



User Manual IP SPEED DOME CAMERA

V1.3K_1608



IP SPEED DOME CAMERA

This is a 1/2.9" 2M Type Exmor CMOS Sensor 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 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.

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i. Warnings, Cautions and Copyright

WARNING

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

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

CAUTION



COPYRIGHT

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

ii. Product Specifications

Main Features:

- 2 Megapixel Real Time 30x Zoom Module
- H.264+/ H.264/JPEG Compression
- Bandwidth Savings up to 50%
- ROI Function
- Smart IR
- IR LED Built in 150M Available
- Digital Wide Dynamic Range
- True Day/Night Function IR Cut Filter (ICR)
- 360° Continuous Pan and 90° Tilt
- Power over Ethernet(60W compliant)
- 2-Way Audio
- IP66
- -20°C ~ 60°C Temperature Range for Weather Conditions
- -40°C ~ 60°C Temperature Range for Weather Conditions (Optional, with Heater)
- Built-in SD Card Slot for On-board Storage(Optional)
- Support iPhone/Android/Mac
- Quadruple Streaming
- SDK for Software Integration
- Free Bundle 36 ch Recording Software

Hardware	
CPU	Multimedia SoC
RAM	256MB
Flash	32MB
Image Sensor	1/2.9" 2M Type Exmor CMOS Sensor
Sensitivity	0.005 lux(B/W), 0.05 lux(Color)
Lens Type	30x optical zoom
Focal Length	F=4.5mm (WIDE) to 135 mm (TELE)

Maximum Aperture	F1.6 ~ F4.4
View Angle	2°~59°(H), 1°~40°(V)
Pan / Tilt Range	Pan: 360° / Tilt: 90°Auto Flip
Manual Control Speed	Pan: 0.42°~25.8°/s / Tilt: 0.31°~18.69°/s
Preset(Patrol) Speed	Pan:240°/s Tilt:200
Preset Accuracy	<±0.15°
Preset Points	256
Preset Focus Mode	Auto / Manual
Patrol	8 groups with 24 point
Auto Pan	Yes
Auto Recovery	Pending Time, Action
Cruise	Yes, 8 groups
Home Position	Yes
Point To Go	Yes
Auto Electronic Shutter	Auto / Shutter Mode
AE – Iris priority	N/A
AE – Shutter priority	Flickerless, 1/1 ~ 1/5000
AE – Manual mode	N/A
BLC	N/A
Day & Night Mode	Auto / Color / B/W / Time Mode with auto ICR
Day & Night Level	1 ~ 5
Day & Night Delay	4 ~ 60 sec
Sense Up	N/A
DNR Mode	Off / Low / Middle / High
WDR Mode	Off / Low / Middle / High
Video Orientation	Off / Flip / Mirror / Rotate
White Balance	Auto / Indoor / Outdoor / Fine shade 7500K / Cloudy weather 6000K / Fluorescent light 4200K / Halogen light 3200K / Electric light bulb 2900K
R-Gain	N/A
B-Gain	N/A
Sharpness	-4 ~ 4
Exposure	
Compensation	-0 ~ 0
Defog	Off / On
OSD	Off / On
Contrast	-4 ~ 4
Saturation	-4 ~ 4
Focus Distance	N/A
Privacy Mask	16

I/O	4 DI / 1 DO
	G.711(64K) and G.726(32K,24K) Audio Compression
Audio	Input : 3.5mm phone jack
Audio	Output: 3.5mm phone jack
	Support 2-way audio
Power Source	DC36V / PoE
	Normal:
	Starting/Working Temperature: -20°C ~ 60°C
	36V DC Power consumption Max: 50W
	PoE Power consumption Max: 50W
Power Consumption	With Heater(Optional)
	Starting/Working Temperature: -40°C ~ 60°C
	36V DC Power consumption Max: 55W
	PoE Power consumption Max: 55W
Dimensions	227.1mm (φ) X 346.2mm(H)
Weight	5300 g
IR LEDs	
LEDs	9 Units High Power
IR Distance	150M
Network	
Ethernet	10/ 100 Base-T
	IPv6, IPv4, HTTP, HTTPS, SNMP, QoS/DSCP, Access
Notwork Protocol	list, IEEE 802.1X, RTSP, TCP/IP, UDP, SMTP, FTP,
	PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP, SAMBA,
	Bonjour
System	
Video Resolution	
	1920x1080@30fps, 1280x720@30fps,
	1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps
	1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps Auto Electronic Shutter \ Day & Night Mode \ Day & Night
Video Adjust	1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps Auto Electronic Shutter \ Day & Night Mode \ Day & Night Level \ Day & Night Delay \ DNR Mode \ WDR Mode \ Video Orientation \ White Belance \ Sharppeer \ Expected
Video Adjust	1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps Auto Electronic Shutter \ Day & Night Mode \ Day & Night Level \ Day & Night Delay \ DNR Mode \ WDR Mode \ Video Orientation \ White Balance \ Sharpness \ Exposure
Video Adjust	1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps Auto Electronic Shutter \ Day & Night Mode \ Day & Night Level \ Day & Night Delay \ DNR Mode \ WDR Mode \ Video Orientation \ White Balance \ Sharpness \ Exposure Compensation \ Defog \ OSD \ Contrast \ Saturation
Video Adjust Quadruple Streaming	1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps Auto Electronic Shutter \ Day & Night Mode \ Day & Night Level \ Day & Night Delay \ DNR Mode \ WDR Mode \ Video Orientation \ White Balance \ Sharpness \ Exposure Compensation \ Defog \ OSD \ Contrast \ Saturation Yes
Video Adjust Quadruple Streaming Image Snapshot	1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps Auto Electronic Shutter \ Day & Night Mode \ Day & Night Level \ Day & Night Delay \ DNR Mode \ WDR Mode \ Video Orientation \ White Balance \ Sharpness \ Exposure Compensation \ Defog \ OSD \ Contrast \ Saturation Yes
Video Adjust Quadruple Streaming Image Snapshot Full Screen	1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps Auto Electronic Shutter \ Day & Night Mode \ Day & Night Level \ Day & Night Delay \ DNR Mode \ WDR Mode \ Video Orientation \ White Balance \ Sharpness \ Exposure Compensation \ Defog \ OSD \ Contrast \ Saturation Yes
Video Adjust Quadruple Streaming Image Snapshot Full Screen Monitoring	1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps Auto Electronic Shutter \ Day & Night Mode \ Day & Night Level \ Day & Night Delay \ DNR Mode \ WDR Mode \ Video Orientation \ White Balance \ Sharpness \ Exposure Compensation \ Defog \ OSD \ Contrast \ Saturation Yes Yes
Video Adjust Quadruple Streaming Image Snapshot Full Screen Monitoring Compression Format	1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps Auto Electronic Shutter \ Day & Night Mode \ Day & Night Level \ Day & Night Delay \ DNR Mode \ WDR Mode \ Video Orientation \ White Balance \ Sharpness \ Exposure Compensation \ Defog \ OSD \ Contrast \ Saturation Yes Yes H.264+/ H.264 / M-JPEG
Video Adjust Quadruple Streaming Image Snapshot Full Screen Monitoring Compression Format Video Bitrate Adjust	1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps Auto Electronic Shutter \ Day & Night Mode \ Day & Night Level \ Day & Night Delay \ DNR Mode \ WDR Mode \ Video Orientation \ White Balance \ Sharpness \ Exposure Compensation \ Defog \ OSD \ Contrast \ Saturation Yes Yes Yes H.264+/ H.264 / M-JPEG CVBR, VBR
Video Adjust Quadruple Streaming Image Snapshot Full Screen Monitoring Compression Format Video Bitrate Adjust Motion Detection	1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps Auto Electronic Shutter \ Day & Night Mode \ Day & Night Level \ Day & Night Delay \ DNR Mode \ WDR Mode \ Video Orientation \ White Balance \ Sharpness \ Exposure Compensation \ Defog \ OSD \ Contrast \ Saturation Yes Yes Yes H.264+/ H.264 / M-JPEG CVBR, VBR Windows area

	card(Optional)
Pre/ Post Alarm	Yes, configurable
	Password protection, IP address filtering, HTTPS
Security	encrypted data transmission, 802.1X port-based
	authentication for network protection, QoS/DSCP
Firmware Upgrade	HTTP mode, can be upgraded remotely
Micro SD Card Mana	gement (Optional)
Pocording Triggor	Motion Detection, IP check, Network break down (wire
Recording Ingger	only), Schedule, DI
Video Format	AVI, JPEG
Video Playback	Yes
Delete Files	Yes
Client System Requi	rement
09	Windows 7, XP, Microsoft IE 6.0 or above, Chrome, Safari,
03	Firefox
Mobile Support	iOS 8.0 or above, Android 4.0.4 or above.
Suggested	Intel Dual Core 2.53G,RAM: 1024MB, Graphic card:
Suggested	128MB

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION.

iii. Product Installation

* Monitor Settings

1. Right-Click on the desktop. Select Properties



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



* Hardware Installation



Camera With Wall Mount





1. Mount the Camera Inside the Housing (Optional)

The camera in the package is already assembled. Please be sure its cable connects thoroughly from the camera body through inside the mount, and goes right behind the mounted surface to reach connectors for power supply and internet connection.





Ceiling Pendant Mount

2. Various Mount Demonstration (Optional)

It is essential to protect the camera connection with a junction box regarding its environment conditions. Please settle the cables inside the junction box first before properly installing the camera.

Wall Mount +junction box

Ceiling Pendant Mount +junction box



3. Dome Camera with Wall Mount Installation Steps



- 4. Various Mount Demonstration (Optional)
 - Corner Mount (Facing Out)

Corner Mount (Facing In)





Pole Mount Straight Tube Mount+ Junction Box

5. Connector Instruction

The camera connectors are as below. Connect the power and the Ethernet cable with the camera, and set it according to your network environment.



6. Power Cable Connection Setup

Connect the power cable with the DC cables in red & black to switch on & supply power to the camera.

a. Take out the power adaptor attached with the camera package. Have the adaptor plugged unto a power source to enable the power through.



b. Have the cable wires of the adaptor ready, and identify the DC cables from the camera are displayed in red & black.



c. Loosening the screws closest to the receiving end (circled below) to make room for the DC cable wires to fit into each outlet.



Ensure **only** the outlet screws from the receiving end are loosened.



d. Place the cable wire inside the outlet (make sure the black matches black, white matches red), and turn the screwdriver clockwise to tighten the connection.



Do the same for the other cable wire. Finish connecting both power cable wires to DC cables. Be sure that the black cable wire aims at the black DC cable outlet, and the white cable wire aims at the red DC cable outlet.



7. 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. It 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.



8. PoE Injector Connection Setup

Connect the IP camera with the PoE injector for supplying power to the camera.

a. Connect the DC 56V with the power adaptor and connect the DATA IN with the RJ45 cable from the network host.



b. Connect the PWR+DATA OUT with the RJ45 cable from the camera.



c. If the power goes through successfully, the green signal lights of both ends should light up and the camera will start up.

*IP assignment

- 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.
- 2. IP Scanner supports two languages: This manual is for English version.
- 3. There are 3 kinds of IP configuration.
 - **a.** Fixed IP (Public IP or Virtual IP)
 - **b.** DHCP (Dynamic IP)
 - **c.** Dial-up (PPPoE)
- 4. Execute IP Scanner
- 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 <u>Unblock</u>.

😺 Wind	lows Secu	ırity Alert		
٢	To help some fea	protect your computer, atures of this program.	Windows Firew	all has blocked
Do you	want to k	eep blocking this prog	ram?	
0	Name: Publisher:	IPScanner Network Unknown	Device Scan	
		Keep Blocking	Unblock	Ask Me Later
Window Internet unblock	is Firewall ha or a network it. <u>When sh</u>	as blocked this program from k. If you recognize the progr rould I unblock a program?	n accepting connec am or trust the pub	ctions from the lisher, you can

6. **IP Scanner** configuration:



- 7. **IP Scanner** will search for all the IP Cameras connected on the LAN. The user can click **Search Device** to search again.
- 8. 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**, then click **OK**, it will apply the changes and reboot the device.



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

The same Subnet:

IP Camera IP address: <u>192.168.1</u>.200 PC IP address: <u>192.168.1</u>.100

Different Subnets:

IP Camera IP address: <u>192.168.2</u>.200 PC IP address: <u>192.168.1</u>.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.



 To quickly access remote monitoring, left-click the mouse twice on the selected IP Camera listed under **Device list** of **IP Scanner**. A default network browser of the camera control interface will open.

Server Name	IP Address	-	DHCP	
IP Camera	192.168.001.200	Nane		
		IP		
		Netnask		
		Gatevay		
		DNS 1		
		DNS 2		
		Port1		
		МАС	00:0F:0D:28:63:CE	
		-		
	and the second	- 1	A STATE	
	Search Device		Submit	
To Change Device Nan	ne, IP address, and Gateway	r:		
1.Select the device on	the left side.			

11. Enter **admin** for both Username and Password to gain access.

Windows Security	×
iexplore The server 192.168.1.200 is asking for your username and password. The server reports that it is from IP_Camera. Warning: Your username and password will be sent using basic authentication on a connection that isn't secure.	
Password Remember my credentials	
OK Cancel	

*Install ActiveX control

1. For users of 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',



Start installing the ActiveX component.



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



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				
6	Int	ernet P	roperties		?	×
General	Security Privacy	Content	Connections	Programs	Advar	nced
Home p	age					
	To create home p	age tabs,	type each add	lress on its (own line	s.
	Use curr	rent	Use default	Use n	ew tab	
Start-u)					
Os	art with tabs from the	e last ses	sion			
🖲 S	art with home page					
Tabs -						_
Char	ge how webpages are	e displaye	ed in tabs.	Ti	abs	
Browsi	a history					
Dele	e temporary files, his information.	tory, coo	kies, saved pas	swords and	web	
	elete prowsing history	on exit				_
			Delete	Set	tings	
Appea C	ance Langu	lages	Fonts	Acce	ssibility	
		Oł	< Ca	ancel	Арр	ly







5

When popup the following dialogue box, click Yes.



2. You can choose another way:

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

In the site list you can key 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.



2. To 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 link:

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

	Firstly, please insta	ll Microsoft Visual C-	++ 2010 Redistributable P	Package (x86).
b ,	<u>Pease click here to dov</u> After finish download	<u>vnload the installation</u> ding, disable the brow	<u>program which does not s</u> ser and implement the pro	support IE browser. gram by manual.
default 🔽	Streaming 1 💌	Chatting: 🗌	Online Visitor : 3	Relay Out: ○ON ④OFF

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

Microsof (x86)	t Visual C++ 2010 Redistribut	able Package	
Quick links	The Microsoft Visual C++ 2010 Redistributable Visual C++ libraries required to run application computer that does not have Visual C++ 2010	Package installs runt is developed with Vis installed.	time components of sual C++ on a
	Version: 2016 Change language: English	Date published:	4/12/2010
Looking for support? Visit the Microsoft Support site now >	File name vcredist_x86.exe	Size 4.8 MB	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)**.

ile name		Size	
Microsoft	Microsoft .NET Framework 4 Client Profile (Web Installer) The Microsoft .NET Framework 4 web installer package downloads and installs the .NET Framework components required to run on the target machine architecture and OS. An Internet connection is required during the installation. The Client Profile is used to run most client applications that target the .NET Framework 4.	868 KB	0
Microsoft	Kinect for Windows SDK v1.0 The Kinect for Windows SDK enables developers to create applications that support gesture and voice recognition, using Kinect sensor technology on computers running Windows 7, Windows & developer preview (desktop apps only), and Windows Embedded-based devices.	226.8 MB	(i)
Microsoft	Microsoft Visual C++ 2010 Redistributable Package (x64) The Microsoft Visual C++ 2010 Redistributable Package installs runtime components of Visual C++ Libraries required to run applications developed with Visual C++ on a computer that does not have Visual C++ 2010 installed.	5.5 MB	(i)

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** \rightarrow **Search** \rightarrow 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.

Search Re	sults in Computer +	• 49 Ip hem xdl	_
le Edit View Tools	Help		
Organize 🔻 Save searc	h		C
arches might be slow in no	n-indexed locations: I:\. Click to add to index		3
Favorites	np_haem_x.dll Ht\Program Files\Mozilla Firefox\plugins	Date modified: 2011/8/8 下午 12:43 Size: 126 KB	
🖊 Downloads 🔛 Recent Places	np_hoem_x.dll H\Users\bell_huang\AppData\Local\Google\Chrome\Application\plugins	Date modified: 2011/8/8 下午 12:43 Size: 126 KB	
Libraries Documents	np_hoem_x.dll H\Windows\System32\WebWatch2	Date modified: 2011/8/8 下午 12:43 Size: 126 KB	
Music Pictures	np_hoem_x.dll H:\Windows\System32	Date modified: 2011/6/17 下午12:08 Size: 126 KB	

Start your web browser, and repeat the step 2-b: **Download the installation program which does not support IE browser** to download and install **ActiveX**.

(Purstly, please insta	ll Microsoft Visual CH	++ 2010 Redistributable P	2 <u>ackage (x86).</u>
After finish downloading, disable the browser and implement the program by manual.				
default 💌	Streaming 1 v	Chatting: 🗌	Online Visitor : 3	Relay Out: ON ③OFF

iv. Live Video

Start an IE browser, type the IP address of the IP camera in the address field. It will show the following dialogue box. Key-in the user name: **admin** and password: **admin**.

Windows Security ×
iexplore The server 192.168.1.200 is asking for your username and password. The server reports that it is from IP_Camera. Warning: Your username and password will be sent using basic authentication on a connection that isn't secure.
Username Password Remember my credentials
OK Cancel

A. Live Video

The following interface shows up when the IP Camera access is granted.



Note: Double-clicking on the live screen will change the direction of the view.

- 1. Get into the administration page.
- 2. Video Snapshot.
- 3. Show the system time, video resolution, and video refreshing rate.
- 4. <u>Full Screen</u>: Clicking on the button to change the view to full screen mode. Press **Esc** or double-click the view again for returning to normal view.
- 5. <u>Adjust image</u>: Select the video scale from default to 1/2x, 1x, 2x.
- 6. Select video streaming source (If the streaming 2&3 settings are both closed in 'Video Setting', this option will not appear here.)
- 7. Tick on **Chatting** for enabling two-way audio, then use microphone connected to the PC to talk to the Camera side
- 8. Shows how many people are connected to this IP camera.

Right-Click the mouse on the video, a small menu will pop up.



- 1. <u>Snapshot:</u> Save a JPEG picture.
- <u>Record Start:</u> Record the video in the local PC. It will ask where to save the video. To stop recording, right-click again and Select **Record Stop**.

The video format is AVI. Use Microsoft Media Player to play the recorded file.

3. <u>Mute:</u> Turn-off the audio. Click again to turn on it.

- 4. <u>Full Screen:</u> Full-screen mode.
- 5. <u>Zoom:</u> Enable the zoom-in and zoom-out functions. First, select **Enable digital zoom** option within the pop-up dialogue box and then drag and drop the bar to adjust the zoom factors.



6. <u>Frame Buffm Sec:</u> 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)

B. Performing PTZ



The bigger

value selected in **Speed 9** v the faster each click with the arrow traveling time will be.

1. Move the camera view with 8-direction arrows.

- 2. If you click on the **second** icon, the camera will go back to its initial position.
- 3. Use 🔍 🍳 icons to zoom-in/out, and 🖽 🖽 icons to adjust focus.

C. Setting a Preset Point



D. Setting a Patrol Group

Click on "Patrol". The Group menu will 2. A window will pop up. appear right below.

Patrol	
Group All Point 🗸	
Edit	
Preset Point	
Auto Recovery	
Auto Pan	
Cruise	
Advanced Setting	

To build a new group, select a number under **Patrol** from the "**Group**" drop-down list, and click "**Edit**".

P:	atrol			
	Group	Name	Run Period	
	Preset	Point	Stop Time	Focus Mode
1	None	~	10 🗸	Manual Focus 🗸
2	None	~	10 🗸	Manual Focus 🗸
3	None	~	10 🗸	Manual Focus 🗸
4	None	~	10 🗸	Manual Focus 🗸
5	None	~	10 🗸	Manual Focus 🗸
6	None	~	10 🗸	Manual Focus 🗸
7	None	~	10 🗸	Manual Focus 🗸
8	None	~	10 🗸	Manual Focus 🗸

Key-in the **Group Name**, and select how long the patrol will last in **Run Period**.

3. If you select "**Always**" in **Run Period**, the camera will keep patrolling until it is stopped manually. The longest patrolling time lasts for 240 minutes.

Pa	trol		
[Group Name Railways	Run Period Always 💌	
	Preset Point	Stop Time	Focus Mode
1	1:p1 💌	10 💌	Manual Focus 💌
2	4:col 💌	13 💌	Auto Focus 🛛 💌
3	18:cam 💌	10 💌	Manual Focus 💌
4	56:road 2 💌	12 💌	Auto Focus 🛛 💌
5	None 💌	10 💌	Manual Focus 💌
6	blana a	10	Manual France Int

For each number in the list, select a **Preset Point**, the interval of seconds for **Stop Time** on that point and the auto focus/manual focus adjustments.

5. For starting patrol, select one group

from the list, and press D. The camera will move according to the patrol route and dwell time set.

Patrol		
Group	All Point	
Preset Auto Re	1:0119 2:0129 3:0202 4:20150216 5: 6:	
Auto P	7: 8:	
<u>Cruise</u>		
Advanc	ed Setting	

4. If you select manual focus in **Focus Mode**, remember to focus clearly toward the view point when setting up that preset point.

Pa	trol		
	Group Name	Run Period	
	Railways	Always 💌	
	Preset Point	Stop Time	Focus Mode
1	1:p1 💌	10 💌	Manual Focus 💌
2	4:col 💌	13 💌	Auto Focus 🛛 👻
3	18:cam 💌	10 💌	Manual Focus 💌
4	56:road 2 💌	12 💌	Auto Focus 🛛 👻
5	None 💌	10 💌	Manual Focus 💌
6	blau a a a	10	Manual Farms

After completing the setting, click "**Save**" and close the patrol group settings page. The group name set will be added to the patrol list.

6. If you select "All Point" the camera will move to every preset point in sequence. To edit a patrol group, select it from the drop-down list and click "Edit".

All Point	
1:0119	
2:0129	
3:0202	
4:20150216	
5:	
6:	
7:	
8:	

You can customize up to 8 groups.

E. Auto Recovery

In case there are no settings for "**Pan**" and "**Patrol**", the settings made here recover the viewing angle of the IP camera automatically.

No Action 🗸	
Home	\sim
	No Action 🗸 Home

- 1. <u>Pending Time:</u> Varies from No Action, 10~50 seconds to 1~10 minutes.
- 2. <u>Action:</u> Different actions can be executed from other settings.

F. Setting Auto Pan

The **Auto Pan** function allows the camera to patrol between two preset points. After clicking on "**Auto Pan**", select the **Start Point** and **End Point** locations from the drop-down lists to set a preset position pattern for the camera to follow.

1. Select how long Auto Pan lasts. If you select "Always", the camera will keep

performing the Auto Pan actions until someone stops it manually.

2. Set Stop Time, Focus Mode, Direction, and Pan Speed.



3. Press Note: If you select Manual Focus from
Focus Mode, please adjust the focus
clearly toward the view point when setting
up that preset point. For Auto Focus, set
the Stop Time longer, the camera might

need some seconds to focus.

G. Cruise

A function for users to record movement patterns which can be played back right after.

	Cruise	
1	Cruise Number:	1 🗸
2	Record Start	
3	Record End	
4	Record Play	

- 1. **Cruise Number:** Create up to 8 types of different movements assigned with 8 numbers. For example, when you click on Record Start under Cruise Number 1, the movement pattern you create will be assigned to number 1. Same method applies to other numbers.
- Record Start 2. Record Start: Click on button to begin. Press

8-direction arrows to move camera view in a pattern of preset points, bear in mind that every movement made with your camera view will be recorded.

button to stop.

button to view the camera move

3. Record End: Once you have finished making your preset points in

Beenrd Blavy Click on	Record Play	button to view the comerc me

Record End

in movements you have recorded. Choose different group of numbers from Cruise Number to perform at a time.

H. Advanced Setting

Other settings for the camera.

Record Start, click on

Record Play: Click on

4.

	Advanced Setting		
1	Home 13:		
2	PTZ Control	Continuous 🗸	
3	DO:	● ON ○ OFF	

- **1.** Home Position: For setting the home position of the IP Camera.
- **PTZ Control:** In "Continuous" mode, when controlling the 8-direction 2. arrows, press and hold the button to let the camera lens move smoothly. In "Step by Step" mode, when controlling the 8-direction arrows, click on button to let the camera lens move one step.
- **3. DO:** Tick the "ON" box to trigger the digital output for testing. Tick "Off" to stop triggering.

v. Camera Configuration

* System



to get into the administration page. Click



to go back to

the live video page.

System	System Information		
System Information			
MAC MAC	Address: 00:0F:0D:27:F7:F3		
Server Server	er Name: IP Camera 🗌 Status Bar		
LED	ndicator: OFF		
Network Lang	uage: ⑧ English 🛛 繁體中文 🔿 简体中文 🔿 French		
IP Setting	🔿 Russian 🔷 Italian 🔷 Spanish 🔷 German		
Advanced	○ Portuguese ○ Polish ○ Japanese		
OSD S	etting		
Time	Stamp: O Enabled		
Text:	C Enabled 🖲 Disabled		
/V Setting	OSD_Display Text Edit		
nage Setting	Setting		
ideo Sotting	r Time: 2015/9/10 21:31:08 Time Zone: GMT+08:00		
Audio Time	Tone: GMT+09:00		
	able Davlight Saving		
Event	rabe Dayngni Saving.		
vent Setting			
Schedule U	pdate : 6 VHour		
Ti Ti	me Shift : 0 Minutes [-14401440]		
log list	Synchronize with PC's time		
SD Cord	ate : 2015/12/28		
SD Card Ti	me : 16:23:43		
О м:	anual		
Di	ate : 2015/12/28		
Ti	me : 16:23:30		
• т	The date and time remain the same		
	Appl		

I. System Information

a. Server Information

Set up the camera name, language, and the camera time.

Server Information				
MAC Address:	00:0F:0D:27:4A:4B			
Server Name:	IP_Camera Status Bar			
LED Indicator:	● ON ○ OFF			
Language :	● English 〇 繁體中文 〇 简体中文 ○ French			
	O Russian O Italian O Spanish O German			
○ Portuguese ○ Polish ○ Japanese				

- 1. <u>Server Name:</u> This is the Camera name. This name will be shown on the IP Scanner.
- 2. **LED Indicator:** Turn on/off the LED indicator on the camera.
- 3. **Language:** English and other languages can be selected. When a language preference is selected, the following dialogue box will pop up to confirm the change.

Message from webpage ×
? Are you sure you want to change language?
OK Cancel

b. OSD Setting

Select a position where the date & time stamp / text are displayed on the screen.

OSD Setting				
Time Stamp:	O Enabled			
Text:	O Enabled			
OSD_Display Text Edit				
Click **Text Edit** for editing the OSD content, including text size and transparency. Click the Upgrade button to apply the settings.

	Text Edit	
Text Edit		
Text	OSD_Display	
Size	12 🗸	
Transparency	50% 🗸	
		Upgrade

c. Time Setting

Select between NTP, Synchronize with PC's time, Manual, The date and time remain the same for setting the server time.

Time Setting			
Server Time:	2015/7/28 12:43:57 Time Zone: GM	1T+08:00	
Date Format:	\odot yy/mm/dd \bigcirc mm/dd/yy \bigcirc d	ld/mm/yy	
Time Zone:	GMT+08:00		
Enable Daylight	nt Saving:		
	Month	Day of Week	Time
DST Start:	Mar V 2nd V	Sun 🗸	12 am 🗸
DST End:	Nov 🗸 1st 🗸	Sun 🗸	12 am 🗸
○ NTP :			
NTP Server :	pool.ntp.org		
Update :	6 V Hour		
Time Shift :	0 Minutes [-14401440]		
O Synchronize w	vith PC's time		
Date :	2015/7/28		
Time :	11:23:41		
O Manual			
Date :	2015/7/28		
Time :	11:14:29		
The date and t	ime remain the same		

d. Askyviewer Pro P2P (Optional)



Install **Askyviewer Pro App** on your mobile phone to access **P2P** operations which allow users to watch IP Camera live view on their mobile phones. Once the installation is done, either enter the **P2P ID** from the IP camera web browser, or simply scan the **QR Code** to help you log in to your IP camera through **Askyviewer Pro App** and watch the live view

For more operating details of the **Askyviewer Pro for P2P**,please click on the icons below (**IOS Version** & **Android Version**) with your mouse to directly open the manual page.



Android Version



Note: Your smartphone must be equipped with a camera and featured with a QR code scanner application.

II. User Management

User Management			
Anonymous Use	er Login		
		● NO	
Universal Passv	vord (differs by IP	Address)	
	YES	O NO	
			Setting
Add User			
Username	:		
Password	:		
Confirm	:		
			Add/Set
User List			
Username	User Group	Modify	Remove
admin	Administrator	Edit	
guest	Guest	Edit	Remove

The IP Camera supports three different users: **administrator**, **general**, and **anonymous** user.

1. Anonymous User Login

Select **Yes** for allowing access to watch live video of the IP camera without having to enter username and password. Yet when entering the configuration page of the IP camera, the system will do otherwise. Select **No** for requiring a username and login to access the camera.

2. Universal Password

Select **Yes** for allowing login to this IP camera by universal password. Please refer to **Universal Password** chapter for more explanations. Select **No** for disabling universal password.

3. Add user

Type the user name and password, then click **Add/Set**. The guest user can only browse live video page and is not allowed to enter the configuration page.

Click "Edit" or "Remove" in the user list to modify them. The system will ask you to key-in the password in the pop-up window before you edit the user information.

III. System update

	System Update	
Firmware Upgrade		
Firmware Version:	VE1.0.20.8	
New Firmware:		Browse
		Upgrade
Reboot System		
		Start
Factory Default		
		Start
Setting Management		
	Right click the mouse button on §	Setting Download and
Save As a File:	then select Save As to save curre the PC.	ent system's setting in
New Setting File:		Browse
		Upgrade

- a. To update the firmware online, click **Browse...** to select the firmware. Then click **Upgrade** to proceed.
- b. <u>Reboot system</u>: re-start the IP camera
- c. <u>Factory default</u>: delete all the settings of this IP camera.
- d. <u>Setting Management</u>: The user can download the current settings to PC, or upgrade from previous saved settings.

1. Settings download

Right-click the mouse button on Setting Download \rightarrow Select **Save AS...** to save current IP Camera settings in PC \rightarrow Select saving directory \rightarrow Save

2. Upgrade from previous settings

Browse \rightarrow search previous settings \rightarrow open \rightarrow upgrade \rightarrow Settings update confirm \rightarrow click <u>index.html</u>. for returning to the main page.

*Network



Click to get into the administration page. Click

to go back to

the live video page.

~	_		
۲	System	System Information	
1	System Information	Server Information	
	User Management	MAC Address: 00:0F:0D:27:F7:F3	
	Svetom Undato	Server Name: IP Camera 🗌 Status Bar	
	System Opuate	LED Indicator: OR OFF	
Â	Network	Language: ⑧ English ○ 繁體中文 ○ 简体中文 ○ French	
	ID Sotting	Russian Italian Spanish German	
		○ Portuguese ○ Polish ○ Japanese	
		OSD Setting	
	PPPoE & DDNS	Time Stamp: O Enabled	
	Server(Mail,FTP)	Text: O Enabled Disabled	
į.	A/V Setting	OSD_Display Text Edit	
1	Image Setting	Time Setting	
	Video Sotting	Server Time: 2015/9/10 21:31:08 Time Zone: GMT+08:00	
	Audio	Time Zener: Calification	
	Audio		
7	Event	Enable Daylight Saving:	
-	Event Cattler		
	Event Setting	NIP Server : pool.ntp.org	
	Schedule	Time Shift: 0 Minutes [-14401440]	
	I/O Setting	Synchronize with PC's time	
	Log List	Date : 2015/12/28	
	SD Card	Time : 16:23:43	
		Date : 2015/12/28	
		Time : 16:23:30	
		The date and time remain the same	
		Apply	

IP Settings I.

IP Assignment

The IP Camera supports DHCP and static IP.

	IP Setting
IP Assignment	
OHCP	
Static	
IP Address:	192.168.1.200
Subnet Mask:	255.255.255.0
Gateway:	192.168.1.254
DNS 0:	168.95.1.1
DNS 1:	168.95.192.1

- a. <u>DHCP:</u> The IP Camera will get all the network parameters automatically.
- b. <u>Static IP:</u> Type-in the IP address subnet mask, gateway, and DNS.

IPv6 Assignment

IPv6 Assignment	
IPv6 Enabled:	
Manually setup the I	Pv6 address:
IDue Address Drofin	:
IPVO Address/Prenx:	64
IPv6 Gateway:	:
IPv6 DNS:	:
DHCPv6:	🔘 Enabled 💿 Disabled
IPv6 Address: fe80::20f:dff:fe00:284d	

By enabling DHCPv6 you can configure the following IPv6 address settings:

- <u>Manually setup the IPv6 address</u>: Key-in the Address, Gateway, and DNS.
- <u>DHCPv6:</u> If you have a DHCPv6 server, enable it to assign the IPv6 automatically. The assigned IP address will be displayed beside the column.

 <u>Automatically generated IPv6 Address</u>: Indicates a virtual IPv6 address generated automatically by the IP camera. This virtual IPv6 address cannot be used on WAN.

To use IPv6 address to access the IP camera, open the web browser, and key-in the **[IPv6 address]** in the address bar. The [] parentheses mark is necessary.



a. <u>Port Assignment:</u> The user might need to assign a different port to avoid conflicts when setting up the IP.

Port Assignment		
Web Page Port:	80	
HTTPS Port:	443	HTTPS Setting

b. <u>W</u>

<u>eb Page Port:</u> setup the web page connecting port and video transmitting port (Default: 80)

c. <u>HTTPs Port:</u> setup the https port(Default: 443)

UPnP

UPnP		
UPnP:	Enabled	O Disabled
UPnP Port Forwarding:	O Enabled	Oisabled
External Web Port:	80	
External HTTPS Port:	443	
External RTSP Port:	554	

This IP camera supports UPnP, if this service is enabled on your computer, the camera will automatically be detected and a new icon will be added to **My Network Places**.

<u>UPnP Port Forwarding</u> : Enable UPnP Port Forwarding for accessing the IP Camera from the Internet; this option allows the IP Camera to open ports on the router automatically so that video streams can be sent out from a LAN. There are three external ports for being set: **Web Port**, **Http Port** and **RTSP** port. To utilize of this feature, make sure that your router supports **UPnP** and is activated.

Note: UPnP must be enabled on your computer. Please follow the procedure to activate UPnP:

<Approach 1>

- 1. open the Control Panel from the Start Menu
- 2. Select Add/Remove Programs
- 3. Select Add/Remove Windows Components and open Networking Services section
- 4. Click **Details** and select **UPnP** to setup the service.
- 5. The IP device icon will be added to My Network Places.
- 6. The user may double click the IP device icon to access IE browser

<Approach 2>

- 1. Open My Network Space
- 2. Click **Show icons for networked UPnP devices** in the tasks column on the left of the page.
- 3. Windows might ask your confirmation for enabling the components. Click **Yes**.



4. Now the IP device is displayed under the LAN. Double-click the icon to access the camera via web browser. To disable the UPnP, click **Hide icons for networked UPnP devices** in the tasks column.



RTSP setting

RTSP Setting			
RTSP Server:	💿 Enabled	O Disabled	
RTSP Authentication:	Disable 🔽		
RTSP Port :	554		
RTP Start Port:	5000		[10249997]
RTP End port:	9000		[102710000]

If you have a media player that supports RTSP protocol, you can use it to receive video streaming from the IP camera. The RTSP address can be set for two streamings respectively.

1. <u>RTSP Server</u>: enable or disable

Disable means everyone who knows your camera IP Address can link to your camera via RTSP. No username and password are required. Under **Basic** and **Digest** authentication mode, the camera asks for a username and password before allows access.

The password is transmitted as a clear text under basic mode, which provides a lower level of security than under **digest** mode.

Make sure your media player supports the authentication schemes.

- 2. <u>RTSP Port:</u> setup port for RTSP transmitting (Default: 554)
- <u>RTP Start and End Port:</u> in RTSP mode, you can use TCP and UDP for connecting. TCP connection uses RTSP Port (554). UDP connection uses RTP Start and End Port.

Multicast Setting (Based on the RTSP Server)				
Streaming 1:		_		
IP Address:	234.5.6.78	[224.3.1.0 ~ 239.255.255.255]		
Port:	6000	[1 ~ 65535]		
TTL:	15	[1 ~ 255]		
Streaming 2:		_		
IP Address:	234.5.6.79	[224.3.1.0 ~ 239.255.255.255]		
Port:	6001	[1 ~ 65535]		
TTL:	15	[1 ~ 255]		
Streaming 3:		_		
IP Address:	234.5.6.80	[224.3.1.0 ~ 239.255.255.255]		
Port:	6002	[1 ~ 65535]		
TTL:	15	[1 ~ 255]		

Multicast Setting (Based on the RTSP Server)

Multicast is a bandwidth conservation technology. This function allows several users to share the same packet sent from the IP camera.

For using Multicast, appoint here an IP Address and port. TTL means the life time of packet, the larger the value is, the more users can receive the packet. For using Multicast, be sure to enable the function **Force Multicast RTP via RTSP** in your media player. Then key in the RTSP path of your camera: **rtsp ://(IP address)/** to receive the multicast.

ONVIF

ONVIF			
ONVIF:	● V2.4.2	○ v1.01	O Disabled
Security:	CEnabled	🖲 Disab	led
RTSP Keepalive:	Enabled	🔿 Disab	led

1. Choose your ONVIF version and settings.

Under ONVIF connection, the video will be transmitted by RTSP. Be sure to enable the RTSP server in IP setting, otherwise the IP Camera will not be able to receive the video via ONVIF.

2. Security

By selecting **Disable**, the username and password are not required for accessing the camera via ONVIF. By selecting **Enable** the username and password are necessary.

3. RTSP Keepalive:

When the function is enabled, the camera checks once in a while if the user who is connected to the camera via ONVIF is still connected. If the connection has been broken the camera will stop transmitting video to the user.

Bonjour

Bonjour			
Bonjour:	Enabled	💿 Dis	abled
Bonjour Name:	IP_Camera		@00:0F:0D:00:28:4D

This function allows Apple systems to connect to this IP camera. On **Bonjour Name** key-in the name here.

The web browser **Safari** also has a Bonjour function. Tick **Include Bonjour** in the bookmark setting, for the IP camera to appear under the bonjour category. Click the icon to connect to the IP camera.

The Bonjour function on Safari browser doesn't support HTTPS protocol. If on the camera you select **https**, the camera will appear on Safari's bookmarks but it cannot be accessed.



Take as a reference the following image:

LLTD

LLTD (Link Layer Topology Discovery)			
LLTD:	Enabled	O Disabled	

If your PC supports LLTD, enable this function for allowing checking the connection status, properties, and device location (IP address) in the network map.

If the computer is running Windows Vista or Windows 7, you can find LLTD through the path:

Control Panel \rightarrow Network and Internet \rightarrow Network and Sharing Center \rightarrow Click **See full map**.



II. Advanced

a. Https (Hypertext Transfer Protocol Secure)

When the users access cameras via Https protocol, the transmitted information will be encrypted, increasing the security level.

Connection Types		
Http&Https 🔽		
Http		
Https		
Http&Https		

Select the connection type:

• <u>Http:</u> the user can access the camera via the Http path but cannot access it via the Https path.

• <u>Https:</u> the user can access the camera via the Https path but cannot access it via the Http path.

• <u>Http & Https:</u> Both the Http and Https path can be used to access the camera. When you change the connection type settings, it may cause connection error or disconnection error if you switch the protocol directly. Therefore, **Http & Https** mode is necessary. If you want to change from Http to Https, please switch to **Http & Https** mode first, and then switch to **Https** mode and vice versa.

The Https protocol has a verifying mechanism. When the user access a website via Https, the browser will check the certificate of that domain and verify its trustiness and security.

Certificate generation process:



• Remove the existing certificate: Before you generate a new certificate, please remove the installed one. Select the **Http** connection type and click **Remove**. If a dialog box pops up to ask you to confirm, click **Yes**.

	Https Setting
Created F	Request
Subject:	C=TW , ST= , L= , O= , OU= , CN=
Date:	2011/Sep/23 10:04:17
	Content Remove
Installed	Certificate
Subject:	C=TW , ST= , L= , O= , OU= , CN=
Date:	Apr 23 09:05:24 2011 GMT
	Content Remove
	Connection Types
Http	•

• <u>Created Request:</u> Fill-in the following form and click **apply**.

	Ittps Setting
Create Request	
Country:	
State or province:	
Locality:	
Organization:	
Organizational Unit:	
Common Name:	
	Apply

• After generating a certificate request, if you choose to turn it and verified by a trusted third-party, click **Content** and copy all the request content.

Created Request	Certificate Request:	
Subject: C=TW, ST=, I=, O=, OU=, CN=	Data:	
	Version: 0 (0x0)	
Date: 2012/Sep/25 08:49:23	Subject: C=TW	
Contont	Subject Public Key Info:	
Content	Public Key Algorithm: rsaEncryption	
	Public-Key: (1024 bit)	
	Modulus:	
	00:b8:cb:17:f7:b6:14:5d:92:99:ae:73:52:7c	
	09:2a:ad:a6:50:39:5a:3c:09:10:15:85:ad:30	
	cc:e0:b2:7c:29:3e:d1:e7:15:c4:f2:4f:de:a6	
	98:f8:71:53:a3:43:0b:2c:1a:20:94:32:76:b3	
	72:c8:bc:87:35:3f:c7:fc:17:8f:c3:1f:2d:ak	
	33:3c:9a:28:3b:31:46:d8:c7:26:37:af:fb:5c	
	aa:b0:a1:75:6a:f9:02:ca:c9:be:49:c9:2a:74	
	cb:b0:95:1e:63:89:f6:07:6c:cf:1c:5b:38:4e	
	29:a8:55:82:92:95:bc:74:15	
	Exponent: 65537 (0x10001)	
	Attributes:	
	a0:00	
	Signature Algorithm: shalWithRSAEncryption	
	9b:4c:13:01:cc:10:2a:bc:3c:22:f2:10:e7:48:19:52:98	
	c9:ae:5a:f4:76:cb:7d:f8:6c:21:e3:a5:9b:45:60:2a:ba:73	
	23:ce:7a:90:9c:90:b5:a7:41:36:2c:c4:f4:34:55:e5:d0:92	
	9d+32+d3+42+b+d1+04+7a+58+9a+64+4d+38+e3+a6+73+a5	

• According to the certificate source, there are two ways to install the certificate:

If you had sent the certificate request for signing and receiving a signed certificate, click **browse** and find the certificate file in your computer. Click **Apply** to install it.

If you choose to generate a self-signed certificate, fill-in the following forms and set the validity day, click **Apply** to finish installed it.

install signed certificate		
Signed Certificate:		瀏覽 Apply
Create Self-Signed Certific	ate	
Country:		
State or province:]
Locality:		
Organization:		
Organizational Unit:		
Common Name:		
Validity:	Days	
		Apply

After finishing the installation, click on **Content** to call out and check the certificate content.

Installed	Installed Certificate		
Subject:	C=AC, ST=, L=, O=, OU=, CN=name		
Date:	Oct 4 08:35:29 2012 GMT		
	Content Remove		

To use Https to access the camera, open your browser, and key-in **https:// (IP address)/** in the address bar. Now your data will be transmitted via encrypted communications. The browser will check your certificate status. It might show the following warning message:



Meaning that certificate is self-signed or signed by a distrusted institution. Click **Proceed anyway** for continuing to the camera page.

b. SNMP (Simple Network Management Protocol)

1. SNMPv1 or SNMPv2: write the name of both Write Community and Read Community.

	SNMP	
SNMP Setting		
SNMPv1 SNMPv2c		
Write Community:	write	
Read Community:	public	

2. SNMPv3: Set the Security Name, Authentication Type, Authentication Password, Encryption Type, Encryption Password of Write mode and Read mode.

SNMPv3		
Write Security Name:	write	
Authentication Type:	💿 MD5 🔘 SHA	
Authentication Password:		
Encryption Type:	⊙des ○aes	
Encryption Password:		
Read Security Name:	public	
Authentication Type:	💿 MD5 🔘 SHA	
Authentication Password:		
Encryption Type:	⊙DES ○AES	
Encryption Password:		

3. Enable SNMPv1/SNMPv2 Trap for detecting the Trap server. Please set what event needs to be detected.

SNMPv1/v2c Trap	
Trap Address:	
Trap Community:	public
Trap Event:	Cold Start 🔲 Warm Start 🔲 Link Up
	Authentication Failed SD Detect

• Cold Start: The camera starts up or reboots.

• <u>Setting changed:</u> The SNMP settings have been changed.

- <u>Network Disconnected</u>: The network connection was broken down (The camera will send trap messages after the network is connected again).
- <u>V3 Authentication Failed</u>: A SNMPv3 user account tries to get authentication but failed. (Due to incorrect password or community)

<u>SD Insert / Remove:</u> A Micro SD card is inserted or removed.

c. Access list:

Enable IP address filter for setting the IP addresses which allows or denies this camera. There are two options: **single** and **range**.

IP FILTER						
IP ADDRESS FILTER Setting						
Enable ip ac IPv4 Setting:						
add	📄 💿 allow 🔘 deny					
	single v address:					
IPv4 List:	range					
No.	IP Address	Filter	Action			
1			remove			
2			remove			
3			remove			
4			remove			
5			remove			
6			remove			
7			remove			
8			remove			
9			remove			
10			remove			
Allow admin ip address always access this device						
			apply			

d. QoS/DSCP(Quality of Server/Differentiated Services Code-

point):

DSCP specifies a simple mechanism for classifying and managing network traffic; and provide QoS on IP networks. DSCP is a 6-bit in the IP header for packet classification purpose. Please define it for Live Stream, Event / Alarm and Management.

		QoS/DSCP	
QoS/DSCP Setting			
Enable QoS/DSC	P		
Live Stream:	0	(0~63)	
Event / Alarm:	0	(0~63)	
Management:	0	(0~63)	
			Apply

e. IEEE 802.1x:

IEEE 802.1x is an IEEE standard for port-based Network Access Control. It provides an authentication mechanism to a device on a LAN or WLAN.

The EAPOL protocol support service identification and optional point to point encryption over the local LAN segment.



Please check what version of the authenticator and authentication server is supported. This camera supports EAP-TLS method. Please enter the ID, password issued by the CA, then upload related certificates.

IEEE 802.1	x/EAP-TLS
IEEE 802.1x Setting	
Enable IEEE 802.1x	
Eapol version:	© v1 ─ v2
Identity:	
Private key password:	
	Apply
CA certificate:	Upload 瀏覽
Status:	Remove
Client certificate:	Upload 瀏覽
Status:	Remove
Client private key:	Upload 瀏覽
Status:	Remove

III. PPPoE & DDNS

	PPPoE	
PPPoE Setting		
CEnabled Username: Password:	Disabled]
Send mail after d	ialed	
Enabled		
Subject:	PPPoE From IPcam	Apply

a. PPPoE: Select **Enabled** to use PPPoE. Key-in the the Username and password for ADSL connection.

<u>Send mail after dialed:</u> When connected to the internet, the camera will send a mail to a specific mail account.

b. DDNS (camddns example):

DDNS			
DDNS Setting			
🔘 Enabled 🛛 💿 D	O Enabled 💿 Disabled		
Provider:	ddns.camddns.com	×	
Username:]	
Schedule Update:	1440	Minutes	
State			
Idle Note:		Apply	
 Schedule Update: Fe IP products which in range from every 5 (off. Places pote that the 	eature of DDNS sched Istalled behind the IC (minutes) to 5000 (mi	ule update is designed for S or NAT devices. Update inutes) and 0 remain to	
2. Please note that the schedule update is i In general, schedule recommended.	nostname will be bl more than once ever update in every 144	ockea by DynDNS.org if y 5 minutes to 60 minutes. 0 minutes is	

- 1. Enable this service
- 2. Key-in the username.
- 3. IP schedule update. Default: 5 minutes
- 4. Click Apply.

DDNS Status

- (1) Updating: Information update
- (2) Idle: Stop service
- (3) DDNS registration successful, can now log by <u>http://<username>.ddns.camddns.com</u>: Register successfully.
- (4) Update Failed, the name is already registered: The user name has already been used. Please change it.
- (5) Update Failed; please check your internet connection: Network connection failed.
- (6) Update Failed, please check the account information you provided: The server, user name, and password may be wrong.

IV. Server settings

There are three server types available: **Email**, **FTP** and **SAMBA**. Select the item for display detailed configuration options. You can configure either one or all of them. To send out the video via mail of FTP, please set up the configuration first.

	Server Settings	
Mail Setting		
Login Method:	Account -	
Mail Server:		
Username:		
Password:		
Sender's Mail:		
Receiver's Mail:		
Bcc Mail:		
Mail Port:	25	(Default 25)
Secure Connect:	🖲 TLS 🔍 SSL	
		Test
FTP Setting		
Samba (Network storage)	1	
		Apply

FTP

To send out the video via mail of FTP, please set up the configuration.

FTP Setting		
FTP Server:		
Username:		
Password:		
Port:	21	
Path:	Ι	
Mode:	PORT -	
Create the folder:	Yes • (ex:Path/20100115/121032m.avi)	
		Test

Samba

Select this option to send the media files via a neighbor network when an event is triggered.

Samba (Network storage)		
Location:	(ex:\\Nas_ip\folder)	
Workgroup:		
Username:		
Password:		
Create the folder:	Yes • (ex:Path/20100115/121032m.avi)	
		Test

Click **Apply** to save the setting, then use **Test** button to test the server connection. A message box will tell you **OK!** if it works, and a test document will be created in the location.

If the test failed, check the sharing setting of your location folder. The folder properties must be **shared** and the permissions must be **Full Control** as the picture.

General Sharing Security You can share this folder among other users on your network. To enable sharing for this folder, click Share this	Share Permissions	
You can share this folder among other users on your network. To enable sharing for this folder, click Share this	Name	
folder.	🕵 Everyone	Add Remove
Share name: ACTShare		
User limit: C Maximum allowed C Allow J Users	Permissions: Full Control Change	Allow Deny
To set permissions for how users access this folder over the network, click Permissions.	Tiod.	
To configure settings for Offline access to Caching		

*A / V Settings



to go back to

the live video page.

***	System		
	System	System Information	
-	System Information	Server Information	
	User Management	MAC Address: 00:0F:0D:27:F7:F3	
	System Update	Server Name: IP Camera Status Bar	
3		LED Indicator: OFF	
1	Network	Language: ⑧ English 〇 繁體中文 〇 简体中文 〇 French	
	IP Setting	🔿 Russian 🔷 Italian 🔷 Spanish 🔷 German	
	Advanced	○ Portuguese ○ Polish ○ Japanese	
		OSD Setting	
	Server/Mail ETP	Time Stamp: O Enabled	
		Text: O Enabled Isabled	
	A/V Setting	OSD_Display Text Edit	
	Image Setting	Time Setting	
	Video Sotting	Server Time: 2015/9/10 21:31:08 Time Zone: GMT+08:00	
	Audio	Time Zene:	
	Audio	Enable Daulisht Saving:	
L	Event		
_	Evont Sotting		
	Cohodula	Update : 6 VHour	
		Time Shift : 0 Minutes [-14401440]	
	VO Setting	Synchronize with PC's time	
	Log List	Date : 2015/12/28	
	SD Card	Time : 16:23:43	
		O Manual	
		Date : 2015/12/28	
		Time : 16:23:30	
		The date and time remain the same	
		Apply	

1. Image Setting

Mouse Navigation Tool



There is a camera live mini screen on top of the page for users to preview any changes made in the setting before actually applying. Your mouse cursor will appear to become the Mouse Navigation Tool when you move your mouse cursor on the live mini screen.

Click anywhere on the mini screen to direct your camera angle.



A. Creating A Privacy Mask: You can make up to 6 masks.

Privacy Mask			
	Mask Number:	v	Go
	Mask Width:	¥	Save
	Mask Height:	¥	Clear

a. Four Direction Arrow: Clicking on

icons to move the

screen is essential for aiming a center point for the privacy mask before creating one, because the mask only starts from the center position of the screen. Making masks without moving its center point may result the masks to be on top of each other like the picture below.



- **b.** Mask Number: Assign a number for the mask you are about to create.
- c. Mask Width: Assign the width for the mask you are about to create.

- d. Mask Height: Assign the height for the mask you are about to create.
- e. Click save to finish creating the new mask. A mask block will appear at the center of the camera preview and the **Mask Number** will also be marked with a tick sign like the picture below.



f. Select a Mask Number and click Go to go to adjust its Mask Width and Mask Height again. Click Clear to erase the current data.

Β.	Image	Setting

	Image Setting	
	Contrast:	0 🗸
a.	Saturation:	0 ~
	Sharpness:	0 🗸
<u>b.</u>	Auto Electronic Shutter:	Auto 🗸
<u>C.</u>	Day & Night Mode:	● Auto ○ Color ○ B/W ○ Time Mode
	Day & Night Level:	3 🗸
	Day & Night Delay:	10 sec 🗸
<u>d.</u>	DNR-2D:	○OFF ○Low ● Middle ○ High
<u>e.</u>	DNR-3D:	1 🗸
<u>f.</u>	WDR:	● OFF ◯ Low ◯ Middle ◯ High
g.	Video Orientation:	● OFF ○ Flip ○ Mirror ○ Rotate
_ h <u>.</u>	White Balance:	Auto 🗸
-i <u>.</u> _	ExpComp:	0 🗸
j.	Defog:	● OFF ○ ON
k.	OSD:	O OFF ● ON
<u>ا.</u>	IR LED:	Auto 🗸
m	Speed dome Height:	5 🗸
_n <u>.</u>	LED Indicator:	ON V
		O Default

a. Contrast, Saturation, Sharpness

Different values of them can be adjusted and applied here.

b. Auto Electronic Shutter

- Auto: Both the iris and shutter are adjusted by the camera automatically.
- **Flickerless:** This mode aims to balance the refresh rate to a human eye to avoid flicker effect of the video display when the camera display shifts between cycles.

Other shutter speed values range from **1/30** to **1/50**, **1/60**, **1/100**, **1/120**, **1/250**, **1/500**, **1/1000**, **1/2500**, and **1/5000**. The shorter the shutter time you select, the darker the image becomes. The iris is adjusted by the camera automatically.

c. Day & Night Mode

The camera can detect the light level of the environment.

• <u>Auto:</u> The video image will be turned to black and white at night automatically in order to keep it clear.

Day & Night Level: To assign a lux standard for Day & Night switching.

Day & Night Delay: This is used for preventing disturbance in the light sensor from external factors.

For example, a passing-by car's light directly shoots on the camera at night. If the D/N delay is not enabled, the Image Setting will be switched to color mode when the car light passes, and switched back to B/W immediately.

- **<u>Color:</u>** The video image will be displayed in colors, but it does not adjust itself automatically to compensate the image quality.
- <u>**B/W**</u>: The video image will be displayed in black and white only.
- <u>Time Mode:</u> Choose to Enable **Day & Night Time** where you may adjust the switch time between Color & BW modes according to the given time or simply choose Color or B/W.

Click **Save** to keep the change.

d. DNR-2D (Digital Noise Reduction 2D)

This function is able to filter the noise and blur from the image and show a clearer view. Set the values through 2D filters.

e. DNR-3D (Digital Noise Reduction 3D)

This function is able to filter the noise and blur from the image and show a clearer view. Set the reduction level through 3D filters.

f. WDR (Wide Dynamic Range)

This function enables the camera to reduce the contrast in the view for avoiding dark zones resulted from over and under exposure.

g. Video Orientation

Choose to flip, mirror, or rotate the image.

h. White Balance

It helps reproducing actual image colors to display in balance. Select the mode according to its lighting condition.

- <u>Auto</u>: Continuously adjusts camera color balance according to any change of color temperatures and lightings.
- Indoor: Adjusts the image colors in an indoor environment.
- **Outdoor:** Adjusts the image colors in an outdoor environment.
- Fine shade 7500K
- <u>Cloudy weather 6000K</u>
- Fluorescent lighting 4200K
- Halogen light 3200K
- Electric light bulb 2900K

i. ExpComp (Exposure Compensation)

Assign levels of exposure to help lighten or darken the camera view. Assigning a bigger number creates a lighter image. On the contrast, a smaller number creates a darker image.

j. Defog

Choose different level of defogging the camera view.

k. OSD

Choose to switch on/off the On Screen Display.

I. IR LED

Choose **Auto** to enable the IR LED to help the camera observe a clearer view when the lighting condition of the monitored environment becomes low, however if the lighting condition is always at a satisfactory level to view, you may set **off** to disable this option.

m. Speed dome Height

Apply different value in meters according to how high the camera is positioned.

n. LED Indicator

Chose to turn on the LED indicator automatically or turn it On/Off during its operation time.

o. Default

Choose to go back to its original default settings on this page.

2. Video Setting

A. Video System: The user can select the camera system type: AUTO, PAL or NTSC. Choose the video system based on user's origin of location.

Video Setting	
Video System:	PAL 💙

B. Streaming 1 & 2 & 3 Basic Mode:

Sucaring i Setting	
Basic Mode O Adva	Inced Mode
Resolution:	176x144 🗸
Profile:	Main V
Quality:	Best V
Video Frame Rate:	25 FPS 🗸
Video Format:	H.264 🗸
ROI (Region Of Interest):	ON OFF Preview
RTSP Path:	ex:rtsp://IP_Address/ Audio:G.711

- 1. **Resolution:** 1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps
- 2. Profile: Chose between Main or Baseline

- 3. **Quality:** 5 levels (Best/High/Standard/Medium/Low) to choose from. The higher the quality is, the bigger the file size is. Not good for Internet transmission.
- 4. Video Frame Rate: The video refreshing rate per second.
- 5. Video Format: H.264+, H.264 or JPEG
- 6. **ROI (Region Of Interest):** Please refer to the description below in Advanced Mode.
- 7. RTSP Path: RTSP output name

C. Streaming 1 & 2 & 3 Advanced Mode:

streaming 1 Setting	
🔿 Basic Mode 🛛 🖲 Adva	nced Mode
Resolution:	176x144 🗸
Profile:	Main 🗸
Bitrate Control Mode:	○ CBR ● CVBR
Video Quantitative:	7 🗸
Video Bitrate Limit:	4Mbps 🗸
Video Frame Rate:	30 FPS 🗸
GOP Size:	1 X FPS V GOP = 30
Video Format:	H.264 V
ROI (Region Of Interest):	○ ON ● OFF <u>Preview</u>
RTSP Path:	ex:rtsp://IP_Address/ Audio:G.711

- 1. **Resolution:** 1920x1080@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps
- 2. Profile: Chose between Main or Baseline
- 3. **Bitrate Control Mode:** There are CBR (Constant Bit Rate) and CVBR (Constrained Variable Bit Rate)

<u>CBR</u>: 32Kbps~8Mbps (the higher the CBR the better the video quality is)

<u>CVBR:</u> 1(Low) ~10(High) –Compression rate, the higher the compression rate, the lower the picture quality is; vise versa. Once it is enabled, the Video Quantitative becomes available.

Video Quantitative: The quality parameter of CVBR. You can choose from 1~10 compression rate.

Video Bitrate Limit: The quality parameter of CBR. This function maintains a balance between visual information captured by the camera and network bandwidth.

By setting up a video bitrate limit, it helps the camera to prevent sudden increase of bitrate transmission which may affect the picture quality.

You can choose from **32Kbps~8Mkbps**. The higher the value, the better the image quality is.

- 4. Video Frame Rate (5~30 FPS): The video refreshing rate per second.
- 5. **GOP Size (1, 1/2, 2) X FPS:** "Group of Pictures". The higher the GOP is, the better the quality is.
- 6. Video Format: H.264+, H.264 or JPEG
- 7. **ROI (Region of Interest):** This function helps refine any specific part of the monitoring area which can be dragged out with the mouse at a time, improving efficiency in image observation and management in video compression rate.

Click **ON** to enable the **ROI** function. Click on <u>Preview</u> to watch the surveilling area and edit different settings under the ROI mode.



Click on any of the colours in **Area Setting** to draw an ROI square on the preview screen with mouse. You can set up to approximately 3 ROI squares. Adjust the **FPS of None ROI** values of each area from each drop down list.

- 8. Video Format: H.264+, H.264 or JPEG
- 9. **RTSP Path:** RTSP output connecting path

D. Snapshot Setting:

Snapshot Setting		
Quality:	8	×

Adjust the snapshot image quality from 1(Low) ~10(High).

E. 3GPP Streaming mode:

3GPP Streaming Settin	Ig			
Open O Close				
Resolution:	320x240 🗸			
Video Bitrate:	256Kbps 🗸			
Video Frame Rate:	15 FPS 🗸			
Video Format:	H.264 🗸			
RTSP Path:	v3	ex:rtsp://IP_Address/v3	Audio:AMR	
				Apply

- 1. **Resolution:** 640x480@15fps, 640x360@15fps, 320x240@15fps, 176x144@15fps
- 2. Video Bitrate Limit: 32Kbps~1Mbps (the higher Video Bitrate is, the better the video quality is)
- 3. Video Frame Rate: The video refreshing rate for each second.
- 4. Video Format: H.264+ or H.264
- 5. **RTSP Path:** 3GPP output connecting path. If the IP address of your camera is 192.168.40.150, and when you key-in "3g" in the column, the 3GPP path will be rtsp://192.168.40.150/3g.

©Remember to click on **Apply** for keeping all the changes.

3. Audio

The IP CAMERA supports 2-way audio. The user can send audio from the IP Camera built-in microphone to the remote PC; the user can also send audio from remote PC to IP Camera's external speaker.

A. <u>IP Camera to PC</u>: Select "Enable" to start this function and also can select the audio type.

	Audio	
IP Camera to PC		
Enabled	O Disabled	
Audio Type:	G.711 (64Kbps) 🗸	
Adjust Volume		
MIC-in:	0 ~	
Audio-Out:	0 ~	
	Chatting: Online Visitor 1	
Go back to live		ind tick on
chatting box	to enable PC to IP Camera audio function	on.
Note: The Aud	lio may not be smooth when the SD card	is recording

- B. <u>Adjust Volume</u>: Select the volume of both Mic-in and Audio-out.
- C. <u>Sound Detection</u>: Test the audio volume and sound quality first by selecting Enabled. Tick the output destination of the audio file recorded. Adjust the Detection Sensitivity Level from 40~90db to display the audio frequency level in the analytical graph below.



Click on the Apply button to save all the settings.

*Event List



back to the live video page.

_				
	0			
	System		System Information	
	System Information	Server Informati	on	
	User Management	MAC Address:	00:0F:0D:27:F7:F3	
	System Update	Server Name:	IP Camera Status Bar	
~		LED Indicator:	● ON ○ OFF	
	Network	Language :	● English ○ 繁體中文 ○ 简体中文 ○ French	
	IP Setting		🔿 Russian 🔷 Italian 🔷 Spanish 🔷 German	
	Advanced		○ Portuguese ○ Polish ○ Japanese	
	PPPoF & DDNS	OSD Setting		
	Server(Mail FTP)	Time Stamp:	Enabled Isabled	
		Text:	Enabled Oisabled	
H iti	A/V Setting		OSD_Display Text Edit	
	Image Setting	Time Setting		
	Video Setting	Server Time:	2015/9/10 21:31:08 Time Zone: GMT+08:00	
		Time Zone:	GMT+08-00	
-	Addio	Enable Davlid	aht Saving	
6	Event		gir oaving.	
	Event Setting	NTP Server :	neel ntn org	
	Schodulo	Update :	6 VHour	
		Time Shift :	0 Minutes [-14401440]	
		O Synchronize	with PC's time	
		Date :	2015/12/28	
	SD Card	Time :	16:23:43	
		O Manual		
		Date :	2015/12/28	
		Time :	16:23:30	
		The date and	time remain the same	_
			Apply	

1. Event Setting

A. Motion Detection

Tick "**Motion Area**" to enable motion detection. When motion is detected, the word "**Motion!**" will be displayed on the live screen.

Motion Detection	
Sensitivity:	5 🗸
Motion Area:	E-mail FTP Out1 Samba Google Drive Dropbox
Subject:	IP Camera Warning!
Interval:	10 sec 🗸 a period of time between every two motions detected.
Based on the	schedule

You can adjust the **Sensitivity** level for the camera to detect motions. The lower the number, the less sensitive the camera will react.

The camera will then send snapshots to assigned mail addresses, save snapshots to E-mail/ FTP/ Samba/Google Drive/Dropbox, or trigger the output device. Snapshots titled as "**IP Camera Warning!**" can be edited in the **Subject** column.

By ticking "E-mail/ FTP/ Samba/Google Drive/Dropbox" on the "Log" option, the motion detection log will be sent to "E-mail/ FTP/ Samba" simultaneously.

Interval: For example, selecting "10 sec". Once the motion is detected and action is triggered, it cannot be triggered again within 10 seconds.

Based on the schedule: When the option box is ticked, only during the selected schedule time the motion detection is enabled.

B. Record File

Record File		
File Format:	AVI File(with Record Time Setting)	~

When an event occurs, IP camera will record a video clip or take snapshot, and send to mail/FTP/Samba. Select the file saving format.

- <u>AVI File (with Record Time Setting):</u> Save AVI video file. The video length is according to the value set in Record Time Setting.
- <u>JPEG Files (with Record Time Setting)</u>: Only when selecting "JPEG" in streaming 1 video format of Video Setting, this option can be enabled. Select this option to save several JPEG picture files. The successive picture files cover a period of time according to the value set in Record Time Setting.
- <u>JPEG File (Single File with Interval Setting)</u>: Save single JPEG picture file when the event occurs.

C. Record Time Setting

Record Time Sett	ing		
Pre Alarm:	5 sec 💌	Post Alarm:	5 sec 💌

When an event occurs, the IP camera can record a video clip or take a snapshot, and then send it via mail/ FTP/ Samba. Select the video recording length before and after the event is detected.

D. Network IP Check:

Network IP Check	
IP Check:	Enabled Isabled
IP Address:	www.google.com
Interval:	30 sec 💌
Chook failed:	Connection failed four times. Reboot IP Camera.
Check falleu.	Save to SD card

After IP Check is **Enabled**, the IP camera can check if the network server is connecting. Tick the actions to follow if the IP checking fails.

2. Schedule

- All
 0
 1
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- **A. Schedule:** Tick the grids on the calendar to manage the time of your schedule.

B. Snapshot

Snapshot: After enabling the snapshot function; the user can select the storage position of the snapshot file, the interval time of the snapshot and the reserved file name of the snapshot.

	Snapshot
Enabled	ODisabled
Snapshot:	🗆 E-mail 🗹 FTP 🔲 Samba
Interval:	10 Second(s) [150000]
File Name:	Snapshot

Interval: Users can set the interval between two snapshots.

File Name: Enter the file name of your snapshot file.

<u>Restart IP Camera Automatically:</u> Set up the time for IP camera to restart automatically after ticking **Restart** to enable access.

Restart IP Camera Automatically					
Restart	Every week 🗸	Sunday	~	00:00 🗸	
					Apply

Click Apply to keep all the changes.
3. I/O Setting

I/O Setting			
Input Setting			
Input 1 Sensor:	N.O 🗸		
Input 1 Action:	E-mail FTP Out1 Samba		
Input 1 PTZ Action:	Enable V		
Input 2 Sensor:	N.O 🗸		
Input 2 Action:	E-mail FTP Out1 Samba		
Input 2 PTZ Action:	Enable V		
Input 3 Sensor:	N.O V		
Input 3 Action:	E-mail FTP Out1 Samba		
Input 3 PTZ Action:	Enable V		
Input 4 Sensor:	N.O 🗸		
Input 4 Action:	E-mail FTP Out1 Samba		
Input 4 PTZ Action:	Enable V		
Subject:	GPIO In Detected!		
Interval:	10 sec 🗸		
Based on the sc	hedule		

A. Input Setting:

The IP Cam supports input and output. When the input condition is triggered, a video will be sent to user mail addresses/FTP server/SAMBA. With the **PTZ Action**, select preset points from the drop-down list which have been assigned in Live Viewing Mode, and click **Enable** to perform.

•**Subject:** Edit the message content in the column.

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

•<u>Based on the schedule:</u> When the option box is ticked, only during the selected schedule time the I/O is enabled. That is, for example, the 11th hour of Monday has not been colored in the schedule table, then no action will be triggered even if the camera detects input signal during 11:00~12:00 on Monday.

B. <u>Output Setting</u>: It affects the DO or relay out duration.

Step 1: Adjust the Output Settings from I/O Setting.

Step 2: Turn on/off the **DO** or **relay out** control from "**Advanced Setting**" on the **left panel** of the live view page.

<u>On & Off Switch</u>: The camera triggers the digital output device which lasts for 10 seconds.

While in Output Setting, enable the **OnOff Switch** by clicking beside the title, and then adjust the **Output Waveform** at your desired level.

Output Setting			
Mode Setting:	OnOff Switch	O Time Switch	
Output Waveform:	HIGH 🗸		
			Apply

Go back to live view page. Click to turn ON/OFF the DO/relay out.

Advanced Set	ting
Home 13:	~
PTZ Control	Continuous 🗸
DO:	\odot on \bigcirc off

<u>Time Switch</u>: The camera triggers the digital output device which lasts for certain time according to the internal setting, and the user is not allowed to break off the alarm manually.

While in Output Setting, enable the **Time Switch** by clicking beside the title, and then adjust the **Interval** to your desired level.

Output Setting			
Mode Setting: Interval:	OnOff Switch	● Time Switch	
			Apply

Go back to live view page. Click Pulse to test the DO/relay out.

Advanced Setti	ng
Home Position 13:	~
PTZ Control	Step by Step 🗸
DO:	Pulse

4. Log List

Sort by System Logs, Motion Detection Logs and I/O Logs.

Log List	
System Logs	
	Logs
Motion Detection Logs	
	Logs
I/O Logs	
	Logs
All Logs	
	Logs

System Logs and I/O Logs won't lose data due to power failure.

	All Log
<system></system>	[2014/11/25 17:56:16] 192.168.23.65 login by admin.
<system></system>	[2014/11/25 17:42:31] 192.168.23.65 login by admin.
<motion detection=""></motion>	[2014/11/25 17:32:28] Area 3 Motion Detection.
<motion detection=""></motion>	[2014/11/25 17:32:28] Area 2 Motion Detection.
<motion detection=""></motion>	[2014/11/25 17:32:28] Area 1 Motion Detection.
<motion detection=""></motion>	[2014/11/25 17:18:49] Area 3 Motion Detection.
<motion detection=""></motion>	[2014/11/25 17:18:49] Area 2 Motion Detection.
<motion detection=""></motion>	[2014/11/25 17:13:41] Area 3 Motion Detection.

vi. Network Configuration

I. 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.

II. 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. <u>Device needed:</u> Switch Hub.
- e. For fixed real IP, set up the IP into IP Camera and PC. For dynamic IP, start PPPoE.

III. 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.

vii. I / O Configuration

1. I/O Connection



- a. Connect GND & ALARM0 (DO) pin to external relay device or buzzer.
- **b.** Connect GND & ALARM_N (**DI**) pin to external trigger device.

When no event occurs, the DO output is 5V (DO and GND are disconnected). When the camera detects events it will trigger and external alarm, DO output is 0V (DO and GND are connected).



If you select "N.O" on "Input sensor setting", when the switch contacts are opened, the camera input alarm will be triggered and will execute the action user has set, for example, send a snapshot to E-mail address. If you select "N.C" in "Input sensor setting", when the switch contacts are closed, the camera input alarm will be triggered and will execute the action which the user has set, for example, sending a snapshot to assigned E-mail address.



- c. I/O PIN definition
 - GND (Ground)
 - ALARM_0 (Digital Output, DO): DC 5V
 - ALARM_N (Digital Input, DI-N): Max. DC 5V
 - AUDIO_OUT (Audio Output)
 - MIC_IN (Microphone Input)

2. I/O Setup

	I/O Setting
Input Setting	
Input 1 Sensor:	N.O V
Input 1 Action:	E-mail FTP Out1 Samba
Input 1 PTZ Action:	□ Enable ∨
Input 2 Sensor:	N.O V
Input 2 Action:	E-mail FTP Out1 Samba
Input 2 PTZ Action:	□ Enable ∨
Input 3 Sensor:	N.O V
Input 3 Action:	E-mail FTP Out1 Samba
Input 3 PTZ Action:	□ Enable ∨
Input 4 Sensor:	N.O V
Input 4 Action:	E-mail FTP Out1 Samba
Input 4 PTZ Action:	□ Enable ∨
Subject:	GPIO In Detected!
Interval:	10 sec 🗸
Based on the s	chedule

a. Input Setting

Click I/O Setting from the system setup page via the internet browser, and mark "Out1" to enable I/O signal.

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.

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**.

Advanced Setting		
Home Position 1:Door	r 🗸	
PTZ Control	Continuous 🗸	
Relay Out1	OON OFF	

Select HIGH or GROUNDED To adjust the Output Waveform.

Output Setting				
Mode Setting:	OnOff Switch	◯ Time Switch		
Output Waveform:	HIGH V		Apply	

ii). <u>Time Switch mode:</u>

Click **Pulse**, the camera will trigger the external output device for several seconds.

Advanced Settin	19	
Home Position 1:Door		
PTZ Control	Step by	Step 🗸
Relay Out1	Pulse	

The duration length is based on the values set from **Interval**.

Output Setting			
Mode Setting: Interval:	OnOff Switch 10 sec ↓	• Time Switch	
			Apply

viii. Factory Default

If you forget your password, please follow the steps to revert back to default value.

- Remove power and Ethernet cables from the camera.
- Join the Black (GND) and Pink (Default) cables.



- Connect the power to the camera again. Keep the two wires connected during the booting. It will take around 30 seconds.
- Separate the Black (GND) and Pink (Default) cables when camera finishes booting.
- Plug-in the Ethernet cable. Re-login the camera using the default IP (http://192.168.1.200), and user name: admin, password: admin.

ix. 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.

۹	IP So	IP Scanner – 🗆				×		
Device lists:		1	• Stat	ic				
Server Name	IP Address		O DHCP	<u>.</u>				
H7A26A	192.168.001.102	Name		H7A	26A			
		IP	192	168	1	102		
Soon and find th		Netmask	255	255	255	0	j ,	
bean and tind th		Gateway	192	168	1	1		
		DNS 1	192	168	1	1		
		DNS 2	168	95	192	1		
		Port1		80	82			
		MAC	00:0F:0D:27:BE:4B		: 4B			
		-				5		
					1			
		- 4		-		9		
	Search Device				Subr	nit		
To Change Device Nam	e. IP address. and Gateway							
1.Select the device on the left side.					Ex	it		
3.Press Submit button.								
4.Press "Search Devi 5 Double click the device	ce" to re-search again.							

Or, 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. Find the .html file named **Universal Password** in CD-ROM. Click to open it.



 Key in the camera IP address IP Address column and MAC address in MAC column, and then click encoder, a set of username and password will appear, as shown in the picture below:

IP address:	192.168.1.200	
MAC:	00:0f:0d:11:22:33	
Username		
Password		
		encoder

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. Take the generated username and password. Use them to log into the camera.

Windows Security ×				
iexplore The server 192.168.1. 200 is asking for your username and password. The server reports that it is from IP_Camera.				
authentication on a connection that isn't secure.				
B923FB				
Remember my credentials				
OK Cancel				

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.

		<i>ể</i> User_Setting - Internet Exp – 🗖 🛛 🛛
		about:blank
Ø	System	User Setup Username: admin
	System Information	Password:
	User Management System Update	Confirm: OK
Î	Network	
	IP Setting	User Managen ent
	Advanced	Anonymous User Login
	PPPoE & DDNS	VYES 015
	Server(Mail,FTP)	Add lieer
1141		Username:
1919	Arv Setting	Password:
	Image Setting	Confirm:
	Video Setting	Add/Set
	Audio	User List
ß	Event	Username User Group Monify Remove admin Administrator Edit

x. Package Contents

IP Speed Dome	Wall Mount	HEX SOCKET CAP		
		SCREWS		
Quick Installation		Hex Wrench		
Guide	CD			
Quick Installation Guide				

• The CD includes user manual and software tools

xi. Accessories (Optional)

You can choose different accessories for your camera:















