Outdoor Full HD IP Camera



User Manual

Revision: 040112 Date: 2017/07/25 For firmware version v040112

Table of Contents

LI	ST OF F	FIGURES AND TABLES	3
1.	INTE	RODUCTION	5
2.	HAR	DWARE DESCRIPTION AND QUICK INSTALLATION/USAGE	7
	2.1.	MAJOR HARDWARE COMPONENTS.	7
	2.2.	QUICK INSTALLATION AND USAGE	9
	2.3.	PUSH NOTIFICATION	14
	2.4.	TIME LAPSE VIDEO RECORDING	14
	3.1.		16
	3.2.	NETWORK	17
	3.3.	Advanced Network	19
	3.4.	VIDEO SETTINGS	20
	3.5.	MOBILE VIDEO SETTINGS	22
	3.6.	NIGHT MODE CONTROL	23
	3.7.	EMAIL/FTP ALARM	24
	3.8.	NAS SETTINGS	27
	3.9.	CLOUD STORAGE SETTINGS	29
	3.10.	SD-CARD SETTINGS	31
	3.11.	SCHEDULING	33
	3.12.	LED DISPLAY CONTROL	35
	3.13.	DATE/TIME	36
	3.14.	ADMIN	37
	3.15.	UPGRADE	38
	3.16.	Rевоот	39
	3.17.	SET TO FACTORY DEFAULT	40
4.	FEA	TURES AND SPECIFICATIONS	41
	4.1.	FEATURES	41
	4.2.	SPECIFICATIONS	42
-	-	KAGE CONTENTS	
A	PPENDI	X A. REMOTE VIEWING THROUGH NAT/ROUTER DEVICES	45
AI	PPENDI	X B. PERFORMANCE INFORMATION	46
AI	PPENDI	X C. TROUBLE SHOOTING	47
A	PPENDI	X D. SNAPSHOT PICTURE ON ANY BROWSER	49

List of Figures and Tables

- Figure 2-1: Major components in the front panel Figure 2-2: Major components in the back panel Figure 2-3: IP CAM connection diagram. Figure 2-4: Connect Ethernet cable to a switch/router. Figure 2-5: Download the latest CamView software Figure 2-6: The ID/Password card Figure 2-7: Running window of CamView program Figure 2-8: Pop-up play-video password window Figure 3-1: Open the web configuration page from CamView software Figure 3-2: IP CAM Web configuration login page Figure 3-3: IP CAM Information page Figure 3-4: Network settings page for DHCP function Figure 3-5: Network settings page for fixed IP address Figure 3-6: Advanced network settings page Figure 3-7: Video settings page Figure 3-8: Mobile video settings page Figure 3-9: Night mode control page. Figure 3-10: Email Alarm page Figure 3-11: SMTP server settings page Figure 3-12: NAS Storage settings page Figure 3-13: Cloud Storage Settings page Figure 3-14: Cloud Storage logged in page Figure 3-15: SD-Card settings page Figure 3-16: SD-Card information page Figure 3-17: Led Control settings page Figure 3-18: System date/time settings page Figure 3-19: Admin settings page Figure 3-20: Firmware upgrade settings page Figure 3-21: Firmware upgrade status page Figure 3-22: System reboot settings page Figure 3-23: System reboot under-going page Figure 3-24: Stick on the reset button to set to the factory default Figure 5-1: The IP camera body Figure 5-2: Power Adapter
 - Figure 5-3: Quick installation guide
 - Figure 5-4: Ethernet cable

Outdoor Full HD IP Camera

Figure 5-5: Installation CD Figure 5-6: ID/Password Card Figure 5-7: Splitter Cable Figure 5-8: RJ45 Coupler

1. Introduction

The IP Camera is designed for all day video surveillance on your iPhone/iPad and Android mobiles/pads. The setup is truly 1-2-3 :

- 1. Connect the camera to the network
- 2. Download the app mCamView into your iPhone/iPad or Android
- 3. View video by the camera ID/password

The camera is for outdoor usage, with the IP66 rated housing, the camera is totally dust and rain proof and suitable for operation under poor weather condition. With the 24V power adapter and splitter cable, the camera can be powered through Ethernet cable for up to 50 meters. No PoE switch is needed.

The push notification is supported, so that you will get the notification from your iPhone/iPad and Android once there is any events detected through the motion detection or sound detection on the camera, even when your mobile is on sleep mode.

The SD card recording is supported, and you could playback the recorded video on your iPhone/iPad and Android. You could also do the SD card recording only when there is motion or sound detection to save the SD card storage size. The motion and sound detected recording has a 5 seconds pre-recording, so that you will always catch the critical moment.

The Time Lapse Recording is supported. The camera can do time lapse recording on the SD card and you can playback the recorded time lapse video on the mobile or tablet remotely, anywhere. This is more convenient than traditional time lapse camera which can only be played back by removing the SD card to a computer.

The NAS and cloud storage is supported. You can record the video files into any normal NAS devices or to your Dropbox account. And you can playback those recorded video files remotely on your mobile devices or computers.

For day & night usage, there is an IR cut on the camera, IR filter is on for day and off for night. The lens is wide angle up to 120 degree.

The IP camera is ideal for securing small businesses, home offices and

Outdoor Full HD IP Camera

residences. The IP Camera is a perfect replacement of the alarm system and traditional analog CCTV camera in your house and shop.

The differences

It's very easy to see the video of the FHD IP Camera, you only need to key in the ID/Password of the IP CAM any where in the world, you do not need to remember the IP address or domain name or DDNS name or port number. And you do not need to modify the settings (like port mapping, fixed IP, DDNS, virtual server) of the NAT/router devices, it's just a plug & play usage.

The camera could be easily controlled and monitored by the App on iPhone and Android mobiles. This camera could also be used as a time lapse video recording camera at the same time.

2. Hardware description and quick installation/usage

The IP CAM is designed to be very easy to install and use. First, let's see the major components of the IP CAM products.

2.1. Major hardware components.

The major components on the **front panel** of the IP CAM products are the followings :

- Lens the lens is inside the camera body and the focus of the lens is fixed, you do not need to spend time to adjust the focus, the effective focus range is from 30cm to infinity. There are two lens for day and night usage separately.
- 2. IR LED there are two IR LEDs for the night mode usage.
- Status indication LED (red) this LED is to indicate the Internet connection status. When the Internet connection is connected, the LED will be constant red light. If there is any Internet connection problem, the LED will be blinking red light.
- 4. Ethernet indication LED (blue) this LED is to indicate if the Ethernet link is ok and packet traffic is sending/receiving. When the Ethernet cable is connected, the LED is constant blue light. When there is packet sending/receiving, the LED is blinking blue light.
- 5. SD card LED for the indication of the SD card activity (recording).
- 6. Light detector for switching between day time and night time automatically.

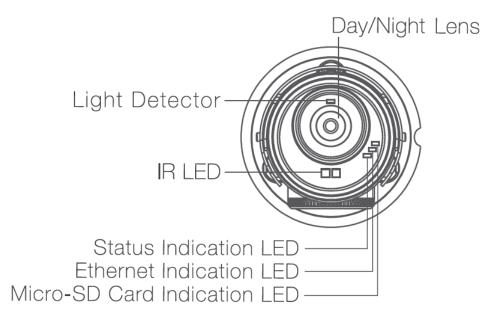


Figure 2-1: Major components in the front panel

The major components on the **back panel** and bottom of the IP CAM products are the followings:

- Power and Ethernet jack use the accompanied splitter cable to connect to power adapter and Ethernet network. You could also extend the cable by using the accompanied RJ45 coupler as shown in Fig.2-3. The power needed for this IP CAM is 20V/1.0A, please make sure you are using the correct power adaptor. When the Ethernet link is ok, the Ethernet indication LED on the front side will be blue light.
- 2. Microphone for receiving the audio/voice. Effective distance is about 5 meters.
- 3. Micro-SD card slot for inserting the micro SD-Card. (support up to 32G bytes)
- 4. Reset button this is the button to reset the IP CAM to default factory settings. You need to use a small stick like pencil or tooth stick to press the reset button for more than 5 seconds to enable the reset function. Usually when you forgot the administrator account, you will probably need to do this reset action to reset to the default factory settings. Please refer to section 3.19 for more details.

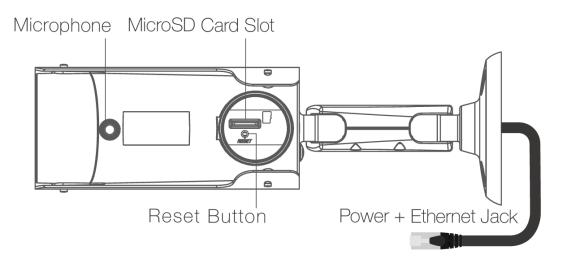


Figure 2-2: Major components in the back panel

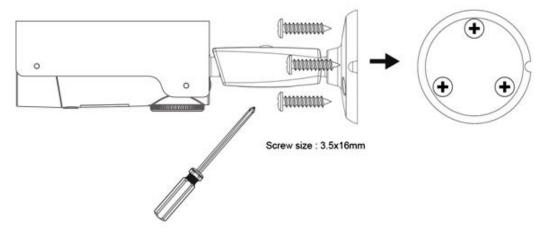


Figure 2-3 shows how to mount the camera on the wall or the ceiling.

Figure 2-3: Mounting the camera on wall or ceiling

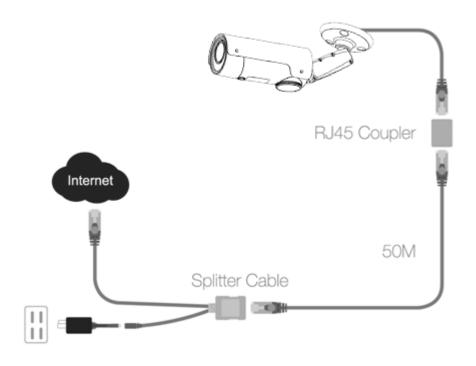
2.2. Quick installation and usage

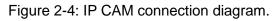
There are only three things that you need to do to see the video from the IP CAM.

- 1. Connect the IP CAM to the home/office network.
- 2. Install the CamView/app software on the notebook/PC/mobiles.
- 3. Key in the ID/password of the IP CAM(from the ID/Password card) on the CamView, and then you can see the video.

First, Connect the IP CAM to the home/office network

Please connect the IP CAM accessories to the IP CAM body correctly, including the power adapter and Ethernet cable, as shown in Figure 2-4. And connect the other end of the Ethernet cable to the home network or office network. Usually, this Ethernet cable is plugged into a home NAT/router device or an Ethernet switch if in the office, as shown in Figure 2-5. Since the default settings of the IP CAM use DHCP function and very often there is a DHCP server on most of the Home/office network, the IP CAM should be connected to the Internet immediately. The Internet status LED is constant red light to indicate this good connection status. If the LED is blinking, please refer to section 3.3~3.5 to try other network settings.





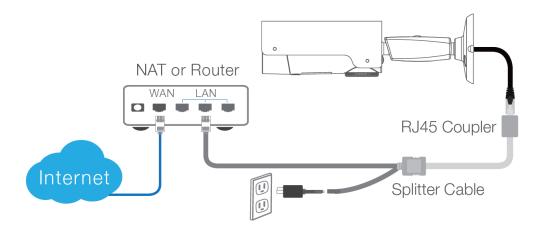


Figure 2-5: Connect Ethernet cable to a switch/router.

Second, Install the CamView/mCamView2 software on the notebook/PC/mobiles

Please download the latest CamView software with the following information: Website: http://www.starvedia.com/download.html

Username: viewer Password: camview

(must be running Microsoft Windows OS).

Execute the downloaded program CamViewInstaller-xxx.exe. The program will pop-up some windows about the installation options, please press the "next" button to proceed with the installation. After the installation is complete, there will be a CamView icon on the desktop of your computer screen, please execute this icon. The CamView program will run immediately.



Figure 2-6: Download the latest CamView software

Third, Use CamView program to see the video

Figure 2-6 is the running window of the CamView program. If the computer and IP CAM is connected to the same network, the IP CAM ID will be displayed in the "Auto Search" list. You can double click the "Auto Search" to search all the connected IP CAMs any time. The only thing left right now for seeing the video is to double click the IP CAM ID item in the "Auto Search" list. For example, if the IP CAM ID is 001-001-029, you can then double click the 001001029 item in the "Auto Search" list to view the video. A window asking for password input will pop up. Please key-in the password in your ID/Password card into this field and click "ok". The video will then be displayed on the window.



Figure 2-7: The ID/Password card

Notice 1:

Outdoor Full HD IP Camera

- You can modify this play-video password by entering into the web configuration pages. Please refer to section 3.6 for more information. Or by using the App mCamView2 under the "admin" settings.
- 2. You can also add the IP CAM into the CameraList in the CamView software to have more convenient video display, please refer to the user manual of the CamView software for more functions.

Notice 2:

- 1. For the iPhone usage, please download "mcamview2" from App Store
- 2. For the iPad usage, please download "mcamviewHD" from App Store
- 3. For the Android mobile phone/pad usage, please download "mcamview2" from Android Market.

Seeing the video in a remote location

After the IP CAM is installed and you can see the video from the CamView software in the local network, it's very easy to see the video in a remote location. All you need to do is add a camera item in the "CameraList" folder of the CamView software, key in the IP CAM ID and Password(from the ID/Password card). And then double click this camera item. You will then see the Camera video immediately. No further NAT/router setting modifications are needed.

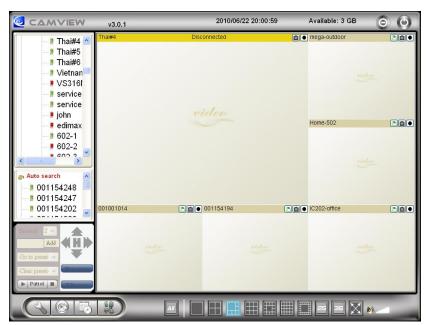


Figure 2-8: Running window of CamView program

Outdoor Full HD IP Camera

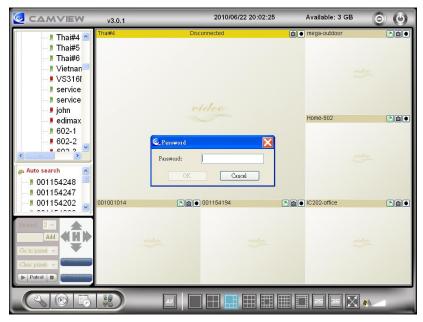


Figure 2-9: Pop-up play-video password window

2.3. Push notification

The IP CAM supports push notification when using the iPhone/iPad or Android devices. So that when there is alarm motion detection or sound detection, your mobile device will receive alarm notification. You can immediately playback the recorded video(if SD card inserted) or do a live view.

Please download the "mcamview2" app from App Store for iPhone. Please download the "mcamviewHD" app from App Store for iPad. Please download the "mcamview2" app from Android Market for Android devices

To enable the push notification, go to the settings page of the specific camera on the App, choose "alarm notification", key in the login account(default is "admin", no password), and enable the alarm condition(motion detection or sound detection) you want. That's all. The mobile device will receive push notification immediately when the alarm is triggered. If the SD card is inserted, the camera will start SD card recording when the alarm condition is detected. And the recording will include 5 seconds of pre-recording.

2.4. Time lapse video recording

Please use the App mCamView2 to setup the time lapse video recording and playback the recorded time lapse video. For more details, please refer to the user manual of the App.

3. Web configurations

You can login into the web configuration page by directly key-in the IP address of the IP CAM or right-click the searched IP CAM in the "Auto Search" list of the CamView software and click the "Web Configure" to open the login window of the IP CAM.

	v3.0.1		2010/06/2	2 20:33:21	Available: 3 GB	Θ	0
● Demo	demo#1	Disc	onnected	0.	mega-outdoor	-	
 demo#2 demo#3 demo#4 IC202-offi 							
. IC212#1							
IC212#2					Home-502		
IC212w-o IC602-offi							
. ICE020.4.*							
Auto search							
001154248							
B 001154 Web con	60000						
# 001154220	ourourora.	<u>-</u>	001154194	2 0	IC202-office		20
Add							
Patel	10						-

Figure 3-1: Open the web configuration page from CamView software

The default login account is "admin", leave the Password field empty.

Connect to 10.10	0.10.122 ? 🔀
	GE
<u>U</u> ser name:	📓 admin 🛛 👻
Password:	
	Remember my password
	OK Cancel

Figure 3-2: IP CAM Web configuration login page

3.1. Information

The first page of the web configuration of the IP CAM is the information page. You can see the model name/firmware version, IP CAM ID, registration status, network type and current video settings(bandwidth, resolution) in this page.

The IP CAM can be viewed remotely by the CamView software only when the IP CAM is registered. If this IP CAM is not registered, please check the Ethernet wiring of your network environment. The "Network type" field displays the network connection and method(DHCP, PPPoE or static ip) the IP CAM is running. The "Video users" field displays the number of connected video viewing users.

		TP CAM Information
Information	Model	wireless / v030402
mornation	IP CAM ID	002-115-162
Network	Registration status	Registered(3+uPnP)
	Network type	Wired(Fixed IP) - (ip=192.168.61.123)
Video	Video user	0
	Video resolution	1280 x 800
Schedule	Video bandwidth	1M bps
	Email/ftp Alarm	off
Admin	NAS Record	Not Recording
	SD-Card Record	Recording Now
language: English 💌	Mac Address(Hex)	00:1B:C7:01:72:A1

Figure 3-3: IP CAM Information page

3.2. Network

The Network page allows you to modify the network settings of the wired Ethernet. The default settings use DHCP to obtain an IP address automatically. In most of the home and office network environment, there is a DHCP server running. In this situation, by using this default settings, the IP CAM can work immediately in most of the time.

If the Ethernet cable is unplugged, the IP CAM will lose connection. But as soon as the Ethernet cable is plugged in again, the IP CAM will obtain a new IP address immediately.

IP Camera		The warking to have 5 hours requestions, The cancer properties of the second	
		Network Settings(For wired ethernet)	
Information	Obtain an IP address au	tomatically	
Network	\bigcirc Use the following IP ad	dress	
Network	IP address	192 . 168 . 1 . 123	
Wired Network	Subnet mask	255 . 255 . 255 . 0	
Advanced	Default gateway	192 . 168 . 1 . 1	
Video	• Obtain DNS server add	ress automatically	
Schedule	O Use the following DNS	server address	
Schedule	Preferred DNS server	168 . 95 . 1 . 1	
Admin	Alternate DNS server	168 . 95 . 192 . 1	
		Save & Apply	
anguage: English 🔽			

Figure 3-4: Network settings page for DHCP function

If the network environment does not support DHCP function, you will need to set the network settings of the IP CAM manually. Please fill all the fields including "IP address", "Subnet mask", "Default gateway" and "DNS server" to let the network work. All these settings must be correct for your network environment, otherwise the IP CAM can not work.

The default setting is "Obtain an IP address automatically".

		dive is the work of a descent a magnetizer. Descent and constant, such and and endergance -	
Information	O Obtain an IP address auto	Network Settings(For wired ethernet)	
	• Use the following IP add		
Network	IP address	192 . 168 . 1 . 123	
Wired Network	Subnet mask	255 . 255 . 255 . 0	
Advanced	Default gateway	192 . 168 . 1 . 1	
Video	O Obtain DNS server addre	ss automatically	
Schedule	• Use the following DNS s	erver address	
Schedule	Preferred DNS server	168 . 95 . 1 . 1	
Admin	Alternate DNS server	168 . 95 . 192 . 1	
		Save & Apply	
language: English 🔽			

Figure 3-5: Network settings page for fixed IP address

3.3. Advanced Network

In some special situation, your network environment only provides PPPoE connection(ADSL service), there is no NAT/router available. You will then need to set the PPPoE settings in the "Advanced Network" page. Only the PPPoE username and password are needed to let PPPoE work. After the "Save&Apply" button is pressed, the PPPoE function will work immediately. You can check the "Registration status" in the "Information" page to see if the IP CAM is registered using the PPPoE connection.

Please be noticed that the DHCP or static IP settings in the "Network" page can work together with the PPPoE connection. Only that the PPPoE has higher priority, so, if the PPPoE is working, the IP CAM will use PPPoE to connect to the Internet.

The default setting is "Disable PPPoE".

		Advanced Network Settings
Information	O Disable PPPoE	
	• Use PPPoE to get	an IP address
Network	Username	pppoe_username
Wired Network	Password	••••••
Advanced	Notice : need to unplu	g the ethernet cable and reboot for PPPoE over WiFi !
Video		Save & Apply
Schedule		
Admin		
anguage: English 🗸		

Figure 3-6: Advanced network settings page

3.4. Video Settings

The IP CAM is designed to provide high quality video for viewing from CamView software. In this page, you cam modify some settings related to the video viewing:

- Password(play video) this is the password needed for viewing the video from the CamView software. Together with the IP CAM ID, you can view the video of this IP CAM anywhere in the world through the Internet.
- Internet speed this is the Internet bandwidth of your network environment. Higher value will generate higher video quality. But if your internet connection can not provide more bandwidth than the specified value, the video quality could degrade. So, please key in a value that is lower than your internet bandwidth.
- Select resolution & frame rate automatically you can let the system select the suitable video resolution and frame rate automatically for you. The selection is based on the "Internet speed" value. This is the recommended default setting.
- 4. Resolution there are three choices : 640x360, 1280x720 and 1920x1080. If you decided to choose the value manually, you can choose one of the four values. But, please be noticed that if the Internet speed is slow(low value), high resolution(1920x1080) or frame rate could cause very bad video quality.
- 5. Frame rate the video frame display rate. Higher value means faster movement and continuity in the video display.
- 6. Favor/Preference choose between "Video motion", "Image quality", "better quality" and "best quality". When the real bandwidth is not enough for the selected "Internet speed", the system will need to degrade the video motion or image quality. This selection will decide if the user want to maintain the "video motion" or "image quality" when the internet speed is not good enough.
- 7. Brightness the brightness of the video, lower value means darker display.
- 8. Sharpness the sharpness of the video, higher value means sharper video.
- 9. Low light sensitivity The low light sensitivity could be normal, high or very high. When the low light sensitivity is high, the system could see better video clearance under low light situation, but the moving object will not be very clear under this low light environment. Under very dark environment, set to "very high" will get better video clearance. The default value of this setting is "high".
- 10. Video color choose between "colored" and "black&white".
- 11. Video flip can do "normal" or "flip" video display, this is needed if the ip camera is hung on the ceiling or wall.
- 12. Outdoor/Indoor video for better video display quality, modify this setting when taking indoor or outdoor video. The default setting is "Outdoor video", in most cases, this is also ok for indoor usage. Under some special cases, there could be some strip lines on the video display when the IP camera is taking indoor video. In

this situation, change the setting to "Indoor video" will solve the problem. Please also be noticed that in "Indoor video" setting, the video display of outdoor view is very vague. For indoor usage, if there is strong sun light into the room, please select the "Indoor+sun light" choice.

- Enable/disable audio microphone you can enable or disable the audio microphone on the IP CAM. If disable, there will be no voice on the CamView video viewing.
- 14. Enable/disable time display on video if enabled, the date/time of the system will be displayed on the left-upper corner of the video.

When this modification is "Save&Apply"ed, it works immediately, but all the connected video viewing users will be disconnected.

	IP CAM ID	002115162	
Information	Password(play video)	1234	
Network	Internet speed	1Mbps 💌	
Video	O Adjust resolution & fran	e rate automatically	
 Display Video Settings 	 Use the following values Resolution 	1280x800	
Mobile Video	Frame rate	10fps 💌	
Night Mode	Favor/Preference	Image Quality -	
Schedule	Brightness	5(medium) 💌	
	Sharpness	3	
Admin	Low light sensitivity	high	
iguage: English 💽	Video color	colored	
	Video Flip	Normal	

Figure 3-7: Video settings page

3.5. Mobile Video settings

The IP CAM is able to be viewed from a 3G mobile phone, please download "mcamview2" software from App Store for iPhone/iPad and "mcamview2" from Android Market for Android Mobiles and pads..

The video frame rate, resolution and bandwidth for 3G mobile access could be set independently from the video settings for CamView(PC) access. The maximum allowed resolution is 1280x720 and maximum allowed bandwidth is 2M bps.

		Then is the Longendon that Nades to Malling increases, all on in the case of all anternations many second and Decision and non-fact, such to and conferences is a	
Information		Mobile Video Settings	
	mobile bandwidth	192Kbps 💌	
Network	C Select resolution & fran	ne rate automatically	
Video	• Use the following value	25	
Display	Resolution	1024x768	
Video Settings	Frame rate	5 fps 💌	
Mobile Video	● Enable audio ○ D	isable audio	
Night Mode	Endore dudio D		
Schedule		Save & Apply	
Admin			
anguage: English 💌			

Figure 3-8: Mobile video settings page

3.6. Night mode control

The IP Cam is able to work both in day time and night time. There is an IR LED that can let the IP camera see the objects in the night time. This night mode control page is to control when the time the IR LED will be on. There are three ways to control the night mode(IR LED) :

- 1. Automatic day and night mode switch : the IP cam will automatically turn on the IR LED when the night time is arrived or the environment is becoming dark. There is a light sensor on the IP cam that is doing this light detection.
- 2. Scheduled time of night mode : the IP Cam can also be scheduled to turn on the IR LED in a time range of each day.
- 3. Manual night mode control : the IP Cam can be manually forced to night mode(IR LED on) or day mode(IR LED off).

In order to get better video color display during day time and night time, an IR cut filter is used to switch between day and night mode separately. This make sure the video color quality is excellent compared to other IP camera.

IP Camera	Seeing	the video from anywhere New York and the second sec			
Information		Night Mode Control			
	• Automatic day and night mode switch				
Network	C Scheduled time of night mod	e			
Video	During time	22 • :0 • ~ 6 • :0 •			
Display	C Manual night mode control				
Video Settings	Mode	Day 💌			
Mobile video	Current Status	Day			
Night Mode		Save & Apply			
Schedule					
Admin					
language: English 💌					

Figure 3-9: Night mode control page.

3.7. Email/ftp alarm

The IP Camera provides the Email/ftp function, you can enable or schedule the Email/ftp ability in this page, the IP Camera will then send out an email with a jpeg picture attached in the email and/or send out the jpeg picture file to a ftp server. The related settings are explained below:

- 1. Email/FTP trigger choose between "motion", "schedule" and "disable"
 - A. If "motion" is selected, it means that when there is a motion detected, the system will send out the email and/or ftp with the captured video snapshot.
 - B. If "schedule" is selected, it means that the email/ftp alarm detection and triggering will be scheduled by the "scheduling" in section 3.12.
 - C. "disable" will disable the email/ftp alarm.
- 2. Motion sensitivity there are 10 possible choices in this field.

"High" means high sensitivity, i.e., the motion detection is triggered by a very small movement in the video image. If "High" is selected and the size of the moving object is larger than about 1% of the whole video area, it is detected. Please be noticed that the real size of the object could be large or small, anyway, the detection is only based on the relative size of the object. Probably a small pencil moving near the IP Camera could be detected, but a moving car far away from the IP Camera could not be detected.

"Low" means low sensitivity, i.e., the motion detection is triggered by a very large movement. If the size of the moving object is larger than about 10% of the whole video area, it is detected. "Median" means 3% to trigger the detection.

- Trigger Interval this is to control the time interval of consecutive triggering of sending the email/ftp alarm. For example, if this value is set to 10 seconds, it means that the system will wait at least 10 seconds for sending next email/ftp alarm.
- 4. Send email message if this item is enabled, the IP Camera will send out an email message with the jpeg picture attached to the specified email account.
- Email recipient#1~#3 this is the email address to receive the detection notice message. An email message with the jpeg picture file named by the date/time of the triggered moment will reach this address.
- 6. Send FTP message if this item is enabled, the IP Camera will send out a jpeg picture file to the specified ftp account.
- 7. FTP server this is the FTP server address to receive the jpeg file.
- 8. FTP username/password this is the username/password to login into the FTP server, so, this triggered jpeg file will be allowed to reach this FTP server.
- 9. Remote folder the jpeg file will be put under this folder of the FTP server.

When this modification is "Save&Apply"ed, it works immediately, but all the connected video viewing users will be disconnected.

The default setting is "Disable".

	Seeing	the video from anywhere
IP Camera		The seafure in these faces requestions. Per seague to peak the sea to be the faces questions and the seague to peak the seague
		Email/FTP Alarm Settings
Information	Email/FTP Trigger	Motion O Schedule O Disable
Network	Motion sensitivity	3 🗸
Video	Trigger Interval	10 seconds(1~600)
Schedule	☑ Send Email message	
Email/ftp Alarm	Email recipient#1	xxx@yyy.com x
NAS Settings	Email recipient#2	
Cloud Storage	Email recipient#3	
SD-Card	Send FTP message	
Scheduling	Ū.	
Admin	FTP Server	
	Username	
language: English 🔽	Password	
	Remote folder	· · · · · · · · · · · · · · · · · · ·

Figure 3-10: Email/ftp Alarm page

For the email message to work, a SMTP server is required. Click the "advanced" button will display the SMTP server settings page. A default SMTP server is provided, so that the user does not need to use a specific SMTP server. But, any way, the user could also specify his own SMTP server. (SSL security is not supported)

- SMTP server this is the SMTP server that will help to transfer the email message. This server is irrelevant to the "Email recipient" address.
- 2. SMTP username/password this is the account to use the SMTP server to transfer the email message. The SMTP server and username/password account are only for transfer the email message to the "Email recipient", the "Email recipient" could be on another email server or any reachable email address. The username and password fields could be left empty if no authentication is needed for the SMTP server.
- SMTP server test after the settings are filled, you could press "SMTP server test" to check if all the settings are correct. If the default SMTP server is choosed, it will test the default SMTP server.

Outdoor Full HD IP Camera

			TP Server Settings	
Information	• Use the default SMTP		ir Server Settings	
Network	O Use the user defined S			
Video	SMTP server		port 25	
Schedule	SMTP Username		(name@server)	
Email/ftp Alarm	SMTP Password			
NAS Settings	Save 8	& Apply	SMTP server test	
Cloud Storage				
SD-Card				
Scheduling				
Admin				
anguage: English				

Figure 3-11: SMTP server settings page

3.8. NAS settings

The IP Camera provides the recording of the video files into a standard NAS (Network Access Storage) device. The IP camera connects to the NAS device using the standard LMX_NS/CIFS/SSN protocols that are the same as the Microsoft Windows network neighborhood protocols. This makes the IP camera easily record the video files to all the standard NAS devices in the market. Since there are a lot of different choices, including prices and scales, users can decide by themselves which is best for their needs. By using this function, the standard NAS device is becoming a NVR (Network Video Recorder) device.

Notice : the IP camera can only do NAS recording or Cloud recording at the same time. NAS recording and cloud recording can not be enabled at the same time.

- If the "Always Recording" is selected, the system will start to record to the NAS storage device immediately and keep recording always. If the "Scene Recording" is selected, the system will do the NAS recording according to the "scene" settings in mcamview2. "Disable Recording" will disable this NAS recording.
- 2. When doing the NAS recording, the system will check the free disk space of the NAS device. If the free disk space is less than the specified number, the system will do "Circular recording" (overwrite the oldest recorded files of this IP camera in the NAS device) or "Stop recording" as selected. If the "keep recorded video for xx days" is selected, the system will do circular recording and over write the recorded video files older than xx days ago.
- 3. The IP camera can connect to the NAS device by using the "NAS IP address". If the NAS device uses a fixed IP address(either in the local area network or in the public internet), the IP camera can connect to it by the "NAS IP address".
- 4. The "Shared folder name" is the folder in the NAS device that will record the video files of the IP camera.
- 5. The "NAS access account" and "NAS access password" are the username and password to login into the specified "Shared folder name" of the NAS device.
- 6. NAS Info display the NAS storage capacity and available disk space.
- Configure NAS(web) click this to connect to the web configuration page of the NAS device. Need to key in the login username/password of the NAS device.

In the Microsoft Windows environment, you can access to the NAS device by keying the URL address <u>\\"NAS</u> name"\"shared folder name" or <u>\\"NAS</u> IP address"\"shared folder name" in the windows Internet Explorer, and then key in the "NAS access account" and "NAS access password" to the prompted login window. The video files are recorded under the subfolder IPCamRecordFiles/Recording/ID-ID,

where ID is the ID of this IP camera. All the recorded files are with the name of hhmmss.crf format, where hh is the hour, mm is the minute, ss is the second of the starting time of the recording video. The files are segmented every five minutes. Users can use the free bundled CamPlay software to play back the video files.

		NAS Storage Settings
Information	○ Always Recording ● Schedule	
Network	· · · · ·	ays (Circular recording)
Video	○ If free disk less than 0 GB	 Circular recording Stop recording
Schedule	Use NAS IP address	192 . 168 . 1 . 1
Email/ftp Alarm	Shared folder name	public
NAS Settings		,
Cloud Storage	NAS access account	guest ×
SD-Card	NAS access password	
Scheduling		Save & Apply
Admin		
Admin		
language: English 🗸		

Figure 3-12: NAS Storage Settings page

3.9. Cloud Storage Settings

The IP camera provides the recording of the video files into the Dropbox as the cloud storage. You can use your Dropbox account to do the recording and remotely playback the recorded video files on your mobile devices or computers.

- If the "Always Recording" is selected, the system will start to record to the cloud storage device immediately and keep recording always. If the "Schedule Recording" is selected, the system will do the cloud recording according to the "scheduling" in section 3.14. "Disable Recording" will disable this cloud recording.
- 2. When doing the cloud recording, the system will check the free disk space of the cloud device. If the free disk space is less than the specified number, the system will do "Circular recording" (overwrite the oldest recorded files in the cloud device) or "Stop recording" as selected. If the "keep recorded video for xx days" is selected, the system will do circular recording and over write the recorded video files older than xx days ago.

Notice 1.: To login to the Dropbox, must use the mobile App(mcamView2). Can not login through the web settings.

Notice 2 : the IP camera can only do NAS recording or Cloud recording at the same time. NAS recording and cloud recording can not be enabled at the same time.

IP Camera	The water to law 3 have pueses, the 4.6 or product for the fact that the fact the pueses, the 4.6 or product for the fact the difference of the fact the fact that the fact the fact the fact the fact the fact the fact the fact the fact th
	Cloud Storage Settings
Information	Dropbox : Not logged in
Network	(Notice : to login to dropbox, the computer need to connect to Internet)
Video	O Always Recording O Schedule Recording O Disable Recording
Schedule	\bigcirc Keep recorded video for $\overline{7}$ days (Circular recording)
Email/ftp Alarm	If free disk less than 200 MB (Minimum 200MB) Stop recording
NAS Settings	
Cloud Storage	Save & Apply
SD-Card	
Scheduling	
Admin	
anguage: English 🗸	

Figure 3-13: Cloud Storage Settings page



Figure 3-14: Cloud Storage logged in page

3.10. SD-Card settings

The IP camera provides the recording of the video files into a standard Micro SD-Card. Since this recording is directly to the SD-Card, there is no network packets loss problem when recording to remote device through internet.

Notice : The resolution and frame rate of the recorded video is the same as that set for the video settings.

- If the "Always Recording" is selected, the system will start to record to the SD-Card immediately and keep recording always. If the "Schedule Recording" is selected, the system will do the SD-Card recording according to the "scheduling" in section 3.12. "Disable Recording" will disable this SD-Card recording.
- When doing the SD-Card recording, the system will check the free disk space of the SD-Card. If the disk space is full (no free disk space), the system will do "Circular recording" (overwrite the oldest recorded files in the SD-Card) or "Stop recording" as selected.
- 3. SD-Card status the SD-Card inserted or removed status is displayed here.
- 4. SD-Card files as shown in fig.3-14, all the recorded video files with information including file name and recorded time are listed in this page under the directory of each date. The recorded file could be separately downloaded or deleted on this page.
- 5. Format SD Card this is to format the SD card, all data on the SD card will be erased.



Figure 3-15: SD-Card Settings page

IP Camera		the country to push the lensts this is the condensation that leads to lead allocan the work! of automation empression to expand and condition, within and posteriors	ng saturus, ng, atu z -	
-	SD-Card Information			
Information	Capacity/Used/Available	30431 MB / 3	0197 MB / 234 N	AB (1 %)
Network	🖳 SD-Card Record Files			
Video	 □ 20160727 □ 20160711 			
Schedule	 □ 20160713 □ 20160712 			
Email/ftp Alarm	184218.crf	Download	Delete	18:42:18
Speaker Alarm	184714.crf	Download	Delete	18:47:14
	185215.crf	Download	Delete	18:52:15
NAS Settings	185716.crf 190218.crf	Download Download	Delete Delete	18:57:16 19:02:18
Cloud Storage	190218.cff	Download	Delete	19:02:18
SD-Card	191221.crf	Download	Delete	19:12:21
	191721.crf	Download	Delete	19:17:21
Scheduling	192223.crf	Download	Delete	19:22:23
Admin	192724.crf	Download	Delete	19:27:24
Aunin	193226.crf	Download	Delete	19:32:26
anguage: English 🗸	193727.crf	Download	Delete	19:37:27
	194229.crf	Download	Delete	19:42:29
	194730.crf	Download	Delete	19:47:30
	<			>

Figure 3-16: SD-Card information page

3.11. Scheduling

The IP camera provides the scheduling function for the motion detection triggered email/ftp sending and/or the NAS recording with the individual parameters set in the . "Email/ftp alarm" settings and the "NAS settings" page. Totally 12 schedule list items are allowed. There is no conflict check for the scheduling, it means that the scheduling time could be overlapped, and the IP camera will do all the scheduled events during the overlapped time period. For the scheduling of the Email/ftp sending and/or NAS recording, the "Schedule" option must enabled in the "Email/ftp alarm" settings and/or the "NAS settings".

- 1. Schedule list all the scheduling are listed in this area. Each listed item can be modified or deleted by pressing the "Edit" or "Delete" button.
- Email/ftp Alarm for each scheduling, if this is selected and the "Motion triggered" is enabled, the IP camera will trigger the email/ftp sending in the scheduled time period when the video motion is detected.
- 3. NAS/cloud Record for each scheduling, if this is selected, either "Continuous" or "Motion triggered" could be enabled. For "Continuous", it means that the IP camera will do the video recording to the NAS/cloud device during the whole scheduled period. For "Motion triggered", it means that the IP camera will do the video recording to the NAS/cloud device for 30 seconds during the scheduled period each time when the video motion is detected. There is a five seconds pre-recording of the triggered recording to keep the critical moment recorded.
- 4. SD-Card Record for each scheduling, if this is selected, either "Continuous" or "Motion triggered" could be enabled. For "Continuous", it means that the IP camera will do the video recording to the SD-Card during the whole scheduled period. For "Motion triggered", it means that the IP camera will do the video recording to the SD-Card for 30 seconds during the scheduled period each time when the video motion is detected. There is a five seconds pre-recording of the triggered recording to keep the critical moment recorded.
- 5. For the scheduling period, can choose between "Every week", "Every day" or "Fixed time" :
 - A. For "Every week", can choose week days of the week and set the time duration of each day.
 - B. For "Every day", can set the time duration of every day for the scheduling.
 - C. For "Fixed time", can set the starting date/time and the end date/time of the scheduling period.

	Schedule Management	
Information	Email/ftp Alarm	Email/ftp schedule not enabled
Network	□NAS/Cloud Record	O Continuous O Motion triggered
Video	SD-Card Record	SD Card schedule not enabled
Schedule	○ Every week ○ Every day	SunMonTueWedThuFriSatDuring time $00 \checkmark$: $00 \checkmark$ ~ $00 \checkmark$: $00 \checkmark$
Email/ftp Alarm	• Fixed time	Start time : 2017 v / 07 v / 31 v 11 v : 00 v End time : 2017 v / 07 v / 31 v 11 v : 45 v
Cloud Storage	O Always	
SD-Card		Add Schedule
Admin		

Figure 3-17: Schedule management page

3.12. Led Display Control

The IP CAM provides the Led Display Control function, you can enable or disable the led display/indication on the front panel of the IP cam device. The related settings are explained below:

- 1. Normal led display select this to enable the status led and ethernet led display.
- Turn off led display always select this to disable the status led and ethernet led display.
- 3. Turn off led display after network connected select this then the led will display when the Internet connection has some problem, the led display will be off when the Internet connection is successful.

IP Camera	Seeing the video from anywhere New York and the video from anywhere Management anywhere Ma
Information	LED Control
Network	 Normal led display Turn off led display always
Video	○ Turn off led display after network connected
Schedule	Save & Apply
Admin	
Admin login	
LED Control	
Upgrade	
▶ reboot	
language: English 💌	

Figure 3-18: Led Control settings page

3.13. Date/Time

The IP CAM can synchronize the date/time with the universally available time server(for example stdtime.gov.tw) through NTP protocol. The date/time will then be corrected with the time server anytime when the Internet is connected.

Users can choose the different TimeZone of their areas to display the correct time. For some TimeZone areas, the "Daylight Saving Time" could be enabled or disabled. When the "Daylight Saving Time" is enabled, the start and stop time of the Daylight Saving Time could be edited.

The camera has an internal real time clock that can maintain the date/time even when the camera is not connected to internet.

IP Camera	Sec	eing the video from anywhere
	At a the world of Advantum programmers	
Information	NTP Server	time.windows.com
Network	Time Zone	(GMT+01:00) France, Germany, Italy
Video		• Enable C Disable
Schedule	Daylight Saving Time	Start time : Last V Sunday V in March V End time : Last V Sunday V in October V
Admin	Current Time	2013/01/01 16:49:09
Admin login	System Up Time	0 days 0 hours 4 mins 45 secs
LED Control		Save & Apply
Date/Time		
Upgrade		
reboot		
language: English 💌		

Figure 3-19: System date/time settings page

3.14. Admin

In this page, you can modify the web login account. With this account, you can login to the IP CAM and do any modifications. The default account is "admin" without password. If the login account is forgotten, you can reset the IP CAM to the factory default settings by following the steps in section 3.19 and login with the "admin" account.

Please be noticed that this account is different from the video play password in the "Video settings" page.

IP Camera	See	eing the video from anywhere
		Web Access & Password Settings
Information	Web access port	80
Network	Username	admin
Video	Password	
Schedule	Password confirm	
Admin		Save & Apply
Admin login		
LED Control		
Date/Time		
Upgrade		
▶ reboot		
nguage: English 💌		

Figure 3-20: Admin settings page

3.15. Upgrade

If there is some new firmware available from the supplier of this IP CAM, you can upgrade the firmware on this page. Please ask for the correct information about FTP server, username/password account and firmware filename from your supplier, and then do this upgrade. A status message about the percentage done in the upgrade procedure is displayed. Please be noticed that during the upgrade procedure, do not power off the IP CAM. After the upgrade procedure is finished, the system will restart automatically.

You can upgrade from the ftp server or from the local file in your computer. During this upgrade procedure, do not try to modify other settings or view the video.

IP Camera	Secing the	e video from anywhere Mereta anywhere
Information	• Upgrade from FTP server C U	Firmware upgrade pgrade file
 Network Video 	FTP Server Username	10.0.0.62
Schedule	Password	•••••
Admin Admin login	Firmware filename Firmware location	IC737w-gen-030402-n.f 演覧
 LED Control Date/Time Upgrade reboot language: English 		Upgrade

Figure 3-21: Firmware upgrade settings page

IP Camera	Seeing the video from anywhere
Information	Firmware upgrade status
Network	
Video	Status downloading : 90 %
Schedule	Do not power off the device The device will restart after upgrade automatically.
Admin	
Admin login	
LED Control	
Date/Time	
Dpgrade	
▶ reboot	
language: English 💌	

Figure 3-22: Firmware upgrade status page

3.16. Reboot

You can restart the IP CAM manually on this page. All the connected video viewing users will be disconnected.

IP Camera	Seeing the video from anywhere New York and the video from anywhere
Information	System Reboot
	This will restart the device !
Network	
Video	reboot
Schedule	
Admin	
Admin login	
LED Control	
Date/Time	
Upgrade	
reboot	
language: English	

Figure 3-23: System reboot settings page

IP Camera	Seeing the video from anywhere	
 Information Network Video 	Rebooting Please wait	
 Schedule Admin Admin login LED Control 		
 Date/Time Upgrade reboot language: English 		

Figure 3-24: System reboot under-going page

3.17. Set to factory default

For some reason, for example you forgot the web login password, you may want to set the IP CAM to the factory default settings. The only thing you need to do is using a stick to press the "reset" button on the back of the IP CAM body for more than 4 **seconds** and release it, do this when the IP CAM is powered on. The IP CAM will reset to the factory default settings and restart automatically.

The web login account will be "admin" (no password), the play-video password will be "ipcam" after reset to factory default.

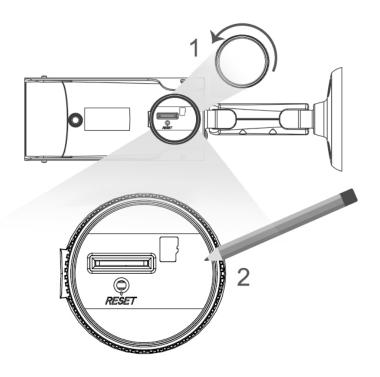


Figure 3-25: Stick on the reset button to set to the factory default

4. Features and specifications

4.1. Features

- > Two mega pixel (Full HD) for up to 1920x1080 resolution at 30 fps.
- > Plug & play by ID/password, no IP address or DNS settings.
- IP66 rated housing
- H.264 video compression
- > Day and night video with high power IR led.
- > Power through Ethernet cable for up to 50 meters.
- > SD card video recording with 5 seconds of pre-recording..
- Time lapse video recording
- > Triple video streaming on PC, mobile and SD card recording.
- > Night mode control support automatic, manual and scheduled modes.
- > Connect up to 8 users simultaneously
- > Bundle with free video management software CamView/mCamView2.
- > Push notification on iPhone/iPad and Android for motion and sound detection.
- > Email/ftp alarm message for motion and sound detection.
- Event scheduling.
- > Video recording on NAS device.
- Cloud Storage on Dropbox.
- Internal real time clock
- > Watchdog function to prevent system failure.

4.2. Specifications

Models	Outdoor FHD IP Camera
Power	DC 20/24V, 0.6A
Processors Network interface	RISC CPU, hardware video processing and compression. Ethernet 10BaseT/100BaseTX, Auto-MDIX, RJ-45
Housing Image sensor Light sensitivity	 IP66 rated RGB Two Mega 1/2.7 inch CMOS Day and night separate sensors Automatic exposure control, automatic white balance, automatic gain control, automatic brightness control. 0.2 Lux (IR LED off) 0 Lux (with 10 meters IR LED on) Automatically turn on the IR LED on low light environment.
IR LED	2 high power IR LED.
Lens	M12, 2.8 mm, F2.0, viewing angle- horizontal:120°, fixed iris. focus range: 50 cm to infinity
Buttons	One reset button, to factory default settings
Indicators	One LED for Internet connection status indication One LED for Ethernet connection indication One LED for SD card recording indication
Video compression	H.264, high profile
Video streaming	Separate frame rate/resolution/bandwidth settings for PC and mobile.
Video settings	Resolution: (Full HD)1920x1080, 1280x720, 640x360 Bandwidth : 64k, 128k, 256k, 512k, 768k, 1M, 1.2M, 1.5M, 2M, 3M bps Frame rate : 1~5, 10, 15, 20, 25, 30 fps
Audio	Built-in microphone for audio monitoring Audio compression: G.711
Security	Web management username/password protection Video display ID/password protection
Installation,	Plug & play by ID/password.
management and maintenance	Video management software-CamView for video access and multi-camera management

Firmware upgrades via FTP

Web browsing	Built-in web server for standard web browser access Video display on IE browser Video snapshot on any browser
Supported protocols	IPv4, HTTP, TCP, ICMP, RTSP, RTP, UDP, RTCP,
	SMTP, SNTP, FTP, DHCP, ARP, DNS, PPPoE, etc.
Accessories (included)	Power adaptor, RJ45 Ethernet cable, cable splitter, quick installation guide, CD with installation software and User's Manual, ID/Password card.
Video management	Surveillance software for viewing and archiving up to 36
software	cameras
Users	Up to 8 simultaneous unicast users
	(depends on video settings)
Alarm and event	Events triggered by motion and sound detection
management	Email/ftp alarm message
	Push notification on iPhone/iPad and Android devices.
Dimensions (HxWxD)	52 x 58 x 213 mm,
and weight	368 g, incl. camera bracket, excl. power adaptor
Operating temperature	Starting Temperature: -20° C ~ 50° C (-4° F~ 122° F)
	Working Temperature: -30° C ~ 50° C (-22° F ~ 122° F)

5. Package contents



Figure 5-1: The IP Camera



Figure 5-3: Quick Installation Guide

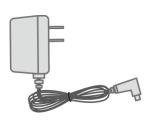


Figure 5-2: Power Adaptor

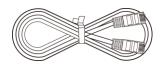


Figure 5-4: Ethernet Cable



Figure 5-5: Installation CD



Figure 5-7: Splitter Cable



Figure 5-6: ID/Password Card



Figure 5-8: RJ45 Coupler

Appendix A. Remote Viewing through NAT/router

Devices

Almost all the NAT/router devices in the market can work with the IP CAM and CamView software when viewing in a remote location. You do not need to do any modification on the default settings of the NAT/routers. In some office environment, if some strict firewall function is enabled, it's possible that you can not view the IP CAM video through the firewall router. In this situation, please contact your MIS person to solve the problem.

Appendix B. Performance Information

1. Video Performance Information

The video quality is dependent on the video parameter settings and the network quality. If you want to have a better video quality, you will usually set higher resolution and higher frame rate. This is fine when you are viewing the video locally in the same network. But when you want to see the video remotely through the Internet, you need to know the Internet speed (bandwidth) connected to your home network. If the "Internet speed" setting of your IP camera is very large, but your real Internet speed (bandwidth) is relatively low, the video quality could be very bad. In some worst case, the video display could be disconnected. In order to have the best video quality, you better have broadband service from your ISP and set the "Internet speed" of the IP camera a little lower than the real Internet speed provided by your ISP.

Also need to notice that when multiple users are displaying the videos from the same IP camera at the same time, the video bandwidth times number of users will be needed for the Internet speed.

3. Motion detection Performance Information

The motion detection is based on the video change of the camera, any video change including moving objects(car, human, pet, door, leaves) and even light change (turn on/off light or light change in the morning/evening) could trigger the detection. The sensitivity of the motion detection is based on the size of the moving objects, more sensitive means the detection of smaller objects.

Appendix C. Trouble shooting

1. What's going on when the red led light on the IP camera is flashing?

A: When the IP Cam is connected to the Internet and working correctly, the red led light will be on constantly. If the red led light is flashing, it's probably because there is some network connecting problem. Please check the network connection again and follow the instructions on the user manual to set it up again.

2. Could I adjust the effective focus of the IP Cam?

A: The effective focus of the IP Cam is from 50cm to infinity, so, in almost all circumstances you can see the video clearly. There is no need to adjust the effective focus.

3. What's the viewing angle of the IP Cam?

A: The viewing angle of the IP Cam is about 120 degrees.

4. What's the longest distance using the IP Cam to see the video?

- A: When using the IP Cam to see a long-distance object, whether it's clear or not depends on the size of the object. Usually when your eyes can see something clearly in that distance, the IP Cam can also see that object clearly in about the same distance.
- 5. What should I do if the password is forgotten, and the ID/password card is missing?
- A: The easiest way to solve this problem is to reset the IP Cam to the factory default. Please stick on the reset button on the rear panel of the IP Cam for more than 3 seconds and release it. The IP Cam will then restart to the factory default. The default administrator account is "admin", administrator password is empty. The default video-play password is "ipcam". You can adjust these account and passwords by using the browser to login into the IP Cam and do the needed modifications.

6. What should I do if I can not hear the audio sound from the IP Cam?

- A: There is a microphone inside the IP Cam. If you can see the video from the accompanied CamView software, but can not hear the audio sound, please check the followings:
 - (1). Check if the speaker of the computer is turned on, you can try to play an audio file on the computer to verify this.
 - (2). Check if the microphone on the IP Cam is enabled. Please login into the web configuration page of the IP Cam or open the "video settings" from CamView, select the "video" settings, click the "Enable audio microphone" choice.
- 7. I can see the video in a remote place, but the video quality is not good and sometimes the video will disconnect and then the video will reconnect again by itself.
- A: It's probably because the internet bandwidth (internet speed) is not big enough. Please try to apply for a better internet connection from your Internet Service Provider or decrease the bandwidth settings of the IP Cam. You can adjust the bandwidth requirement of the IP Cam either from the CamView software or login into the web configuration page of the IP Cam to do the modification.

8. Does the IP Cam provide the recording function?

A: You can do the recording of the video/audio of the IP Cam from the CamView. Another software CamPlay is needed to play the recorded vide/audio files. The camera could also do recording on Micro-SD card and NAS devices.

- 9. The video seems a little dark when the IP Cam is used inside the house, how could I improve this?
- A: You can increase the "Low light sensitivity" in the "video settings" page either through web configuration or through CamView settings to "High" or "Very high". This will tremendously improve the video quality in dark environment.
- 10. Can I connect the IP camera directly to my PC/notebook with an Ethernet cable?
- A: If the IP camera is directly connected to your PC/notebook computer using an Ethernet cable, the IP camera will automatically use an IP address called "auto IP" with IP address 169.254.xxx.xxx. If your PC/notebook computer is configured to DHCP, it will also use an "auto IP" address. But this will take about one minute after the IP camera is connected to the computer and you need to make sure that the WiFi interface on your PC/notebook computer is disabled. After about one minute, you can run the CamView software to access the IP camera, the CAM ID should be displayed on the "auto-search" list. You can then see the video by double clicking the CAM ID icon. But you need to know that in this situation, other local or remote computer can not see the video.

Appendix D. Snapshot picture on any browser

If you want to have the live snapshot picture on any browser, use the URL http://ip_address/snapshot.cgi to access the snapshot of the camera. The ip_address is the IP address of the camera. This works for all the browsers on computer or mobile device. The only limitation is that the computer or mobile device needs to be on the same network as the camera or the camera has public IP address. This is only for some special case usage, not recommended for general users.