

USER MANUAL

MEGA-PIXEL IP CAMERA





I. Preface

With this progressive scan CCD Mega-Pixel IP camera & web server built in. User can view video via IE browser. It supports MPEG-4 & JPEG video compression which provides smooth and high video quality.

With user friendly interface, it is an easy-to-use IP camera which is designed for security application.

II. Product Specifications

- Mega-Pixel (SXGA Resolution)
- Power over Ethernet (option)
- True Day/ Night Function
- Mechanism IR Cut Filter available
- MPEG4/ MJPEG Compression Format
- 2-way audio
- Support Cell phone/PDA/3GPP
- Dual Streaming
- SDK for Software Integration

lacksquare

Free Bundle 36 Channel Recording Software

Specifications

Specifications		
Hardware		
CPU	ARM 9 ,32 bit RISC	
RAM	64MB	
ROM	16MB	
Image sensor	1/3" SONY Progressive CCD	
Sensitivity		
Lens Type	CS Mount	
Support DC IRIS	Yes	
ICR	Mechanism IR Cut Filter	



I/O	2 in/ 2out	
RS-485	Yes	
Video Out	1	
Mode	Test mode: Video ON Network OFF	
	Normal mode: Network ON	
Microphone	Built-in	
Audio Out	1	
Power over Ethernet	Yes	
Power Consumption	LAN: DC 12V, 450mA	
Operating Temperature	-10 °C ~45 °C	
Dimensions (WxHxD)	65 x 58 x 131.5 mm	
Weight	450a	
Network		
Ethernet	10/ 100 Base-T	
Network Protocol	HTTP, TCP/ IP, SMTP, FTP, PPPoE, DHCP,	
	DDNS, NTP , 3GPP	
System		
Video Resolution	MJPEG: 1280x960, 640x480	
	MPEG4: 640x480, 320x240, 160x120	
Video adjust	Brightness, Contrast, Saturation, Hue	
Dual Streaming	Yes	
CCD Setting	AES, BLC, AGC, Day/ Night (Auto)	
Image snapshot	Yes	
Full screen monitoring	Yes	
Compression format	MPEG-4/ MJPEG	
Motion Detection	Yes, 3 different areas	
Triggered Action	Mail, FTP	
Pre/ Post alarm	Yes, configurable	
Security	Password protection	
Firmware upgrade	HTTP mode, can be upgraded remotely	
Simultaneous connection	Up to 10	
Audio	Yes, 2-way (Duplex Support)	
Addio	1 163, 2-way (Dublex Support)	



IV. Live Video

Start a IE browser, type the IP address of the IP camera in the address field. It will show the following dialogue box. Key-in the user name and password. The default user name and password are "admin" and "admin".



When connect to the IP CAMERA • The following program interface shows.



1.

: Get into the administration page





2. Video Snapshot

- 3. Shows how many people connect to this IP camera
- 4. Show system time, video resolution, and video refreshing rate
- 5. IP CAMERA supports 2-way audio. Click the "Chatting" check box. Then you can use microphone which connect to the PC to talk to server side, which is IP CAMERA side.
- 6. Control the relay which is connected to this camera.

Double-click the video, it will change to full screen mode. Press "Esc" or double-click the video again, it will change back to normal mode.

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



- 1. Snapshot: Save a JPEG picture
- 2. Record Start: Record the video in the local PC. It will ask you where to save the video. To stop recording, right-click the mouse again. Select "Record Stop". The video format is AVI. Use Microsoft Media Player to play the recorded file.
- 3. Mute: Turn of the audio. Click again to turn on it.
- 4. Full Screen: Full-screen mode.



V. Configuration

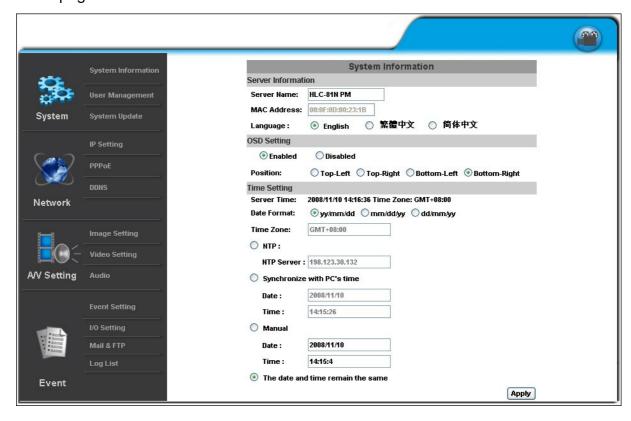


to get into the administration page. Click



to go back to the live

video page.





A.System

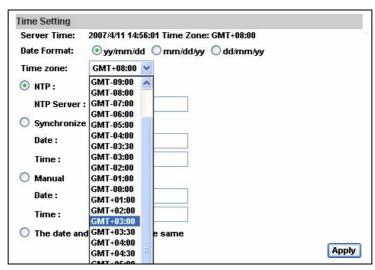
- i . System Information
 - a. Server Information: Set up the camera name, select language, and set up the camera time.
 - Server Name: This is the Camera name. This name will show on the IP Installer.
 - 2. Select language: There are English, Traditional Chinese, and Simplified Chinese to select. When change, it will show the following dialogue box for the confirmation of changing language.



b. OSD Setting: select a position where date & time showing on screen.



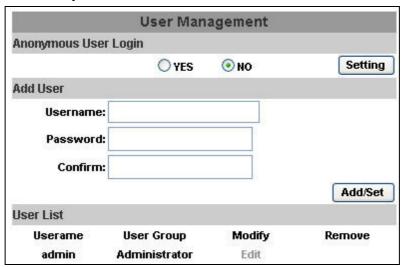
c. Server time setting: Select options to set up time - "NTP", "Synchronize with PC's time", "Manual", "The date and time remain the same".



ii Vuser Management



IP CAMERA supports three different users, administrator, general user, and anonymous user.



a. Anonymous User Login:

Yes: Allow anonymous login

No: Need user name & password to access this IP camera

b. Add user:

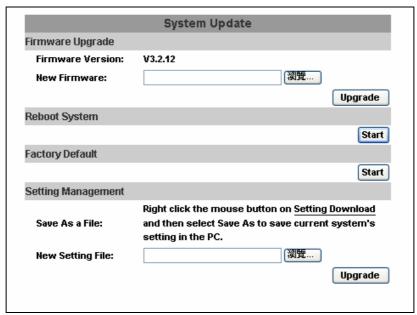
Type the user name and password, then click "Add/Set".

c. Click "edit" or "delete" to modify the user.





iii . System update:



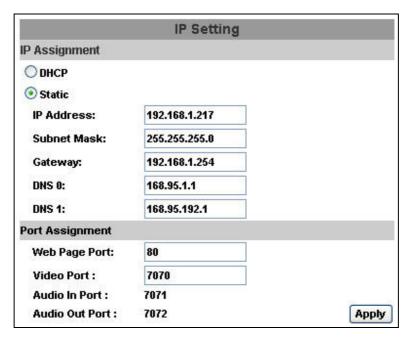
- a. To update the firmware online, click "Browse..." to select the firmware. Then click "Upgrade" to proceed.
- b. Reboot system: re-start the IP camera
- c. Factory default: delete all the settings in this IP camera.
- d. Setting Management: User may download the current setting to PC, or upgrade from previous saved setting.
 - Setting download:
 Right-click the mouse button on Setting Download → Select
 "Save AS..." to save current IP CAM setting in PC → Select
 saving directory → Save
 - Upgrade from previous setting
 Browse → search previous setting → open → upgrade →
 Setting update confirm → click <u>index.html</u>. to return to main page



B.Network

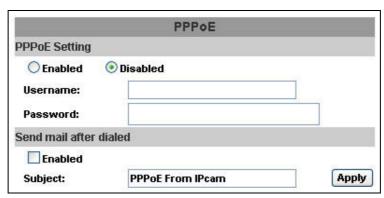
i . IP Setting

IP Camera supports DHCP and static IP.



- a. DHCP: Using DHCP, IP CAMERA will get all the network parameters automatically.
- b. Static IP: Please type in IP address, subnet mask, gateway, and DNS manually.
- c. Port Assignment: user may need to assign different port to avoid conflict when setting up IP assignment.

ii 、 PPPoE:



Select "Enabled" to use PPPoE.

Key-in Username and password for the ADSL connection.

Send mail after dialed: When connect to the internet, it will send a mail

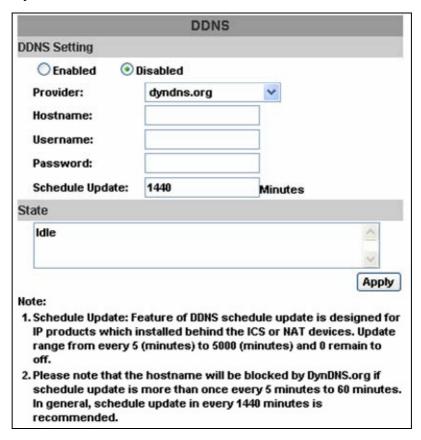


to a specific mail account. For the mail setting, please refer to "Mail and FTP" settings.

iii . DDNS:

It supports DDNS (Dynamic DNS) service.

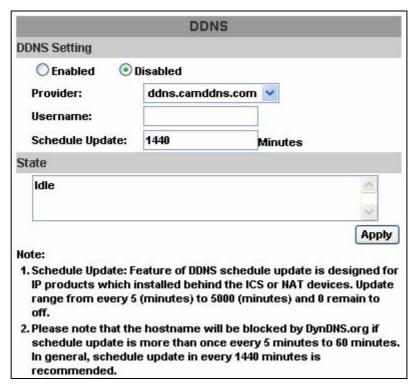
a. DynDNS:



- 1. Enable this service
- 2. Key-in the DynDNS server name, user name, and password.
- 3. Set up the IP Schedule update refreshing rate.
- 4. Click "Apply"
- 5. If setting up IP schedule update too frequently, the IP may be blocked. In general, schedule update every day (1440 minutes) is recommended.



b. Camddns service:



- 1. Please enable this service
- 2. Key-in user name.
- 3. IP Schedule update is default at 5 minutes
- 4. Click "Apply".

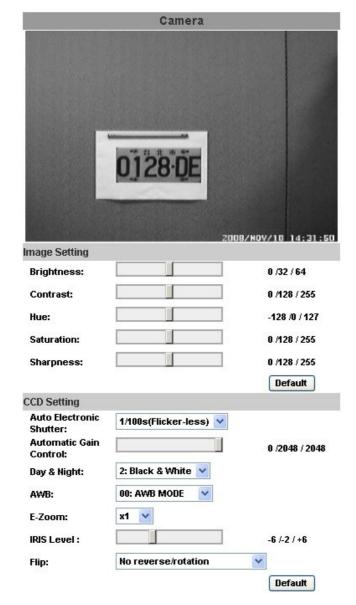
c. DDNS Status

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



C.A/V Setting

i . Image Setting



Adjust "Brightness", "Contrast", "Hue", "Saturation" and "Sharpness" to get clear video.

Automatic gain control, night mode, and IRIS Level are adjustable as well in CCD setting.

ii Video Setting

JPEG Setting: Basic mode.

MPEG-4 Setting: Basic mode, Advanced mode, and 3GPP mode.



a. JPEG Setting:



1. Resolution:

There are 2 resolutions to choose.



2. Quality:

There are 5 levels to adjust:

Best/ High/ Standard/ Medium/ Low

The higher the quality is, the bigger the file size is.

Also not good for internet transmitting

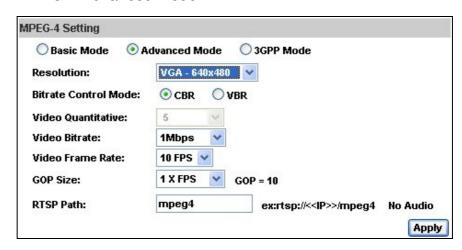
3. Video Frame Rate

Picture display frame per second

Max 30 frames/second (1280x960 Max FPS :15)

4. Access Name: RTSP output name

b. MPEG-4 Advanced Mode:





1. Resolution:

There are 3 resolutions to choose.



2. Bitrate Control Mode

There are CBR (Constant Bit Rate) and VBR (Variable Bit Rate) to use.

CBR: 32Kbps~2Mbps – Increase CBR to increase the picture qulity; vise versa

VBR: 1(Low)~10(High) – Compression rate, the higher the compression rate, the lower the picture quality is; vise versa. The balance between VBR and network bandwidth will affect picture quality. Please carefully select the VBR rate to avoid picture breaking up or lagging.

Video Frame Rate
 Picture display frame per second
 Max 30 frames/second (640x480 Max FPS :30)

4. GOP Size

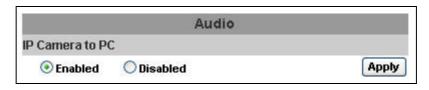
It means "Group of Pictures". The higher the GOP is, the better the quality is.

5. Access Name: RTSP output connecting route

iii · Audio:

IP CAMERA supports 2-way audio. User can send audio from IP Camera Built-in mic to remote PC; User can also send audio from remote PC to IP Camera's external speaker.

a. Audio from IP camera built-in mic to local PC: select "Enable" to start this function.





b. Audio from local PC to IP Camera: Check "chatting" in the browsing page.

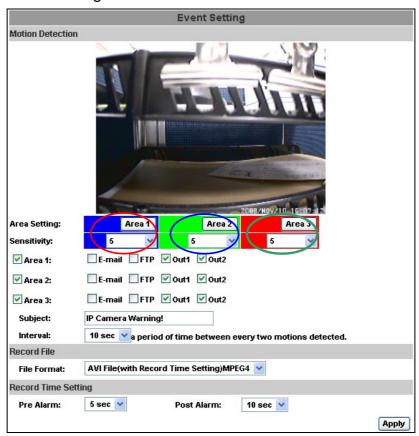




D.Event List

IP CAMERA provides multiple event settings.

i . Event Setting



a. Motion Detection:

IP CAMERA allows 3 areas motion detection. When motion is triggered, it can send the video to some specific mail addresses, transmit the video to remote ftp server, and trigger the relay. To set up the motion area, click "Area Setting". Using mouse to drag and draw the area. The same operation for area 2 and 3.

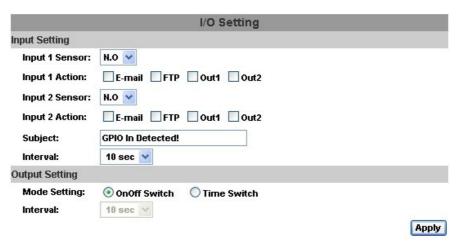
b. Record Time Setting:

Pre Alarm and Post Alarm setups for video start and end time when motion detected, I/O, or other devices got triggered.

ii \ I/O Setting

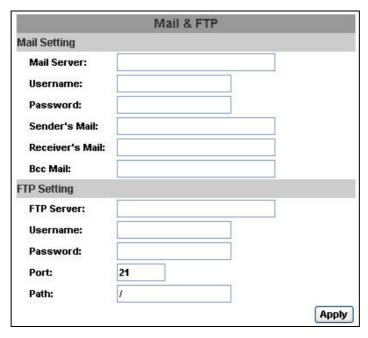
IP CAMERA supports 2 input/ 2 output. When input is triggered, it can send the video to some specific mail addresses, transmit the video to remote ftp server and trigger the relay.



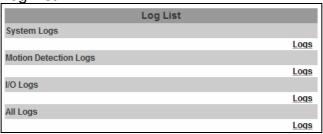


iii 、 Mail & FTP

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



iv . Log List

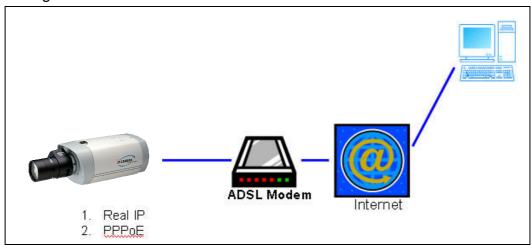


Sort by System Logs, Motion Detection Logs and I/O Logs. In addition, System Logs and I/O Logs won't lose data due to power failure.



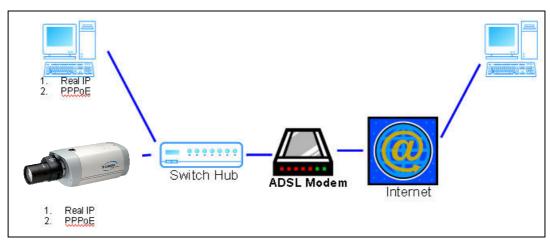
VI. Network Configuration

i Configuration 1:



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

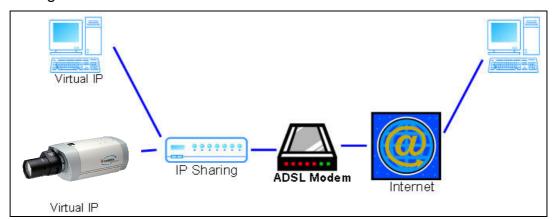
ii . Configuration 2:



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



iii . Configuration 3:



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