ALL2205 User Manual



ALL2205 User Manual



Contents

CHAPTER 1. SAFETY INSTRUCTION	1
CHAPTER 2. MINIMUM SYSTEM REQUIREMENT & PRODUCT FEATURE	
	2
2.2 PRODUCT FEATURES	
	=
CHAPTER 3. USING IP CAMERA VIA WED BROWSER	
3.1 WINDOWS WEB BROWSER	5
3.2 MAC WEB BROWSER	6
CHAPTER 4. SETTING UP WIRELESS CONFIGURATION	8
CHAPTER 5. OPERATING IP CAMERA VIA MOBILE PHONE	
	10
5.2 USING IP CAMERA VIA IPHONE	
CHAPTER 6. MSN MESSENGER	
CHAPTER 7. CONFIGURATION OF MAIN MENU	15
Full screen	
Snapshot	
7.1 Live View	16
computer computer	
7.2 SETTING	
7.3 CLIENT SETTING	
7.4 IMAGE SETUP	
CHAPTER 8. SETTING-BASIC	
8.1 System	
8.1.1 Information	
8.1.2 Date / Time	
8.1.3 Initialize	
8.1.4 Language	
8.2 1 General	
8 2 2 H 264	20
8.2.3 MPEG-4	
8.2.4 MJPEG	
8.2.5 3GPP	
8.2.6 Advanced	
8.2.7 PLAYBACK	
8.3 NETWORK	
0.3.1 IIII01111811011 8 3 2 DDDoE	
8.3.3 DDNS (Dvnamic DNS)	
8.3.4 UPnP (Universal Plug and Play)	
8.3.5 Bonjour	
8.3.6 IP Notification	
8.3.7 Wireless	
8.3.8 Messenger	
8.4 SECURITY	
0.4.1 ACCOUTT	
8.4.3 IP Filter	
CHAPTER 9. SETTING-ADVANCED	
9.1 FTP CLIENT	
9.1.1 General	
9.1.2 Alarm Sending	
j	

9.1.3 Periodical Sending	
9.2 SMTP	
9.2.1 General	
9.2.2 Alarm Sending	
9.2.3 Periodical Sending	
9.3 NETWORK STORAGE	
9.3.1 General	
9.3.2 Alarm Sending	
9.3.3 Periodical recording	
9.4 HTTP Event	67
9.4.1 General	
9.4.2 Alarm Sending	
9.5 SCHEDULE	
9.6 ALARM BUFFER	
9.7 MOTION DETECTION	
9.8 AUDIO DETECTION	
9.9 System Log	
CHAPTER 10. APPENDIX	
A FRAME-RATE AND RITRATE TABLE – HELP TO SET IPC AMERA WITH YOUR NETWORK ENVI	IBONMENT TO ACCESS
	76
A 1 CMOS Mega Model	,
A 2 VGA Model	70
B STORAGE REQUIREMENT TABLE - HELP TO SET RECORDING STORAGE SYSTEM	
B 1 Mega Model	
B 2 VGA Model	
C. SYSTEM REQUIREMENT - HELP TO SETUP SYSTEM	
C.1. 16 Channel IP Camera with CIF Performance	85
C.2. 16 Channel IP Camera with D1 Performance	
GLOSSABY OF TERMS	
FC – DECLARATION OF CONFORMITY	90

Chapter 1. Safety Instruction

> Before you use this product

This product has been designed with safety in mind. However, the electrical products can cause fires which may lead to serious body injury if not used properly. To avoid such accidents, be sure to heed the following.

Legal Caution

Video and audio surveillance can be forbidden by laws that vary from country to country. Check the laws in your local region before using this product for surveillance purposes.

> Don't open the housing of the product

Don't try to open the housing or remove the covers which may expose yourself to dangerous voltage or other hazards.

> Don't use the accessories not recommend by the manufacturer

Heed the safety precautions

Be sure to follow the general safety precautions and the "Operation Notice."

Operation Notice - Operating or storage location

Avoid operating or storing the camera in the following locations:

- Extremely hot or cold places (Operating temperature: 0 ℃ to + 50 ℃ [32 ℉ to 122 ℉])
- Exposed to direct sunlight for a long time, or close to heating equipment (e.g., near heaters)
- Close to water (e.g. near a bathtub, kitchen sink, laundry tub)
- Close to sources of strong magnetism
- Close to sources of powerful electromagnetic radiation, such as radios or TV transmitters
- Locations subject to strong vibration or shock

In case of a breakdown

In case of system breakdown, discontinue use and contact your authorized dealer.

In case of abnormal operation

- If the unit emits smoke or an unusual smell,
- If water or other foreign objects enter the cabinet, or
- If you drop the unit or damage the cabinet:1 Disconnect the cable and the connecting cables. 2 Contact your authorized dealer or the store where you purchased the product.

Transportation

When transporting the camera, repack it as originally packed at the factory or in materials of equal quality.

Ventilation

To prevent heat buildup, do not block air circulation around the device.

> Cleaning

• Use a soft, dry cloth to clean the external surfaces of the device. Stubborn stains can be removed using a soft cloth dampened with a small quantity of detergent solution, then wipe dry.

• Do not use volatile solvents such as alcohol, benzene or thinners as they may damage the surface.

Chapter 2. Minimum System Requirement & Product Feature

2.1 System Requirement

For normal operation and viewing of the network camera, it's recommended that your system meet these minimum requirements for proper operation:

Item	Requirements
CPU	Pentium 4 with 2.8GHz (or equivalent AMD)
Graphic Card	258 MB RAM graphic cards (or equivalent on-board graphic cards)
RAM	1 GB
Operating System	Windows 2000, Windows 2003, Windows XP, Windows Vista, Windows 7, and Mac OS X Leopard
Web Browser	Internet Explorer 6 or later

Note: Please keep updating the latest Windows software and service package. (Ex: Net Framework, Windows Media Player, Enhance ActiveX Security)

2.2 Product Features

These easy-to-follow instructions make setup and operation quick and simple, so you'll also soon be enjoying the benefits of these product features:

SYSTEM			
Resolutions	H.264 / MPEG-4 / Motion JPEG: 4 resolutions from 1280x1024 to 320x240 via API and		
configuration web page			
Screen Resolution	Higher than 1024 * 720 pixels		
Compressing format	H.264 / MPEG-4 / Motion JPEG		
Frame Rate	Up to 15 fps at 1280x1024 Up to 30 fps at 640x480		
	Rotation: Mirror, Flip, Mirror Flip		
Image settings	Brightness / Contrast / Saturation / Sharpness		
	Overlay capabilities: time, date, text and privacy image		
Image snapshot	Yes		
Video Recording	Yes		
Full Screen Viewing	Yes		
Digital Zoom	10x digital		
Audio	Two-way (full / half duplex) with built-in microphone		
Audio	Audio compression: G.711 µ law, a law, and AMR		
Instant Messenger	Support MSN Live View		
Mobile Phone Live View	Through 2.5 WAP, 3GPP, 3G Streaming, and 3G Browser		
Alarm Sending	FTP Client / SMTP / Network Storage / HTTP Event		
Security	Password Protection / HTTPS encryption / IP Filter		
Alarm Buffer	Recording image and audio file pre-and-post disconnection up to 5 sec.		
Supported protocols	Bonjour, TCP/IP, DHCP, PPPoE, ARP, ICMP, FTP, SMTP, DNS, NTP, UPnP, RTSP, RTP, HTTP, TCP, UDP, 3GPP/ISMA RTSP		
Simultaneous Connection	Up to 10 users		
Operating conditions	0 °C ~ 50 °C (32°F ~ 122 °F)		
	HARDWARE		
Lens	F1.8, 4.2mm Megapixel board lens		
IR LEDs	5 φ IR LEDs x 6		
IR working distance	5 M		
I / O	1 in / 1 out		
Audio Output	1		
Power	12V DC, 1A, Max 5W		
NETWORK			
Wireless	IEEE 802.11b/g		

Chapter 3. Using IP Camera via Web Browser

3.1 Windows Web Browser

1. Open your web browser, and enter the IP address or host name of the IP camera in the Location / Address field of your browser.

Note : If you only want to view the video without accessing Setting screen, enter "http://<IP>/index2.htm" as your web URL.

2. Use the default account "admin" and default password "admin".

Note : The default user name "admin" and the password are set at the factory for the administrator. You can change them in the Account Menu. (Please check "Setting \rightarrow Basic \rightarrow Security \rightarrow Account")

Connect to 10.0.0.56	? 🛛
	E S
User name:	member my password

3. The monitor image will be displayed in your browser. In the far left side of main configuration are Setting, Client Setting, and Image Setup. For more details, you can check Chapter 7.2、Chapter 7.3、Chapter 7.4 and Chapter 7.5.



3.2 Mac Web Browser

1. Click the Safari icon, and enter the IP address of the IP camera in the Location / Address field of your browser.

Note : If you only want to view the video without Setting screen "http://<IP>/index2.htm" as your web URL.



2. Enter the default account "admin" and default password "admin".

Note : The default user name "admin" and the password are set at the factory for the administrator. You can change them in the Account Menu (Please check "Setting \rightarrow Basic \rightarrow Security \rightarrow Account")



3. The monitor image will be displayed in your browser. In the far left side of main configuration are Setting, Client Setting, and Image Setup. For more details, you can check Chapter 7.2, Chapter 7.3, Chapter 7.4 and Chapter 7.5.



Chapter 4. Setting up Wireless Configuration

The wireless network has to be set up by using cable network connection. After setting the camera correctly, the wireless function can work without cable network connection. Please follow the setting process below step by step:

1. Connect IP Camera with Ethernet connection.

2. Go to "Setting \rightarrow Basic \rightarrow Network \rightarrow Wireless," choose option "On". You will see the wireless Setting screen.

ALLNET'	ALL2205	Megapixel Fixed	Wireless IP Came	ra
🗐 Home				
SETTING	Wireless			
S BASIC	🗆 Wireless 💿 On 🔘 Off			
🅑 System				
🍉 Camera		327. 10		
Network	ESSID Mode	Status	of wireless networks Channel Signal strengt	h Bitrate
Information	bridgewb AdHoc	WPANONE/TKIP	3 57	O
PPPoE	FRITZ!Box FManaged	WPA(2)-PSK/TKIP, AES	1 59 13 93	0
DDNS	ALL02762 Managed	WPA(2)-PSK/TKIP, AES	6 100	0
LIPnP	97061Gh000639 hanaged	Open/Nosecurity	11 61	
Boniour	MAC address	00-18-EE-00-EC-E1		(
IP Notification		00.10.1 E.00.E0.1 1		
IP Notification		ALL02762	Manual setting	
wireless	□ Mode	Managed ()	Ad-Hoc	
Messenger	Authentication	WPA2-PSK V	Addition	
Security	Encryption			
Advanced	Passphrase	******		
	Re-type			
		(64 HEX chars o	r 8 to 63 ASCII chars)	
	 Obtain an IP address 	automatically (DHCP)		
	 Use the following IP a 	address		

- 3. Then click <u>"Refresh".</u> All access points (AP) around you will show up.
- 4. Select the AP you wish to connect.
- 5. Enter password at active transmit key if you need. If you don't know the setting of

the wireless AP, please ask your network administrator.

6. Choose the option of <u>Obtain an IP address automatically (DHCP)</u> and <u>Obtain DNS</u> server address automatically.

PPPoE	Obtain an IP address automatically (DHCP)
DDNS	○ Use the following IP address
UPnP	
Bonjour	
IP Notification	
Wireless	
Messenger	Obtain DNS server address automatically
Security	 Use the following DNS conver address
Advance	O use the following Divis server address

7. Otherwise, Choose <u>Use the following IP address</u> and <u>Use the following DNS sever</u> <u>address</u>.

> Use the following IP address: Select this when the fixed IP address is set.

- •IP address: Enter the IP address of the device.
- •Subnet mask: Enter the subnet mask.
- •Default gateway: Enter the default gateway.

> Use the following DNS server address: Select this when you set the fixed

address as the IP address of DNS server.

- Primary DNS server: Enter the IP address of the primary DNS server.
- •Secondary DNS server: Enter the IP address of the secondary DNS server, if necessary.

	UPnP	IP address	10 . 0 . 0 . 71
	IP Notification	Subnet mask	255 . 255 . 255 . 0
	Wireless	Default gateway	10 . 0 . 0 . 1
	Messenger		
Adv	ecurity	● Use the following DNS server ad	dress
JAdv	anoe	Primary DNS server	000
		Secondary DNS server	000

Chapter 5. Operating IP Camera via Mobile Phone

5.1 Mobile Phone Viewing

5.1.1 3G Mobile Phone Streaming Viewing

For 3G mobile phone viewing, type "**rtsp:**//**<IP>:<PORT>/video.3gp** " into your 3G Streaming Link. **<IP>** is the Public IP address of your IP camera; **<PORT>** is the RTSP port of your IP camera (Default value is 554.) Example: rtsp://100.10.10.1:554/video.3gp

Note: You can also use RTSP clients (RealPlayer, VLC, QuickTime Player...etc.) to view RTSP streaming, just type in "rtsp://<IP>:<PORT>/video.3gp" as the Player URL

5.1.2 2.5G Mobile Phone WAP Viewing

For 2.5G mobile phone viewing, type "http://<IP>/mobile.wml" into your 2.5G WAP Browser. <IP> is the Public IP address of your IP camera.

5.1.3 2.5G Mobile Phone Browser Viewing

For 2.5G mobile phone viewing, type "http://<IP>/mobile.wml " into your 2.5G Web Browser. <IP> is the Public IP address of your IP camera.

5.2 Using IP Camera via iPhone

You can use ALLNET Web User Interface via iPhone. Please follow the setting process below.

Then you can use ALLNET Web UI via iPhone.

1. Select Safari function



3. Type name and password. Default value is **admin / admin.** Then click Login In



2. Type IP address in your web link.



4. The ALLNET User Interface and live image will show up in the middle of screen.



Note: The image is continuous snapshots, not video. Thus, live image can't be recorded here.

Chapter 6. MSN Messenger

Please follow the following steps to set up the Messenger function.

1. Download free MSN software and create a **new MSN account** (**Camera at home**) for Microsoft Live Messenger.

2. Go to "Setting \rightarrow Basic \rightarrow Network \rightarrow Messenger," set the Messenger to "ON". Then, login in new account and password (Camera at home).

SETTING	🗏 Messenger 📀 On	○ Off
S BASIC	Protocol	msn
🍉 System		camera at home@hotmail.com
🕑 Camera	Login Account	camera at nome@notmail.com
Network	Password	• • • • • • • • •
Information	Re-type password	•••••
PPPoE	Alias	
DDNS	Port range	20000 (1024 ~ 65524) ~ 21000 (1028 ~ 65525)
UPnP	Fortrange	2000 (1024 ~ 65551) ~ 21000 (1026 ~ 65555)
Bonjour	Video mode	○ Computer view ④ Mobile view
IP Notification	IP Notification	On ○ Off
Messenger	Privacy	On ○ Off
Security	User	r5400@msn.com
Advance		Add Remove
		r5400@msn.com
	Allow list	

3. If your router has firewall function, you have to set the **Port Range** on this setting page in accordance with the one of firewall.

4. Choose the **Video Mode**, decide the live view image of messenger received from Computer View (MPEG-4) or Mobile View (3GPP).

5. Choose "On" at the option of **IP Notification.** If this feature switches **On**, camera will send IP notification to the users who are allowed.

6. Choose "On" at the option of <u>**Privacy.**</u> If you can choose "On" at the privacy option, you can set an allow list.

7. Use your account to login in the Messenger software. Then, add the new MSN account (**Camera at home**)

8. The Camera at home will show up with its Public IP and Private IP if the option of IP Notification is "On". (You can enter "Ping" to show up with Public IP and Private IP.)

9. Click on the small **camera icon** Then, choose "View a new contact's webcam".



10. The IP Camera will accept your invitation; the live video will show up in the right screen after few seconds.



11. Click **Action** button and choose **Start Control Panel** to use control panel.



12. The dialog box will show up with "This application is not part if Window Live Message......" Tick the box of "Don't show me this again" and click OK.

13. The IP Camera will accept your invitation to start **Control Panel.**





to

14. You can click **Camera icon to snapshot** then the picture will send to you immediately.



15. You can click **paint palette icon** showing up with tool bar to set up image. Then, you can use the tool bar to optimize





Chapter 7. Configuration of Main Menu

In the left side of main configuration are Setting, Client setting, Image setting. For more details, please check Chapter 7.2, Chapter 7.3, Chapter 7.4, Chapter 7.5.

In the right side, you can control Live View in your main Browser. The functions include Snapshot, Open digital zoom, Audio, and Video Play.



7.1 Live View

7.1.1 Snapshot

You can capture a still image shot by clicking the camera icon and save it in the operating computer.

Symbols	Meaning		
۷	a snapshot window appears after clicking the icon		
Save	save the picture captured by snapshot into your computer		
Close	Return to the view screen		
	full screen		

7.1.2 Digital zoom in / out the image via the monitor window



- Click 🔍 to display the digital zoom in window.
- Pull the W to adjust the digital zoom range, and it will be showed on the above window.
- Use the left click of your mouse to move

to anywhere in the window area.

7.1.3 Video play buttons

Symbols	Meaning
	Pause the current video
	Play the video
	Stop the current video
۲	Record the current
	video

Note: Concerning the recording storage requirement of your hard disk, please refer to the CHAPTER 10. APPENDIX / B. Storage Requirement Table.

7.1.4 Audio buttons

Symbols	Meaning	Note
٩	Speakers turned on	mean the speakers of your computer are turned on to transmit the sounds from the connected IP camera(s)
Z	Speakers turned off	mean the speakers of your computer are turned off to transmit the sounds from the connected IP camera(s)
	Mute off	mean you can broadcast to the connected IP camera(s) via the Ethernet using your microphone
X	Mute on	mean you can't broadcast to the connected IP camera(s) via the Ethernet using your microphone
	Volume control bar	mean you can adjust the sound volume by the control bar

7.2 Setting

This function is only for the Administrator. Click "Setting" on the home page of web user interface to get into the **Basic** and **Advanced Settings** menu.

🕲 номе	
SETTING BASIC Advanced	
	Welcome to Camera Settings Page

Click **Basic** folder, there are sub-folders including System, Camera, Network, and Security. For more information, you can see Chapter 8.1、Chapter 8.2、Chapter 8.3 and Chapter 8.4.

Click **Advanced** folder, there are sub-folders including FTP Client, SMTP, Network storage, HTTP event, Schedule, Alarm buffer, Motion Detection, Audio Detection, and System Log. For more information, please see Chapter 9.

7.3 Client Setting

This function is only for the client. Click this button to control **Mode**, **View Size**, **Protocol**, and **Video Buffer**.



7.3.1 Mode

Click the pull-down box to choose video compression mode of **LIVE VIEW** among H.264, MPEG-4, and MJPEG.

Note: As long as the operating system not able to afford loading under H.264 mode, please downgrade the mode to MPEG-4 or MJPEG.

7.3.2 View Size

Select the desired view size of image resolution among 1/4X, 1/2X and 1X.

7.3.3 Protocol

Select the transferring protocol among TCP, UDP, and HTTP.

7.3.4 Video Buffer

Turn the Video Buffer function On / Off. The Video Buffer function makes the streaming more smoothly in unsteady network environment, but might cause a little delay in live viewing.

7.4 Image Setup

The tool bar can be adjusted to optimize video **Brightness**, **Contrast**, **Saturation** and **Sharpness**.





7.4.1 Brightness

The value range is 0~99. The higher value the brightness is, the brighter the image is.

7.4.2 Contrast

The value range is 0~99. The contrast is a measure of a display system, defined as the ratio of white to black that the system is capable of producing. The higher value the contrast is, the more delicate of color you can have.

7.4.3 Saturation

The value range is 0~99. The saturation of a color is determined by a combination of light intensity and how much it is distributed across the spectrum of different wavelengths. The higher value the saturation is, the more colorful the image will be.

7.4.4 Sharpness

The value range is 0~99. It applies image processing techniques to adjust the sharpness of live view. However, higher the value is, more the noise is.

ALL2205 User Manual

7.4.5 Exposure

The value range is 0~99. Exposure is like the Shutter speed of a SLR Camera. If you go with the Value under 50 (default), the Pictures will be more dark (less light will go through the Sensor). This is depending to your light conditions in your room. You can choose the Exposure, if you set the Exposure mode under "Settings/Basic/Camera/Advanced" to Auto.

7.4.5 Default

After the adjustment of all setting, you can still click Default to make the setting back to the original setting.

Chapter 8. Setting-Basic

Click the **Basic** folder to display the sub folders including **System**, **Camera**, **Network**, **and Security**.

8.1 System

Click the folder of **System** to display the sub-folders including **Information**, **Date** / **Time**, **Initialize**, **and Language**.

8.1.1 Information

The Information screen provides the product factory information which includes **Product Name, Firmware Version.**

🔯 IP CAMERA Setting	*
ALLNET'	ALL2205 Megapixel Fixed Wireless IP Camera
🕏 Home	
SETTING	Information
BASIC	Product name ALL2205 Megapixel Fixed IP Camera
🅑 System	Firmware version MG.1.6.01_sign3 Thu Dec 10 16:33:22 CST 2009
Information	
Date/Time	
Initialize	
Language	
🅑 Camera	
🍉 Network	
🅑 Security	
Advanced	

8.1.2 Date / Time

The Date/ Time screen displays all options of time setting.

D HOME	■ Current date/time	2009-02-11 12:06:00
SETTING	■ PC clock	2009-02-11 12:06:01
S BASIC	■ Date/time format ■ Adjust	yyyy-mm-dd hh:mm:ss v
System		 Synchronize with PC
Date/Time		○ Manual setting
Initialize		2009 - 02 - 11 -
Language		
🅑 Camera		Synchronize with N IP
Network		N IP server name
Security		pool.ntp.org V Auto
Advanced		Interval 1 🖌 hours
-	Time zone	(GMT+08:00)Taipei
	Daylight Saving Time	e ⊙ On ⊜ Off
	Start time	● By date ○ By week number
		January 💙 First 💙 Mon 💙 1 💙 0 💙 : 00 💙
	End time	○ By date
		January 💙 First 💙 Mon 💙 1 🔽 0 💙 : 00 💙
		OK Cancel

- > Current Date / Time: This displays the current date and time of this IP Camera.
- **PC Clock**: This displays the date and time of the monitoring PC clock.
- Date / Time Format: You can click the pull down box to select different time display formats.

Note: If you would like the Date / Time information shows on the Live View screen, please check "Setting \rightarrow Basic \rightarrow Camera \rightarrow General \rightarrow Date / Time " to execute the setting.

- > Adjust: You can select one of those four adjusting modes for your IP Camera.
 - Keep current setting: Select this mode to keep the current date and time of this IP Camera.
 - Synchronize: Select this mode to keep the date and time of this IP Camera is the same as the monitoring PC.
 - Manual setting: Select this mode to adjust manually the date and time of this IP Camera.
 - Synchronize with NTP: Specify the NTP server name and the Refresh Interval to synchronize the date and time of this IP Camera with those of the time server, known as the NTP server.

- Time Zone: Select the Time Zone format of Greenwich Mean Time among different cities. The time display will be the same as the current date / time option.
- Daylight Saving Time: There are two modes to choose for setting up daylight saving time.
 - By Date: Set the start and end time by select month, day, hour, and minute.
 - **By Week Number**: Set the start and end time by select month, week, hour, and minute.

Note: The NTP server (Network Time Protocol) is the time server which is an Internet standard protocol built on the top of TCP / IP. This assures accurate synchronization to the millisecond of computer clock times in a network of computers.

8.1.3 Initialize

🗐 ном	IE	=	Reboot	Reboot	
SETTING	3	=	Factory default	Factory default	
🕑 BAS	SIC	=	Backup setting data	Save	
🔊 s	ystem		Restore setting		Browse OK
	Date/Time	_	Firmware upgrade		
	Initialize	_	rinnware upgrade		Drowse
	Language				
ه 🕑	amera				
D N	letwork				
🕑 s	ecurity				
🕑 Adv	anced				

Reboot: Click this button to reboot this IP Camera. A confirmation dialogue will appear and then click "OK" to execute. It takes one minute to complete the reboot process.

Factory Default: Click this button to recover this IP Camera to the factory default setting. A confirmation dialogue will appear and then click "OK" to execute. The network indicator on this IP Camera will start to blink. This IP Camera will reboot automatically after completing adjustments to the default setting. Don't turn off this IP Camera until the device reboots. **Backup Setting**: You can save the setting data of this IP Camera into a file. Click "Save" and follow the instructions on the browser to save the setting data file to the location you specified.

Restore Setting: Download the saved setting data of this IP Camera. Click "Browse" and select saved file. Click "OK" and this IP Camera is adjusted according to the loaded data and then restarted.

Firmware Update: Update the device software. Click "Browse" and select the file for updating. A confirmation dialogue will appear. Click "OK" to start. This IP Camera will reboot upon completion.

Note: When updating the firmware version, please use the file specific for the model. Otherwise, some problems may occur. Unless the updating completed, please don't turn off the power or disconnect the network.

🗐 номе	Upload language pack Browse OK
SETTING	Language : English
BASIC	
Ӯ System	
Information	
Date/Time	
Initialize	
Language	
🕑 Camera	
🕑 Network	
🍉 Security	
Advanced	

8.1.4 Language

> Upload Language Pack: Clicking "Browse" and selecting the file for updating, the present language display of WEB User Interface could be changed. A confirmation dialogue will appear. Click "OK", then the update will be applied immediately. The default language is "English."

8.2 Camera

Click the folder of **Camera** to display the sub folders including **General**, **H.264**, **MPEG-4**, **MJPEG**, **3GPP**, **and Advanced**.

8.2.1 General

S BASIC	RTSP	RTSP port 💿 554 🔿 (1024 ~ 65535)
🍉 System	E RTP	
🕑 Camera	Unicast streaming	
General		Port range 5000 (1024 ~ 65532) ~ 7999 (1027 ~ 65535)
H.264	Image rotated	None 💌
MPEG4	🔳 Audio Codec	g.711 u-law 💌
MJPEG	🔳 Audio mode	● Full duplex ○ Half duplex
3GPP	Video clip format	H.264 💌
Advance	IR IR	○ On ○ Off ④ Auto
Playback	Threshold	Bright 50 Bright 85 Dark
Network		
Security	Overlay	○ Text overlay ○ Privacy mask ● Off

- RTSP: The default value is 554. If the IP Cameras connected with router and installed outside are over 2 sets and all of them need support RTSP, please fill some value in the blank space in the range from 1024 to 65535.
- RTP Unicast Streaming: The default value of port range is 5000 ~ 7999 and can be changed from 1024 to 65535.

Note: Under Unicast streaming mode, streaming video is delivered from the camera to a single client device.

> Image Rotated: Select the screen display "flip", "mirror", or "flip + mirror."

Audio Codec: Select one audio codec among G.711 U-law / G.711 A-law / AMR Audio / Off.

- •G.711 U-law : one codec for "Computer Audio", used in North America & Japan areas.
- G.711 A-law : another codec for "Computer Audio", used in Europe and the rest of the world.
- •AMR Audio: an audio codec of the third generation communication for MOBIL PHONE. While the option selected, your mobile phone will receive the audio file from IP Camera. And you can choose the bit rate from 4.75k to 12.2k. However, the usage of this codec will cause frame-rate decreasing.

•Off: Select Off, audio file won't be transmitted by IP CAM.

> Audio Mode: You can select Full duplex or Half duplex.

- •Full duplex: Select it for simultaneous communication in both direction between the connected administrator and IP CAM. It means both parties can speak and be heard at the same time.
- •Half duplex: Select it for communication in both directions, but only one direction at a time (not simultaneously). It means one party begins receiving a signal, it must wait for the transmitter to stop transmitting, before replying. Therefore, once one party speak, he can't hear any voice from the other party, just like the communication by radio set.

Video Clip Format: Select RECORDING compression format H.264 or MPEG-4.

- •**MPEG-4:** MPEG-4 has the advantage of sending a lower volume of date per time unit across the network (bit-rate) compared to Motion JPEG and therefore provides a relatively high image quality at a lower bit-rate (bandwidth usage).
- •H.264: H.264 provides higher compression rate than MPEG-4. Thus, H.264 can decrease the bandwidth usage and further apply on 3G. However, H.264 will occupy more system resources than MPEG-4. As long as the operating system appears operating difficulties under H.264 format, please change to select MPEG-4.

> LED Threshold: Select LED light On, Off, Auto, or Alarm.

- •On: Select On will led always work.
- •Off: Select off will disable led.
- •Auto: Select Auto will appear two thresholds, which one is Bright and the other is Dark, and you can adjust the threshold for led Auto-On and Auto-Off respectively. The Bright value higher, the led **auto-off** more easily in the bright environment will be. The Dark value higher, the led **auto-on** more easily in the dark environment will be. Both values range from 0 to 100.
- •Alarm: Select Alarm to start the LED alarm function.

Note: Concerning how to set up the LED alarm function, please refer to the CHAPTER 9.7.

> Overlay:

- •Text Overlay: Some information can be showed on the display screen, such as Date / Time and user-defined text. And the background color can be chosen.
- Privacy Mask: A specific area of the video image can be covered.

8.2.2 H.264

🕏 Home	
SETTING	H.264
S BASIC	Viewer authentication ③ On 〇 Off
System	Multicast streaming ③ On 〇 Off
🕑 Camera	Multicast address 228.0.0.1
General	Video port ⊙ Auto ◯ (1024 ~ 65534)
H.264	Audio port
MPEG4	Time-To-Live 15 (1 to 255)
MJPEG	
3GPP	Image Size
Advanced	Frame rate 15 Y fps
Playback	Quality
Network	O Auto
Security	Fixed quality Excellent
Advanced	○ Fixed bitrate 6M y bps
	IP interval Auto 🗸
	OK Cancel

> Viewer Authentication:

- •**On**: If the viewer authentication is On, the users will be requested to key-in username and password when using QuickTime Player to have live viewing.
- •Off: If the viewer authentication is Off, you can have live viewing on computer by QuickTime Player after entering "rtsp://ip:port/video.h264" on the URL column directly.

> Multicasting Streaming (if it's on):

- •Multicast Address: The multicast server address will appear automatically.
- •Video / Audio Port: Specify the transmission port number of the video data, from 1024 to 65535.
- •Time to Live: Set the maximum TTL that multicast can pass through.

Note: Time To Live option determines the maximum length of time (measure as the number of network routers that can be passed before data arrives at its destination or is dropped) within which a multicast packet must reach its destination.

➤ Image Size: Specify the image size when the network camera transmits. Choose one among 1280 x 1024, 1280 x 720, 640 x 480, and 320 x 240.

> Frame Rate: Set the frame rate of H.264 image. Choose one value among 1, 2, 3,

4, 5, 7, 10, 15, 20, 25, and 30 fps. The unit "fps" stands for "frames per second".

Note: The frame rate is up to 15 fps at 1280x1024, and up to 30 fps at 640x480. However, if you would like choose frame rate over 15 fps, the IMAGE SIZE of H.264/MPEG-4/MJPEG setting page has to been selected 320x240 or 640x480 at the same time.

➤ Quality:

- •Auto: The quality and bitrate will be adjusted automatically according to the frame rate.
- •Fixed Quality: Select the value of quality among Medium, Good, Delicate and Excellent.
- •Fixed Bitrate: Set the bitrate of H.264 image transmission for a line. Select one among 64Kbps, 128Kbps, 256Kbps, 384Kbps, 512Kbps, 768Kbps, 1Mbps, 1.5 Mbps, 2 Mbps, 3 Mbps, 4 Mbps, 5 Mbps, and 6 Mbps.

Note: Concerning how to select the suitable image quality for Fixed Quality or Fixed Bitrate,

please refer to the CHAPTER 10. APPENDIX / A. Frame-rate & Bitrate Table.

> IP Interval: It's the ratio of i-frame & p-frame. Select one among 1, 5, 10, 15, 30,

60, and 120. The ratio smaller, the streaming smoother.

Note: The IP interval value means a ratio of "P-frame / I-frame " in a certain section of frame sequences. The ratio lower, the live view clear. However, live view will lag if the bandwidth isn't big enough. In this situation, you have to choose another bigger IP interval value to solve the problem.

Note: If Video Clip Format of General Menu (go "Setting \rightarrow Basic \rightarrow Camera \rightarrow General"), which is for recording compression, is chosen H.264, the IP interval option will appear "Auto" automatically and can't select. The limit is for avoiding damaging the recording quality of 5 seconds temporary-saved video recorded on FTP server.

8.2.3 MPEG-4

🕏 Home		
	MPEG4	
SETTING		
S BASIC	Viewer authentication ③ On 〇 Off	
🍉 System	Multicast streaming ③ On 〇 Off	
🕑 Camera	Multicast address 228.0.0.1	
General	Video port	
H.264	Audio port ⊙ Auto ◯ (1024 ~ 65534)	
MPEG4	Time-To-Live 15 (1 to 255)	
MJPEG 3GPP Advanced Playback Network Security Advanced	 Image Size 1280x1024 v Frame rate 15 v fps Quality Auto Fixed quality Excellent v Fixed bitrate 2M v bps IP interval Auto v 	
	OK Cancel	

Viewer Authentication:

- •**On**: If the viewer authentication is On, the users will be requested to key-in username and password when using QuickTime Player to have live viewing.
- •Off: If the viewer authentication is Off, you can have live viewing on computer by QuickTime Player after entering "rtsp://ip:port/video.mp4" on the URL column directly.

Multicasting Streaming (if it's on):

- •Multicast Address: Specify the multicast server address.
- •Video / Audio Port: Specify the transmission port number of the video data, from 1024 to 65535.
- •Time to Live: Set the maximum TTL that multicast can pass through.

Note: Time To Live option determines the maximum length of time (measure as the number of network routers that can be passed before data arrives at its destination or is dropped) within which a multicast packet must reach its destination.

▶ Image Size: Specify the image size when the network camera transmits. Choose one among 1280 x 1024, 1280 x 720, 640 x 480, and 320 x 240.

- > Frame Rate: Set the frame rate of the MPEG-4 image. Choose one from 1, 2, 3, 4,
- 5, 7, 10, 15, 20, 25, and 30 fps. The unit "fps" stands for "frames per second."

Note: The frame rate is up to 15 fps at 1280x1024, and up to 30 fps at 640x480. However, if you would like choose frame rate over 15 fps, the IMAGE SIZE of H.264/MPEG-4/MJPEG setting page has to been selected 320x240 or 640x480 at the same time.

➤ Quality:

- •Auto: The quality and bitratee will be adjusted automatically according to the frame rate.
- •Fixed Quality: Select the value of quality among Medium, Good, Delicate and Excellent.
- •Fixed Bitrate: Set the bitrate of MPEG-4 image transmission for a line. You can select one value among 64Kbps, 128Kbps, 256Kbps, 384Kbps, 512Kbps, 768Kbps, 1Mbps, 1.5 Mbps, 2 Mbps, 3 Mbps, 4 Mbps, 5 Mbps, and 6 Mbps.

Note: Concerning how to select the suitable image quality for Fixed Quality or Fixed Bitrate, please refer to the CHAPTER 10. APPENDIX / A. Frame-rate & Bitrate Table.

IP interval: It's the ratio of i-frame & p-frame. You can select one among 1, 5, 10, 15, 30, 60, and 120. The ratio smaller, the streaming smoother.

Note: The IP interval value means a ratio of "P-frame / I-frame " in a certain section of frame sequences. The ratio lower, the live view clear. However, live view will lag if the bandwidth isn't big enough. In this situation, you have to choose another bigger IP interval value to solve the problem.

Note: If Video clip format of General Menu, which is for recording compression, is chosen MPEG-4, the IP interval option will appear "Auto" automatically and can't select. The limit is for avoiding damaging the recording quality of 5 seconds temporary-saved video recorded on FTP server.

8.2.4 MJPEG

🕲 Hom	e	
SETTING	3	MJPEG
🕑 BAS	IC	Viewer authentication ③ On 〇 Off
🕑 s	ystem	🗏 Multicast streaming 💿 On 🔘 Off
D 0	amera	Multicast address 228.0.0.1
	General	Video port ● Auto ○ (1024 ~ 65534)
	H.264	Audio port
	MPEG4	Time-To-Live 15 (1 to 255)
	MJPEG	
	3GPP	Image Size 1280x1024
	Advanced	🗏 Frame rate 15 🚩 fps
	Playback	Quality
D N	letwork	• Auto
.⊳ s	ecurity	Fixed quality Excellent
🕑 Adv	anced	OK Cancel

> Viewer Authentication:

- •On: If the viewer authentication is On, the users will be requested to key-in username and password when using QuickTime Player to have live viewing.
- •Off: If the viewer authentication is Off, you can have live viewing on computer by QuickTime Player after entering "rtsp://ip:port/video.mjpg" on the URL column directly.

> Multicasting streaming (if it's on):

- •Multicast Address : Specify the multicast server address.
- •Video / Audio Port: Specify the transmission port number of the video data, from 1024 to 65535.
- •Time to Live: Set the maximum TTL that multicast can pass through.

Note: Time To Live option determines the maximum length of time (measure as the number of network routers that can be passed before data arrives at its destination or is dropped) within which a multicast packet must reach its destination.

➤ Image Size: Specify the image size when the network camera transmits. Choose among 1280 x 1024, 1280 x 720, 640 x 480, and 320 x 240.

> Frame Rate: Set the frame rate of the MJPEG image. Choose one among 1, 2, 3,

4, 5, 7, 10, 15, 20, 25, and 30 fps. The unit "fps" stands for "frames per second".

Note: The frame rate is up to 15 fps at 1280x1024, and up to 30 fps at 640x480. However, if you would like choose frame rate over 15 fps, the IMAGE SIZE of H.264/MPEG-4/MJPEG setting page has to been selected 320x240 or 640x480 at the same time.

➤ Quality:

- •Auto: The quality and bit rate will be adjusted automatically according to the frame rate.
- •Fixed Quality: Select the value of quality among Medium, Good, Delicate and Excellent.
- •Fixed Bitrate: Set the bitrate of MJPEG image transmission for a line. You can select one among 64Kbps, 128Kbps, 256Kbps, 384Kbps, 512Kbps, 768Kbps, 1Mbps, 1.5 Mbps, 2 Mbps, 3 Mbps, 4 Mbps, 5 Mbps, and 6 Mbps.

Note: Concerning how to select the suitable image quality for Fixed Quality or Fixed Bitrate, please refer to the CHAPTER 10. APPENDIX / A. Frame-rate & Bitrate Table.
8.2.5 3GPP

🗐 Home				
	3GPP			
SETTING				
S BASIC	Viewer authentication ③ On 〇 Off			
🍉 System	Image Size 160x120 🗸			
🕑 Camera	🗏 Frame rate 5 🍸 fps			
General	Quality			
H.264	⊖ Auto			
MPEG4	○ Fixed quality Excellent ∨			
MJPEG	● Fixed bitrate 64K y bps			
3GPP	🗏 IP interval Auto 🛩			
Advanced Playback	OK Cancel			

> Viewer Authentication:

- •On: If the viewer authentication is On, the users will be requested to key-in username and password when using QuickTime Player to have live viewing.
- •Off: If the viewer authentication is Off, you can have live viewing on computer by QuickTime Player after entering "rtsp://ip:port/video.3gp" on the URL column directly.
- > Image Size: Image size for 3GPP is 160 x 120.

Frame Rate: Set the frame rate of the 3GPP image. Choose one between 5 or 10 fps.

- > Quality:
 - •Auto: The quality and bit rate will be adjusted automatically according to the frame rate.
 - •Fixed Quality: This item here can't be selected.
 - •Fixed Bitrate: Set the bitrate of 3GPP image transmission for a line. You can select one among 64Kbps, 48Kbps, 32Kbps, 16Kbps.

> IP Interval: It's the ratio of i-frame & p-frame. You can select one among 1, 5, 10,

15, 30, 60, and 120. The ratio smaller, the streaming smoother.

Note: The IP interval value means a RATIO of "P-frame / I-frame " in a certain section of frame sequences. The ratio lower, the live view clear. However, live view will lag if the bandwidth isn't big enough. In this situation, you have to choose another bigger IP interval value to solve the problem.

8.2.6 Advanced



> White Balance: Choose the white balance among Auto, Florescent, Incandescent and Black & White.

Lighting: The default setting of lighting environment is Auto. However, you may also choose 50 or 60 Hz upon the lighting environment of your country.

> Exposure Mode: Choose Auto, High Speed Mode, or Manual upon the capture environment.

- •Auto: Choose Auto and you have 3 options to adjust the exposure condition.
 - Back Light Compensate: Click it on and it helps avoid problems in situations where the main subject ends up being too dark, such as when shooting people or other subjects in front of a bright background.
 - Slow Shutter: Click it on and the range of shutter speed will be from 1/5 to 1/120 sec. It will adjust the shutter speed automatically and helpful to capture the clear image when shooting in a dark place.
- •High Speed Mode: Choose High Speed Mode and the shutter speed will be close 1/120 sec. as far as possible to help to capture the motion image of sports or high-speed phenomena.
- •Manual: Choose Manual and you can select options, including Shutter Speed and Gain.

- Shutter Speed: The default value is 1/30 sec. and you can select the value among 1/4, 1/6, 1/12, 1/30, 1/60, and 1/120 sec.
- Gain: The default value is 2 and the value is adjustable among 0~9. It will influence the brightness of the image. The more the value is, the brighter the image is. However, the higher gain value might cause more noise.

8.2.7 PLAYBACK

Clicking the button of "Open Files" and select the video file recorded previous, you can look for the desired image. Besides, you can still have the live view in the screen. The function of each button is as below illustration:



8.3 Network

Click the folder of **Network** to display the sub folders including **Information**, **PPPoE**, **DDNS**, **UPnP**, **Bonjour**, **IP Notification**, **Wireless and Messenger**.

8.3.1 Information

Display the MAC address of the device.

🕏 номе	MAC address	00:1B:CC:67:07:23			
SETTING	 Obtain an IP address automatically (DHCP) 				
S BASIC	○ Use the following IP address				
🅑 System					
🅑 Camera					
Network					
Information					
PPPoE	Obtain DNS server	address automatically			
DDNS	O Use the following D	NS server address			
UPnP					
Bonjour					
IP Notification					
Wireless	HTTP port number				
Messenger		OK Cancel			

> Obtain an IP address automatically (DHCP): If a DHCP server is installed on the network, to select this while the IP address is assigned by the DHCP server.

Obtain DNS server address automatically: Select this to obtain the address of DNS server automatically.

🗐 номе	MAC address 00:1B:CC:67:07:23
SETTING	 Obtain an IP address automatically (DHCP)
S BASIC	Our Set the following IP address
🍉 System	IP address 10 . 0 . 36
🅑 Camera	Subnet mask 255 . 255 . 0
S Network	Default gateway
Information	
PPPoE	
DDNS	Our Section Content of the section of the sectio
UPnP	Primary DNS server 0 . 0 . 0 . 0
Bonjour	Secondary DNS server 0 0 0 0
IP Notification	
Wireless	■ HTTP port number
Messenger	OK Cancel

Use the following IP address: Select this option when the fixed IP address is set.

- •IP address: Enter the IP address of the device.
- •Subnet mask: Enter the subnet mask.
- •Default gateway: Enter the default gateway.

> Use the following DNS server address: Select this when you set the fixed

address as the IP address of DNS server.

- •Primary DNS server: Enter the IP address of the primary DNS server.
- •Secondary DNS server: Enter the IP address of the secondary DNS server, if necessary.

➤ HTTP Port Number: Select 80 in general situations. If you want to use a port number other than 80, select the text box and enter a port number between 1024 and 65535.

•When you have set the HTTP port number to a number other than 80 on the Network Setting screen in the Setup Program, access the device by typing the IP address of the device on the web browser as follows: Example: when HTTP port number is set to 2000 <u>http://192.168.1.100:2000/</u>

Note: The IP Camera needs to be rebooted after it finishes changing the network setting completely.

Note: If you connect the IP Camera with your computer directly, the default network domain of camera is 192.168.1.xx

8.3.2 PPPoE

If your ISP provides Dynamic IP with authentication by username and password, type all PPPoE information in this part. When using the PPPoE function, you need to turn on the DDNS or IP Notification function at same time.

🗐 номе	^	□PPPoE ④ On ◎ Off			
SETTING		IP address	0.0.0.0		
BASIC		User ID			
🍉 System		Password			
🍉 Camera		Re-type password			
Network		Ohtain DNS server address a	automatically		
Information					
PPPoE	≡	Ose the following DNS serve	raddress		
DDNS					
UPnP					
Bonjour					
IP Notification					
Wireless		OK Cancel			
Messenger					
🕑 Security					
Advance					

> IP Address: The IP address obtained at the PPPoE connecting with network.

User ID: Enter the user ID for authentication necessary for PPPoE connections.
Type it up to 64 characters.

Password: Enter the password for authentication necessary for PPPoE connections. Type it up to 32 characters.

> **Re-type Password**: Re-type the password to confirm.

Obtain DNS server address automatically: Select this to obtain the address of DNS server automatically.

🕏 номе	■PPPoE ④ On 〇 Off							
SETTING	IP address							
S BASIC	User ID							
🅑 System	Password							
🅑 Camera	Re-type password							
Network								
Information								
PPPoE	• Use the following DNS server address							
DDNS	Primary DNS server 0 . 0 . 0 . 0							
UPnP	Secondary DNS server 0 0 0 0							
Bonjour								
IP Notification								
Wireless	OK Cancel							
Messenger								
Security								

> Use the following DNS server address: Select this when you set the fixed address as the IP address of DNS server.

- •Primary DNS server: Enter the IP address of the primary DNS server.
- •Secondary DNS server: Enter the IP address of the secondary DNS server.

Note : 1. PPPoE (Point-to-Point Protocol over Ethernet): PPPoE is a network protocol for encapsulating Point-to-Point Protocol frames insider Ethernet frames. PPPoE connection is used mainly with ADSL service where individual users connect to the ADSL transceiver (modem) over Ethernet work. It also widely used in XDSL (digital affiliate line such as ADSL, VDSL or SDSL)

2. The IP Camera needs to be rebooted after it finishes changing the network completely.

3. The IP Camera with Intelligent IP Installer can't be founded after turning on the PPPoE and reboot.

8.3.3 DDNS (Dynamic DNS)

DDNS is a system which allows the domain name data held in a name server to be updated in real time. The most common use for DDNS is allowing an internet domain name to be assigned to a computer with a varying / dynamic IP Address. This makes it possible for other sites on the internet to establish connection to the machine without needing to track the IP Address themselves.

🗐 номе	^	∎DDNS ⊛ On ⊜ Off
SETTING		Server name
BASIC		User ID
ಶ System		Password
ಶ Camera		Re-type password
🍼 Network		
Information		Host hame
PPPoE	≡	
DDNS		OK Cancel
UPnP		
Bonjour		
IP Notification		
Wireless		
Messenger		
🍉 Security		
🕑 Advance		

> Server Name: Choose the DDNS Server from the list.

User ID: Enter the user ID for authentication necessary for DDNS connections.Type it up to 64 characters.

Password: Enter the password for authentication necessary for DDNS connections. Type it up to 32 characters.

> **Re-type Password**: Re-type the password to confirm.

> Host Name: Enter the host name that is registered to the DDNS server.

Note : How to apply DDNS username and Host name?? You can apply DDNS username and Host name by the following steps:

8.3.4 UPnP (Universal Plug and Play)

If you have a Router to access to internet and the Router supports UPnP IGD function, you need to turn on the UPnP Port Forwarding function.

🗐 номе					
	UPnP o On O Off				
SETTING	Turn On UPnP port forwarding				
S BASIC	HTTP port				
ಶ System	SSL Port ⊙ 443 ◯ (1024 ~ 65535)				
🅑 Camera	RTSP Port ⊙ 554 ◯ (1024 ~ 65535)				
Network					
Information					
PPPoE	OK Cancel				
DDNS					
UPnP					
Bonjour					

- > **HTTP Port**: Enter the HTTP port number and default HTTP port is 80.
- > SSL Port: Enter the SSL port number and default SSL port is 443.
- > **RTSP Port:** Enter the RTSP port, default value is 554 for computer view.

Note : UPnP (Universal Plug and Play): UPnP is a set of computer network protocol. It allows devices to connect seamlessly and simplify the implementation of networks in the home and corporate environments.

8.3.5 Bonjour

Bonjour, also known as zero-configuration networking, enables automatic discovery of computers, devices, and services on IP networks. Bonjour uses industry standard IP protocols to allow devices to automatically discover each other without the need to enter IP addresses or configure DNS servers.

😨 IP CAMERA Setting	*
ALLNET'	ALL2205 Megapixel Fixed Wireless IP Camera
🗐 Home	
SETTING	Bonjour
BASIC	🗆 Bonjour 💿 On 🔿 Off
🅑 System	Device name ALLNET-2205
🅑 Camera	
Network	
Information	
PPPoE	
DDNS	
UPnP	
Bonjour	
IP Notification	
Wireless	
Messenger	
Security	
Advanced	

> **Device Name**: Enter Device Name you wish.

Note: How to use Bonjour in your Windows Browser UI? Please check the link below:

http://www.apple.com/support/downloads/bonjourforwindows.html

8.3.6 IP Notification

When network notify type is set to "ON", you can send an e-mail notification of the completion of the network setting.

🗐 номе		IP Notification	DHCP Static IP PPPoE
SETTING		SMTP server name	
S BASIC		SMTP server port	25 (1 ~ 65535) SSL
🍉 System		Authentication	⊙ On ◯ Off
🍉 Camera			SMTP DP before SMTP
Network			
Information			
PPPoE	≡		
DDNS		Recipient e-Mail address	
UPnP		Administrator e-Mail address	
Bonjour		Subject	IP Notify
IP Notification			Product Name : <product></product>
Wireless		Message	APP Version : <vweb></vweb>
Messenger		_	http:// <ip>:<port> MAC_Address :</port></ip>
🍉 Security			
Advanced			

> Notify Type: You can select the notify type among DHCP, Static IP, and PPPoE.

> **SMTP Server Name**: Type the SMTP server name up to 64 characters, or the IP address of the SMTP server.

SMTP Server Port: You can set port number from 1~65535 according to your mail server. The default value is 25.

•Security setting: Tick SSL box if the mail server you use has security restriction.

Note: If you use g-mail as your mail server, you should set 25 as your port number and tick SSL box.

> Authentication: Select the authentication required when you send an email.

•Off: Select if no authentication is necessary when an email is sent.

•On: When authentication is necessary an e-mail is sent, there are **SMPT**, **POP before SMPT or both** three options.

	^		
🕏 номе		IP Notification 💿 On 🔘 Off	
	-	Notify type	🔲 DHCP 🔲 Static IP 🔲 PPPoE
SETTING		SMTP server name	
BASIC		SMTP server port	25 (1 ~ 65535) SSL
🍉 System		Authentication	⊙ On ⊖ Off
ಶ Camera			SMTP V POP before SMTP
Network		POP server name	
Information		User name	
PPPoE	=	Password	
DDNS		Recipient e-Mail address	
UPnP		Administrator e-Mail address	\$
Bonjour		Subject	IP Notify
IP Notification			Product Name : <product></product>
Wireless		Message	Web Version : <vweb> APP Version : <vfirm></vfirm></vweb>
Messenger		-	http:// <ip>:<pre>def ddress :</pre></ip>
🍉 Security			
🕑 Advance			
	Y		

- > Authentication: Select the authentication required when you send an email.
 - •Off: Select if no authentication is necessary when an email is sent.
 - •On: When authentication is necessary an e-mail is sent, there are **SMPT**, **POP before SMPT or both** three options.
- > SMTP: Select if SMTP authentication is necessary when an e-mail is sent.

> **POP before SMTP**: Select if POP before SMTP authentication is necessary when an e-mail is sent.

- •POP server name: It is necessary when the POP before SMTP is selected in Authentication. Type the POP (receiving mail) server name up to 64 characters, or type the IP address of the POP server. This setting is necessary when the SMTP server which sends e-mails performs authentication using the POP user account.
- •User name, Password: Type the user name and Password of the user who has the mail account. This setting is necessary when the SMTP server which sends e-mails performs authentication.

Recipient E-mail Address: Type the recipient e-Mail address up to 64 characters. You can specify up to three recipient E-mail addresses.

> Administrator E-mail Address: Type the Administrator e-Mail address up to 64 characters. This address is used for reply mail and sending system messages from the SMTP server.

Subject: Type the subject/title of the e-Mail up to 64 characters. With respect to mail which is sent according to the IP notification.

Message: Type the text of the E-mail up to 384 characters. Default value provides network information including IP, Port, MAC, Model, Firmware Version and Web Version.

8.3.7 Wireless

The wireless network has to be set up by using cable network connection. After setting the camera correctly, the wireless function can work with cable network connection. Wireless settings must be the same as the access point or ad-hoc device. When changing the settings they should always be made first in the camera and then in the wireless access point. This ensures that the camera is always accessible when making changes.

🗐 ном	1E	•	Wireless 💿 On	O Off				
SETTING	3				s	tatus of wireless networks		
🕑 BAS	SIC		ESSID	Mode	Security	Channel	Signal strength	Bit rate
ی 🕑	System	F	Please refresh.					
ۍ ک	Camera							
	letwork							
	Information							Refresh
	PPPoE	×.	MAC address					
	DDNS		IP address				_	
	UPnP		in dadrooo					
	Bonjour		ESSID				■ Manual set	tting
	IP Notification	×.	Mode			Managed O Ad	-Hoc	
	Wireless		Authentication	1		Open 👻		
	Messenger		Encryption			WEP		
Security			Line y parent					
🕑 Adv	anced		Key length			○ 64 bit ○ 128 bit		
-			Active transmi	t key:		(26 HEX chars or 13	3 ASCII chars)	
					Key 1: 💌			
					Re-type			

Status of Wireless Network

This list is the result of network scan. The network is currently linked to will be shown in blue. The following information is provided.

- •ESSID The name of a wireless network (or ad-hoc device). If the same name occurs several times this means that several access points for that network were found. The camera cannot be configured to only associate with one particular access point.
- •Mode Shows if the network type is Master (access point or router) or Ad-Hoc (another client).
- •Security Shows which type of security the network uses. See below for the security types supported by the camera.
- •Channel Shows the wireless channel currently in use.
- •Signal Strength Shows the signal strength.
- •Bit Rate Shows the bit rate in Megabit/s. This can only be shown for the access point currently in use. Note that the bit rate shown is the current rate, and that this value may vary over time.

> Wireless Setting

These settings control how the camera interacts with the wireless network. It is also possible to enable wireless encryption apart from identifying the wireless network.

- •IP Address This displays blank, 0.0.0.0 or IP Address. When it is blank, the camera doesn't establish physical link with access point yet. The 0.0.0.0 means that physical link was established but trying to get IP address. When it displays IP address, then user can use wireless network.
- •ESSID (ESSID is sometimes written as SSID.) This is the name of the wireless network the camera is configured for. The field accepts up to 32 alphanumeric characters. The name must be exactly the same as that used in the wireless access point or the connection will not be established.
- •Leaving this field blank means the camera will attempt to access the nearest open network.
- •Mode Setting this to Managed means the camera will attempt to access the nearest open access point. The Ad-hoc option allows the camera to connect to other wireless devices clients.

Note : 1. WPA-/WPA2-PSK (Wi-Fi Protected Access - Pre-Shared Key) the camera uses a pre-shared key (PSK) to initiate WPA security. The pre-shared key is entered on the access point and on each device on the wireless network. The key can be entered either as Manual hex, as 64 hexadecimal (0-9, A-F) characters, or as a Passphrase, using 8 to 63 ASCII characters. The access point keeps out unauthorized users by requiring the key to communicate.

2. WEP (Wired Equivalent Protection) the original security standard used in wireless networks that provides a minimal level of security that can deter minor trespasses. The administrator can select the key length among 64 or 128 bits. 64bits is the default setting.

8.3.8 Messenger

Messenger function provide an easy-connect feature. User can easy to know what camera's private and public IP address is.

🗐 Home	Messenger	
	Messenger 💿 On	○ Off
SETTING	Protocol	msn
BASIC System	Login Account	
🕑 Camera	Password	
Network	Re-type password	
Information	Alias	
DDNS	Port range	20000 (1024 ~ 65531) ~ 21000 (1028 ~ 65535)
UPnP	Video mode	○ Computer view ④ Mobile view
Bonjour	IP Notification	On ○ Off
IP Notification	Privacy	⊙ On ◯ Off
Wireless	User	
Messenger		Add Domous
Security		
Advanced		
	Allow list	
		OK Cancel

> **Protocol**: support MSN only.

Login Account: Camera will use this account to login MSN server. This MSN account should be applied form http://www.msn.com.

> **Password**: password for this msn account.

> **Re-type Password**: re-type password to double confirm.

> Alias: This alias will display on MSN like the following which display in red frame.

Port Range: Camera will select one port from this port range for video transmission.

➤ Video Mode: You can choose to receive video streaming from Computer view (MPEG-4) or Mobile view (3GPP).

> IP Notification: Switch the IP notification On / Off. If this feature switches On, camera will send IP notification to the users who are allowed.

> Privacy: Switch privacy On / Off. When privacy turns on, only those users in allow list can access the camera

- > User: Input to this blank to edit allow list.
- Allow List: When privacy turns on, only those users in allow list can access the camera.

8.4 Security

Click the folder of **Security** to display the sub folders including **Account and HTTPS.**

8.4.1 Account

The device fault account and password setting is "admin / admin". That means everyone who knows IP address can access the device including all configuration. It is necessary to assign a password if the device is intended to be accessed by others.

🕲 номе	User ID	User name	Password	Re-type Password	Viewer mode
SETTING	Administrator	admin	••••	••••	Admin 😽
S BASIC					
System	User 1				Admin 💌
🅑 Camera	User 2				Admin 💌
Network	User 3				Admin 💌
Security	User 4				Admin 💌
Account	User 5				Admin 🖌
HTTPS	User 6				Admin 🔽
Advanced	User 7				Admin 💌
	User 8				Admin 🖌
	User 9				Admin 🖌
		Viewer authentica [ation		

- > User Name: Set a user name between 4-16 characters.
- > Password: Set a password between 4-16 characters.
- > **Re-type Password**: Re-type the password to confirm.

> Viewer Mode: Set the user mode among Admin, Operator, and Viewer. Different viewer mode has different limits of authority.

- •The Admin mode has all authority of configuration.
- •The Operator mode can not only view the Live View but also control the PTZ (only for PTZ models).
- •The Viewer mode only can view the Live View.

Viewer Authentication: Select On, allows any viewer direct access to Live View. Select Off, allow admin, operator, or viewer access to Live View.

8.4.2 HTTPS

HTTPS is a URL scheme used to indicate a secure HTTP connection. It is syntactically identical to the http:// scheme normally used for accessing resources using HTTP. Using an https: //URL/ with a different default TCP port (443) and an additional encryption / authentication layer between the HTTP and TCP. You can use the IP camera through HTTPS easily by using https:// instead of http://.

🗐 НОМЕ	Create & Install Create self-signed certificate
SETTING	Installed Certificate Subject Name
BASIC	Subject Name
🅑 System	No certificate installed.
🅑 Camera	riopeties Remove
Network	HTTPS Connection Policy
Security	Administrator
Account	Viewer HTTP
HTTPS	Set Policy
Advanced	

- > Create & Install: Create a self-signed certificate for HTTPS to recognize.
- > Installed Certificate: Display or remove the properties of the installed certificate.
- HTTPS Connection Policy: Set HTTPS connection policy for different level of users.

> To use the HTTPS encryption, please set up "**Create self-signed certificate**" for the first time you use the HTTPS function, and then set up the connection policy for different users.

🕏 номе	Create & Install Create self-signed certificate	Create self-signed certificate Webpage Dialog thtp://10.00.19/create_ssl_certificate.htm	
SETTING BASIC System	Installed Certificate Subject Name No certificate installed. Properties Remove	Create self-signed certificate Country State or province Locality Comparing the province	
 Network Security Account HTTPS Advanced 	HTTPS Connection Policy Administrator Operator Viewer Set Policy	Organizational Unit Common Name Validity OK Cancel	

Note: When enable HTTPS with RTSP on mode, the IP Camera only protect the setting such as username and password and do not protect video and audio. When enable HTTPS with RTSP off mode, the IP Camera will protect all setting including video and audio.

8.4.3 IP Filter

IP Filter provides the function of controlling the range of IP address, similar with firewall service.

🕏 Home		
	IP Filter	
SETTING		
BASIC	■ IP Filter On Off	
达 System	🗏 Allow Range	
🅑 Camera		
Network	Start IP Address	
Security	End IP Address	Add
Account	E Allow Parasa Lind	
HTTPS		Delete
IP Filter	0.0.0.0 ~ 255.255.255	Delete
Advanced		
	🗏 Deny Range	
	Start IP Address	
	End IP Address	Add
	Deny Range List	
	(Empty) 💌	Delete
	OK Cancel	

> IP Filter: Select if you would like to have IP filter function.

Allow Range: The default range is from 0.0.0.0 to 255.255.255.255. Enter the "Start IP address" and "End IP address" in the range, then you can add a new allow range in allow range list.

> Allow Range List: Except the default range 0.0.0.0~255.255.255.255, the list allows to add four more sets of allow range at most.

Deny Range: You can define the deny range by entering "Start IP address" and "End IP address"

> Deny Range List: You can define not more than five sets of deny range in the list.

Chapter 9. Setting-Advanced

Click the folder of **Advanced** to display the sub folders including **FTP client**, **SMTP**, **Network storage**, **HTTP event**, **Schedule**, **Alarm buffer**, **Motion detection**, **Audio detection**, **and System Log**.

9.1 FTP Client

Use this menu to set up for capturing and sending a image or video clip to an FTP server. By using FTP client function, you can send files which has been shot and recorded linked with the external sensor input or with the built-in motion detection function to FTP server. FTP client setting menu is composed of two tabs, **General**, **Alarm Sending** and **Periodical Sending**.

9.1.1 General

Select **On** when you use FTP function. The FTP client Setting screen appears. Select **Off**, when you do not wish to use the FTP client function.

Note: The frame rate and operability on the main viewer may decrease while a file is being transmitted by the FTP client function.

🗐 Home	
SETTING	General
BASIC	■ FTP client 💿 On 🔘 Off
Advanced	FTP server name
FTP client	User name
General	
Alarm sending	Password
Periodical sendin	Re-type password
SMTP	Passive mode 🛛 On 💿 Off
Network storage	Attached file type 💿 Snapshot 🔿 Video clip
b HTTP event	
Schedule	
Alarm buffer	

FTP Server Name: Type the FTP server name to upload still images up to 64 characters, or the IP address of the FTP server.

- > User Name: Type the user name for the FTP server.
- > **Password**: Type the password for the FTP server.
- Retype Password: To confirm the password, type the same characters as you typed in the Password box.
- Passive Mode: Set whether you use the passive mode of FTP server or not when connecting to FTP server. Select On to connect to FTP server using the passive mode.
- Attached File Type: You can choose snapshot or video clip for alarm sending. Select "Snapshot," one snapshot will be transmitted to the specified FTP server while motion detection / audio detection triggered. Select "Video clip," one 5-seconds video clip will be transmitted.
- Test: After setting the FTP server information, you can tick the test key to test if the connection between IP CAM and FTP server works.

9.1.2 Alarm Sending

Set to forward a snapshot or video clip file to the specified FTP server linked with the alarm detection by the external sensor input or by the built-in motion detection function. Select **On** to send the file to FTP server linked with the alarm detection.

🕏 Home	
	Alarm sending
SETTING	
BASIC	■ Alarm sending ③ On 〇 Off
Advanced	Remote path
FTP client	Image file name
General	Suffix ③ Date Time 〇 Sequence number
Alarm sending	
Periodical sending	Alarm Motion detection Motion detection
SMTP	Audio detection Audio detection
Network storage	Network link down Alarm buffer
HTTP event	
Schedule	
Alarm buffer	Effective Period 🔿 Always
Motion detection	Schedule Schedule
Audio detection	
System Log	OK Cancel

- > **Remote Path**: Type the path to the destination in FTP server up to 64 characters.
- Image File Name: Type the file name you want to assign to the files when sending to the FTP server. You can use up to 10 alphanumeric characters, - (hyphen) and _ (underline) for naming.
- > Suffix: Select a suffix to add to the file name
 - •Date & time: The date & time suffix is added to the Image file name. The date/time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits), second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.
 - •Sequence number: A consecutive number of 10 digits between 1 and 4294967295 and two fixed digits 00 is added to the Image file name.
 - Sequence number clear: Click Clear and the suffix of the sequence number returns to 1.

Alarm

•Motion Detection: Click it on for using Motion Detection function as a sensor. You can set motion detection function at the motion detection function screen.

Note: You can set motion detection at motion detection screen. (Please go "Setting \rightarrow Advanced \rightarrow Motion Detection \rightarrow Setting") For more details, you can check Chapter 9.7.

•Audio Detection: Click it on for using Audio Detection function as a sensor. You can set audio detection function at the audio detection function screen.

Note: You can set audio detection at audio detection screen. (Please go "Setting \rightarrow Advanced \rightarrow Audio Detection \rightarrow Setting") For more details, you can check Chapter 9.8.

 Network Link Down: Click it on to receive a snapshot or a video clip while network link down. If Attached File Type (go "Setting → Advanced → FTP Client → General") was clicked as video clip, you can use Alarm Buffer function as a sensor. It's for recording audio file in the IP CAM before and after disconnected network.

Note: You can set alarm buffer at alarm buffer screen. (Please go "Setting \rightarrow Advanced \rightarrow Alarm Buffer \rightarrow Setting") For more details, you can check Chapter 9.6.

> Effective Period: Set the period when the periodical sending is effective.

- •Always: The periodical sending is always effective.
- •Schedule: You can specify the period when the periodical sending is effective in the Schedule setting in the other section.

Note: You can set schedule function at schedule screen. (Please go "Setting \rightarrow

Advanced \rightarrow Schedule \rightarrow Setting") For more details, you can check Chapter 9.5.

9.1.3 Periodical Sending

Select **On**, you can set to send an image file to FTP server periodically.

🗐 Home	
SETTING	Periodical sending
BASIC	🖩 Periodical sending 📀 On 🔘 Off
Advanced	Remote path
FTP client	Image file name
General	
Alarm sending	
Periodical sending	Sequence number clear Clear
SMTP	Interval 00 H 30 M
Network storage	(MIN : 1min. MAX : 24-hour interval)
HTTP event	Effective Period 🔿 Always
Schedule	Coloris Internet
Alarm buffer	Schedule Schedule
Motion detection	
Audio detection	OK Cancel
System Log	

- Remote Path: Remote path: Type the path to storage location of FTP server which you have authorized.
- Image File Name: Type the file name of snapshot or video clip sent by SMTP up to 10 alphanumeric characters, - (hyphen) and _ (under score).
- > Suffix: Select a suffix to be added to the file name sent by SMTP.
 - •None: The name of the sent file will be the Image file name.
 - •Date & time: The date & time suffix is added to the Image file name. The date & time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits) and second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.
 - •Sequence number: A consecutive number is added to the Image file name.
 - •Sequence number clear: Click Clear and the suffix of the sequence number returns to 1.

Interval: Set the periodical sending is effective interval. Min value is 1 min and Max value is 24 hour. > Effective Period: Set the period when the periodical sending is effective.

•Always: The periodical sending is always effective.

Schedule: You can specify the period when the periodical sending is effective in the schedule setting in the other section. Please check "Setting →
 Advanced → Schedule →Setting".

Note: You can set schedule function at schedule screen. (Please go "Setting \rightarrow Advanced \rightarrow Schedule \rightarrow Setting") For more details, you can check Chapter 9.5.

9.2 SMTP

Set the SMTP menu when you want to send an image or video clip via e-mail. By using Mail (SMTP) function, you can send a mail with attached file which has been shot linked with the external sensor input or with the built-in motion detection function. The file can also be sent periodically. E-Mail (SMTP) setting menu is composed of three tabs, **General**, **Alarm Sending** and **Periodical Sending**.

9.2.1 General

Select **On** when you use the SMTP function. The common setting options are displayed below. Select **Off**, if you do not wish to use the E-mail (SMTP) function.

Note : The Setting of general part will be the same as IP Notification. (Please check "Setting \rightarrow Basic \rightarrow Network \rightarrow IP Notification")

🕲 Home	General		
SETTING	🖩 e-Mail (SMTP) 💿 On 🔘 Off		
BASIC	SMTP server name		
Advanced	SMTP server port	25 (1 ~ 65535)	SSL
FTP client	Authentication	On ○ Off	
General		SMTP V POP before SMTP	
Alarm sending	POP server name		
Periodical sending	User name		
Network storage	Password		
HTTP event	Recipient e-Mail address		
Schedule Alarm buffer	Administrator e-Mail address		
Motion detection	Attached file type	Snapshot ○ Video clip	
Audio detection	Subject	········	
System Log	-	~	
	Message		
	5	8	
		OK Cancel Test	

57 ALLNET GmbH © 2009 – <u>www.allnet.de</u> > **SMTP Server Name**: Type the SMTP server name up to 64 characters, or the IP address of the SMTP server.

- SMTP Server Port: You can set port number from 1~65535 according to your mail server. The default value is 25.
 - •Security setting: Tick SSL box if the mail server you use has security restriction.

Note: If you use g-mail as your mail server, you should set 25 as your port number and tick SSL box.

> Authentication: Select the authentication required when you send an email.

- •Off: Select if no authentication is necessary when an email is sent.
- •On: When authentication is necessary an e-mail is sent, select one of the authentication methods from the followings.

> **SMTP**: Select if SMTP authentication is necessary when an e-mail is sent.

> **POP Before SMTP**: Select when POP before SMTP authentication is necessary when an e-mail is sent.

Note : When you set to on, be sure to select either or both SMTP or / and POP before SMTP.

- •POP server name: It is necessary when the POP before SMTP is selected in Authentication. Type the POP (receiving mail) server name up to 64 characters, or type the IP address of the POP server. This setting is necessary when the SMTP server which sends e-mails performs authentication using the POP user account.
- •User name, Password: Type the user name and Password of the user who has the mail account. This setting is necessary when the SMTP server which sends e-mails performs authentication.

Recipient E-mail Address: Type the recipient e-Mail address up to 64 characters. You can specify up to three recipient E-mail addresses.

- Administrator E-mail Address: Type the Administrator e-Mail address up to 64 characters. This address is used for reply mail and sending system messages from the SMTP server.
- Attached File Type: You can choose snapshot or video clip for alarm sending. Select "Snapshot," one snapshot will be transmitted to the administrator's e-mail address while motion detection / audio detection triggered. Select "Video Clip," one 5-seconds video clip will be transmitted.
- Subject: Type the subject/title of the e-Mail up to 64 characters. With respect to mail which is sent according to the alarm detection when Alarm sending of the

alarm tab is set to **On**, the characters standing for the sensor type added to the subject.

- Message: Type the text of the E-mail up to 384 characters. (A line break is equivalent to 2 characters.)
- Test: After setting the SMPT server information, you can tick the test key to test if the connection between IP CAM and the SMPT server works.

9.2.2 Alarm Sending

Set to send the mail with connection to the alarm detection by the external sensor input or by the built-in motion detection function. Select On to send the image file to SMTP server linked with the alarm detection.

De Home			
SETTING	Alarm sending		
N PLOID			
BASIC	🗏 Alarm sending 💿 On 🔘 Off		
Advanced	File attachment 💿 On 🔘 Off		
FTP client	Image file name		
SMTP			
General	Suffix O None O Date Time O Sequence number		
Alarm sending	Sequence number clear Clear		
Periodical sending	Alarm Motion detection Motion detection		
Network storage	Audio detection Audio detection		
🍉 HTTP event	Natural link dawa		
Schedule			
Alarm buffer			
Motion detection	Effective Period 🔘 Always		
Audio detection	Schedule Schedule		
System Log			
	OK Cancel		

- Alarm Sending: Select On to set to send mail with connection to the alarm detection.
- File Attachment: Set whether an image file is attached to the mail sent or not. When On is selected, the image file made by the settings below is attached. When Off is selected, only the message is sent.
- Image File Name: Type the file name you want to assign to the file attached to a mail. You can use up to 10 alphanumeric, - (hyphen) and _ (underscore) for naming.
- > Suffix: Select a suffix to add to the file name
 - •None: The name of the sent file will be the Image file name.
 - •Date & time: The date & time suffix is added to the Image file name. The date & time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits) and second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.
 - •Sequence number: A consecutive number is added to the Image file name.
 - •Sequence number clear: Click Clear and the suffix of the sequence number returns to 1.

Alarm

•Motion Detection: Click it on for using Motion Detection function as a sensor. You can set motion detection function at the motion detection function screen.

Note: You can set motion detection at motion detection screen. (Please go "Setting \rightarrow Advanced \rightarrow Motion Detection \rightarrow Setting") For more details, you can check Chapter 9.7.

•Audio Detection: Click it on for using Audio Detection function as a sensor. You can set audio detection function at the audio detection function screen.

Note: You can set audio detection at audio detection screen. (Please go "Setting \rightarrow Advanced \rightarrow Audio Detection \rightarrow Setting") For more details, you can check Chapter 9.8.

Network Link Down: Click it on to receive a snapshot or a video clip while network link down. If Attached File Type was clicked as video clip (go "Setting → Advanced → FTP Client → General"), you can using Alarm buffer function as a sensor. It's for recording audio file in the IP CAM before and after disconnected network.

Note: You can set alarm buffer at alarm buffer screen. (Please go "Setting \rightarrow Advanced \rightarrow Alarm Buffer \rightarrow Setting") For more details, you can check Chapter 9.6.

> Effective Period: Set the period when the periodical sending is effective.

- •Always: The periodical sending is always effective.
- •Schedule: You can specify the period when the periodical sending is effective in the Schedule setting in the other section.

Note: You can set schedule function at schedule screen. (Please go "Setting \rightarrow Advanced \rightarrow Schedule \rightarrow Setting") For more details, you can check Chapter 9.5.

9.2.3 Periodical Sending

You can set to send an image file by SMTP server periodically by selecting **On** to send the image file by SMTP server linked with setting period.

🕏 Home			
	Periodical sending		
SETTING			
BASIC	🖩 Periodical sending 💿 On 🔘 Off		
Advanced	Image file name		
FTP client	Suffix O None O Date Time Sequence number		
SMTP			
General	Sequence number clear Clear		
Alarm sending	Interval 00 H 30 M		
Periodical sending	(MIN : 30min. MAX : 24-hour interval)		
Network storage	Effective Period 🔿 Always		
🕑 HTTP event	Schedule Schedule		
Schedule			
Alarm buffer	OK Cancel		
Motion detection	or our our or		

- Image File Name: Type the file name of the image sent by SMTP up to 10 alphanumeric characters, - (hyphen) and _ (under score).
- > Suffix: Select a suffix to be added to the file name sent by SMTP.
 - •Date & time: The date & time suffix is added to the Image file name. The date & time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits) and second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.
 - •Sequence number: A consecutive number is added to the Image file name.
 - •Sequence number clear: Click Clear and the suffix of the sequence number returns to 1.
- Interval: Set the periodical sending is effective interval. Min value is 1 min and Max value is 24 hour.
- > Effective Period: Set the period when the periodical sending is effective.
 - •Always: The periodical sending is always effective.
 - Schedule: You can specify the period when the periodical sending is effective in the schedule setting in the other section. Please check "Setting → Basic → Advanced → Schedule → Setting."

Note: You can set schedule function at schedule screen. (Please go "Setting \rightarrow Advanced \rightarrow Schedule \rightarrow Setting") For more details, you can check Chapter 9.5.

9.3 Network Storage

Network storage provides the storage function for saving image files to the specified computer and folder connected with the operating computer.

9.3.1 General

Select On if you would like to use the network storage function. Then choose one protocol between Windows network (SMB/CIFS) and Unix network (NFS).

🕏 Home	
SETTING BASIC Advanced FTP client SMTP	General Network storage On Off Protocol Unix network (NFS) Network storage location /IPCamera (for example: my_nas:/folder)
General	
Alarm sending	
Periodical record	

Protocol- Unix Network (NFS):

•Network storage location: Type the IP or name of specified computer and folder. For example, //IP/folder name or // my_nas:/folder name.

🗐 Home	
SETTING	General
BASIC	🖩 Network storage 💿 On 🔘 Off
Advanced	Protocol Windows network (SMB/CIFS)
FTP client	Unix network (NFS) Network storage location Windows network (SMB/CIES)
SMTP	(for example: //my_pac/folder)
Network storage	
General	Workgroup
Alarm sending	User name
Periodical record	Password
HTTP event	Re-type paceword
Schedule	Re-type passion
Alarm buffer	OK Cancel Test

Protocol - Windows network (SMB/CIFS):.

•Network Storage Location: Type the IP or name of specified computer and folder. For example, //IP/folder name or //my_nas:/folder name.

•Workgroup: Type the name of workgroup which the operating computer

belongs.

- •User Name: Type the name of workgroup.
- •Password: Type the password for workgroup.
- •Re-type password: Re-type password for workgroup.

9.3.2 Alarm Sending

Set to transmit the snapshot or video clip file with connection to the alarm detection by the external sensor input or by the built-in motion detection function. Select On to send the file to network storage location linked with the alarm detection.

🕏 Home		
SETTING	Alarm sending	
BASIC	🗏 Alarm sending 💿	On 🔘 Off
Advanced	Image file name	Alarm
FTP client	Suffix	Date Time Sequence number
SMTP		
Network storage		Sequence number clear
General	Alarm	Motion detection Motion detection
Alarm sending		Audio detection Audio detection
Periodical recording		Network link down Alarm buffer
HTTP event		
Schedule		
Alarm buffer	Recording time	5 🛩 Sec (5 - 60)
Motion detection	Effective Period	Always
Audio detection		Schedule Schedule
System Log		
		OK Cancel

- Alarm Sending: Select On to set to send mail with connection to the alarm detection.
- Image File Name: Type the file name you want to assign to the file to attach a mail. You can use up to 10 alphanumeric, - (hyphen) and _ (underscore) for naming.
- > Suffix: Select a suffix to add to the file name
 - •Date & time: The date & time suffix is added to the Image file name. The date & time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits) and second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.
 - •Sequence number: A consecutive number is added to the Image file name.

•Sequence number clear: Click Clear and the suffix of the sequence number returns to 1.

> Alarm:

•Motion Detection: Click it on for using Motion Detection function as a sensor. You can set motion detection function at the motion detection function screen.

Note: You can set motion detection at motion detection screen. (Please go "Setting \rightarrow Advanced \rightarrow Motion Detection \rightarrow Setting") For more details, you can check Chapter 9.7.

•Audio Detection: Click it on for using Audio Detection function as a sensor. You can set audio detection function at the audio detection function screen.

Note: You can set audio detection at audio detection screen. (Please go "Setting \rightarrow Advanced \rightarrow Audio Detection \rightarrow Setting") For more details, you can check Chapter 9.8.

•Network Link Down: Click it on to receive a video clip while network link down. It's for recording video file in the IP CAM before and after disconnected network.

Note: You can set alarm buffer at alarm buffer screen. (Please go "Setting \rightarrow Advanced \rightarrow Alarm Buffer \rightarrow Setting") For more details, you can check Chapter 9.6.

> Effective Period: Set the period when the periodical sending is effective.

- •Always: The periodical sending is always effective.
- •Schedule: You can specify the period when the periodical sending is effective in the Schedule setting in the other section.

Note: You can set schedule function at schedule screen. (Please go "Setting \rightarrow Advanced \rightarrow Schedule \rightarrow Setting") For more details, you can check Chapter 9.5.

9.3.3 Periodical recording

🗐 Home	
	Periodical recording
SETTING	
BASIC	Periodical recording On Off
Advanced	Image file name Record
FTP client	Suffix O Date Time ③ Sequence number
SMTP	
Network storage	Sequence number clear Clear
General	File size 10 (1~50 MB)
Alarm sending	Cyclic size 1024 (100~1024000 MB)
Periodical record	Recording time O Always
b HTTP event	
Schedule	• Schedule Schedule
Alarm buffer	
	OK Cancel

You can set up to transmit image files to the network storage location periodically by selecting **On.**

- Image file name: Type the file name you want to assign to the file transmitted to the network storage location. You can use up to 10 alphanumeric, - (hyphen) and (underscore) for naming.
- > Suffix: Select a suffix to add to the file name
 - •Date & Time: The date & time suffix is added to the Image file name. The date & time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits) and second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.
 - •Sequence number: A consecutive number is added to the Image file name.
 - •Sequence number clear: Click Clear and the suffix of the sequence number returns to 1.
- File Size: The file size of image or video clip transmitted to the network storage location can't over 50MB.
- Cyclic Size: The total amount of files transmitted to the network storage location has to be in the range from 100 to 1024000MB.
- > **Recording Time:** Set the period when the periodical recording is effective.
 - •Always: The periodical recording is always effective.
 - •Schedule: You can specify the period when the periodical recording is effective in the Schedule setting in the other section.

Note: You can set schedule function at schedule screen. (Please go "Setting \rightarrow

Advanced \rightarrow Schedule \rightarrow Setting") For more details, you can check Chapter 9.5.

9.4 HTTP Event

Set up this menu for sending commands to an HTTP server. By using HTTP client function, you can send the command defined by yourself, linked with the external sensor input or with the built-in motion detection function to HTTP server. HTTP client setting menu is composed of two tabs, **General** and **Alarm sending**.

9.4.1 General

🕲 Home	
	General
SETTING	
BASIC	■ HTTP event ③ On 〇 Off
Advanced	URL
FTP client	Port 80
SMTP	User ID
🕑 Network storage	Deserverd
HTTP event	Password
General	Proxy server name
Alarm sending	Proxy port number
Schedule	Proxy user ID
Alarm buffer	Proxy password
Motion detection	
Audio detection	
System Log	

HTTP event: Set up the HTTP server URL, port, User ID, Password, and Proxy server settings.

For example: URL: 192.168.1.7/cgi-bin/operator/ptzset

Note: The setting of URL should be the same as CGI.

9.4.2 Alarm Sending

Set to send the command with connection to the alarm detection by the external sensor input or by the built-in motion detection function. Select "**On**" to send the image and audio file to HTTP server linked with the alarm detection.

🗐 Home	
SETTING	Alarm sending
BASIC	🖩 Alarm sending 💿 On 🔘 Off
Advanced	Alarm 🔲 Motion detection
FTP client	Audio detection
SMTP	Network link down
Network storage	
HTTP event	Effective Period 🔘 Always
General	Schedule Schedule
Alarm sending	
Schedule	OK Cancel
Alarm buffer	

Alarm Sending: Select **On** to set to send command with connection to the alarm detection.

Alarm

• **Motion Detection**: Click it on for using **Motion Detection** function as a sensor. You can set motion detection function at the motion detection function screen.

Note: You can set motion detection at motion detection screen. (Please go "Setting \rightarrow Advanced \rightarrow Motion Detection \rightarrow Setting") For more details, you can

BASIC	🗏 Alarm sending 💿	On 🔿 Off
Advanced	Alarm	Motion detection Motion detection
FTP client		
SMTP		Farameter move-down
Network storage		Message PTZ down
HTTP event		Audio detection
General		Network link down
Alarm sending	Effective Period	Always
Schedule		Schedule Schedule
Alarm buffer		Schedule
Motion detection		
Audio detection		OK Cancel

- ✓ **Parameter:** the parameter of CGI (defined in URL of HTTP \rightarrow General) is from your target device. For example, move=down.
- Message: message will show up in the form of Message = PTZ down.
 If your target device didn't support the parameter of message, you

can't see the message. So you can just take the message as a note. For example: PTZ down.

•Audio Detection: Click it on for using Audio Detection function as a sensor. You can set audio detection function at the audio detection function screen.

Note: You can set audio detection at audio detection screen. (Please go "Setting \rightarrow Advanced \rightarrow Audio detection \rightarrow Setting") For more details, you can check

BASIC	🗏 Alarm sending 💿	⊙ On ◯ Off
Advanced	Alarm	Motion detection
FTP client		Audio detection Audio detection
SMTP		
Network storage		Parameter move=down
HTTP event		Message PTZ down
General		Network link down
Alarm sending	Effective Period	🔿 Always
Schedule		Schedule Schedule
Alarm buffer		o onicule
Motion detection		
Audio detection		OK Cancel

- ✓ **Parameter:** the parameter of CGI (defined in URL of HTTP \rightarrow General) is from your target device. For example, move=down.
- Message: message will show up in the form of Message = PTZ down.
 If your target device didn't support the parameter of message, you can't see the message. So you can just take the message as a note.
 For example: PTZ down.
- Network Link Down: Click it on to receive a snapshot or a video clip while network link down. If Attached File Type (go "Setting → Advanced → FTP client → General") was clicked as video clip, you can using Alarm buffer function as a sensor. It's for recording audio file in the IP CAM before and after disconnected network.

Note: You can set alarm buffer at alarm buffer screen. (Please go "Setting \rightarrow Advanced \rightarrow Alarm Buffer \rightarrow Setting") For more details, you can check Chapter 9.6.

BASIC	🖩 Alarm sending 💿 On 🔘 Off
Advanced	Alarm Motion detection
FTP client	Audio detection
SMTP	
Network storage	 Network link down
HTTP event	Parameter move=down
General	Message PTZ down
Alarm sending	Effective Period 🔘 Always
Schedule	
Alarm buffer	Schedule Schedule
Motion detection	
Audio detection	OK Cancel
Parameter: the parameter of CGI (defined in URL of HTTP \rightarrow General) is from your target device. For example, move=down.

Message: message will show up in the form of Message = PTZ down.
 If your target device didn't support the parameter of message, you can't see the message. So you can just take the message as a note.
 For example: PTZ down.

> Effective Period: Set the period when the periodical sending is effective.

- •Always: The periodical sending is always effective.
- •Schedule: You can specify the period when the periodical sending is effective in the schedule setting in the other section.

Note: You can set schedule function at schedule screen. (Please go "Setting \rightarrow Advanced \rightarrow Schedule \rightarrow Setting") For more details, you can check Chapter 9.5.

9.5 Schedule

Click **Schedule** on the Advanced mode menu, the Schedule setting menu appears. This is the same menu as the setting menu which is displayed when you click **Schedule** to set Effective period and Schedule in **FTP** client, e-Mail (**SMTP**), HTTP event, Record, and Alarm out setting menu setting menu.

🕲 Home	
	Schedule
SETTING	
BASIC	Schedule selection FTP - Alarm
Advanced	Start time 00 v : 00 v - End time 24 v : 00 v FTP - Periodical
FTP client	Mon (Empty) Add Delete 0 1 2 3 4 5 e-Mail(SMIP) - Alarm 12 13 14 15 16 17 18 19 20 21 22 23 HTTP event - Alarm
SMTP	Tue (Empty) Add Delete Record - Alarm Record - Periodical
🕑 Network storage	Ved (Empty) Add Delete
HTTP event	
General	Thu (Empty) Add Delete
Alarm sending	Fri (Empty) Add Delete
Schedule	Sat (Emphalum Add Doloto
Alarm buffer	Sat (Empty) V nuu Delete
Motion detection	Sun (Empty) Add Delete
Audio detection	✓ Use the same time schedule every day.
System Log	OK Cancel

 Schedule Selection: Select the list box to specify the schedule you want to set.
 •FTP -Alarm / FTP – Periodical / E-mail (SMTP) -Alarm / E-mail (SMTP) –Periodical / HTTP Event -Alarm / Record –Alarm / Record –Periodical

> Mon (Monday) to Sun (Sunday): The time period on the right of the checked day is the effective period of the schedule.

> Start Time, End Time: Specify the Start Time and the End Time.

Use the same time schedule every day: When this is checked, the Start Time and End Time set to Mon (Monday) are applied to all days. In this case, the Start Time and End Time of the other days than Mon (Monday) cannot be input.

9.6 Alarm Buffer

When you click **Alarm Buffer** on the Advanced mode menu, the Alarm buffer setting menu appears. You can set in this menu to enable alarm buffer function connected with **FTP Client, SMTP, Network Storage, and HTTP Event.**

🕲 Home	
SETTING	Alarm buffer
BASIC	Recording capacity
Advanced	Pre-alarm period 5 Sec.
FTP client	Post-alarm period 5 Sec.
SMTP	Recording time
Network storage	Pre-alarm period 5 Sec.
HTTP event	Post-alarm period 5 Sec.
General	
Alarm sending	OK Cancel
Schedule	
Alarm buffer	
Motion detection	
Audio detection	
System Log	

Use alarm buffer function for recording audio and video file in the IP Camera before and after disconnected network. After re-connecting, these files will transmit to **FTP client, SMTP, Network storage, or HTTP event.** You can set the pre-alarm and post-alarm period up to 5 seconds in Alarm Buffer function screen.

9.7 Motion Detection

There are three Motion Detection functions as sensors to set for different detecting zones. Each one has Threshold and Sensitivity inputs which you can adjust to specific zone sequentially. Motion Detection function can support to **FTP Client**, **SMTP**, **Network Storage**, and **HTTP Event**.



- Threshold: It means the extent which the alarm will be triggered. The default value is 50 and the value range is 0~100.
- Sensitivity: It means that how often the sensor will scan the image different. The higher sensitivity it is and the more frequently it scans. The default value is 50 and the value range is 0~100.

Motion Detection 1: Click it on for using Motion Detection 1 function as a sensor. You can adjust and move the detecting zone by using mouse.
Motion Detection 2: Click it on for using Motion Detection 2 function as a sensor. You can adjust and move the detecting zone by using mouse.
Motion Detection 3: Click it on for using Motion Detection 3 function as a sensor. You can adjust and move the detecting zone by using mouse.

9.8 Audio Detection

The **Audio detection** has Threshold and Sensitivity inputs which you can adjust sequentially. Audio Detection function can support to **FTP Client, SMTP, Network Storage, and HTTP Event**.

lome	Setting
SETTING BASIC Advanced FTP client SMTP Network storage HTTP event General Alarm sending Schedule Alarm buffer Motion detection	Audio detection Threshold Sensitivity 5
Audio detection	and the second se
System Log	
< > >	OK Cancel

Click it on for using **Audio Detection** function as a sensor. You can set audio detection function at the audio detection function screen.

- Threshold: It means the extent which the alarm will be triggered. The default value is 50 and the value range is 0~100.
- Sensitivity: It means that how often the sensor will scan the image different. The higher sensitivity it is and the more frequently it scans. The default value is 5 and the value range is 1~10.

9.9 System Log

The System Log function allows users to review any changes and events happened. The system starts logging automatically after started.

lome	System Log	
SETTING BASIC Advanced FTP client SMTP Network storage HTTP event	Remote Log Enable remote log OK Cancel	
General Alarm sending Schedule Alarm buffer Motion detection Audio detection	Current Log Sep 11 13:18:48 cinfo > ALARM: NS Alarm Success Sep 11 13:19:09 cinfo > ALARM: NS Alarm Success Sep 11 13:19:32 cinfo > ALARM: NS Alarm Success Sep 11 13:19:55 cinfo > ALARM: NS Alarm Success Sep 11 13:20:18 cinfo > ALARM: NS Alarm Success Sep 11 13:20:39 cinfo > ALARM: NS Alarm Success	
System Log	Sep 11 13:21:02 clinic > ALARM: NS Alarm Success Sep 11 13:21:44 clinic > ALARM: NS Alarm Success Sep 11 13:22:07 clinic > ALARM: NS Alarm Success Sep 11 13:22:28 clinic > ALARM: NS Alarm Success Sep 11 13:22:26 clinic > ALARM: NS Alarm Success Sep 11 13:22:26 clinic > ALARM: NS Alarm Success Sep 11 13:22:26 clinic > ALARM: NS Alarm Success Sep 11 13:23:26 clinic > ALARM: NS Alarm Success Sep 11 13:23:26 clinic > ALARM: NS Alarm Success Sep 11 13:23:26 clinic > ALARM: NS Alarm Success Sep 11 13:23:56 clinic > ALARM: NS Alarm Success Sep 11 13:24:18 clinic > ALARM: NS Alarm Success Sep 11 13:24:41 clinic > ALARM: NS Alarm Success Sep 11 13:24:42 clinic > ALARM: NS Alarm Success Sep 11 13:25:03 clinic > ALARM: NS Alarm Success Sep 11 13:25:24 clinic > ALARM: NS Alarm Success Sep 11 13:25:46 clinic > ALARM: NS Alarm Success	

> Enable Remote Log: Enables user to send the log data to a specified log server.

CHAPTER 10. APPENDIX

A. Frame-rate and Bitrate Table – Help to set IPCamera with your network environment to access Internet.

Base on your network upload environment to choose the suitable Image-Quality setting. For example, if the network environment is ADSL 256Kb(upload) / 2Mb(download), the most fluent Image-Quality needs to set up under 256 Kb situation.

A.1 CMOS Mega Model

A.1.1 H.264 @ 15fps / kbps

-				
Quality	1280*1024	1280*720	640*480	320*240
Excellent	2800	1900	300	90
Detailed	1700	1300	200	75
Good	1300	900	170	60
Standard	800	600	150	55
Medium	600	450	130	45

A.1.2 H.264 @ 10fps / kbps

~				
Quality	1280*1024	1280*720	640*480	320*240
Excellent	1900	1400	250	70
Detailed	1200	900	180	60
Good	900	650	160	55
Standard	650	450	130	50
Medium	450	350	120	40

A.1.3 H.264 / kbps, fps

Imaga Siza	Bitrate	Frame-Rate	Current	Current
image-Size	Setting	Setting	Bitrate	Frame-Rate
1280*1024	6144	15	6300	15
1280*1024	6144	10	6300	10
1280*1024	2048	15	2200	15
1280*1024	2048	10	2200	10
1280*1024	512	15	550	15
1280*1024	512	10	550	10
1280*720	6144	15	6300	15
1280*720	6144	10	6300	10
1280*720	2048	15	2200	15
1280*720	2048	10	2200	10
1280*720	512	15	550	15
1280*720	512	10	550	10
640*480	6144	15	6300	15
640*480	6144	10	6300	10
640*480	2048	15	2200	15
640*480	2048	10	2200	10

ALL2205 User Manual

640*480	512	15	550	15
640*480	512	10	550	16
320*240	6144	15	5100	15
320*240	6144	10	3600	10
320*240	2048	15	2200	15
320*240	2048	10	2200	10
320*240	512	15	550	15
320*240	512	10	550	10

A.1.4 MPEG 4@ 15fps / kbps

Quality	1280*1024	1280*720	640*480	320*240
Excellent	3800	3000	600	130
Detailed	2900	2200	450	110
Good	1800	1400	300	90
Standard	1200	900	250	70
Medium	900	600	200	60

A.1.5 MPEG4@ 10fps / kbps

Quality	1280*1024	1280*720	640*480	320*240
Excellent	3000	2300	500	110
Detailed	2200	1600	400	100
Good	1400	1100	250	80
Standard	950	700	200	65
Medium	700	550	180	50

A.1.6 MPEG4 / kbps, fps

Imago Sizo	Quality	Frame-Rate	Current	Current
inage-Size	Setting	Setting	Bitrate	Frame-Rate
1280*1024	6144	15	5200	12
1280*1024	6144	10	6300	10
1280*1024	2048	15	2200	15
1280*1024	2048	10	2200	10
1280*1024	512	15	550	15
1280*1024	512	10	550	10
1280*720	6144	15	6300	15
1280*720	6144	10	6300	10
1280*720	2048	15	2200	15
1280*720	2048	10	2200	10
1280*720	512	15	550	15
1280*720	512	10	550	10
640*480	6144	15	6300	15
640*480	6144	10	6300	10
640*480	2048	15	2200	15
640*480	2048	10	2200	10
640*480	512	15	550	15
640*480	512	10	550	10
320*240	6144	15	2200	15
320*240	6144	10	1800	10
320*240	2048	15	2200	15
320*240	2048	10	1800	10

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ALL2205 User Manual

320*240	512	15	550	15
320*240	512	10	550	10

A.1.7 MJPEG @ 15fps / kbps

Quality	1280*1024	1280*720	640*480	320*240
Excellent	17500	16000	7800	2600
Detailed	12000	9500	4000	1500
Good	10000	6800	2900	1100
Standard	7000	5100	2200	800
Medium	4300	3200	1400	500

A.1.8 MJPEG@ 10fps / kbps

-				
Quality	1280*1024	1280*720	640*480	320*240
Excellent	16000	14500	5500	1700
Detailed	9000	6500	2700	1000
Good	6500	4700	2000	800
Standard	4700	3500	1500	600
Medium	2800	2200	1000	350

A.1.9 MJPEG / kbps, fps

Imaga Siza	Quality	Frame-Rate	Current	Current
inage-Size	Setting	Setting	Bitrate	Frame-Rate
1280*1024	Excellent	15	17500	8
1280*1024	Excellent	10	16000	8
1280*1024	Good	15	10000	15
1280*1024	Good	10	6500	10
1280*1024	Medium	15	4300	15
1280*1024	Medium	10	2800	10
1280*720	Excellent	15	16000	12
1280*720	Excellent	10	14500	10
1280*720	Good	15	6800	15
1280*720	Good	10	4700	10
1280*720	Medium	15	3200	15
1280*720	Medium	10	2200	10
640*480	Excellent	15	7800	15
640*480	Excellent	10	5500	10
640*480	Good	15	2900	15
640*480	Good	10	2000	10
640*480	Medium	15	1400	15
640*480	Medium	10	1000	10
320*240	Excellent	15	2600	15
320*240	Excellent	10	1700	10
320*240	Good	15	1100	15
320*240	Good	10	800	10
320*240	Medium	15	500	15
320*240	Medium	10	350	10

A.2 VGA Model

A.2.1 H.264 @ 30fps / kbps

Quality	640*480	320*240
Excellent	800	120
Detailed	450	100
Good	300	70
Standard	200	60
Medium	180	50

A.2.2 H.264@15 fps / kbps

Quality	640*480	320*240
Excellent	500	100
Detailed	300	80
Good	250	60
Standard	180	55
Medium	150	50

A.2.3 H.264 / kbps, fps

Imaga Siza	Bitrate	Frame-Rate	Current	Current
inage-Size	Setting	Setting	Bitrate	Frame-Rate
640*480	6144	30	6300	30
640*480	6144	15	6300	15
640*480	2048	30	2200	30
640*480	2048	15	2200	15
640*480	512	30	550	30
640*480	512	15	550	15
320*240	6144	30	6300	30
320*240	6144	15	5500	15
320*240	2048	30	2200	30
320*240	2048	15	2200	15
320*240	512	30	550	30
320*240	512	15	550	15

A.2.4 MPEG4 @ 30fps / kbps

Quality	640*480	320*240
Excellent	1400	250
Detailed	1000	160
Good	600	120
Standard	400	90
Medium	300	80

A.2.5 MPEG4@ 15fps / kbps

Quality	640*480	320*240
Excellent	900	180
Detailed	650	140
Good	450	100
Standard	300	80
Medium	200	70

A.2.6 MPEG4 / kbps, fps

Imaga Ciza	Bitrate	Frame-Rate	Current	Current
image-Size	Setting	Setting	Bitrate	Frame-Rate
640*480	6144	30	6300	30
640*480	6144	15	6300	15
640*480	2048	30	2200	30
640*480	2048	15	2200	15
640*480	512	30	550	30
640*480	512	15	550	15
320*240	6144	30	5100	30
320*240	6144	15	2800	15
320*240	2048	30	2200	30
320*240	2048	15	2200	15
320*240	512	30	550	30
320*240	512	15	550	15

A.2.7. MJPEG @ 30fps / kbps

640*480	320*240
15000	5000
7500	2800
5500	2000
4200	1600
2600	1000
	640*480 15000 7500 5500 4200 2600

A.2.8. MJPEG@ 15fps / kbps

Quality	640*480	320*240
Excellent	7500	2600
Detailed	3800	1500
Good	2800	1200
Standard	2100	850
Medium	1400	500

A.2.9. MJPEG / kbps, fps

Imaga Siza	Bitrate	Frame-Rate	Current	Current
inage-Size	Setting	Setting	Bitrate	Frame-Rate
640*480	Excellent	30	15000	30
640*480	Excellent	15	7500	15
640*480	Good	30	5500	30
640*480	Good	15	2800	15
640*480	Medium	30	2600	30
640*480	Medium	15	1400	15
320*240	Excellent	30	5000	30
320*240	Excellent	15	2600	15
320*240	Good	30	2000	30
320*240	Good	15	1200	15
320*240	Medium	30	1000	30
320*240	Medium	15	500	15

B. Storage Requirement Table - Help to set Recording Storage System.

Please refer to the following table to find out the capability for recording into your hard disk.

B.1 Mega Model

•	. 11.204 Olorage riequirement GD7 channer/ day @ 101p3					
	Quality	1280*1024	1280*720	640*480	320*240	
	Excellent	232.4	157.7	24.9	7.5	
	Detailed	141.4	107.9	16.6	6.3	
	Good	107.9	74.7	14.2	5	
	Standard	66.4	49.8	12.5	4.6	
	Medium	49.8	37.4	10.8	3.8	

B.1.1. H.264 Storage Requirement GB / channel / day @ 15fps

B.1.2. H.264 Storage Requirement GB / channel / day @ 10fps

Quality	1280*1024	1280*720	640*480	320*240
Excellent	157.7	116.2	20.8	5.9
Detailed	99.6	74.7	15	5
Good	74.7	54	13.3	4.7
Standard	54	37.4	10.8	4.2
Medium	37.4	29.1	10	3.4

B.1.3. MPEG4 Storage Requirement GB / channel / day

Imago Sizo	Bitrato Sotting	Frame-Rate	Storage
inage-oize	Dillate Setting	Setting	Requirement
1280*1024	6144	15	522.9
1280*1024	6144	10	522.9
1280*1024	2048	15	182.6
1280*1024	2048	10	182.6
1280*1024	512	15	45.7
1280*1024	512	10	45.7
1280*720	6144	15	522.9
1280*720	6144	10	522.9
1280*720	2048	15	182.6
1280*720	2048	10	182.6
1280*720	512	15	45.7
1280*720	512	10	45.7
640*480	6144	15	522.9
640*480	6144	10	522.9
640*480	2048	15	182.6
640*480	2048	10	182.6
640*480	512	15	45.7
640*480	512	10	45.7
320*240	6144	15	423.3
320*240	6144	10	298.8
320*240	2048	15	182.6
320*240	2048	10	182.6
320*240	512	15	45.7
320*240	512	10	45.7

B.1.4. MPEG4 Storage Requirement GB / channel / day @ 15fps

Quality	1280*1024	1280*720	640*480	320*240	
Excellent	315.4	249	49.8	10.8	
Detailed	240.7	182.6	37.4	9.2	
Good	149.4	116.2	24.9	7.5	
Standard	99.6	74.7	20.8	5.9	
Medium	74.7	49.8	16.6	5	

B.1.5. MPEG4 Storage Requirement GB / channel / day @ 10fps

	<u> </u>			
Quality	1280*1024	1280*720	640*480	320*240
Excellent	249	190.9	41.5	9.2
Detailed	182.6	132.8	33.2	8.3
Good	116.2	91.3	20.8	6.7
Standard	78.9	58.1	16.6	5.4
Medium	58.1	45.7	14.5	4.2

B.1.6. MPEG4 Storage Requirement GB / channel / day

Imaga Siza	Quality Satting	Frame-Rate	Storage
inage-Size		Setting	Requirement
1280*1024	6144	15	431.6
1280*1024	6144	10	522.9
1280*1024	2048	15	182.6
1280*1024	2048	10	182.6
1280*1024	512	15	45.7
1280*1024	512	10	45.7
1280*720	6144	15	522.9
1280*720	6144	10	522.9
1280*720	2048	15	182.6
1280*720	2048	10	182.6
1280*720	512	15	45.7
1280*720	512	10	45.7
640*480	6144	15	522.9
640*480	6144	10	522.9
640*480	2048	15	182.6
640*480	2048	10	182.6
640*480	512	15	45.7
640*480	512	10	45.7
320*240	6144	15	182.6
320*240	6144	10	149.4
320*240	2048	15	182.6
320*240	2048	10	149.4
320*240	512	15	45.7
320*240	512	10	45.7

B.2 VGA Model

B.2.1. H.264 Storage Requirement GB / channel / day @ 30fps

J 1	,	
Quality	640*480	320*240
Excellent	66.4	10
Detailed	37.4	8.3
Good	24.9	5.9
Standard	16.6	5
Medium	15	4.2

B.2.2. H.264 Storage Requirement GB / channel / day @ 15fps

Quality	640*480	320*240
Excellent	41.5	8.3
Detailed	24.9	6.7
Good	20.8	5
Standard	15	4.6
Medium	12.5	4.2

B.2.3. H.264 Storage Requirement GB / channel / day

Imago Sizo	Bitrate	Frame-Rate	Current	Storage
inage-Size	Setting	Setting	Bitrate	Requirement
640*480	6144	30	6300	522.9
640*480	6144	15	6300	522.9
640*480	2048	30	2200	182.6
640*480	2048	15	2200	182.6
640*480	512	30	550	45.7
640*480	512	15	550	45.7
320*240	6144	30	6300	522.9
320*240	6144	15	5500	456.5
320*240	2048	30	2200	182.6
320*240	2048	15	2200	182.6
320*240	512	30	550	45.7
320*240	512	15	550	45.7

B.2.4. MPEG4 Storage Requirement GB / channel / day @ 30fps

Quality	640*480	320*240
Excellent	116.2	20.8
Detailed	83	13.3
Good	49.8	10
Standard	33.2	7.5
Medium	24.9	6.7

B.2.5. MPEG4 Storage Requirement GB / channel / day @ 15fps

Quality	640*480	320*240
Excellent	74.7	15
Detailed	54	11.7
Good	37.4	8.3
Standard	25	6.7
Medium	16.6	5.9

			a.j	
Imaga Siza	Bitrate	Frame-Rate	Current	Storage
inage-Size	Setting	Setting	Bitrate	Requirement
640*480	6144	30	6300	522.9
640*480	6144	15	6300	522.9
640*480	2048	30	2200	182.6
640*480	2048	15	2200	182.6
640*480	512	30	550	45.7
640*480	512	15	550	45.7
320*240	6144	30	5100	423.3
320*240	6144	15	2800	232.4
320*240	2048	30	2200	182.6
320*240	2048	15	2200	182.6
320*240	512	30	550	45.7
320*240	512	15	550	45.7

B.2.6. MJPEG Storage Requirement GB / channel / day

C. System Requirement – Help to setup System

C.1. 16 Channel IP Camera with CIF Performance

Equipment Configuration

Software:	MainConsole Version 2.6.4 Professional
CPU:	Intel Core 2 Quad Q6600 @ 2400 MHz
Memory:	1024 MB (2 x 512 DDR2-SDRAM)
Ethernet:	Marvell Yukon 88E8052 PCI-E ASF Gigabit Ethernet Controller
Hard Disk:	ST3250620A (250 GB)
Graphic card:	ATI Technologies Inc Radeon X1300 Series
Operating System:	Windows XP Professional SP2

Results from Test with a Resolution of 352×240

320x240	Quality	Frame Rate	CPU Load	Bandwidth
16 IP camera	Good	20	65%	40~50 Mbps
16 IP camera	Excellent	20	67%	40~50 Mbps

C.2. 16 Channel IP Camera with D1 Performance

Equipment Configuration

Software:	MainConsole Version 2.6.4 Professional
CPU:	AMD Athlon 64*2 @3600+MHz
Memory:	2048 MB (2 x 1024 DDR2-SDRAM)
Ethernet:	VIA Rhine II Fast Ethernet Adapter
Hard Disk:	ST3250620A (250 GB)
Graphic card:	ATI Technologies Inc EAX1600 Series
Operating System:	Windows XP Professional SP2 x64

Glossary of Terms

NUMBERS	
10BASE-T	10BASE-T is Ethernet over UTP Category III, IV, or V unshielded twisted-pair media.
100BASE-TX	The two-pair twisted-media implementation of 100BASE-T is called 100BASE-TX.
A	
ADPCM	Adaptive Differential Pulse Code Modulation, a new technology improved from PCM, which encodes analog sounds to digital form.
AMR	AMR (Adaptive Multi-Rate) is an audio data compression scheme optimized for speech coding, which is adopted as the standard speech codec by 3GPP.
Applet	Applets are small Java programs that can be embedded in an HTML page. The rule at the moment is that an applet can only make an Internet connection to the computer form that the applet was sent.
ASCII	American Standard Code For Information Interchange, it is the standard method for encoding characters as 8-bit sequences of binary numbers, allowing a maximum of 256 characters.
ARP	Address Resolution Protocol. ARP is a protocol that resides at the TCP/IP Internet layer that delivers data on the same network by translating an IP address to a physical address.
AVI	Audio Video Interleave, it is a Windows platform audio and video file type, a common format for small movies and videos.
В	
BOOTP	Bootstrap Protocol is an Internet protocol that can automatically configure a network device in a diskless workstation to give its own IP address.
С	
Communication	Communication has four components: sender, receiver, message, and medium. In networks, devices and application tasks and processes communicate messages to each other over media. They represent the sender and receivers. The data they send is the message. The cabling or transmission method they use is the medium.
Connection	In networking, two devices establish a connection to communicate with each other.
-	
D	
DHCP	Developed by Microsoft, DHCP (Dynamic Host Configuration Protocol) is a protocol for assigning dynamic IP addresses to devices on a network. With dynamic addressing, a device can have a different IP address every time it connects to the network. In some systems, the device's IP address can even change while it is still connected. It also supports a mix of static and dynamic IP addresses. This simplifies the task for network administrators because the software keeps track of IP addresses rather than requiring an administrator to manage the task. A new computer can be added to a network without the hassle of manually assigning it a unique IP address. DHCP allows the specification for the service provided by a router, gateway, or other network device that automatically assigns an IP address to any device that requests one.
DNS	Domain Name System is an Internet service that translates domain names into IP addresses. Since domain names are alphabetic, they're easier to remember. The Internet however, is really based on IP addresses every time you use a domain name the DNS will translate the name into the corresponding IP address. For example, the domain name <i>www.network_camera.com</i> might translate to <i>192.167.222.8</i> .
<u>E</u>	
Enterprise network	An enterprise network consists of collections of networks connected to each other over a geographically dispersed area. The enterprise network serves the needs of a widely distributed company and operates the company's mission-critical applications.
Ethernet	The most popular LAN communication technology. There are a variety of types of Ethernet, including 10Mbps (traditional Ethernet), 100Mbps (Fast Ethernet), and 1,000Mbps (Gigabit Ethernet). Most Ethernet networks use Category 5 cabling to carry information, in the form of electrical signals, between devices. Ethernet is an implementation of CSMA/CD that operates in a bus or star topology.

<u>F</u>	
Fast Ethernet	Fast Ethernet, also called 100BASE-T, operates at 10 or 100Mbps per second over UTP, STP, or fiber-optic media.
Firewall	Firewall is considered the first line of defense in protecting private information. For better security, data can be encrypted. A system designed to prevent unauthorized access to or from a private network. Firewalls are frequently used to prevent unauthorized Internet users from accessing private networks connected to the Internet, especially Intranets all messages entering or leaving the intranet pass through the firewall, which examines each message and blocks those that do not meet the specified security criteria.
G	
Gateway	A gateway links computers that use different data formats together.
Group	Groups consist of several user machines that have similar characteristics such as being in the same department.
H	
HEX	Short for hexadecimal refers to the base-16 number system, which consists of 16 unique symbols: the numbers 0 to 9 and the letters A to F. For example, the decimal number 15 is represented as F in the hexadecimal numbering system. The hexadecimal system is useful because it can represent every byte (8 bits) as two consecutive hexadecimal digits. It is easier for humans to read hexadecimal numbers than binary numbers.
Ī	
Intranet	This is a private network, inside an organization or company that uses the same software you will find on the public Internet. The only difference is that an Intranet is used for internal usage only.
Internet	The Internet is a globally linked system of computers that are logically connected based on the Internet Protocol (IP). The Internet provides different ways to access private and public information worldwide.
Internet address	To participate in Internet communications and on Internet Protocol-based networks, a node must have an Internet address that identifies it to the other nodes. All Internet addresses are IP addresses
IP	Internet Protocol is the standard that describes the layout of the basic unit of information on the Internet (the <i>packet</i>) and also details the numerical addressing format used to route the information. Your Internet service provider controls the IP address of any device it connects to the Internet. The IP addresses in your network must conform to IP addressing rules. In smaller LANs, most people will allow the DHCP function of a router or gateway to assign the IP addresses on internal networks.
IP address	IP address is a 32-binary digit number that identifies each sender or receiver of information that is sent in packets across the Internet. For example 80.80.80.69 is an IP address. When you "call" that number, using any connection methods, you get connected to the computer that "owns" that IP address.
ISP	ISP (Internet Service Provider) is a company that maintains a network that is linked to the Internet by way of a dedicated communication line. An ISP offers the use of its dedicated communication lines to companies or individuals who can't afford the high monthly cost for a direct connection.
J JAVA	Java is a programming language that is specially designed for writing programs that can be safely downloaded to your computer through the Internet without the fear of viruses. It is an object-oriented multi-thread programming best for creating applets and applications for the Internet, Intranet and other complex, distributed network.
L LAN	Local Area Network a computer network that spans a relatively small area sharing common resources. Most LANs are confined to a single building or group of buildings.
м	
MJPEG	MJPEG (Motion JPEG) composes a moving image by storing each frame of a moving picture sequence in JPEG compression, and then decompressing and displaying each frame at rapid speed to show the moving picture.
MPEG4	MPEG4 is designed to enable transmission and reception of high-quality audio and video over the Internet and next-generation mobile telephones.
	87

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NAT	Network Address Translator generally applied by a router that makes many different IP addresses on an internal network appear to the Internet as a single address. For routing messages properly within your network, each device requires a unique IP address. But the addresses may not be valid outside your network. NAT solves the problem. When devices within your network request information from the Internet, the requests are forwarded to the Internet under the router's IP address. NAT distributes the responses to the proper IP addresses within your network.
Network	A network consists of a collection of two or more devices, people, or components that communicate with each other over physical or virtual media. The most common types of network are: LAN – (local area network): Computers are in close distance to one another. They are usually in the same office space, room, or building.
	WAN – (wide area network): The computers are in different geographic locations and are connected by telephone lines or radio waves.
NWay Protocol	A network protocol that can automatically negotiate the highest possible transmission speed between two devices.

	P
k	<u> </u>

Ν

- **PCM** PCM (Pulse Code Modulation) is a technique for converting analog audio signals into digital form for transmission.
- **PING** Packet Internet Groper, a utility used to determine whether a specific IP address is accessible. It functions by sending a packet to the specified address and waits for a reply. It is primarily used to troubleshoot Internet connections.
- **PPPoE** Point-to-Point Protocol over Ethernet. PPPoE is a specification for connecting the users on an Ethernet to the Internet through a common broadband medium, such as DSL or cable modem. All the users over the Ethernet share a common connection.
- **Protocol** Communication on the network is governed by sets of rules called protocols. Protocols provide the guidelines devices use to communicate with each other, and thus they have different functions. Some protocols are responsible for formatting and presenting and presenting data that will be transferred from file server memory to the file server's net work adapter Others are responsible for filtering information between networks and forwarding data to its destination. Still other protocols dictate how data is transferred across the medium, and how servers respond to workstation requests and vice versa. Common network protocols responsible for the presentation and formatting of data for a network operating system are the Internetwork Packet Exchange (IPX) protocol or the Internet Protocol (IP). Protocols that dictate the format of data for transferors the medium include token-passing and Carrier Sense Multiple Access with Collision Detection (CSMA/CD), implemented as token-ring, ARCNET, FDDI, or Ethernet. The Router Information Protocol (RIP), a part of the Transmission Control Protocol/Internet Protocol (TCP/IP) suite, forwards packets from one network to another using the same network protocol.

<u>R</u>

RJ-45	RJ-45 connector is used for Ethernet cable connections.
Router	A router is the network software or hardware entity charged with routing packets between networks.
RTP	RTP (Real-time Transport Protocol) is a data transfer protocol defined to deliver live media to the clients at the same time, which defines the transmission of video and audio files in real time for Internet applications.
RTSP	RTSP (Real-time Streaming Protocol) is the standard used to transmit stored media to the client(s) at the same time, which provides client controls for random access to the content stream.
<u>S</u>	
Server	It is a simple computer that provides resources, such as files or other information.
SIP	SIP (Session Initiated Protocol) is a standard protocol that delivers the real-time communication for Voice over IP (VoIP), which establishes sessions for features such as audio and video conferencing.
SMTP	The Simple Mail Transfer Protocol is used for Internet mail.
SNMP	Simple Network Management Protocol. SNMP was designed to provide a common foundation for managing network devices.
Station	In LANs, a station consists of a device that can communicate data on the network. In FDDI, a station includes both physical nodes and addressable logical devices. Workstations, single-attach stations, dual-attach stations, and concentrators are FDDI stations.
Subnet mask	In TCP/IP, the bits used to create the subnet are called the subnet mask.

ALL2205 User Manual

<u></u>	
(TCP/IP)	Transmission Control Protocol/Internet Protocol is a widely used transport protocol that connects diverse computers of various transmission methods. It was developed y the Department of Defense to connect different computer types and led to the development of the Internet.
Transceiver	A transceiver joins two network segments together. Transceivers can also be used to join a segment that uses one medium to a segment that uses a different medium. On a 10BASE-5 network, the transceiver connects the network adapter or other network device to the medium. Transceivers also can be used on 10BASE-2 or 10BASE-T networks to attach devices with AUI ports
<u>U</u>	
UDP	The User Datagram Protocol is a connectionless protocol that resides above IP in the TCP/IP suite
User Name	The USERNAME is the unique name assigned to each person who has access to the LAN.
Utility	It is a program that performs a specific task.
UTP	Unshielded twisted-pair. UTP is a form of cable used by all access methods. It consists of several pairs of wires enclosed in an unshielded sheath.
W	
WAN	Wide-Area Network. A wide-area network consists of groups of interconnected computers that are separated by a wide distance and communicate with each other via common carrier telecommunication techniques.
WAN	 Wide-Area Network. A wide-area network consists of groups of interconnected computers that are separated by a wide distance and communicate with each other via common carrier telecommunication techniques. WEP is widely used as the basic security protocol in Wi-Fi networks, which secures data transmissions using 64-bit or 128-bit encryption.
WAN WEP Windows	 Wide-Area Network. A wide-area network consists of groups of interconnected computers that are separated by a wide distance and communicate with each other via common carrier telecommunication techniques. WEP is widely used as the basic security protocol in Wi-Fi networks, which secures data transmissions using 64-bit or 128-bit encryption. Windows is a graphical user interface for workstations that use DOS.
WAN WEP Windows WPA	 Wide-Area Network. A wide-area network consists of groups of interconnected computers that are separated by a wide distance and communicate with each other via common carrier telecommunication techniques. WEP is widely used as the basic security protocol in Wi-Fi networks, which secures data transmissions using 64-bit or 128-bit encryption. Windows is a graphical user interface for workstations that use DOS. WPA (Wi-Fi Protected Access) is used to improve the security of Wi-Fi networks, replacing the current WEP standard. It uses its own encryption, Temporal Key Integrity Protocol (TKIP), to secure data during transmission.

ALL2205 User Manual



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EC – Declaration of conformity

For the following product

ALL2205 Megapixel Fixed WLAN IP Camera



This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

The ALL2205 Megapixel Fixed WLAN IP Camera conforms to the 73/23/EEC Low Voltage Equipment directive, amended by 93/68/EEC

This equipment meets the following conformance standards:

EN 60950-1: 2001 EN 50392: 2004 EN 300 328 V1.6.1 (2004-11)

EN 301 489-17 V1.2.1 (2002-08) EN 301 489-1 V1.5.1 (2004-11)

This equipment is intended to be operated in all countries. This declaration is made by

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and can be downloaded from http://www.allnet.de/ce-certificates/

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ALLNET GmbH Maistraße 2 82110 Germering

Tel.: +49 89 / 894 222 22

Fax: +49 89 / 894 222 33

sales@allnet.de www.allnet.de

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Manufacturer: ALLNET GmbH



ALLNET Deutschland GmbH Maistrasse 2 82110 Germering Tel. +49 89 894 222 22 Fax +49 89 894 222 33 E-Mail: info@allnet.de

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