

Dear Customer!

By selecting this VC product you have chosen a professional device, which guarantees highest possible quality and reliability.

Please read the following instructions carefully before commissioning the product in order to be able to take full advantage of all quality features regarding this product line.

IP Camera

Art. no. 11932



Cautions

1. Read this user manual before use.
2. Keep this user manual accessible.
3. Follow instruction
4. Keep this unit away from cleanser.
5. Keep this unit dry in ventilation.
6. Give way to ventilation outlet.
7. Power cord must be fixed properly.
8. To avoid damage, unit must not be stuffed or be splashed with something.
9. Do not repair this unit on your own.
10. Please contact local dealer for the following condition:
 - a. Power cord damaged.
 - b. Showered unit.
 - c. Failure in operation.
 - d. Unit dropped or cabinet damaged.
11. Repairing components must be approved by original manufacturer.
12. Ground wire of outdoor image source must be well connected to the ground to prevent from thunder attack.
13. Power cord and outdoor image source cable should be detached in case of thunder attack.



Warning

Only qualified engineer can detach the cover. There is nothing inside for end users. Cover must not be removed in case of power on.

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1.OUTLINE

IPCAM is a low cost provision of network surveillance facility which transmits images on network to remote PC in format of compression technology.

Monitoring, storage and recognition on line are provided by IPCAM.

Image transmission remains the same quality on both ends of server site and remote site. Single image source can be transmitted to multi-ports saving lots of cabling overhead.

1.1 INTRODUCTION

Dual Compression technology JPEG & MPEG4, remote site operator can access to the server site via IE browser to secure personal safeguard and property.

IP-CAM works with existing digital network transmission system.

1.2 FEATURE

- *Image & Audio transmission via Network
- *Dynamic IP & static IP support
- *Dual compression technology JPEG & MPEG-4
- *Compatible with BT.656
- *Built in motion detection & recording functions
- *IE browser remote monitoring & setup support
- *Firmware upgrade via IE browser on line



1.3 Specification

Camera type	Compatible with BT.656 , 28.63636MHz (NTSC)、28.375MHz(PAL)	
LENS Mount	C/CS Mount	
Compression	MPEG4 / JPEG	
Client View (Resolution/ Frame Rate)	NTSC	PAL
	D1 : 720x480 / 30	D1 : 720x576 / 25
	CIF : 360x240 / 30	CIF : 360x288 / 25
	Half-D1 : 720x240 / 30	Half-D1 : 720x288 / 25
	QCIF : 180x120 / 30	QCIF : 180x144 / 25
Network Protocol	TCP/UDP/IP, DHCP,SMTP, HTTP, NTP,DDNS,FTP,TFTP,ARP,nPn,PPPoE	
File Format	MPEG-4 video stream with 1 way PCM audio	
Recorded Format	MPEG-4 video stream with 1 way PCM audio	
Motion Detection	Movement on image	
Controller Interface	Internet Explorer 5.0 or above	
Camera Setup via IE	Camera : AES、BLC、AGC、MIRROR	
	Network : IP Configure、PPPoE、DDNS	
	Video : Resolution、Frame Rare、Compression Rate、P/I Rate	
	Audio on/off	
	Update Firmware	
Memory	2M Byte Flash ROM / 8M Byte SDRAM / 32M Byte DDR	
Network	10/100 Ethernet	
Audio	Built-in high performance Microphone ranges within 5 meters	
I/O Ports	Power input port、RJ-45Network port、Video output Port、	
Dimensions	158.5mm (L) × 70mm (W) × 50mm (H) (Without lens)	
Weight	About 380g	
Power Supply	DC 12V / 500mA	
Power Consumption	About 500mA(Without WLAN card)	
Operating Temperature	5°C ~ 40°C	
Storage Temperature	0°C ~ 70°C	
Operating Humidity	10% ~ 80%(Relation humidity)	



1.4 ACCESSORY

1. IPCAM
2. CD ROM
3. USER MANUAL
4. DC12V 1A ADAPTOR
5. CROSS-OVER CABLE

1.5 SYSTEM REQUIREMENT

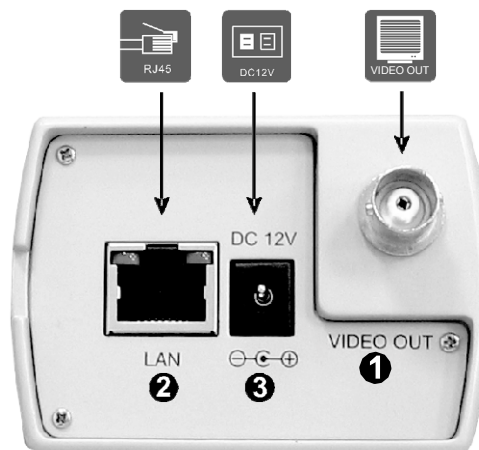
Pentium4 or above
Windows 2000/XP/VISTA OS
Protocol comply to 802.11 or ADSL network
Microsoft Internet Explorer 6.0 or above

1.6 PANEL

1.6.1 REAR PANEL

REAR PANEL

- ➊ Video Output: Connect the video signal output to a CCTV monitor.
- ➋ LAN: RJ-45 port
- ➌ DC12V: DC12V power input (option)



2. INSTALLATION

2.1 CABLING

1).Video Output

VIDEO OUTPUT is to be connected to CCTV monitor for live monitoring.
The video output format is 1 Vp-p Composite Video Video Signal 75 Ω.

2).Plug in Ethernet Cable

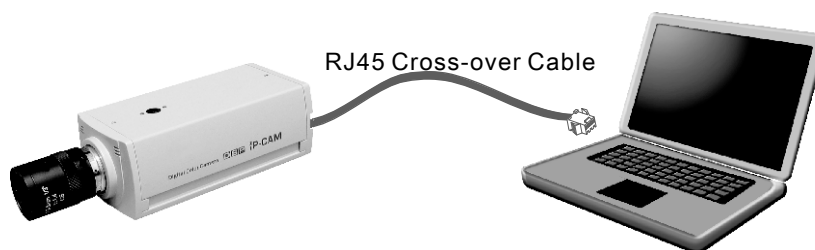
Plug the cable in the Ethernet port with "LAN" mark for Ethernet connection

3). Power Input

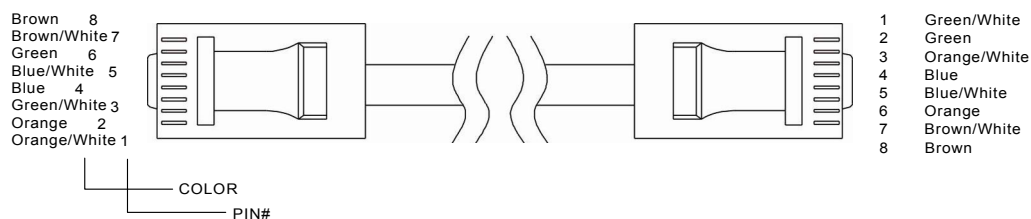
Plug in the power adaptor which supplies
IPCAM could be damaged by improper voltage input.

2.2 ETHERNET FRAMEWORK & CONNECTION

★ PC TO IPCAM CONNECTION



1). Use Cat5 Cross-over Cable to connect PC



2). IPCAM default setup as follows:

Network	Status
Enternet	MAC Address 00-16-55-01-6D-21
LAN Address	192.168.1.126
LAN Netmask Address	255.255.255.0
LAN Getway Address	192.168.1.1

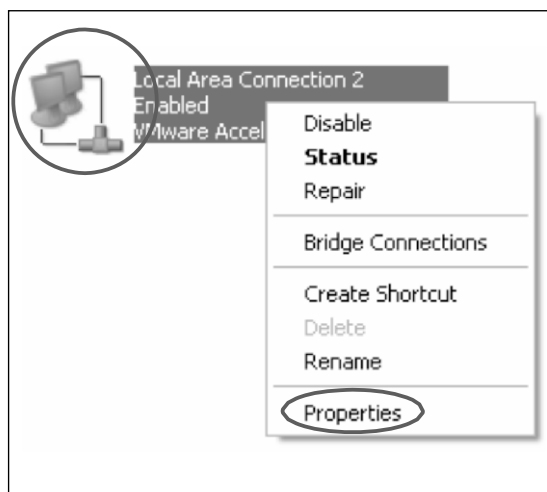
3). Setup IP address of PC LAN card same as IPCAM domain. In condition of Windows 2000 / XP OS

- a. Select "My Network Places" by
Clicking mouse on the right.
Click "Properties" accordingly.

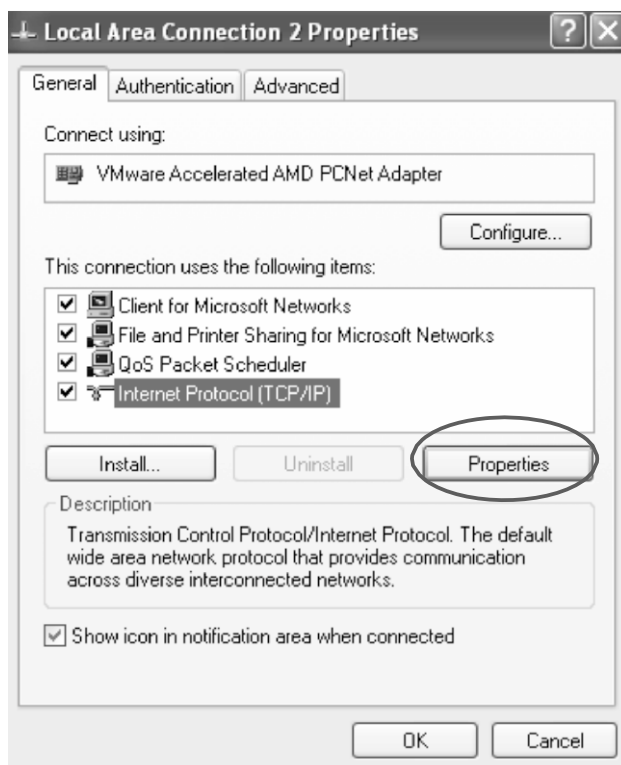




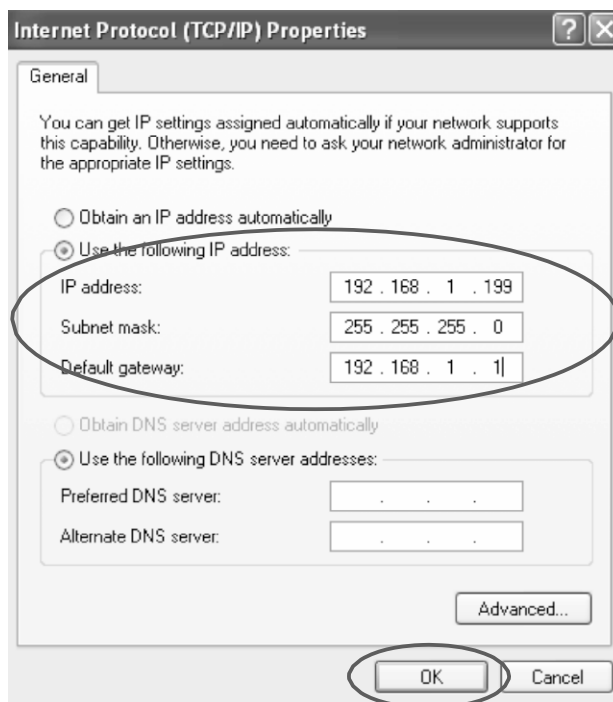
- b. Select “Local Area Connection” by clicking mouse on the right.
Click “Properties” accordingly.



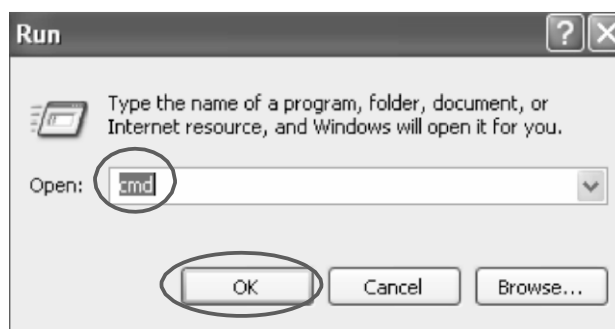
- c. Select “TCP/IP” and click “Properties.”



- d. Select “Use the following IP address” to input IP address, Subnet mask and Default gateway. Click “OK” accordingly.



- 4). Follow the following procedure to make sure IP address correct.
- a. Click “ Start” “ Run” and input “ cmd” Click “ OK” .





- b. Enter DOS and input "ipconfig". Click "enter" to inspect IP address, Subnet mask and Default gateway.

```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\noo>ipconfig

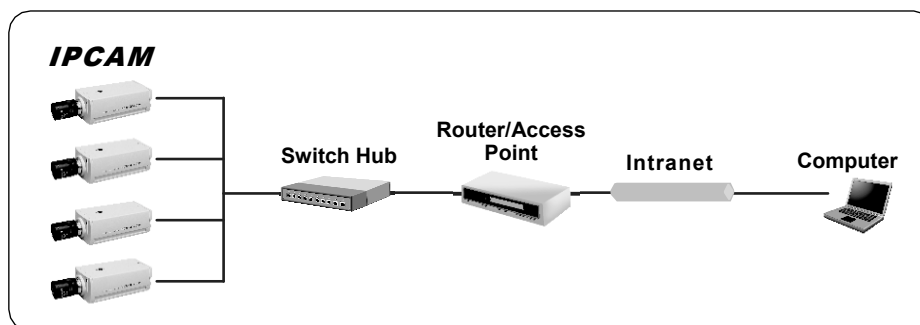
Windows IP Configuration

Ethernet adapter Local Area Connection 2:

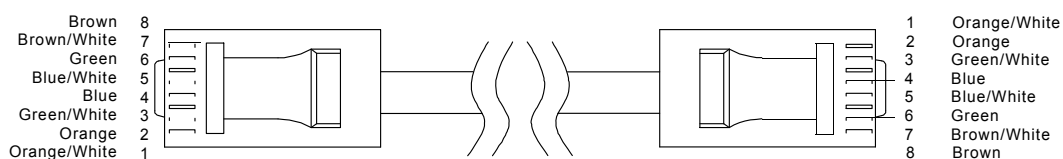
    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 192.168.1.199
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1

C:\Documents and Settings\noo>_
```

★ INTRANET CONNECTION



1. Cat 5 cable must be used in condition of connection via router, DSL modem and hub.



2. Please make sure PC and IPCAM same domain.



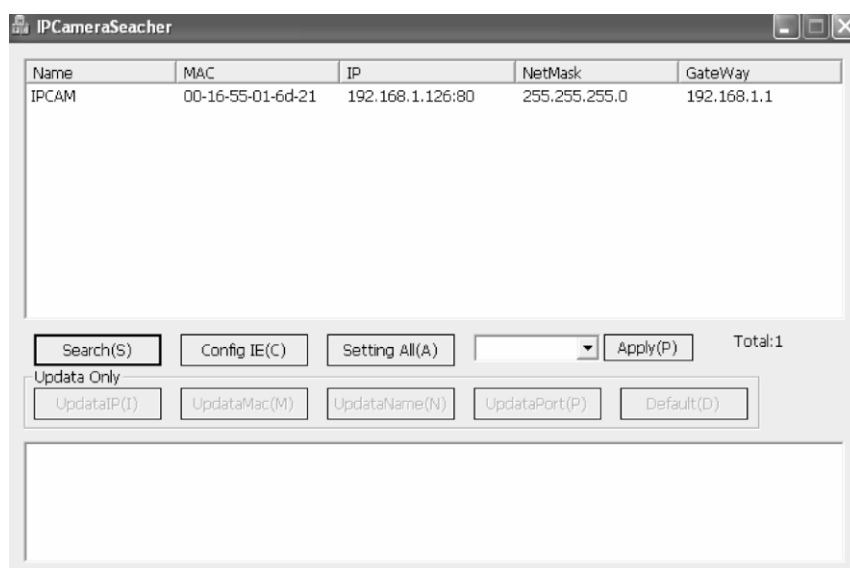
3. IPCAM detects DHCP when system starts working. IPCAM Enables DHCP protocol to accept IP address from NAT when NAT router detected. Default IP address becomes 192.168.1.126 when NAT router not detected. Suppose there is an IP address 192.168.1.126 on internet. This device must be turned off prior to IPCAM renew the IP setup.

3. QUICK SETUP

3.1 IP SETUP for IPCAM

3.1.1 Run IPCameraSearcher

Run IPCameraSearcher.exe, the setup window will appear on your computer



3.1.2 IPCameraSearcher Instruction

1. Search(S): Search all the IPCAM in the network. Click one of the IPCAM address to login.
2. Config IE(C): IE Security Setup.
 - * Inappropriate setting might cause the browsing in accessible.
3. Apply(A): Search all IPCAM address automatically.
4. After setting an IP address, the following IP addresses will each automatically add up by one accordingly.
5. Update IP(I): Set the IP address of the indicated IPCAM, then press "OK" to reboot the IPCAM.



	Old	New
IP	192.168.1.126	192.168.1.126
Netmask	255.255.255.0	255.255.255.0
Gateway	192.168.1.1	192.168.1.1
User Name	admin	
Password		

OK Cancel

6. Update Name(N): Change user name of the indicated IPCAM, then press “OK” to reboot the IPCAM.

IP Address: 192.168.1.126

Old Name: IPCAM

New Name: IPCAM

User Name: admin

Password:

OK Cancel

7. Update Port(P): Set the port of the indicated IPCAM and press “OK” to reboot the IPCAM.

IP Address: 192.168.1.126

Old Port: 80

New Port:

User Name: admin

Password:

OK Cancel

8. Default(D): Restore the default value of the indicated IPCAM, then press “OK” to reboot the IPCAM.



3.2 LOGIN IPCAM ON IE

To Login:

1. In IPCameraSearcher, click the IP address of the indicated IPCAM.
2. In IE, type the IP address of the indicated IP address.

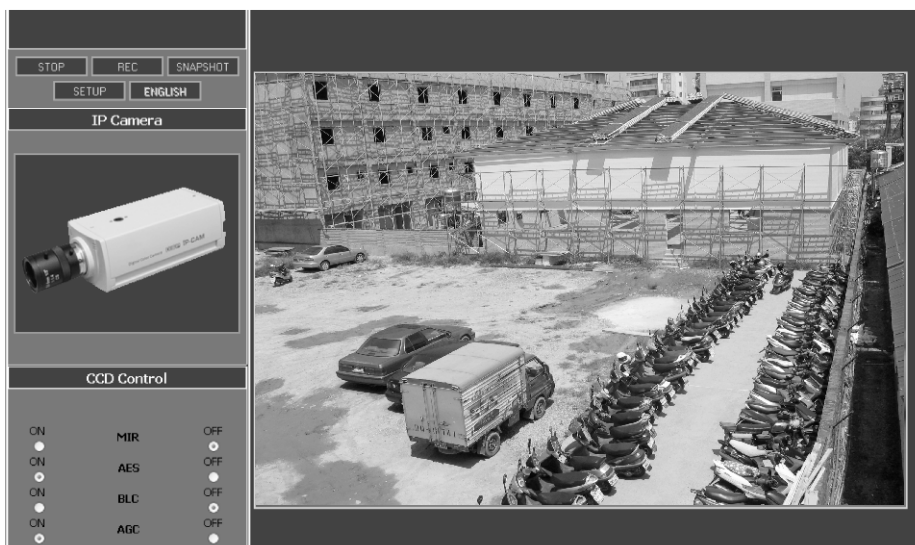


★ USERNAME:admin

★ PASSWORD:____(N/A)

3.3 INSTRUCTION & LIVE VIEW of IPCAM

If login succeeded, the viewer will be appeared as below:





1. PLAY/STOP : Play/Stop Picture.
2. REC : Record the file in AV format. (Refer to 4.1.2 Video & Audio Settings to customize the file saving path.)
3. SNAPSHOT : Snapshot the picture on screen in a JPG file.
(Refer to 4.1.2 Video & Audio Settings to customize a path to save JPG file.)
If the path is ending by a “\”, it is a directory path.
If the path is ending without a “\”, the path will link to a prefixed file name.
4. SETUP : Set system value. For further value setup, please refer to System Setup.
5. The Language displayed is assigned by the system(IP address.)
6. CCD Control
 - MIR : Reverse the picture from left to right.
 - AES(Automatic Electronic Shutter) : AES will adjust the shutter speed to assure perfect exposure when cameras without an auto iris lens.
 - BLC(Back Light Compensation) : Enable an object to be seen clearly against intense back light.
 - AGC(Automatic Gain Control) : When the object is dark, the AGC can make the object lighter.
7. By clicking the picture, the picture size can be adjusted by the size of browsing window.



4. OPERATION

4.1 SYSTEM SETUP

4.1.1 STATUS

<div>Basic Configuration</div> <div>STATUS</div> <div>VIDEO&AUDIO</div> <div>NETWORKING</div> <div>PPPoE</div> <div>DDNS</div> <div>DATE & TIME</div> <div>Advance Configuration</div> <div>RETURN</div>	Status	
	<u>System Information</u>	
	Firmware Current Version	1.00.01.M (Mar 10 2008 17:12:31)
	<u>Network Status</u>	
	Ethernet MAC Address	00-11-22-33-44-55
	LAN IP Address	192.168.1.126
	LAN Netmask Address	255.255.255.0
	LAN Gateway Address	192.168.1.1
	DHCP State	Disabled
	<u>Camera Information</u>	
Camera Type	NTSC	
Total Live-View Users	1	
<u>OCX Information</u>		
OCX Current Version	1.18.4.37	
OCX Path	C:\WINDOWS\Downloaded Program Files\IMMP4.OCX	

4.1.1.1 SYSTEM INFORMATION

- Firmware Current Version : By updating the firmware, more functions will be attached to the program.

4.1.1.2 NETWORK STATUS

- Ethernet MAC Address: MAC address of the IPCAM.
- LAN IP Address: IP address of the IPCAM.
- LAN Netmask Address: LAN net-mask address of the IPCAM.
- LAN Gateway Address: LAN gateway address of the IPCAM.
- DHCP State: Dynamic Host Configuration Protocol. When using static IP, the status will show "Disable," the opposite will be "Enabled."

4.1.1.3 CAMERA INFORMATION

- Camera Type : Mode of Camera
- Total Live-View Users: Total number of live-view users. Maximum user on-line is up to 20.

4.1.1.4 OCX INFORMATION

- OCX Current Version : Current OCX version
- OCX Path : The path accesses to OCX



4.1.2 VIDEO & AUDIO SETTINGS

Video & Audio Settings

Video Stream

CBR: Disable

Resolution: CIF

Limit Frame Rate to: 10

Snap Shot

Path & File Name: c:\image\image

Time Label: Yes

OSD

OSD Text:

OSD FontSize: 10

OSD Enabled: Yes

REC

REC File: c:\rec\rec

REC Duration Time: 0 seconds (0 - infinity)

REC Time Label: Yes

Audio Setting

Audio Volume: 1

☐ IPcam Audio Enabled

☒ PC Audio Enabled

Save Reset

4.1.2.1 VIDEO SETTINGS

- CBR : Set the Constant Bit Rate of Video
- Resolution : Picture resolution. Four levels of resolution are provided for selection.
- Limit Frame Rate to: Frame rate transmitting per second is defined by the internet connection speed. Higher value brings smoother picture performance.

4.1.2.2 SNAP SHOT

- Path & File Namer: Set the path to save still picture taken by snapshot.
- If the path is ending by a “ \ ” , it is a directory path.
- If the path is ending without a “ \ ” , the path will link to a prefixed file name.
- Time Label : Enable or disable Time Label function.

4.1.2.3 OSD

- OSD Text: Text showing on top of the picture. Maximum byte: 32.
- OSD Font size: Size of the font.
- OSD Enabled: Enable or disable OSD.

4.1.2.4 REC

- REC File: Set the path to save recorded picture.
- If the path is ending by a “\”, it is a directory path.
- If the path is ending without a “ \ ” , the path will link to a prefixed file name.
- REC Duration Time : Time duration of recording.
- REC Time Label: Enable or disable REC Time Label.
- REC File Time Label: Enable or disable REC File Time Label.

4.1.2.5 AUDIO SETTING

- Audio Volume: Set audio volume.
- IPCAM Audio Enable : Enable or disable audio function on IPCAM.
- PC Audio Enable: Enable or disable audio function of PC.



4.1.3 NetWorking

Networking

IP Address Configuration

☐ Obtain IP Address via DHCP [View](#)

☒ Use the following IP Address:

IP address:

Subnet Mask:

Gateway:

DNS Configuration

☐ Obtain DNS Server Address via DHCP [View](#)

☒ Use the following DNS Server Address:

Primary DNS Server:

Secondary DNS Server:

HTTP

HTTP Port:

[Save](#) [Reset](#)

4.1.3.1 IP Address Configuration

- There are two ways to set the IP address :
- Obtain IP address via DHCP: Obtain IP address via Dynamic Host Configuration Protocol.
- Use the following IP Address: Set the static IP address manually.

4.1.3.2 DNS configuration

- Two DNS IP addresses are allowed within this model.
- Primary DNS Server: Primary DNS IP address.
- Secondary DNS Server: Secondary DNS IP address.

4.1.3.3 HTTP

- Prefixed port: 80
- If the port is to be changed, the IP address should be changed accordingly. Ex: Original IP address is 192.168.1.126, prefixed port is 80. If the port is changed to 1000, the IP address should become: 192.168.1.126:1000.



4.1.4 PPPoE

4.1.4.1 PPPoE CONFIGURATION

- Enable PPPoE : Enable or disable PPPoE.
- User Name : Insert the user name from by ISP provider.
- Password: Insert password from ISP provider.
- MTU (128~1492): Maximum Transmission Unit, the largest packet that can pass onwards in communication protocol, is calculated in bytes of the size. MTU is usually set in 1500 bytes for transmission. If the MTU packets are too large, it will block up a slow interface for some time, increasing the lag on other packets. Reducing the packet size will help the smoothness of transmission. Prefixed size is 1492.
- Email Notification when IP is changed: SMTP should be preset before using this function (Refer to 5.4 SMTP Settings.)

4.1.4.2 STATUS

- By clicking “Refresh,” the IP status from ISP provider will be displayed.



4.1.5 DDNS

Signing up at DynDNS, PeanutHull, or perfecteyes before setting DDNS is required.

Dynamic DNS Setting

Dynamic DNS

Choose Server: Disabled ▾

DNS Account:

User Name:

Password:

Status: Initializing DDNS progress!

4.1.5.1 DYNAMIC DNS

- Choose Server: Choose the DDNS server that provided by DynDNS, PeanutHull, and perfecteyes.
- DNS Account: Account number provided by DDNS server, ex. test.dyndns.org.
- User Name: Account user name.
- Password: Account password.
- Manual_Update: Update manually the IP address of current IPCAM to indicated DDNS Server.
- Status: Insert the response from the DDNS server.
- Save: Save above mentioned setting.
- Reset: Reset all settings.



4.1.6 DATE & TIME

4.1.6.1 CURRENT SERVER TIME

- Show current time at the IPCAM.

4.1.6.2 Time Zone

- Choose the time zone where the IPCAM is at.

4.1.6.3 TIME MODE

- When network is functioning, the time can be set according to the server.

4.1.6.4 UP DATE SERVER TIME

- Time update can be done in this section either automatically for the IPCAM current time or manually for the new time.

4.2 ADVANCE CONFIGURATION

4.2.1 MAINTENANCE

4.2.1.1 MAINTAIN SERVER

- Restart : Restart the IPCAM.
- Restore: Restore all settings except IP address.
- Default: Restore all settings.

4.2.1.2 UPGRADE SERVER

- Click “browse” and choose .IMG FIRMWARE FILE, Click “upgrade” to upgrade the firmware. Once the process is completed, click “Restore” to confirm the upgrading.



4.2.2 ADMINISTRATOR

In this section, the user can add, delete, enable/disable anonymous user, and set the camera (video server) name.

User Name	User Group
admin	Administrator

Anonymous User Settings
Yes ☐ No ☒ Enable anonymous viewer login (no user name or password required)
Maximum number of simultaneous viewers limited to: 20 (Maximum value:20)

Camera Name Setting
Camera Name: IPCAM
Save Reset

4.2.2.1 USER LIST

- Add or remove users.
- Add: Click to add new users.
- Remove: Select a user name then click “ remove” to remove the user.

4.2.2.2 ANONYMOUS USER SETTINGS

- Yes: Users can view the picture without user name and password.
- Maximum number of simultaneous viewers limited to: Maximum simultaneous viewer is 1-20.

4.2.2.3 CAMERA NAME SETTING

- Camera Name can be set with a name that is easier to remember. It will appear on IP address list when IPCameraSearcher is scanning.



4.2.3 Management

4.2.3.1 Change Password

- User Name: Insert user name.
- Password: Insert new password.
- Confirm Password: Insert again the password to confirm.

4.2.4 SMTP (E-Mail)

4.2.4.1 SMTP Server Settings

- Mail Server : Insert IP address of SMTP server. For example, the mail box is GAMIL, then insert the mail server as smtp.gamil.com
- From E-mail Address : Set the E-mail address of sender. Please kindly note the sender's mail box should be the same with the mail server's. For example, if the mail server is GAML, then the sender's mail box should be the GAML mail box.
- To E-mail Address: Set the e-mail address of receiver. It will send email to this box when a trigger event occurs.
- Authentication: If your mail box needs the authentication, please select YES.
- User Name: User name of E-mail sender
- Password: Password of the email address.
- Send a test e-mail with SMTP server: Test if the E-mail settings are correct. Press "test," you will receive the mail which subject is "This is a test message from IP address← the address of the mail server."


4.2.5 FTP

<ul style="list-style-type: none"> Basic Configuration Advance Configuration MAINTENANCE ADMINISTRATOR CHANGE PASSWOD SMTP FTP RTSP ALARM EVENT SPECIAL SETTING <p style="text-align: center;">RETURN</p>	<h3>FTP</h3> <h4>FTP Settings</h4> <p>FTP Server: <input type="text"/></p> <p>User Name: <input type="text"/></p> <p>Password: <input type="password"/></p> <p>FTP Command Port: <input type="text" value="21"/></p> <p>Path & File Name: <input type="text" value="/"/></p> <p> <input type="button" value="Save"/> <input type="button" value="Reset"/> </p>
---	--

4.2.5.1 FTP SETTINGS

- FTP Server: Insert address of FTP Server.
- User Name: Insert user name.
- Password: Insert password.
- FTP Command Port: insert FTP command port .
- Path & File Name: Insert the path to save file name.
- If the path is ending by a “ \” , it is a directory path.
- If the path is ending without a “\”, the path will link to a prefixed file name

4.2.6 ALARM EVENT

<ul style="list-style-type: none"> Basic Configuration Advance Configuration MAINTENANCE ADMINISTRATOR CHANGE PASSWOD SMTP FTP RTSP ALARM EVENT SPECIAL SETTING <p style="text-align: center;">RETURN</p>	<h3>ALARM EVENT</h3> <h4>Embedded Motion Detection Setting</h4> <div style="text-align: center;">  </div> <p>Set Motion Detect Region: <input type="button" value="Begin"/> 0 <input type="button" value="Edit Region"/> or <input type="button" value="End Edit"/></p> <p><input type="button" value="Remove Region"/></p> <p>Sensitivity: <input type="text" value="50"/></p> <p>Motion Detection Enabled: Yes <input type="radio"/> No <input checked="" type="radio"/></p> <h4>Embedded Motion Detection Event</h4> <p>Send to FTP with *.AV: <input type="text" value="None"/></p> <p> <input type="button" value="Save"/> <input type="button" value="Reset"/> </p>
---	---



4.2.6.1 EMBEDDED MOTION DETECTION SETTING

- Begin: Total 16 detection regions, click “ begin” to edit the setting.
- Edit Region: Under edit mode, define detection region.
- Remove Region: Under edit mode, remove defined detection region(s).
- End Edit: Finish editing.
- Sensitivity: Set sensitivity of motion detection.
- Motion Detection Enabled: Enable or disable motion detection.

4.2.6.2 Alarm Event

- No event: the system will not be triggered.
- Upload the recorded files to an FTP Server (FTP should be set firstly.)

4.2.7 SPECIAL SETTING

Special Setting

Video Advance Setting

Compression: 8

P/I Ratio(P frame ; I frame): 14

RGB

UseRGB: Yes ☒ No ☐

Save Reset

4.2.7.1 VIDEO ADVANCE SETTING

- Compression: Select video compression.
- P/I Ratio(P Frame ; I Frame): Ratio of P frame and I frame.
- Higher number results in smaller transmission size and duller picture.

4.2.7.2 RGB

- Some old versions of display card do not support YUV display. RGB display is optional under this circumstance. CPU usage will be increased slightly while RGB display is operating.
- Use RGB: Enable or disable RGB display.



5. USER GUIDE of AVPlayBack

This software AVPlayBack can play the recorded files with an *.av extension and also can convert an *.av file to an *.avi file

5.1 THE MAIN FUNCTION OF AVPlayBack

- Play the recorded file with an *.av extension.
- Supports the file conversion from *.av to *.avi.

5.2 SYSTEM REQUIREMENTS

Operating System	Windows 2000(SP4)、 Windows XP or later
DirectX	DirectX 7.0 version or above
CPU	More than 1.5 Ghz clock
Memory	512MB above

5.3 SYSTEM INSTALLATION





Perform the intallation with the enclosed AVPlayBack Disc and follow the on-screen instructions to complete the installation process.

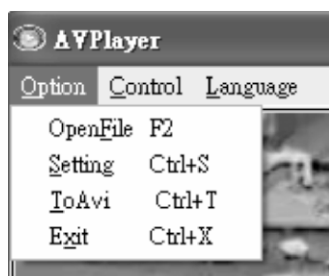
5.4 USER INTERFACE

Play Frame



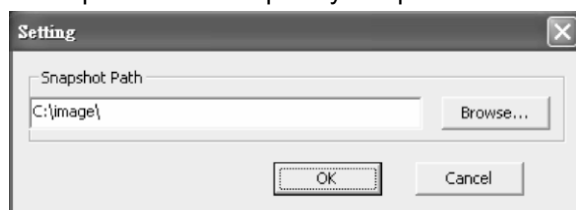


 OpenFile : Open the *.av recorded file.									
	File information : Location of the File Path and Total Time for the video length								
<table border="1"><tr><td>Information</td><td>C:\IP902\OLD-2008-02-29-16-31-33.av</td></tr><tr><td>File Path:</td><td></td></tr><tr><td>Total Time:</td><td>00:00:05</td></tr></table>	Information	C:\IP902\OLD-2008-02-29-16-31-33.av	File Path:		Total Time:	00:00:05	<table border="1"><tr><td>Play Control : Fast Reverse, Reverse Play, Pause, Play, Fast Forward</td></tr><tr><td>Fast Reverse/Forward: 2X, 4X, 8X, 16X, 32X</td></tr></table>	Play Control : Fast Reverse, Reverse Play, Pause, Play, Fast Forward	Fast Reverse/Forward: 2X, 4X, 8X, 16X, 32X
Information	C:\IP902\OLD-2008-02-29-16-31-33.av								
File Path:									
Total Time:	00:00:05								
Play Control : Fast Reverse, Reverse Play, Pause, Play, Fast Forward									
Fast Reverse/Forward: 2X, 4X, 8X, 16X, 32X									
 Snapshot : one click can capture one JPG image.									
	Volume Control : Adjust or mute the volume.								



· **OpenFile** : Open the *.av recorded file.

- **Setting** : Specify the path to save the snapshot image.
- **Snapshot Path** : Specify the path to save the snapshot image.

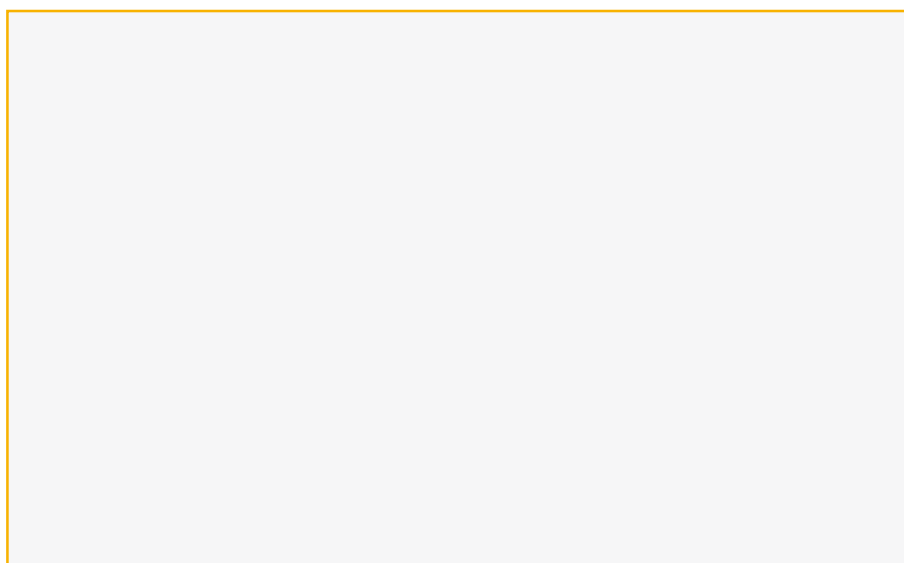


- **Fast Reverse** : 2X, 4X, 8X, 16X, 32X
- **Reverse Play**
- **Play**
- **Pause**
- **Fast Forward** : 2X, 4X, 8X, 16X, 32X
- **Snapshot** : Click the "Snapshot" to capture JPG images and one click for one image.



Language : You can choose the language

Your local distributor



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