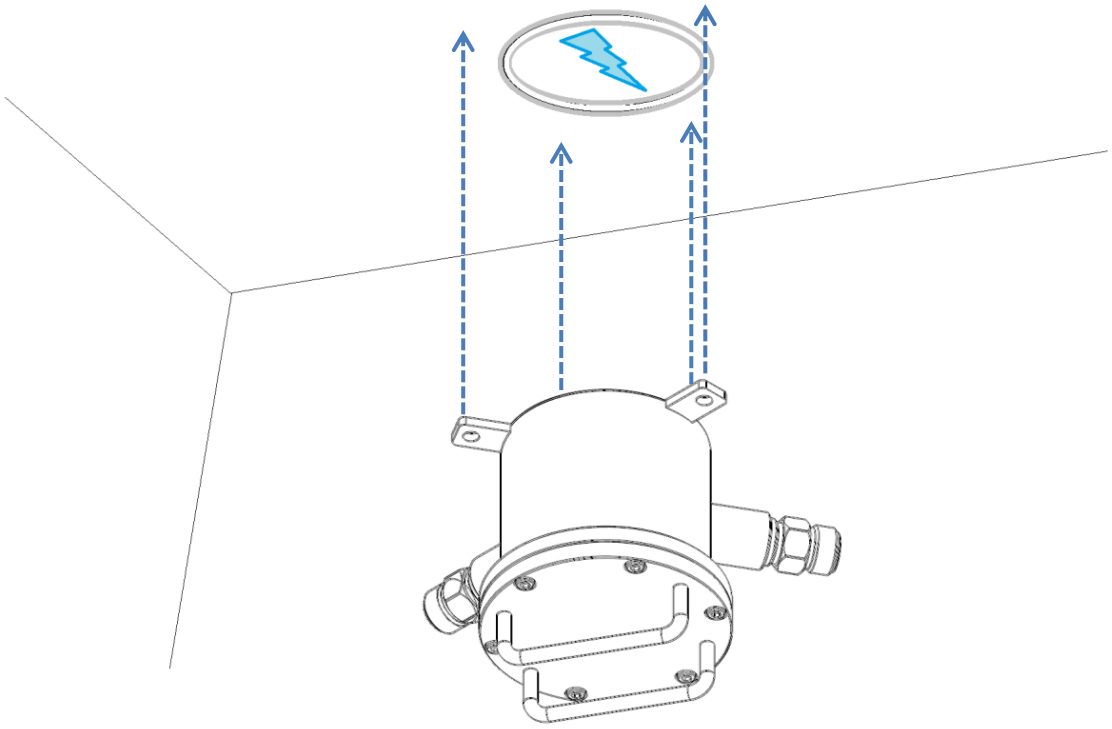
Camera Without Bracket



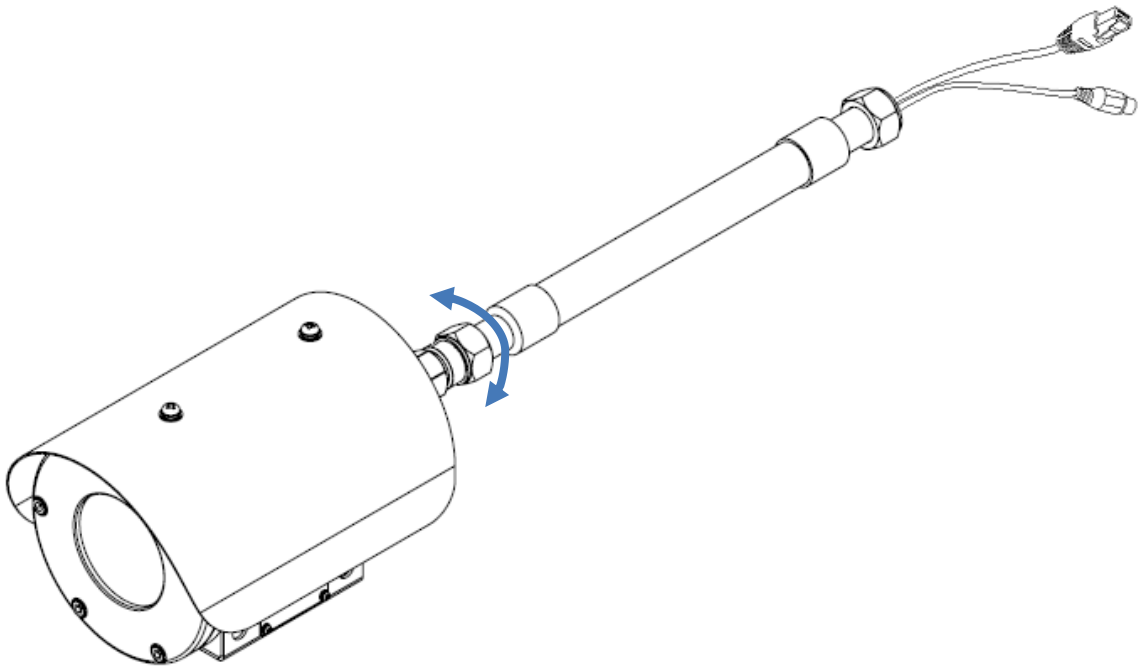


1. Camera With Bracket: Installation Steps

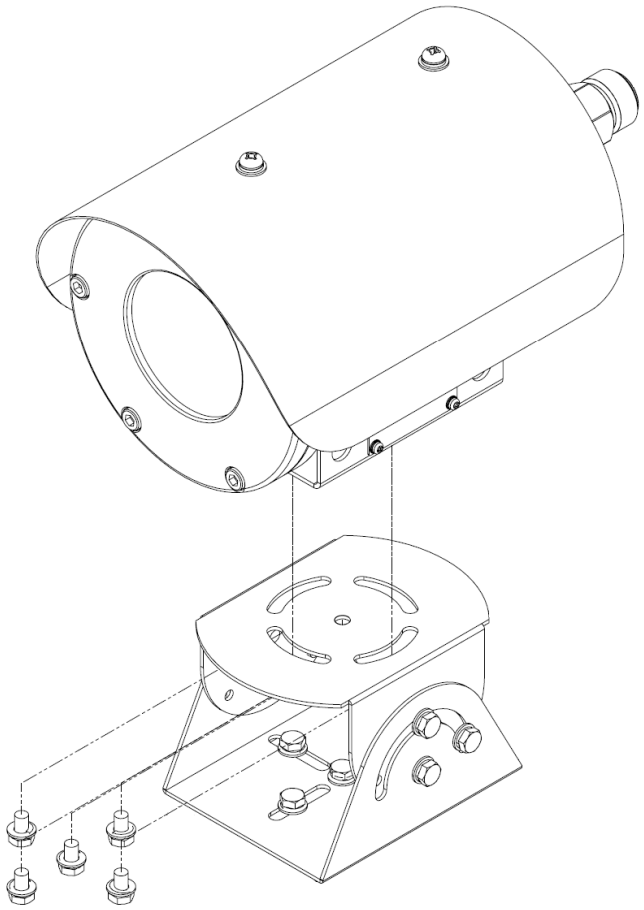
A. Mount the **Junction Box** on top of where the power socket and internet outlet are. Make consideration for this process in relation of setting up a functional surveillance site.



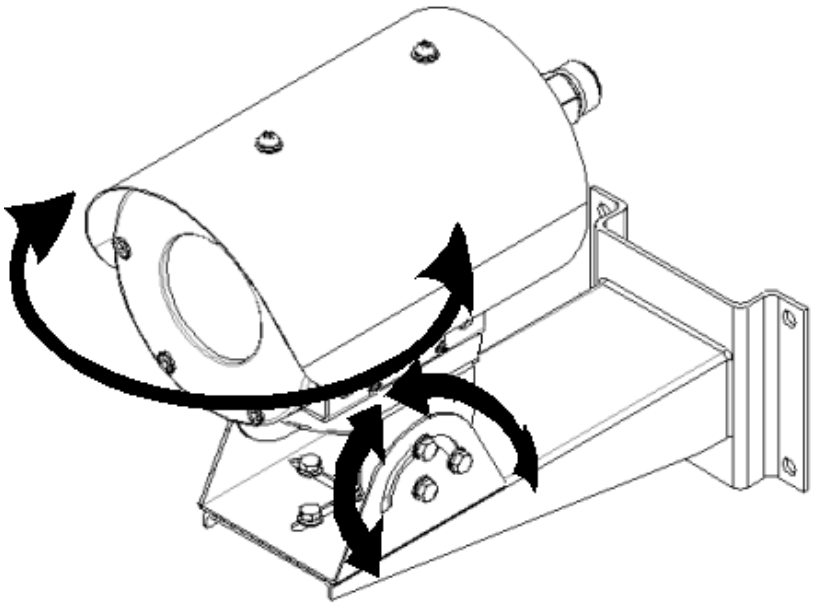
B. Pull the cables of the camera through **winding tube**, and then join & tighten the lug nut unto the thread of the camera.



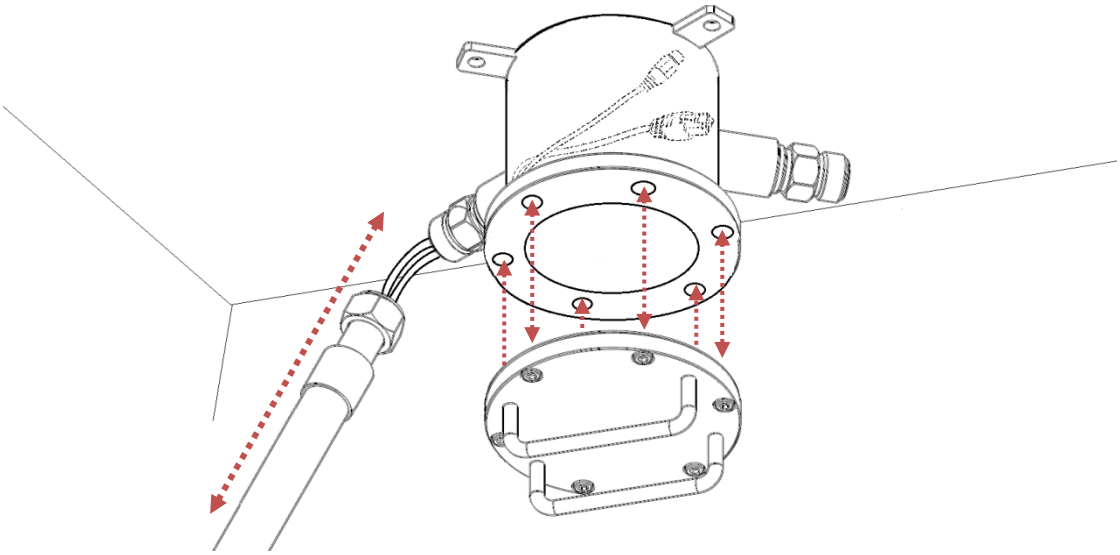
C. Install the **mount base** of the camera unto the **pedestal bracket** with washers and screws.



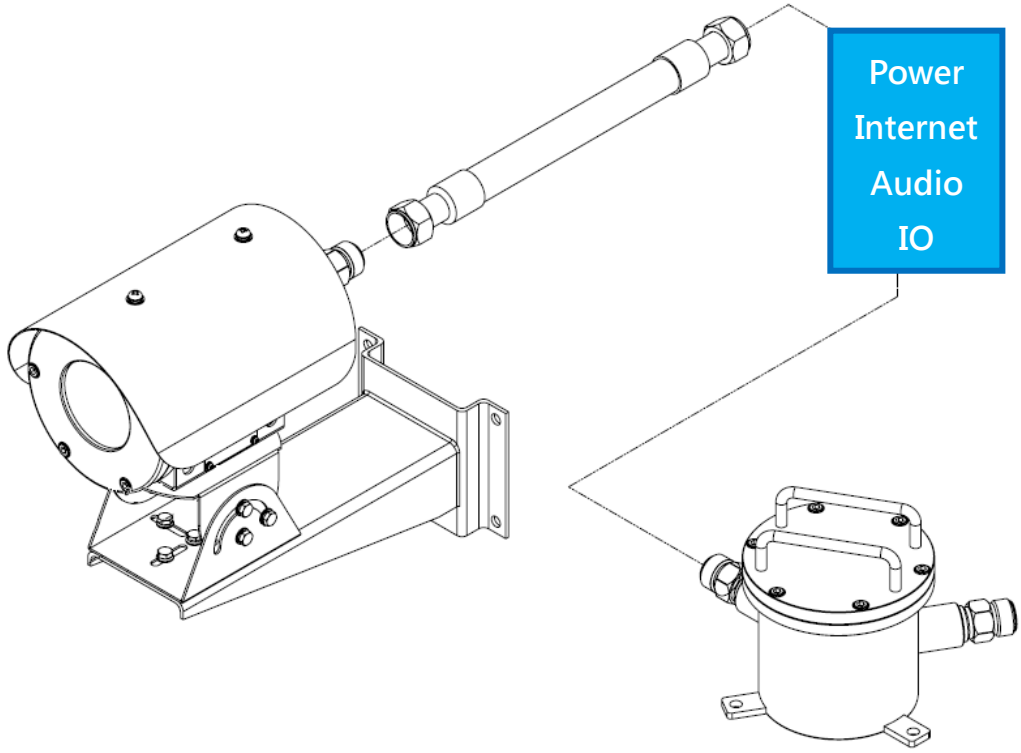
D. Adjust the tilting position and the panning angles for the **pedestal bracket** and the **camera base** for manageable monitoring performance.



E. Take the lid off the **junction box** with screwdriver first to allow any physical contact with the power socket and internet outlet. Grab the cables out of the **winding tube** into the thread from the **junction box** inside (sort out the cables if necessary). Finally, use screwdriver to close & seal the lid of the **junction box** right after it is properly assembled with the **winding tube**.

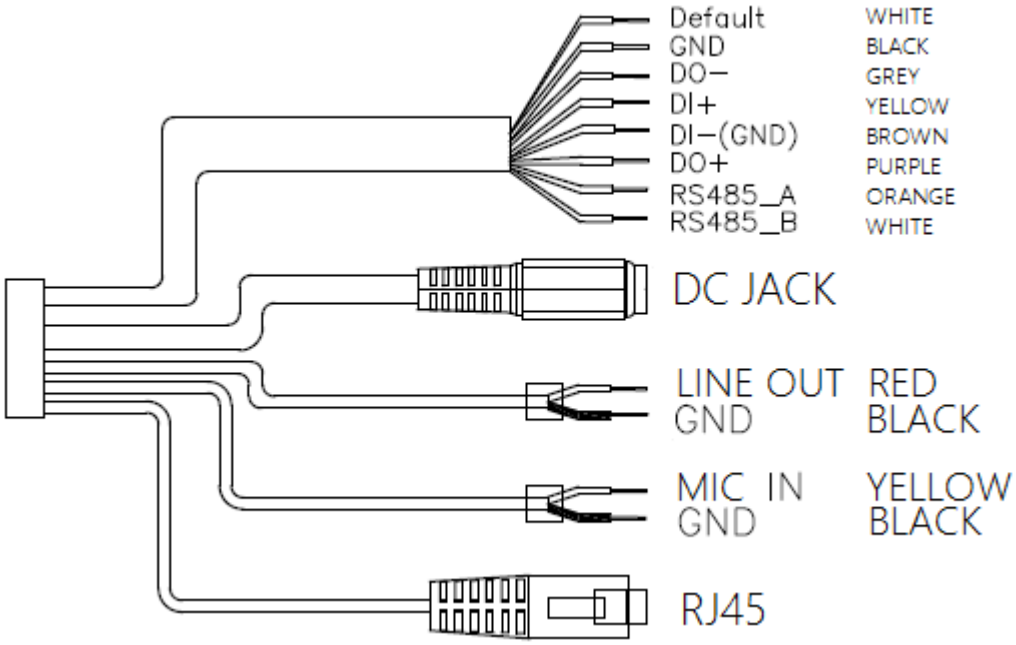


F. It is crucial to erect the camera where observation angles are efficient, and please ensure the distance which the cables make between outlets and the camera is within a technically effective range.



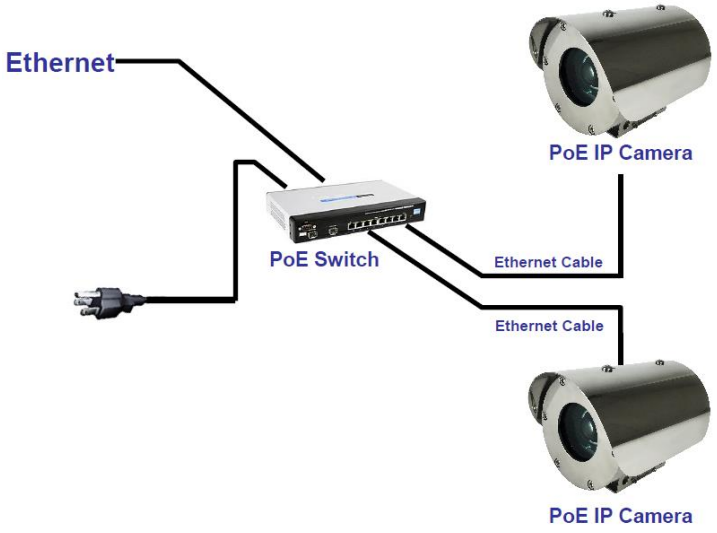
2. Connector Instruction

Connect power adaptor first then the IP Camera to PC or network, and set up the network configurations according to the network environment. Please refer to User Manual: I/O Configuration chapter for more descriptions.



3. PoE (Power Over Ethernet) (Optional) 60W PoE single port recommended

Power over Ethernet (PoE) is a technology that integrates power into a standard LAN infrastructure. It provides power for a network device, such as a network camera using the same cable for network connection which eliminates the need for power outlets at the camera locations and enables easier application of uninterruptible power supplies (UPS) to ensure 24 hours a day, 7 days a week operation.



IP Assignment

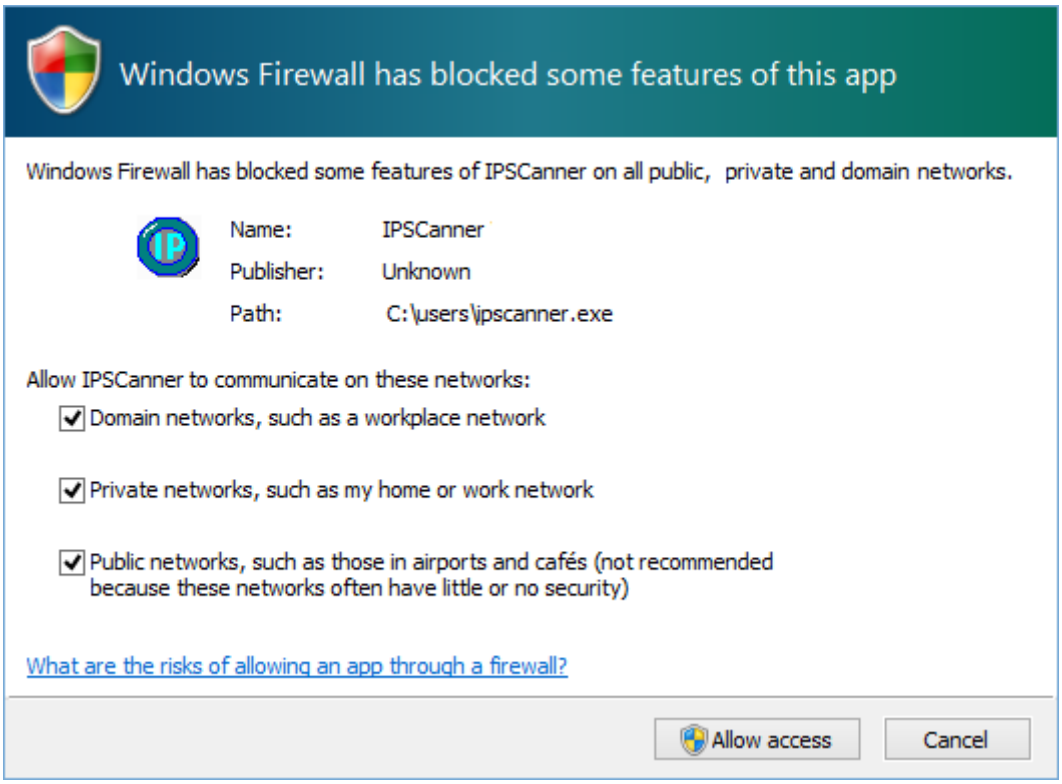
i. Open the software **IP Scanner** to assign the IP address of the IP Camera. Find this software in the **Applications** folder in the software CD attached to the product's package.

ii. **IP Scanner** supports two languages: This manual is for English version.

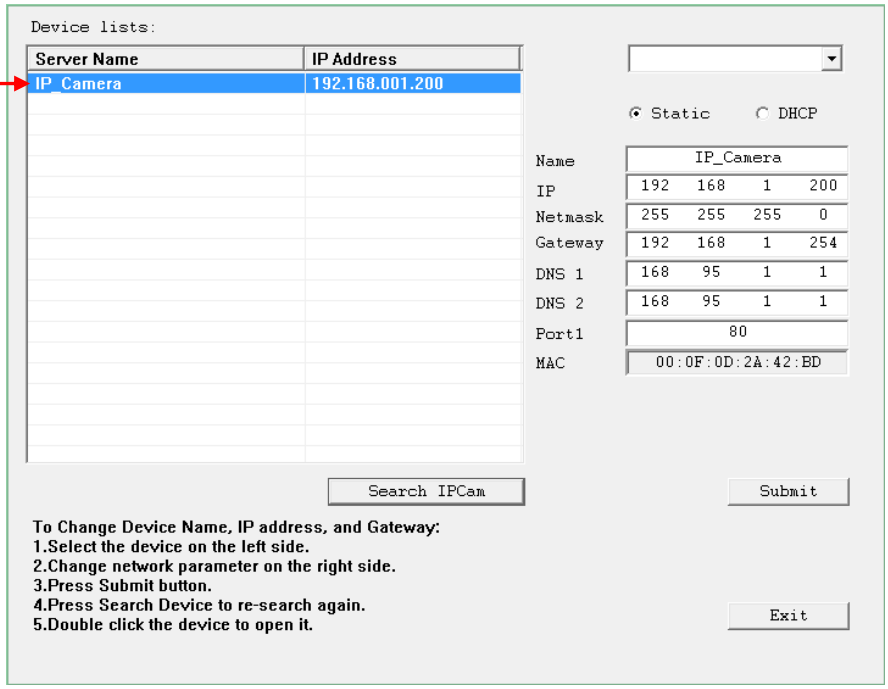
iii. There are 3 kinds of IP configuration.
   a. Fixed IP (Public IP or Virtual IP)
   b. DHCP (Dynamic IP)
   c. Dial-up (PPPoE)

iv. Execute the English version of **IP Scanner**: **IPScannerENG**

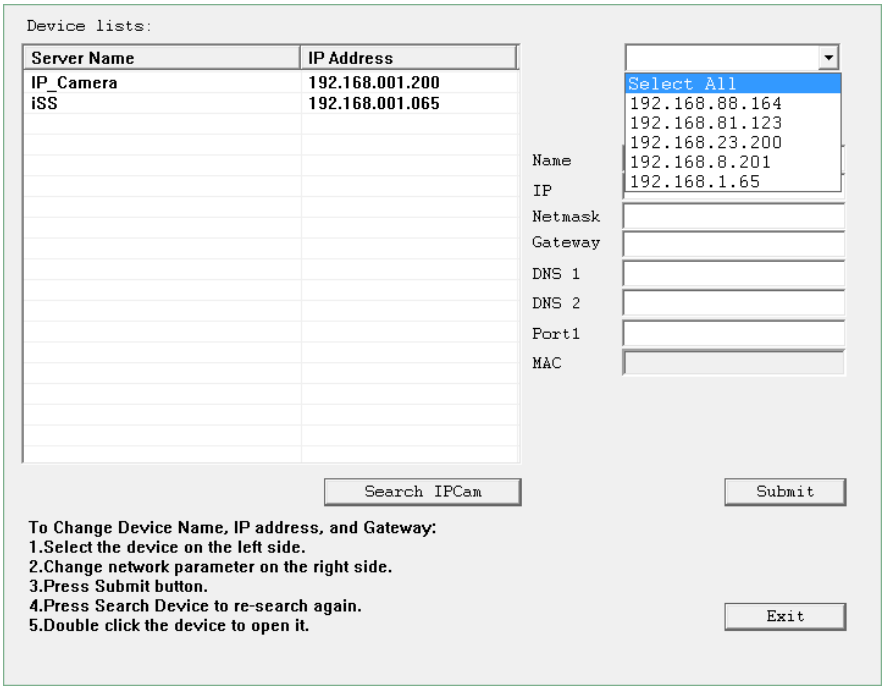
v. For Windows XP SP2 or above, a Windows Security Alert may pop up. Choose the network type based on your surveillance environment, and click on **Allow access**.



vi. **IP Scanner** will search for all the IP Cameras connected on the LAN. The user can click **Search IPCam** to search again.



Click one of the IP Cameras listed on the left side. The network configuration of this IP camera will be shown on the right side once you highlight the device with your mouse. You can change the **name** of the IP Camera to your preference (e.g.: Office, warehouse). Change the parameters and click **Submit**.



You can select different network cards that you are currently connected to from the drop-down menu at the top right corner.

You can select the online device from a specific network card in **Device lists**, or choose **Select All** to include all network card devices in **Device lists**.

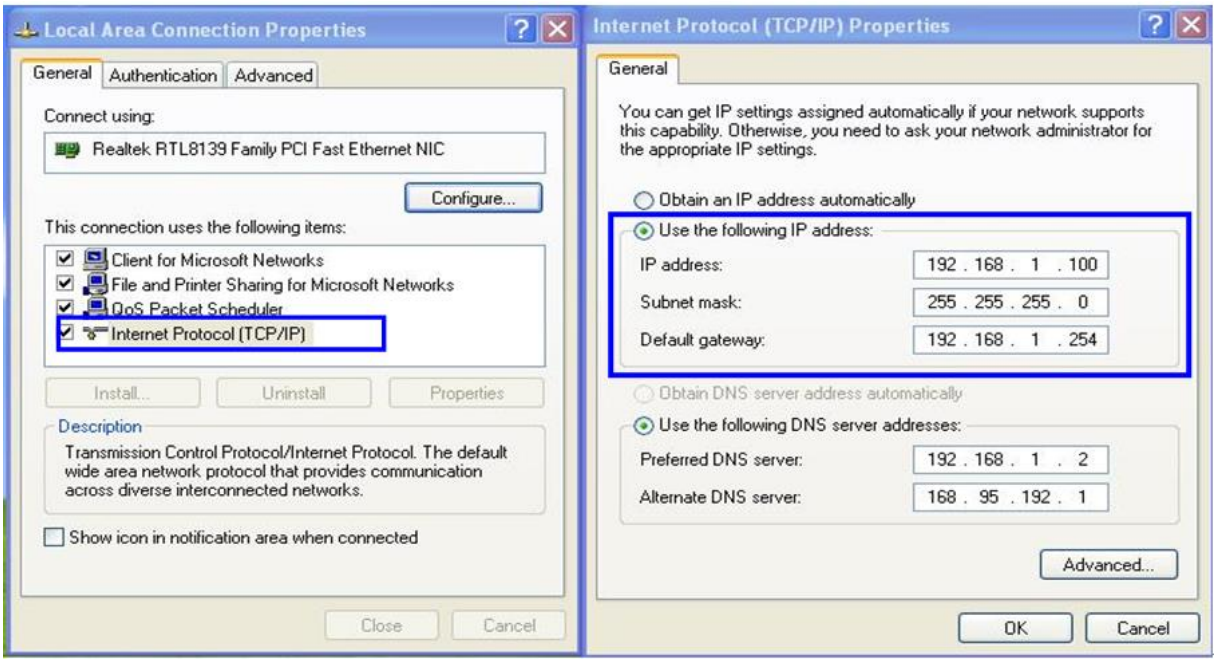
vii. Please make sure the subnet of the PC IP address and the IP Camera IP address are the same.

The same Subnet	**Different Subnets**
IP Camera IP address: 192.168.1.200	IP Camera IP address: 192.168.2.200
PC IP address: 192.168.1.100	PC IP address: 192.168.1.100

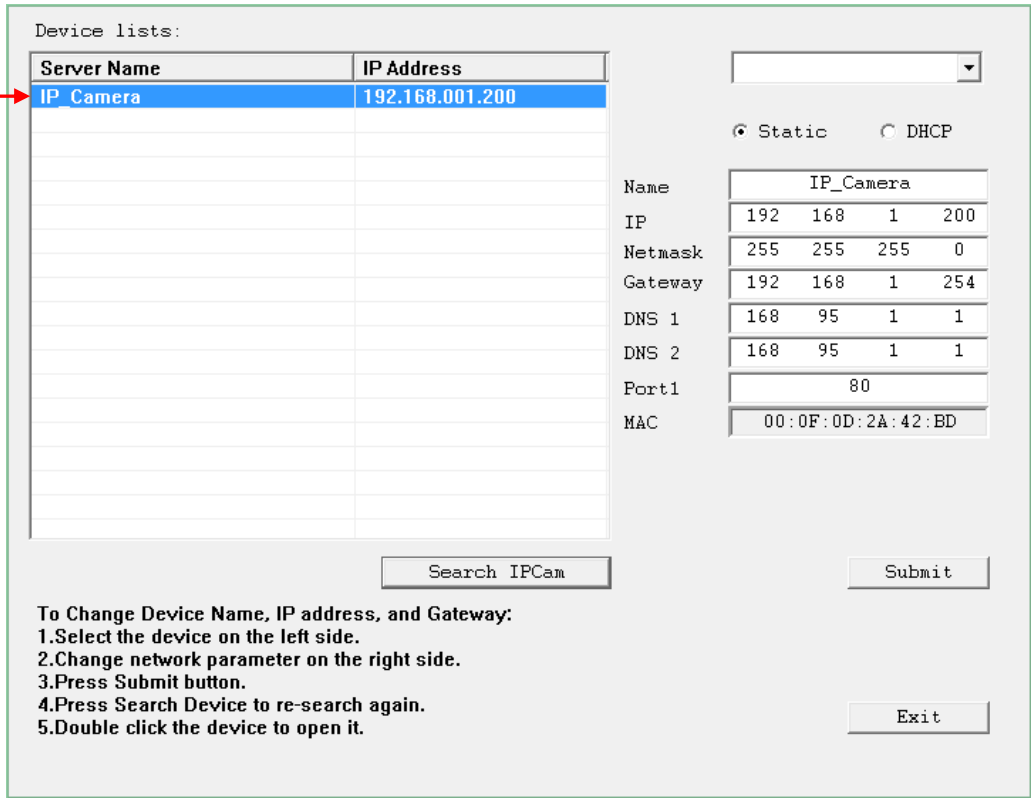
To Change the PC IP address

Control Panel→Network Connections→Local Area Connection Properties→Internet Protocol (TCP/IP) →Properties

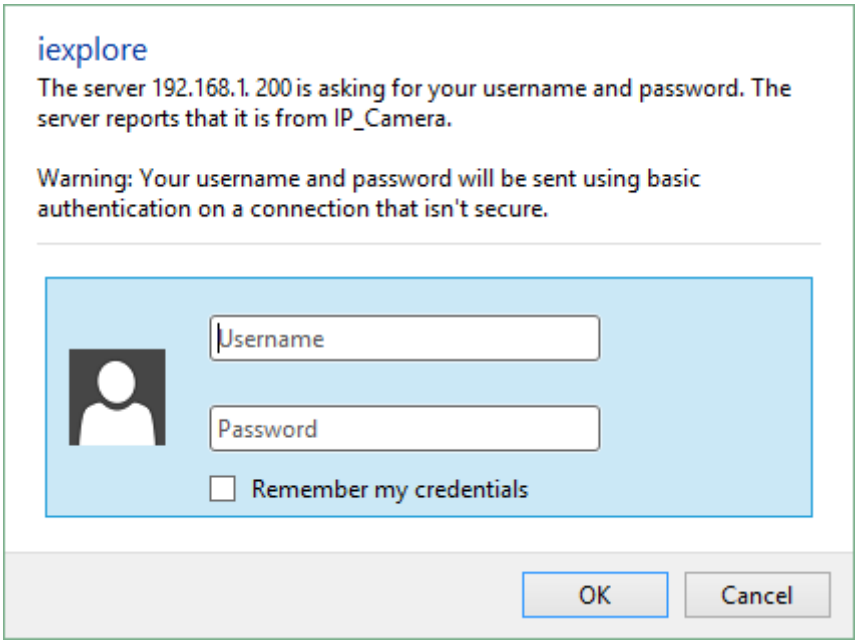
Make sure your IP Camera and PC are in the same Subnet. If not, change the IP Camera subnet or the PC IP subnet accordingly below.



viii. To quickly access remote monitoring, left-click the mouse twice on the selected IP Camera listed under **Device list** of **IP Scanner**.



ix. A default network browser of the camera control interface will open. Enter **admin** for both Username and Password to gain access.

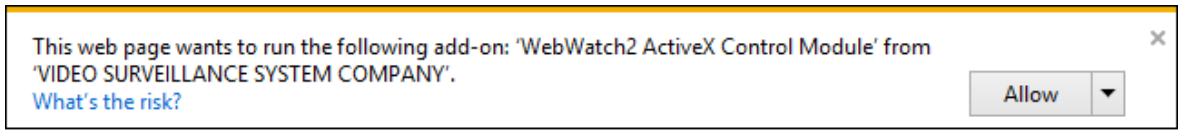


Install ActiveX Control

1. For users using IE 6.0 or above:

When viewing the camera video for the first time via IE, the browser will ask you to install the **ActiveX** component.

Choose '**Allow**'



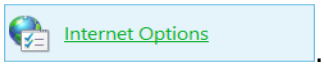
The ActiveX component should then be completed and user will be able to view the live video screen.

If the installation fails, please check the security settings in the IE browser.

Follow the steps below:

1) Go to **Start-Up Menu**  on the lower left corner of the **Windows**

2) Select **Control Panel** 

3) Double-click on 

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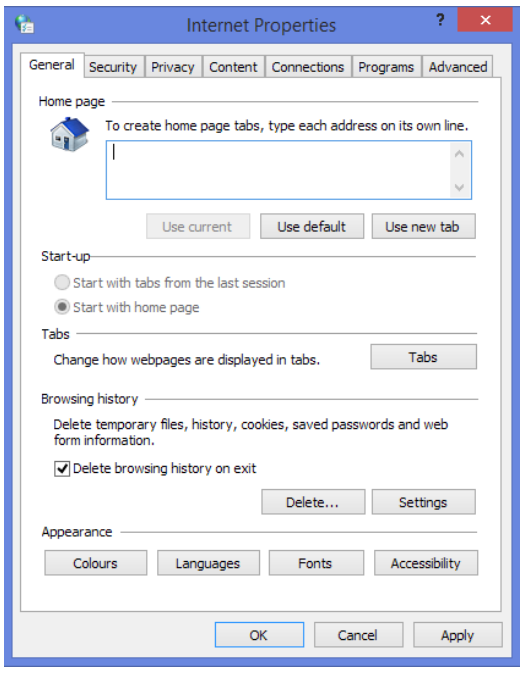
4) You will then enter the page of **Internet Properties** settings.

5) Starting from **Internet Properties**, proceeding step **A** and **B:**

   A. Security → Custom Level → Security Settings → Download unsigned ActiveX controls → Enable or Prompt (recommended).

   B. Security → Custom Level → Security Settings → Initialize and script ActiveX controls not marked as safe → Enable or Prompt (recommended).

1



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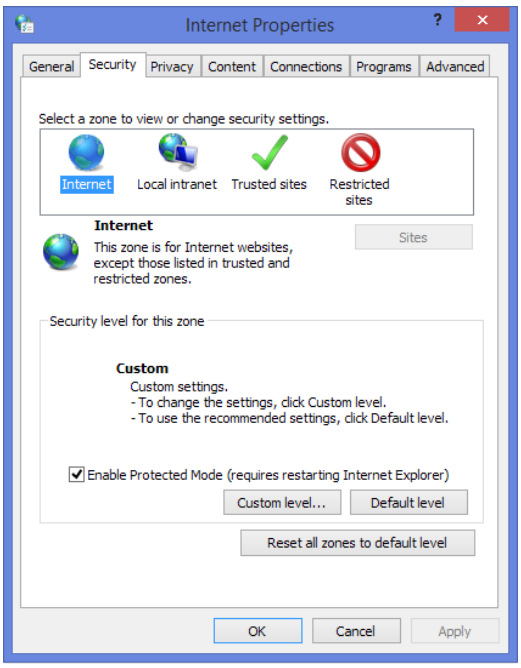
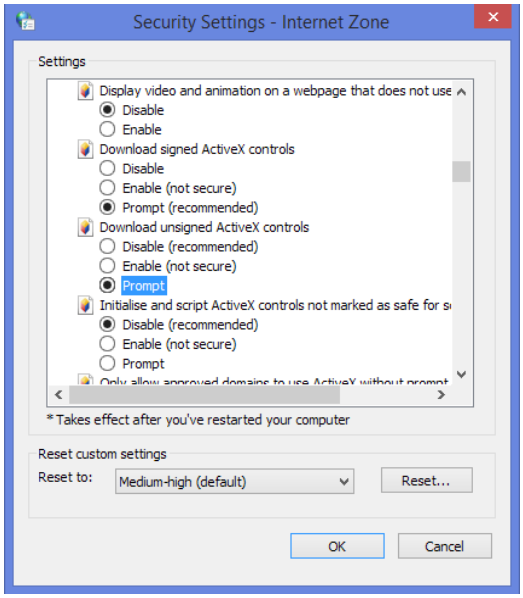


3



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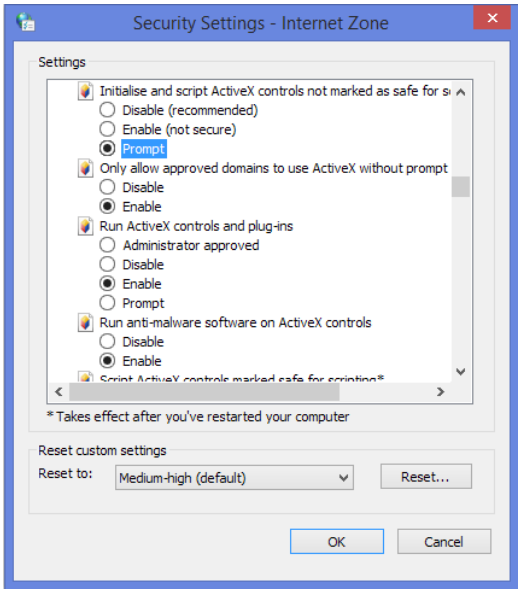
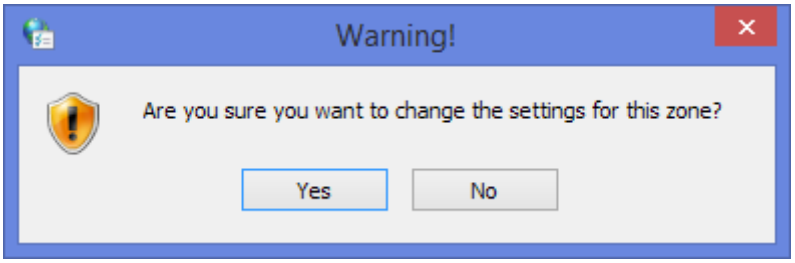


5

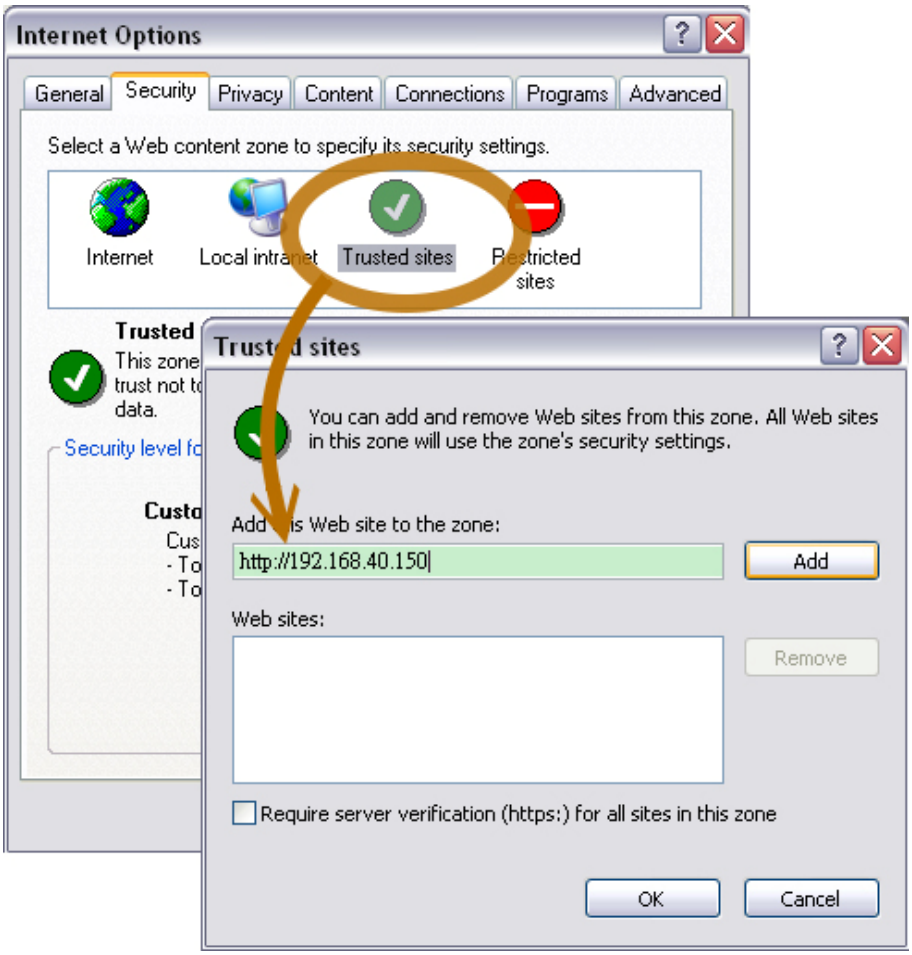
When popup the following dialogue box, click **Yes**.



2. You can choose another method:

Go to: IE→Tools → Internet Options… → Security Tab → Trusted sites → Add the IP address and click **OK**.

In the site list you can key in one single IP address or a LAN address.
For example, if you add **192.168.21.***, all the IP address under **21.*** on the LAN will be regarded as trusted sites.

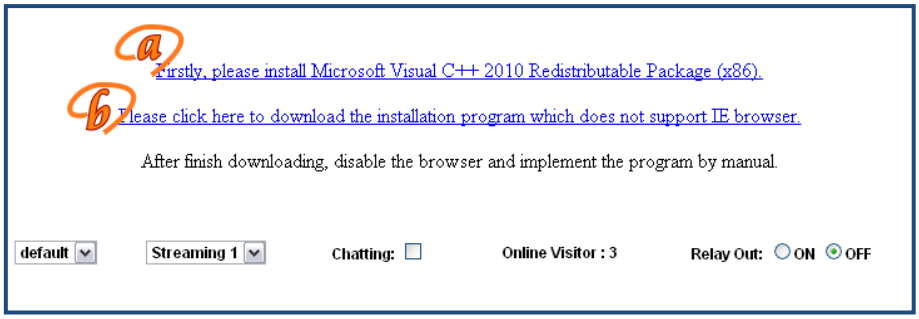


3. For Non-IE Web Browser Users

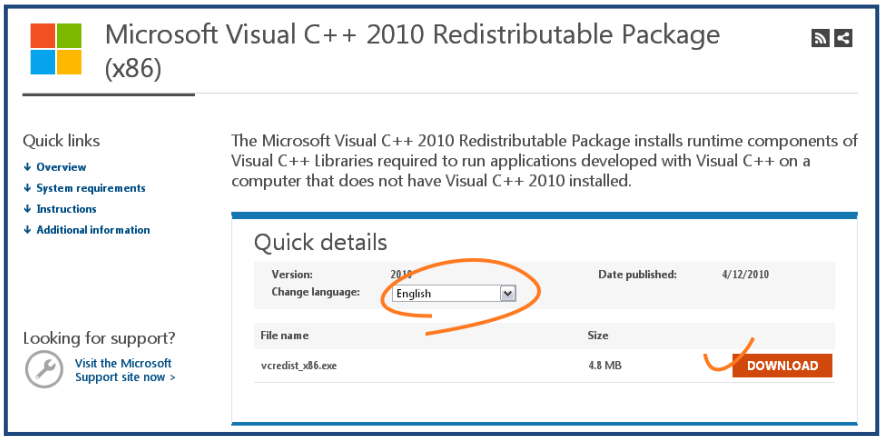
If you use Firefox or Google chrome to access the IP camera but fails to watch the live video, please follow the steps to install necessary tools: (The following pictures are based on chrome.)

A. You may see the prompt message as the picture below. Click the **a** link:

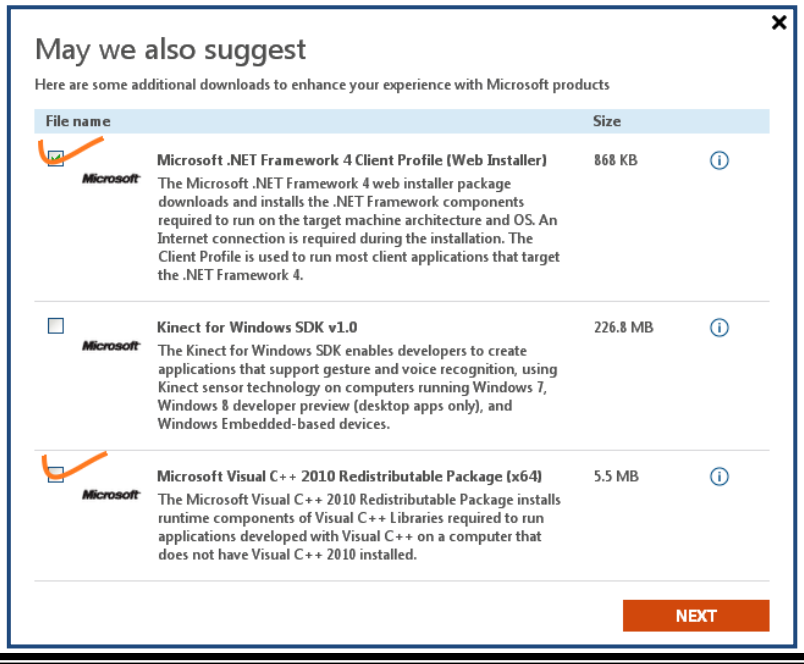
Firstly, please install Microsoft Visual C++ 2010 Redistributable Package (x86).



The link will conduct you to the Microsoft official site where you can download the tools. Please select the language and click **download**.



In the pop-up window, please tick the first and the third file as the picture below.



Click **Next** to download both **Microsoft .NET Framework 4 Client Profile (Web Installer)** and **Microsoft Visual C++ 2010 Redistributable Package (x64)**.

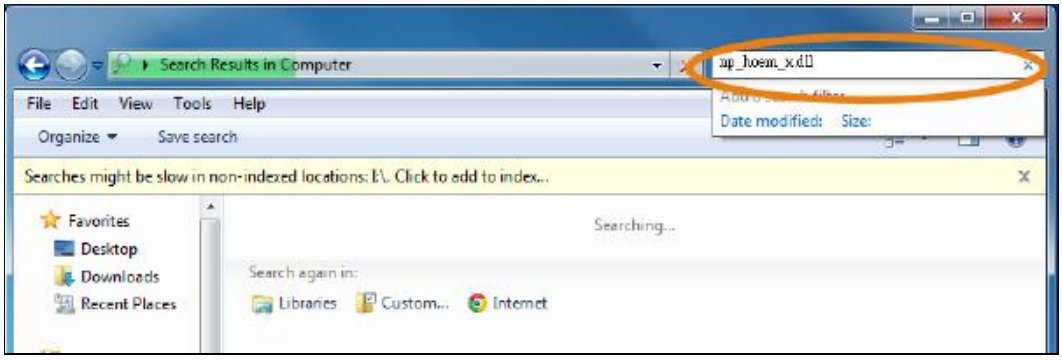
After finishing downloading, execute the two files respectively to install them. The windows may ask you to reboot the PC when the installation is finished.

B. Then, click the second link **Please click here to download the installation program which does not support IE browser** to download Setup ActiveX.

After finishing downloading, execute the files to install **ActiveX**. Then restart the browser.

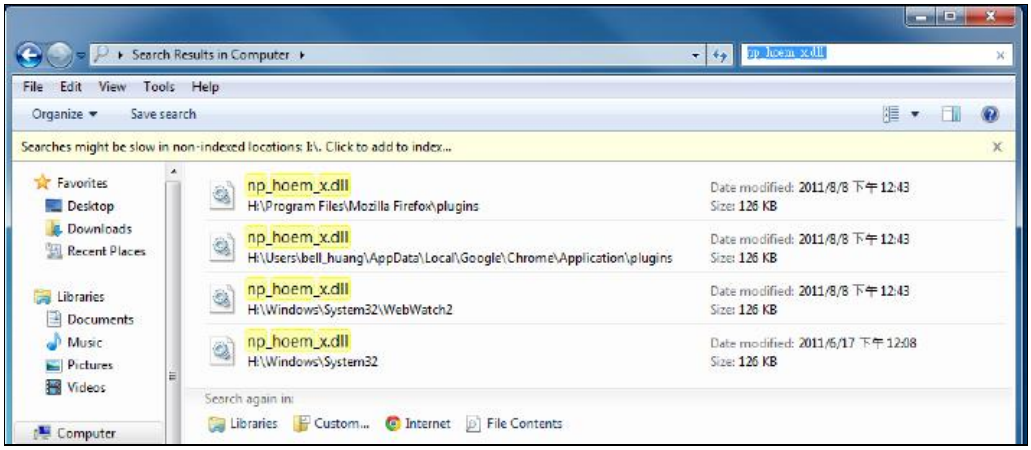
C. If you execute the steps above but still cannot see live video normally, please try the following solution:

Search for the file **np_hoem_x.dll** in your system disk. For Windows XP users, please go to **Start** → **Search** → Search for **All files and folders** and key-in **np_hoem_x.dll**. For Windows 7 users, please use the search bar on the top-right of the Windows Explorer.

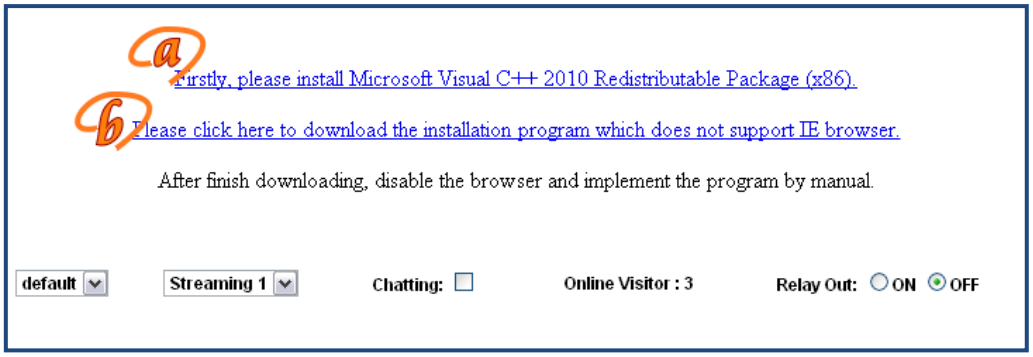


Delete all the files named **np_hoem_x.dll**. They're the **ActiveX** control tools installed in your computer, but the old version of **ActiveX** might not be compatible with the new version of the browser.

Therefore, they need to be deleted in order to install the latest **ActiveX** control.

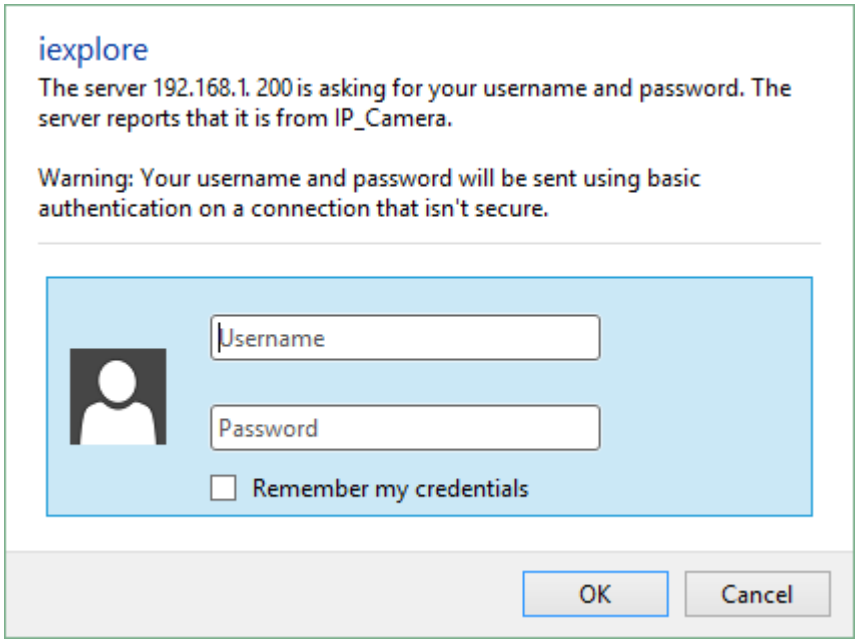


Start your web browser, and repeat the **step A: Download the installation program which does not support IE browser** to download and install **ActiveX**.



Live Video

Start an IE browser, input IP address of the IP camera in the address field. A dialogue box will pop up as below. Log in with username and password using **admin**.



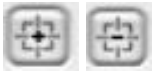
When IP Camera is successfully connected it shows the following interface.

Full Screen Mode: Double-clicking on the video screen will enter the full screen mode. Press “Esc” on your computer keyboard or double-click the video screen again for returning to normal screen mode.

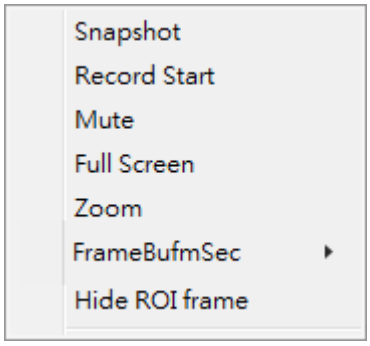
Please change default password is a sign which flickers on the live view screen as a reminder, to suggest the user to change the default password. You may configure the login settings in System to secure your account privacy.

A. Live Video Panel

1. Click  - Get into the administration page.
2. Click  - A snapshot preview window will appear. Choose  to save the current snapshot or choose  to discard it.
3. Show the system time, video resolution, and other information.
4. default - Adjust image size by its ratio of 1/2x(default), 1x, and 2x.
5. Streaming 1 - Select the video streaming source: If the streaming 2 is set closed in Video Setting, this function will not be displayed.

6. Tick on **Chatting** checkbox to enable two-way audio. You may adjust settings from Audio Setting.
7. **Online Visitor:** Shows how many people are connected to this device.
8. Click on  icons to adjust Zoom In / Zoom Out.
9. **Focus:** Click on  icons to adjust focus.
10. **Auto Focus:** Click on  icon to automatically adjust focus.
11. Home **:** Click to view without adjustments through Focus & Zoom.
12. **Speed:** Set the zoom speed.
13. Control the external output device or DO (digital output) connected to this camera.

B. Submenu: Right-Click the mouse on the live video screen, a pop-up menu will then appear as below.



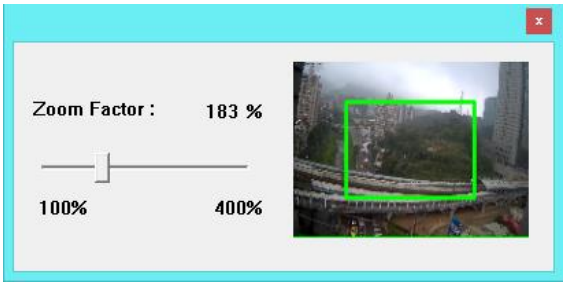
1. **Snapshot:** Save a JPEG picture

2. **Record Start:** Record the video to the local PC. The video format is AVI and you will be asked to set up the directory for the video file. To stop recording, right-click again. Select “Record Stop”.

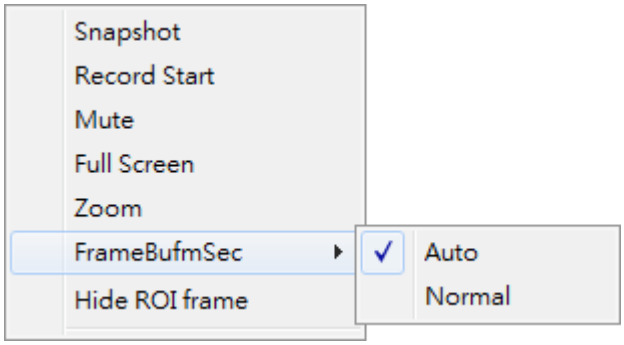
3. **Mute:** Click to turn off the audio. Click again to turn it on.

4. **Full Screen:** Full-screen mode.

5. **Zoom:** Select “zoom” within the pop-up dialogue box and then drag and drop the bar to adjust the zoom factors.



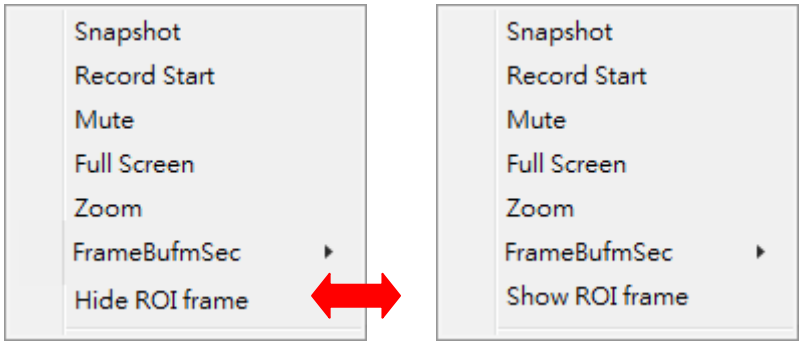
6. **Frame Buffm Sec:** This function aims to build a temporary buffer to accumulate several video frames in a LAN network environment. It can make video streaming smooth when the network speed is slow.



Select **Auto** to allow this function automatically help fix the streaming performance whenever the video happens to be lagging.

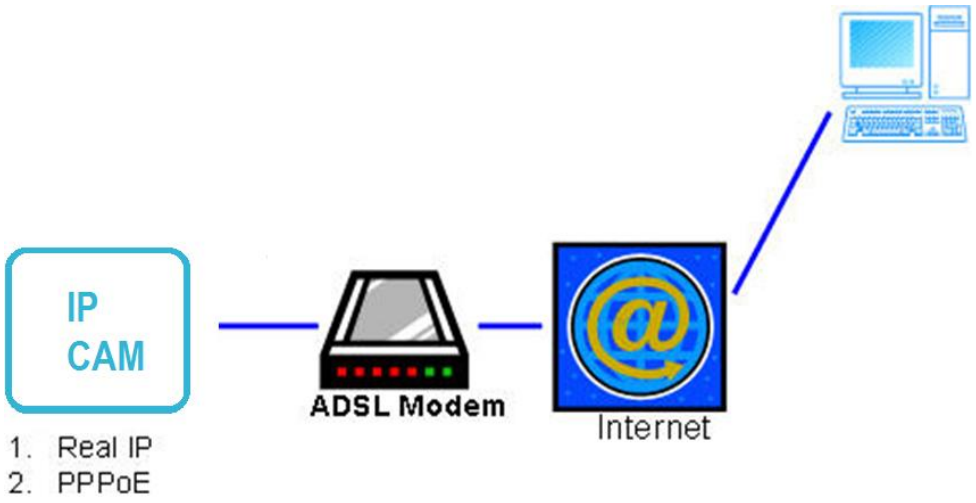
Select **Normal** to play the video data based on the current network streaming performance. (Note: the lagging of the video displayed will not be seen as a result of the actual video data)

7. **Hide / Show ROI frame:** Once the ROI frame has been set up from AV Settings, there will be frames in colors appearing on the live view. Choose to hide to make the frames invisible, or choose show to keep the frames.



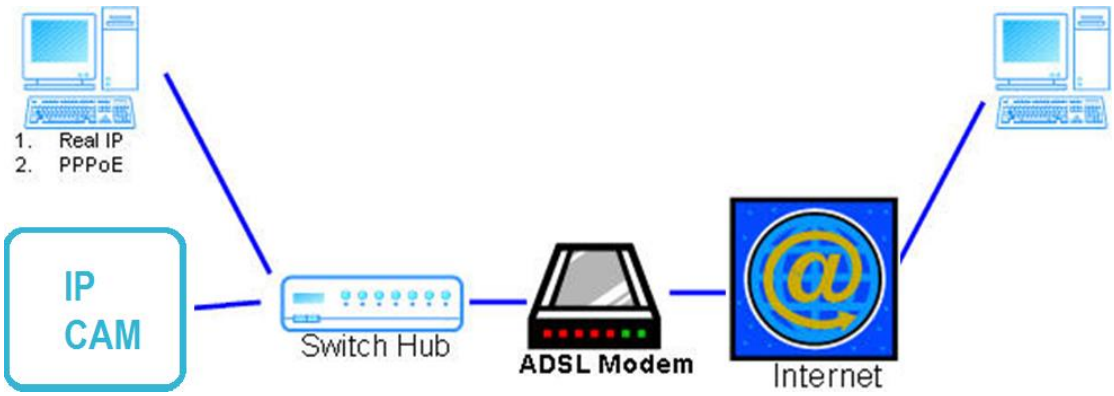
Network Configuration

Configuration 1



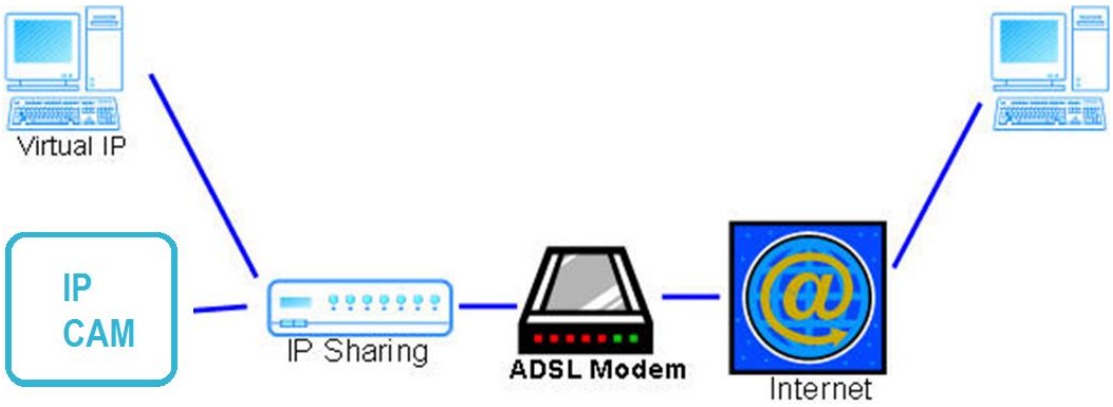
a. Internet Access: ADSL or Cable Modem
b. IP address: One real IP or one dynamic IP
c. Only the IP Camera is connected to the internet
d. For fixed real IP, set up the IP into IP Camera. For dynamic IP, start PPPoE.

Configuration 2



a. Internet Access: ADSL or Cable Modem
b. IP address: More than one real IP or one dynamic IP
c. IP Camera and PC connect to the internet
d. Device needed: Switch Hub.
e. For fixed real IP, set up the IP into IP Camera and PC. For dynamic IP, start PPPoE.

Configuration 3

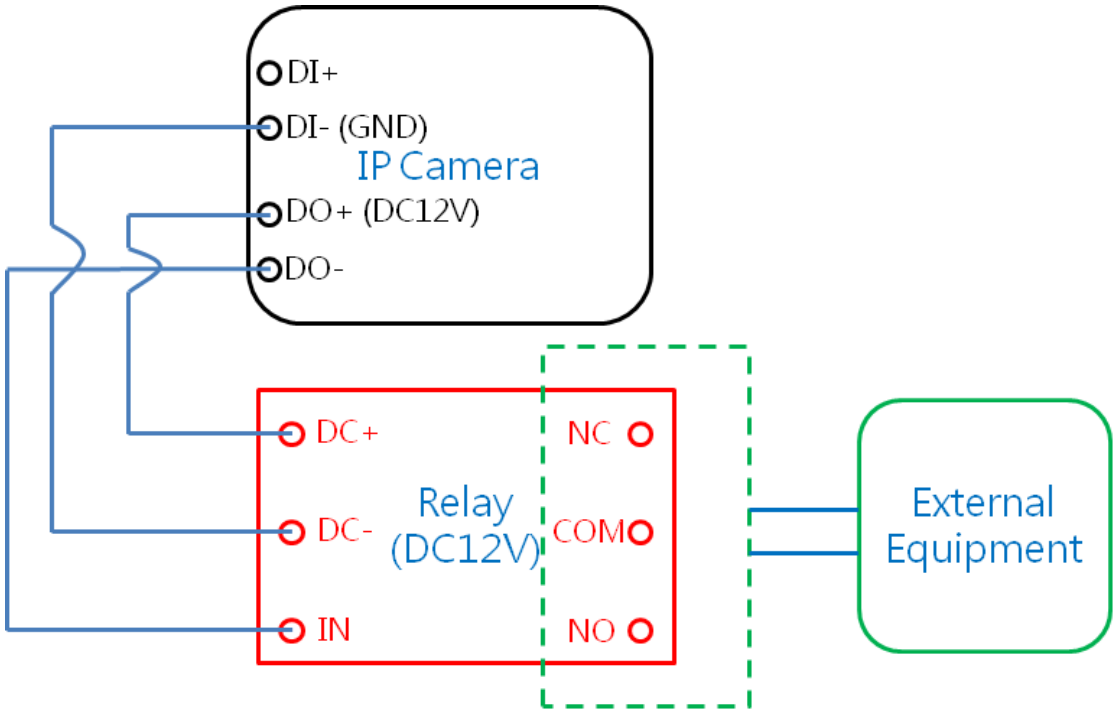


a. Internet Access: ADSL or Cable Modem
b. IP address: one real IP or one dynamic IP
c. IP Camera and PC connect to the internet
d. Device needed: IP sharing
e. Use virtual IP, set up port forwarding in IP sharing

I / O Configuration

1. I/O Connection

A. Connect the GND & DO pin to the external relay (buzzer) device.
B. Connect the GND & DI pin to the external trigger device.



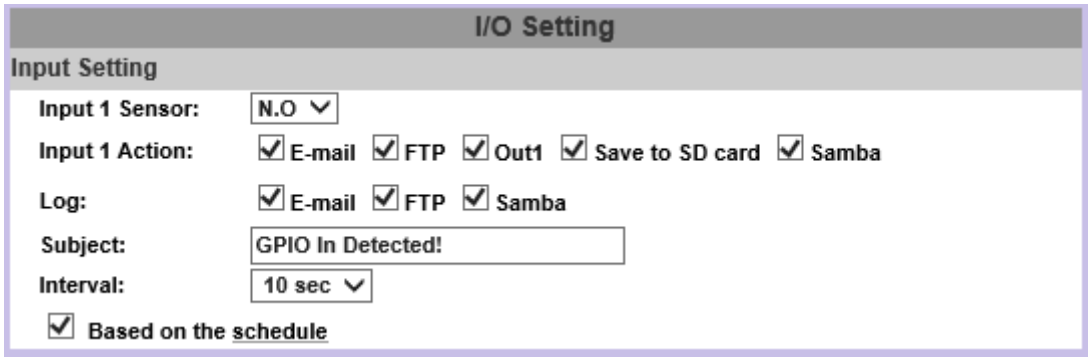
C. I/O PIN definition

- GND (Ground): Initial state is LOW
- DO (Digital Output): Max. 50mA ,.DC 12V
- DI (Digital Input): Max. DC 6V

2. I/O Setup

Click I/O Setting from the system setup page via IE, and check “Out1” to enable I/O signal.

A. Input Setting: The IP Cam supports input and output. When the input condition is triggered, the relay will be also triggered & a notification will be sent depending what checkboxes are ticked.

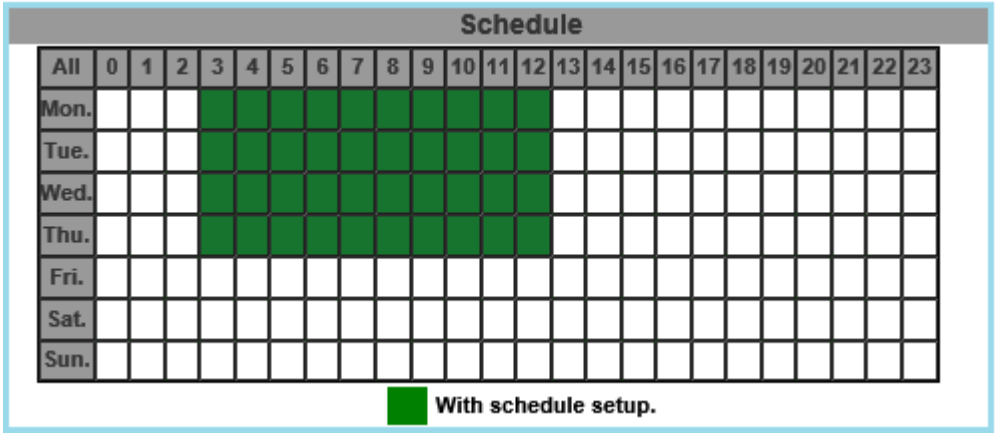


- **Log:** Tick the **Save to SD card** checkbox to enable the **Log** which you would like to save data with.

- **Subject:** Input or edit the message you would like to receive for triggered alarm.

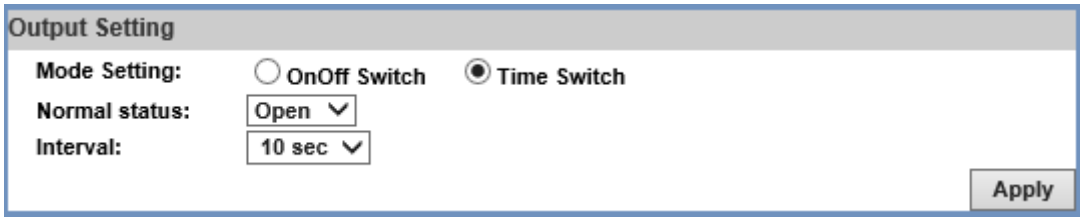
- **Interval:** For example, if you select 10 sec, once the motion is detected and action is triggered, it cannot be triggered again within 10 seconds.

- **Based on the schedule:** Tick its checkbox to assign timetable from Schedule. Once the option is activated, only during the selected schedule time the I/O is enabled.



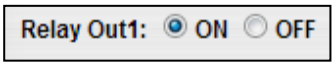
Take the schedule timetable above as an example, at 1 o’clock on Tuesday has not been colored in the schedule table, then no action will be triggered during that hour.

B. Output Setting: After the external input and output hardware are installed, you can enable the "Relay Out" function on the live video page to test if DO / Relay Out works.



- **Mode Setting**

(i) On Off Switch mode: Clicking "ON" will trigger the external output device for 10 seconds. For example, your alarm buzzer will continuously ring for 10 seconds. After 10 seconds the buzzer stops ringing, or you can manually break off the output signal by clicking "OFF".



Select **HIGH** or **GROUNDED** To adjust the **Output Waveform**.

(ii) Time Switch mode: The camera triggers the external device and lasts for certain time according to the internal setting, and the user is not allowed to break off the alarm manually.

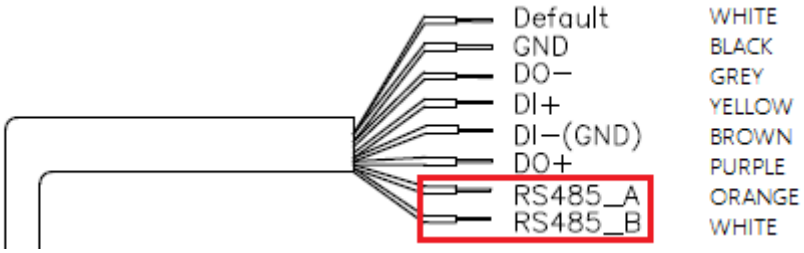
Click "Pulse", the camera will trigger the external output device for several seconds; the duration length is according to the "interval" setting in Output Setting.

Click on the 

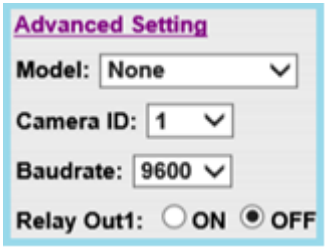
button to keep all the changes.

3. RS-485

You can link the camera to NVR, DVR, cradle head, or joystick controller by RS-485. Please use cable to connect D+ with D+ of two devices, and connect D- with D-.



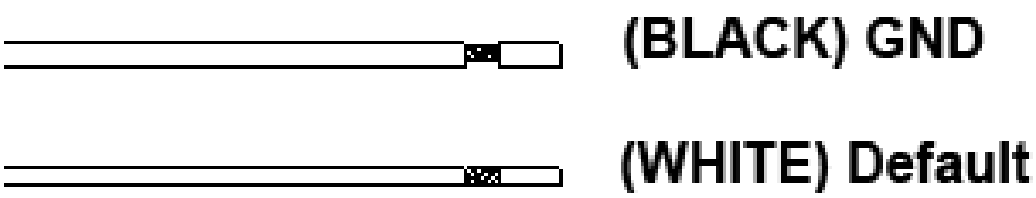
After the RS-485 Setting in I/O Setting is enabled, you can turn to the live video page and check the related options.



Factory Default

If you forget your password, please follow the steps to set back the IP Camera to its default value.

- Remove the power and Ethernet cable.
- Join the Black (GND) and White (Default) cables



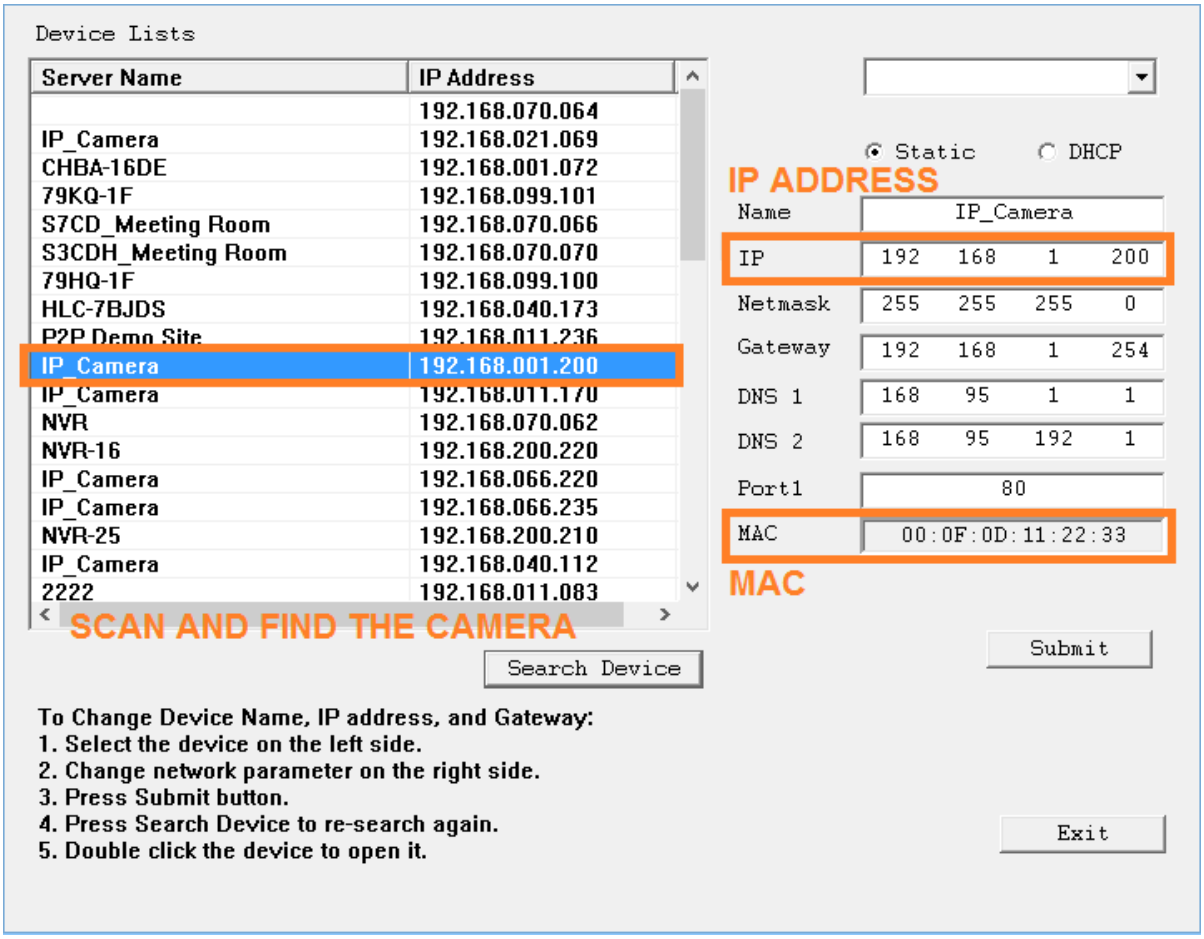
- Connect the power back to the camera. It will take around 30 seconds to boot the camera.
- Separate the Black(GND) and White (Default) cables
- Re-log in the camera using the default IP (**http://192.168.1.200**), and user name: **admin**, password: **admin**.

Universal Password

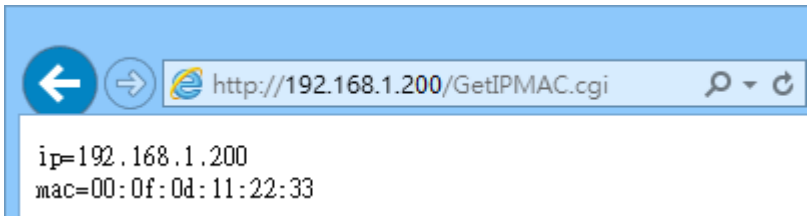
If you forgot the password of your IP camera, you can reset the camera to factory default, or follow the procedure below to generate a universal password.

Note: Universal password will be valid only when you enable the function in **User Management.**

1. First, you need to know the IP address and MAC address of your IP camera. You can use **IP Scanner** to scan the LAN, and see the IP address and MAC address on the side column.

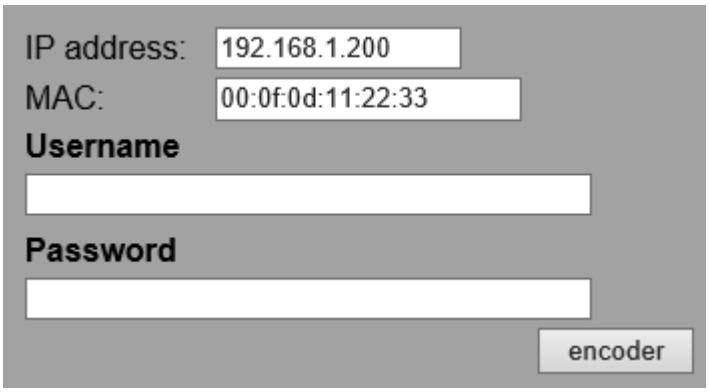


Or else, if you already know the IP address of camera: Open the web browser, key in **http:// (IP address) /GetIPMAC.cgi** and press enter. The IP address and MAC address will be displayed on browser.



2. Locate the .html file named **Universal Password_V1.1** in the Universal Password from the Applications folders in CD-ROM. Open it with a web browser.

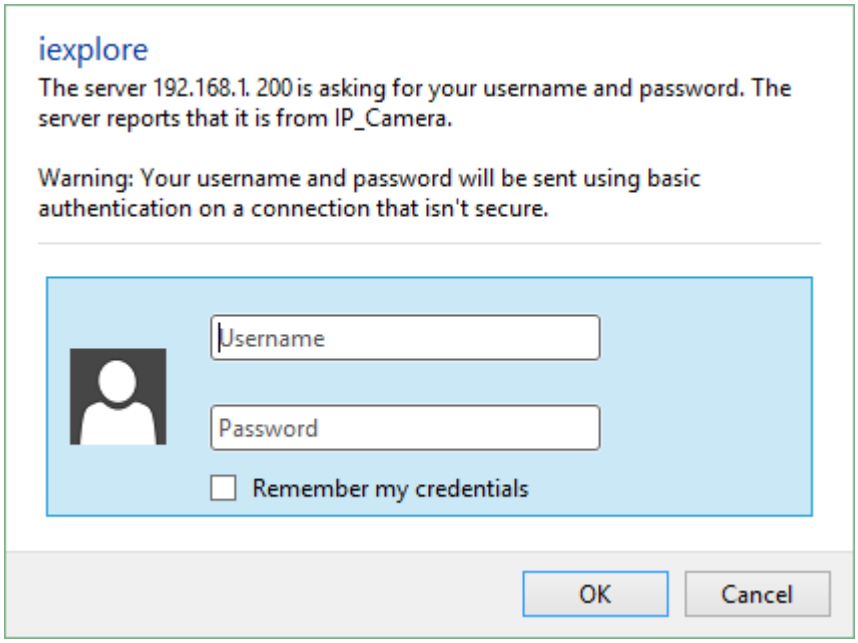
3. The camera IP address and MAC address will be displayed automatically in both **IP Address** and **MAC** columns.



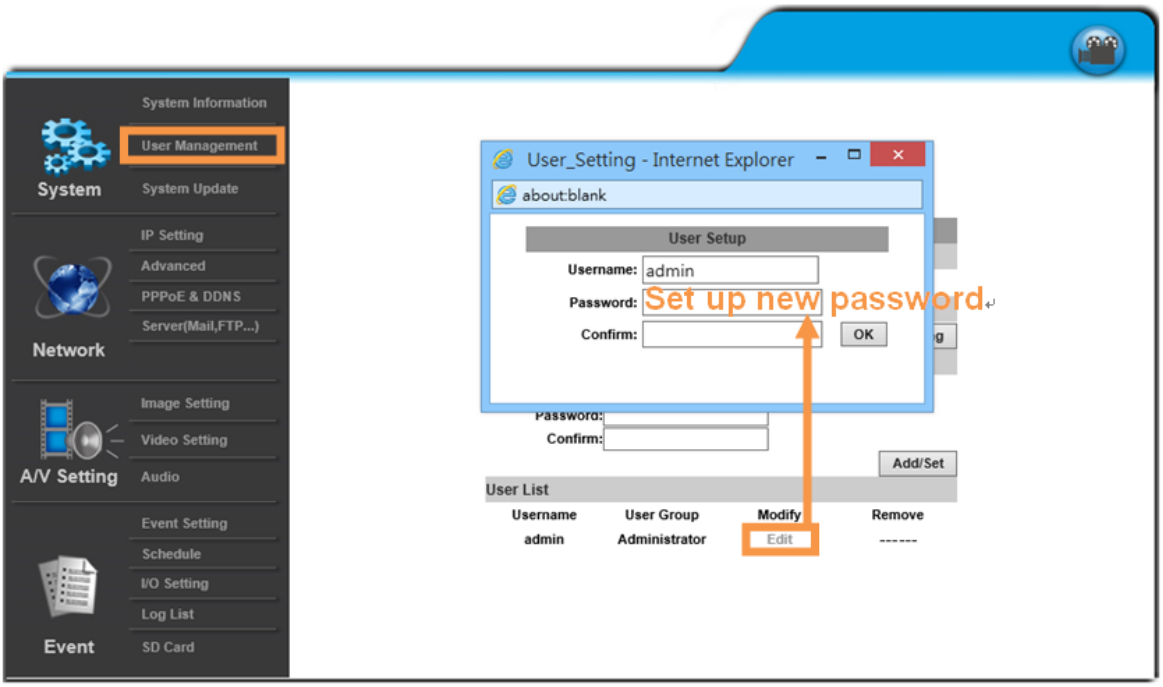
After clicking on **encoder**, a set of username and password will appear.

The universal username and password are generated from the IP address and MAC address you key-in, so if you change the camera IP address the universal password changes, too.

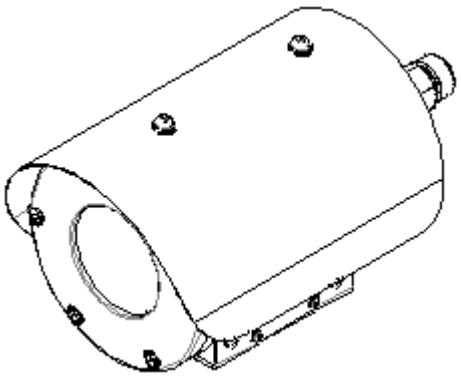
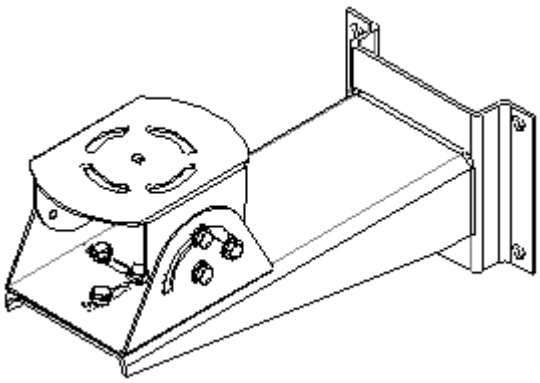
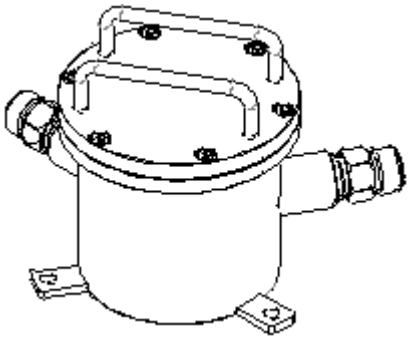
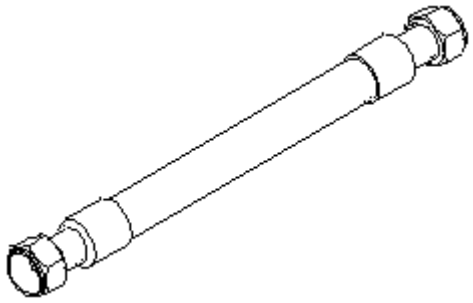
4. Use the generated username & password to log in the camera account.

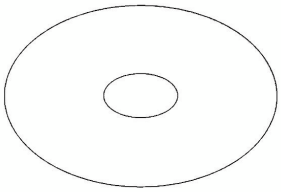
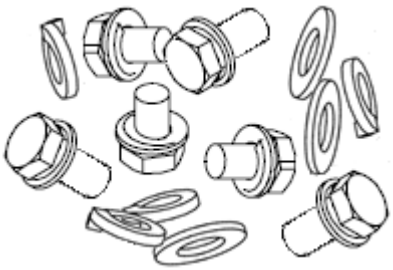


5. Now you can login as administrator. Turn to **User Management** page. The use of universal password does not affect the previous user setting, so the administrator account password does not change until you edit it. Please click **Edit** to give a new administrator password.



Package Contents

IP Camera	Pedestal Bracket
	
Junction Box	**Winding Tube**
	

CD	Screws & Washers	Quick Installation Guide
		

- The CD includes user manual and software tools