INSTALLATION & OPERATION MANUAL VANDAL PROOF DAY/NIGHT POE IP DOME CAMERA IPX-DDK-1500D

Before trying this product or operate this product, please read this manual completely

Table Of Contents

SAFETY PRECAUTIONS	4
	5
1.1 Product Instructions	5
1.2 Product Features	6
1.3 TECHNICAL SPECIFICATIONS	6
2. Name of parts and functions	9
2.1 NAME OF PARTS AND FUNCTIONS	9
2.2 THE USB FUNCTION	12
3. INSTALLATION	13
3.1 CONNECTING WITH AN NVR	13
3.2 CONNECTING WITH A DVR	13
3.3 CONNECTING WITH A MULTIPLEXER	14
3.4 UPDATING SYSTEM SOFTWARE	14
3.5 IP CAMERA SD CARD TROUBLESHOOTING	16
4. Network Configuration	17
4.1 CABLE CONNECTIONS	17
4.1.1 Connect to a computer	17
4.1.2 Connect to a LAN Hub (INTRANET)	
4.2 Configure Your IP CAMERA Network Settings	19
4.2.1 Enable DHCP Function	19
4.2.2 Set IP Address	19
4.3 TCP/IP COMMUNICATION SOFTWARE	20
4.4 TCP/IP INSTALLATION	22
4.5 TCP/IP CONFIGURATION SETTING	22
4.6 CONNECTION TESTING	24
5. Operating Instructions for Image Software and Network	26

5.1 MICROSOFT INTERNET EXPLORER	27
5.1.1 Connecting the IP CAMERA	27
5.1.2 Change Image Setting	29
5.1.3 Change the Network Setting	
5.1.4 Change the System Setting	41
5.1.5 Change the Application Setting	49
5.1.6 Change the SD card Setting	57
5.1.7 Change the Pan/Tilt setting	58
5.1.8 PPPoE & DDNS	59
5.2 THE IP CAMERA IP SURVEILLANCE	61
5.2.1 Introduction to IP surveillance	61
5.2.2 Install the IP surveillance in your PC	62
5.2.3 Login the Network camera software	63
5.2.4 Operation	66
5.2.4 The Image Viewer	
6. ADVANCED OPERATION	84
7. SPECIFICATIONS	88
8. Functions of client PC	89
APPENDIX 1. –SCANIP	90
APPENDIX 2. –IPCAM UPnP How To	93
APPENDIX 3. –The ARP function	104
APPENDIX 4. –Register as a DDNS member	106
APPENDIX 5. – MPEG4 Bit Rate Lookup Table of IP CAMER	A110
APPENDIX 6. –FAQ	111

SAFETY PRECAUTIONS

All the following safety and operational instructions to prevent harm or injury to the operator(s) or other persons should be read carefully before the unit is activated.

WARNING

- To prevent fire or shock hazard, avoid exposing this unit to rain or moisture.
- Do not block ventilation openings.
- Do not place anything on top of the unit that might spill or fall into it.
- Do not attempt to service this unit yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Please refer all servicing to your distributor / retailer.
- Do not use liquid cleaners or aerosols for cleaning.
- To prevent fire or electric shock, do not overload wall outlets or extension cord.
- This unit must be grounded to reduce the risk of electric shocks.

1. PRODUCT FEATURES

1.1 Product Instructions

This user-friendly device combines cutting-edge sophistication with practical reliability and convenience, high performance with smooth remote communication. Just plug in the network cable!! You'll get live streaming Video & Audio anytime any place! You'll have security you can rely on! The especially high resolution has 530 TV lines, D/N function, a built-in web server and a Network interface to connect you with the Internet securely and fast.

Other special features include the masking of personal private images with flexible mask-area positioning and size, the self-downloading automatic video codec and other components, and the whole unit is very easy to set up. You can access the network to get smooth images through the real-time and synchronized audio / visual stream provided by the device, because it supports two compression modes, the MJPEG and the MPEG4 -- you can change from one to the other as you wish. The MPEG4 file format is a very small size file, so it can save more images over a longer time and can be set extremely fast. The device also has a built-in website server providing many Internet functions and protocols, including the MDIX protocol which recognizes both the normal and the crossover cables, either of which can connect up with an IP camera.

We hope this device makes it easier for you to get your IP address information. This unit supports the USB interface which helps you to very easily get an IP address to open the IE browser: just type in your IP address to the browser and you can access your IP camera.

The device can hopefully provide the advanced motion detection function to improve your network surveillance with both the powerful and enhanced multi-zone and multi-sensitivity modes of detection. We believe this unit is the right answer to all your network surveillance problems. Try it and you'll see.

1.2 Product Features

1/3" Sony Super HAD CCD sensor.

3.7~12mm vari-focal auto iris lens built-in

530 TV lines.

Day/Night: Accept IR illumination for dark surveillance. The range of Infrared wavelength is from 700nm to 1100nm.

Built-in web server.

Our comprehensive Plug & Play features-

- * PnP video codec-installation of automatic video codec or any component.
- * PnP IP address-supports UPnP protocol.
- * PnP recording-built-in SD card for recording.

Auto white balance (AWB) & auto tracing white balance for color temperatures from 2500° k to 9500° k.

Advanced motion detection-multi-zone & multi-sensitivity.

Privacy image masking with free position and size.

CIF up to Full D1 resolution.

Low Lux: By employing high sensitivity image sensor and low noise circuit design produces 0.5 lux.

Auto Iris Control (AIC), Auto Gain Control (AGC), Auto Back Light Compensation (ABLC), and Flicker less (FL)

Fixed shutter speed: 1/1000 sec.

Dual codec---MPEG4/MJPEG for various applications.

Real-time and synchronized A/V stream.

No latency. Synchronized Analogy / Digital signal.

Position a camera any place you want-No PC required for operation.

Supports post-alarm function.

Supports the MDIX protocol. Recognizes both the normal and the crossover cables, either of which can connect up with an IP camera.

Power: POE / 802.3af, DC 12V.

1.3 Technical Specifications

General:

• Built-in Web Server and network interface. You don't need a PC to operate.

Installation:

• Fast and simple installation – connect to your network and assign an IP address within a minute. The null modem cable enclosed helps you to set up without a network.

Camera:

· Digital, 24-bit color.

Image sensor:

- 1/3 inch Sony Super HAD CCD sensor.
- MPEG4 resolution (pixels): 640×480, 320x240

Exposure:

- Automatic AGC.
- White Balance: Indoor installation.
- Exposure times: 1/30-1/27,000s.

Sensitivity:

Minimum Illumination: 0.5 lux @F1.6, 0 lux IR On

Image:

- · Image frame rate: up to 25 frames/second.
- · Supports two compression modes, the Motion-JPEG and the MPEG4.
- 5 levels of compression provided. The file size of an M-JPEG compressed image depends on the image's actual content. Images with a lot of detail will generate bigger files. The level of compression determines the image quality. High compression requires smaller files while low compression gives you finer image quality along with bigger files. The table below contains the average file size in Kbytes, derived from real life tests.

General I/O:

- Input/Output connector to trigger the camera vis-a-vis external events, for instance a door sensor with a solenoid.
- · Event triggered remote image storage through e-mail and FTP.

System Requirements:

- · Compatible with operating systems such as Windows 2000 and Windows XP.
- Internet Explorer 6.x.
- · Non-network modem installation needs Windows PC.

Supported Protocols:

• TCP/IP, DHCP, HTTP, UDP, FTP, SMTP, SNTP, ICMP, DDNS, DNS, UPnP

Security:

· Password protection available, unless exposure is preferred.

Connections:

- RJ 45 twisted pair cable, 10/100 Mbit Ethernet network connection.
- Input/Output connector to trigger the camera vis-a-vis external events.

Operating Environment:

- Operation temperature: 32-122° F (0-50° C).
- Humidity: 20-80% RHG, non-condensing.

WARNING: Avoid aiming the camera at the sun or other extremely bright lights. Irrespective of whether the camera is used or unused, the CCD image sensor may be damaged if exposed to very bright objects. Dimensions and weight are as follows.

Dimensions / Weight:

- High: 110 (mm)
- Diagram: 142 (mm)
- Weight: 1400 g

Accessories Included:

- CD-R x 1
- Instruction manual.

2. Name of parts and functions

2.1 Name of parts and functions



- RUTATE 360-
- A. Inner plate mounting holes
- B. DC level
- C. Preset
- D. PC assembly
- E. IP module
- F. USB plug
- G. Side conduct entry
- H. Back conduct entry
- I. SD card slot
- J. Adjust the inner cover

ADJUSTING THE CAMERA ZOOM AND FOCUS

- 1. Loosen the zoom ring thumbscrew
- 2. Turn the zoom ring to set the desired zoom
- 3. Tighten the zoom ring thumbscrew
- 4. Loosen the focus ring thumbscrew
- 5. Turn the focus ring to set the desired focus
- 6. Tighten the focus ring thumbscrew
- 7. with the tool to adjust the focus



CAMERA ADJUSTMENT



- Horizontal angle adjustment: by turning the platform to adjust the horizontal angle B(90 degrees) and C(180 degrees).
- 2. Vertical angle adjustment: by turning the platform to adjust the vertical angle A(90 degrees)

MOUNTING THE HOUSING



DELAY TIME SET UP

DELAY TIME	1sec	5sec	10sec	20sec	30sec	40sec	50sec	1min
1	-	-	-	-	-	-	-	-
2		-		-				-
3	-	-	-	-			-	-
4		-			-	-	-	-

DELAY TIME	1.5min	2min	2.5min	3min	3.5min	4min	4.5min	5min
1				4			-	
2		-	-	+	+	-	+	-
3			-	+	+	->	+	-
4	-			•	-	-	-	-

ALARM :

ALARM IN (INPUT) : This is an alarm input which can be

programmed in the menu system to Normally Open or Normally Closed.

ALARM RESET (INPUT) : This pin connects to an alarm-clear device for clearing an alarm.

ALARM OUT (OUTPUT) : This is an alarm-output trigger. Connect this to external devices such

as buzzers or lights.

GND: Ground Contact.

Video output terminal (BNC) :

This connector is used to connect with the VIDEO IN connector of monitor.

RESET : Recover to factory default.

DC 12V : A DC 12V inlet that connects to an external power supply.

ETHERNET 10/100 Connector: (LAN)

This is a standard RJ-45 connector for 10/100 Mbps Ethernet networks.

SD CARD Slot: This is used for system software updating and archiving / accessing critical

images



2.2 The USB function

By connecting the IPCAM with a PC via the USB connector, the IPCAM can provide two different functions.

1. Insert an SD card: As a card reader.

Insert an SD card into the IP CAMERA, then connect to the PC. You might transfer files between the SD card and the PC. Once you've connected your IP CAMERA to your computer, the Windows system will detect the connection and ask you what you want to do with your SD card.

In another words, if the user connects the IP CAMERA with an SD card and the PC via the USB connector, the IP CAMERA can be used as a normal card reader.

2. Remove an SD card: As a configuring tool.

Before using the USB configuration setting page, please remember to remove the SD card or your PC will read the SD card and won't show this window.

	USB Configurat	iou v1.01 📃 🗖 🔀	USB Configurati	on v1.0	1			3		
	Title	lancam(CA-CA-CA-CA-CA-05)	Title	lancari(CA:CA:CA	CAICA:05				
Γ	DHCP	CN	DHCP	OFF				T]	Notworl
L	IP Address	192 168 1 29	IP Address	192	168	1	79			Networ
L	Netmask.	255 255 255 0	Netmask.	255	255	255	0		Y	Setting
L	Gateway	190 160 1 254	Gatemay	190	168	1	254			
L	DNS Server	192 168 1 6	DNS Server	192	168	1	6			
Ē	HITTP Port	22	HITTP Port	80	-			Ť	i	
L	PPPoE Enable	019	PPPoE Enable	OFF						
L	Account		Account	OFF						
	Password		Password	TEST						PPPoE
	Mode Setting	C trins-structure C Ad-Hoc	Mode Setting	C tria	a-structure	C ASH	oc.	T		Setting
	ESSID		ESSID							
	Channel		Channel							
	WEP Key	C Disable C 64 bit C 128 bit	WEP Key	C Dise	ble C e	4 bit (C 128 bit			
	Default Key	C1 C2 C3 C4	Default Key	C:	C 2	C 3	C +			
	Keyl		Key1				_			
	Key2		Key2							
	КеүЗ		Key3							
	Key4		Key4				_			
		Apph(A) Full(F)		-	Apply	w 1	E-1075			
		-man			14401	<u> </u>	c.ma/			

DHCP ON

DHCP OFF

WARNING: After changing the settings, please click the "Apply" button. All of the

options will be effective after removing the USB connector.

3. INSTALLATION

Please follow the instructions and the diagram below to set up the system.

NOTE: The **IP CAMERA** is linked by its Video Out connection via a BNC connector to a monitor's Video In connection. If this connection is there, you can see some information on the monitor screen, such as the IP CAMERA factory default Static IP address (192.168.1.168). But the IP CAMERA Static IP address can only appear if there is a connection between the IP CAMERA and another device. If there is no such connection, the IP CAMERA factory default Static IP address will not appear on the monitor screen.

3.1 CONNECTING WITH AN NVR

Use a straight LAN cable to connect directly to an NVR





3.3 CONNECTING WITH A MULTIPLEXER



3.4 UPDATING SYSTEM SOFTWARE

If the system software of the IP CAMERA needs to be upgraded, please take the following steps to safely process it.

Important: Before carrying out the following procedures, please ensure the SD card is working and the file of the system firmware is intact

- 1. Format an SD card using the FAT16 format if it is unformatted; there are no limitations to an SD card's capacity.
- 2. Create a directory named IPCAM in the SD card if it does not exist.
- 3. Copy the file of UPDATE.BIN to the IPCAM-directory.
- 4. If the IPCAM is running, please power it off first.
- 5. Insert the SD CARD into the IPCAM.
- 6. Remove the Ethernet cable from the RJ-45 port and then power on the IPCAM.
- In 5 to 10 seconds, a message reading "UPDATE PROCESSING" will show up on the screen on a blue background; if not, please check out steps 1 to 6 carefully or else inform your technical support while ignoring the following steps.
- DO NOT power off the IPCAM while this update process is running until the message "UPDATE OK RESET PLEASE" appears on the screen; it might take 15 to 30 seconds to appear.

- If the message "UPDATE NG RESET PLEASE" appears rather than "UPDATE OK RESET PLEASE", please write down the error messages shown on the screen and inform your technical support, while ignoring the following steps.
- 10. Power off the IPCAM when this update process is finished, then remove the SD card from the IPCAM.
- 11. Reconnect the Ethernet cable to the RJ-45 port if necessary.
- 12. Power ON the IPCAM and it will work normally if the entire update procedure goes correctly.
- 13. Verify the version of the system software.

WARNING:

- 1. Don't use FAT32 or NTFS or other file formats in step 1.
- 2. Steps 1 to 3 have to be done on a PC.
- Make sure the file of UPDATE.BIN is a correct one in step 3, or the IPCAM will not work normally after being updated.
- 4. If the power of the IPCAM is suddenly lost in step 8, please remove the SD card first and turn on the IPCAM next to test its operation. If the IPCAM remains working normally, please go back to step 4; otherwise, please inform your technical support.
- 5. In step 10, if the SD card is not removed and the IPCAM does not get online as well, the updating process must be repeated again after rebooting the IPCAM.
- 6. Make sure that the SD card is inserted in a correct position in step 5, or the IPCAM will suffer permanent physical damage.
- If the message "CSUM ERROR" appears in step 8, it implies a problem in the file of UPDATE.BIN.
- 8. Don't interrupt the process while the unit is updating itself; proceed with an SD card not including any system software of the unit, or else the unit will crash.

3.5 IP CAMERA SD card Troubleshooting

- 1. Check if the SD card position is correct or not. Please refer to the manual for the related information.
- After powering the IP CAMERA on, correctly insert the SD card, and a little icon of "SD" will show up in the upper-right corner of the monitor screen. If not, it means the device detection has failed. Please contact your technical support and ignore the following steps.
- If no cross sign appears beside the "SD" icon, please go on to the next step. If a cross sign appears, please check the following:
 - a. Is it really an SD "Memory" Card?
 - b. Is this SD card formatted in the FAT16 format?
 - c. Connect the SD card with a PC and test to see whether the PC can read the data or not.
 - d. Does this SD card still have the capacity for storing data?
 - e. Is the SD card set to write?

If all the answers are "yes" but the cross sign still persists, please contact your technical support and ignore the following steps.

- Please make sure the function of "SD CARD ENABLE" is activated in the ALARM and SCHEDULE pages if no cross sign appears beside the "SD" icon on the screen.
- 5. After recording, read the data on the web page of "sdget.htm". If the data cannot be read through the network, please read it instead in a PC, check the data stored in the "IPCAM" directory and contact your technical support regardless of whether there is data or not.

WARNING:

- 1. Performing this troubleshooting process may need a monitor, a PC, a card reader and some cables.
- 2. If the SD card is removed while storing or accessing data, the data will be lost.
- 3. If there is a cross sign beside the "SD" icon, it means the SD card has been inserted into the IP CAMERA but cannot perform its writing function. Possible reasons are:
 - a. It is not an SD memory card.
 - b. The SD card is unformatted or formatted in a non-FAT16 or non-FAT12 format.
 - c. The file system is damaged.
 - d. The capacity of the SD card is full.
 - e. The SD card is set to be read only.
- 4. Turn off the power before inserting the SD card. Otherwise the unit may shut down.

4. Network Configuration

4.1 Cable Connections

Please follow the instructions below to connect your IP CAMERA to a computer or a network and to choose a proper RJ-45 cable configuration for connections.

Physical specifications of the RJ-45 cable for Ethernet

Wire Type	Cat. 5
Connector Type	RJ-45
Max. Cable Length	100 m
Hub Wiring Configuration	Straight Through
PC Wiring Configuration	Straight

4.1.1 Connect to a computer

Use a straight LAN cable to connect directly to a computer.



CROSSOVER CABLE PIN CONFIGURATION

4.1.2 Connect to a LAN Hub (INTRANET)

The RJ-45 PIN configuration for connecting with a LAN Hub is shown below.



4.2 Configure Your IP CAMERA Network Settings

Upon connecting with the network hardware, you need to activate the network function and configure the proper network settings of the IP CAMERA.

4.2.1 Enable DHCP Function

This function can only work if the LAN, which the unit is connected to, has a DHCP server. If the DHCP server is working, please move the dip switch points up to **3** on the flank panel; now the IP CAMERA will obtain an IP address automatically from the DHCP server. In that case, please skip section 4.2.2 (Set IP address) and follow section 4.3 (TCP/IP Communication Software).

4.2.2 Set IP Address

You need to set an IP address for the unit if the LAN unit isn't connected to a DHCP server. Otherwise, please follow the instructions given below:

Set the IP, MASK and GATEWAY. The following is a sample setting.

IP: 192.168.1.X

MASK: 255.255.255.0

GATEWAY: 0.0.0.0

NOTE: When only one unit of the IP CAMERA is connected to a computer or LAN, you can freely assign an IP address for the IP CAMERA. For example, there is a range of IP CAMERA IP addresses from 192.168.1.1 to 192.168.1.255. You can pick one for use from the range of the IP. It's not necessary to set MASK and GATEWAY; leave the settings as default.

When a IP CAMERA is connected to a WAN, you must acquire a unique, permanent IP address and correctly configure the MASK and GATEWAY settings according to your network architecture. If you have any questions regarding those settings, please consult a qualified MIS professional or your ISP. NOTE: When connecting to a network, each connected IP CAMERA must be assigned a unique IP, which must be in the same class type as your network address. IP addresses are written as four sets of numbers separated by periods; for example, 192.168.1.1 Therefore, if the connected network is identified as Class C, for example, the first three sets of numbers of the IP CAMERA IP address must be the same as the network address. If the connected network is identified as Class B, the first two sets of numbers of the IP CAMERA IP address must be the same as the network address. If you have any questions regarding these settings, please consult a qualified MIS professional or your ISP.

4.3 TCP/IP Communication Software

Follow the procedure below to install the TCP/IP communication program in your computer. Click the **Start** menu from your computer, and point to the **Settings/Control Panel**.



Double click the **Network** icon to enter the windows.

🗟 Control Pa	nel				<u>- 0 ×</u>
<u> </u>	<u>V</u> iew <u>G</u> o	F <u>a</u> vorites			- 200
Back -	➡ Forward	t. Up	い) Undo) Delete	Propertie:
🛛 Address 🗟 I	Control Panel				•
Network	Passwords	Power Management	Printer) I s F	Legional Settings
Telephony		gg) WSP Client			
	23010				<u>▼</u>
1 object(s) selec	ted Config	jures netwc 🛄	My Comput	er	1.

Click the **Configuration** tag, and check if the TCP/IP is included among the network

components list. If the TCP/IP is included, please process section 4.5. If it is not included, please follow section 4.4 to install the TCP/IP.

Network	×
Configuration Identification Access Control	
	1
I he following network components are installed:	L
Client for Microsoft Networks	L
NE 2000 Compatible	L
	L
TCP/IP	
Add Remove Properties	
Prinary Maturark Lagary	
Client for Microsoft Networks	
	L
Eile and Print Sharing	
Description	
TCP/IP is the protocol you use to connect to the Internet and	L
wide-area networks.	L
	1
	1
OK Cancel	

4.4 TCP/IP Installation

High antare Identification Account Co	primot [
to be a second as a second sec	
Clerk to Manual Nemaka NE2000 Corpetite Ph050% corpetite Pateod NedEU3	
44	3
Tenary Retrievel Logon	in type of namedal tomponent you want to install all
Eller and Point Sharing	
Description Definition in Proceedings of States	end E
Mandachant	Network Protocols
Theyer 4	Fait Internet Protocol Profile Protocol Profile Protocol Profile Protocol Proceeding 22-44 DCC Proceeding 22-44 DCC Proceeding 22-44 DCC
	- 10MP
1.	Have Dolt.

During the installation, you will be requested to insert the Windows CD-ROM. After installation, the PC may be restarted.

4.5 TCP/IP configuration setting

Click Start Settings Control Panel Network.

Select TCP/IP, and then click Properties.

Before processing the IP CAMERA installation in a WAN, please make sure the Internet

connection works properly. If not, please contact your ISP provider.

Network 🔹 🕅	TCP/IP Properties		1×1
Network Image: Clear to Microsoft Networks Clear for Microsoft Networks NE2000 Compatible Protocol NetBCUI Topperies Primary Network Logon: Clear tor Microsoft Networks Ele and Print Sharing. Description TCP/NP	CCP/IP Properties Bindings DNS Configuration An IP address can If your network dos your network admr the space below C	Advanced Bateway WINS Confi be extomatically assigned to a stronatically assigned to a stronatically assigned address automatically address 192.168.1 k 255.255.255	P Address guation IP Address d to this computer in IP addresset, ank ind then type it in
OK Cancel		OK	Cancel

If you are using a DHCP server, please select <u>Obtain an IP address automatically</u>. Any assigned IP address for the connected IP Cameras must be in the same class type as the server. If there is no DHCP server, please select <u>specify an IP address</u> and type in the IP address of your PC. This IP address must be different from other network IP devices but in the same class type.

NOTE: The IP address of a IP CAMERA in a network must be unique to itself as opposed to those of the other chosen PCs, but in the same class type.

4.6 Connection Testing

With the previous settings, follow the instructions below to ensure whether you have established the connection successfully.

Click Start Programs MS-DOS Prompt



Type in ping 192.168.1.168, then enter. (See the sample screen below).

** This IP is the IP CAMERA IP address that is assigned for the connected IP CAMERA in step2.



If you receive a response as in the sample screen below, the connection hasn't been successfully established. Please re-check all the hardware and software installations by repeating steps 1 to 5. If you still can't establish the connection after rechecking, please contact your dealer.

MSCOLER T	
Microsoft(R) Windows 98 (C)Copyright Microsoft Corp 1981-1999.	
type IP CAMERA IP address	
Pinging192.168.1.168 with 32 bytes of data:	
Destination host unreachable. Destination host unreachable. Destination host unreachable. Destination host unreachable.	
Ping statistics for 192.160.1.160: Packets: Sent = 4, Received = 0, Lost = 4 (100% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms	
C:\WINDOWS>	

If you receive a response as in the sample screen below, you have successfully made the

connection.

Microsoft(R) Windows 98 (C)Copyright Microsoft Corp 1981-1999.	
Microsoft(R) Windows 98 (C)Copyright Microsoft Corp 1981-1999.	
C:\WINDOWS>ping 192.168.1.168 type IP CAMERA IP	address
Reply from 192.168.1.168 bytes=32 time<10ms TTL=128 Reply from 192.168.1.168 bytes=32 time<10ms TTL=128 Reply from 192.168.1.168 bytes=32 time<10ms TTL=128 Reply from 192.168.1.168 bytes=32 time<10ms TTL=128	connection is successful
Ping statistics for 192.168.1.168 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms	
C:\WINDOWS>	
Minimum = Oms, Maximum = Oms, Average = Oms C:\WINDOWS>	

5. Operating Instructions for Image Software and Network

Two choices of software are available for linking with the IP CAMERA: (1) the Microsoft Internet Explorer; and (2) the IP CAMERA VIEWER, a network browser in a PC which provides the functions of monitoring remote zones or watching recorded data through the TCP/IP protocol. The details are listed as follows.

PIN NO.	PIN Assignment
1.	TX +
2.	TX -
3.	RX +
4.	Not Connected
5.	Not Connected
6.	RX -
7.	Not Connected
8.	Not Connected

RJ-45 PIN configuration for Ethernet



Physical specification for Ethernet

Wire type	Cat. 5
Connector type	RJ-45
Max. cable length	100 m
Hub wiring configuration	Straight Through or Cross Over
PC wiring configuration	Straight Through or Cross Over

5.1 Microsoft Internet Explorer

5.1.1 Connecting the IP CAMERA

- Start up the Microsoft Internet Explorer, and then follow the steps below to connect the IP CAMERA.
- 2. Click the URL block at the top of the window.
- 3. Enter the URL address of the IP CAMERA into the URL block and press the "Enter" button to enter the home page.
- Scroll to the bottom of the page, with its five icons, "Image", "Network", "System", "Application" and "SD card". Whichever you click, the page headlined "Enter Network Password" will appear.
- 5. Type in the "User Name" and "Password" in the appropriate spaces.
- 6. Click the "**OK**" button to set your entries, and automatically exit the page.

NOTE: The default "User Name" and "Password" are root and Admin respectively.

- NOTE: The page headlined "Enter Network Password" is shown below. Please enter the user name and password of the IP CAMERA when you see it. If either the user name or the password is incorrect, please check the input data and rectify it if necessary.
- NOTE: Once authorized successfully, it will not appear again until you close the window and reconnect it.
- NOTE: The initial sequence of proceeding is to type in your IP address and click the "Enter" button to access the home page. If and when you revise or change data in the "SYSTEM USERS" page, the sequence will alter to initially show the "Enter Network Password" page.



Browsing images from the IP CAMERA

The images from the IP CAMERA will be displayed on the home page while going online with the IP CAMERA. Some buttons of the home page are provided for further setting. In MJPEG mode or in MPEG4 mode, there are different display formats of its home page.





Homepage of MJPEG mode

Homepage of MPEG4 mode

- Click the **Image** button to enter the image-setting page.
- Click the **Network** button to enter the network-setting page.
- Click the **System** button to enter the system-setting page.
- Click the **Application** button to enter the application-setting page.
- Click the SD card button to open the SD card- FILELIST of the MEMORY CARD window, if the SD card is inserted.
- Click the **Pan/Tilt** button to change the Pan/Tilt/Zoom settings.
- Click the ______button to change the time/date display mode.
- Click the button to switch high/low speed network.
- Click the button to play the live audio. Click once again to deactivate.
- Click the button to archive AVI videos into your PC. Click once again to deactivate. In the recording mode, there will appear a red twinkling icon in the upper-right hand corner of the image. The AVI file will be saved in the path of c:\ IPCAM \ and its filename will be named as the format of IPCAM_IPCAM_20051110134834.avi
- Digital zoom function: Click the left mouse button on the video display area, and it will show the zoom-in images. Double click the left mouse button to see the maximum size. Click the right mouse button on the video display area, and it will show the zoom-out images. Double click the right mouse button to come back to the normal size.

5.1.2 Change Image Setting

Please follow the steps below to change the image setting through the network if necessary.

1. Click the **Image** button on the home page to enter the image-setting page.



Image setting page of MJPEG mode

Image setting page of MPEG4 mode

- Adjust the image setting including "Device Title", "Resolution", "Quality", "Frame rate" (MPEG4 mode only), "Format", and "Viewer Type" (MJPEG mode only) if necessary.
- 3. Click the **Submit** button to submit the new image setting.
- Click the Fine Tune button to enter the Image Fine Tune page to set the details of the device including: "Brightness", "Saturation" and "Sense Up". Click the Default button to reset all the settings.
 - NOTE: The revised image will appear immediately after any change in made.



5. Click the Privacy Mask button to enter the Privacy Mask page.



6. Click the **Home** button to return to the home page while the new image setting acts on the images to effect the desired changes instantly. (If the setting has not been changed by the above steps, any (re)entry onto the home page will find images in their earlier or original setting.)

Exchange the image format

- 1. Tick on one of the formats then press the **Submit** button.
- 2. The IPCAM will restart automatically after several seconds.

Description of function keys:

MPEG4 mode:

Device Title: Type in the camera title in the given space.

Resolution: Scroll to choose the image resolution from "VGA" or "QVGA".

- Quality: Scroll to choose the image quality out of a spectrum of qualities ranging from "highest", "high", "medium", and "low" to "lowest". In MPEG4 mode, you can also set the quality by typing in the value. The custom quality value must be in the range between 64 Kbps to 8192 Kbps.
- Frame rate: Click the drop-down list to choose the frame rates of "15FPS", "24FPS" or "25FPS".

Format: Click to choose the "MJPEG" or the "MPEG4" mode.

Fine Tune mode

Brightness: Enter your desired quality of image brightness from a spectrum of 0 to 255.

Saturation: Type in the saturation level in the blank (0 to 255).

MJPEG mode:

Viewer type: Click to choose the viewer type of the "ActiveX" or "AJAX" mode.

Submit: Click to submit the new image setting to the IP CAMERA.

Default: Click this button to install the default settings in all the entries for image parameters on this page.

5.1.3 Change the Network Setting

Please follow the steps below to change the network settings through the network if necessary.

- <u>Set the network options and IP address.</u>
- 1. Click the **Network** button in the home page to enter the Network page.

Network FTP SMTP	Use of Dyn	samic 1P Configuration(80019	P/DHCP) Allowed.	
FTP SMTP	The Address of			
SATP DONS PPPGE UPriP Traffic	Produces: Netmask: Default Gatew Primary Name HTTP Port:	192 - 1 255 - 3 192 - 1 server: 192 - 1 80 Submit	108 · 0 · 92 255 · 252 · 0 168 · 1 · 254 168 · 1 · 11	
				AU

- 2. The accessible networks here are the "FTP" (MJPEG mode only), the "SMTP" (MJPEG mode only), the "SNTP", the "DDNS", the "PPPoE", the "UpnP" and the "Traffic".
- Fill in the "IP Address", "Netmask", "Default Gateway", "Primary Nameserver", and "HTTP Port" if necessary.
- 4. Click the **Submit** button to submit the new network setting.
- 5. Click the **Home** button to return to the home page.

Description of function keys:

- **IP Address:** Enter the 4-byte IP Address in the appropriate blank space (the value in each box may be anywhere between 0 and 255). Every Network camera has to own an IP address to be identified on the network.
- **Netmask:** Fill in the 4-byte Subnet Mask in the required blank spaces (usually any number between 0 and 255). It is used to identify the subnet where the Network camera is sited.
- **Default Gateway:** Type in the 4-byte Gateway in the relevant blank space (each unit value must be between 0 and 255).
- **Primary Nameserver:** Enter the 4-byte DNS Server Address in the blank space provided (each value unit must be between 0 and 255). The DNS Server is in charge of translating the Domain Name into the IP Address.
- HTTP Port: Indicates the specific HTTP Port Number. The default is 80.
- Submit: Click to submit the new network setting to the Network camera.

• Change the Network Setting — FTP (MJPEG mode only).

Please follow the steps below to change the FTP setting via the network if necessary to upload recording data live.

1. Click the FTP button at top left to enter the "FTP Server Setting" page.

	FTP	Server Setting		
Network FTP SMTP DONS PPPoE UPvP Traffic	PTP Server: User Name: Password: File Upload Path:	192.168.1.1 guest /tmp Submit	Port: 21	
		FTP Application Setting FTP Schedde FTP Record FTP Alarm FTP Server Login		

- 2. Type in the "FTP Server" address, the "User Name", and the "Password" of the FTP Server; and set the "File Upload Path" of the image files when necessary.
- 3. Click the **Submit** button to submit the new FTP setting of the recording.
- 4. Click the **Home** button to return to the home page.

Description of function keys:

FTP IP Address: Enter the FTP server DOMAIN NAME in the appropriate blank space.

- User Name: Fill in the FTP login user name in the attached blank space (if the data is not provided, warning messages will show up).
- **Password:** Type in the FTP login password in the attached blank space (if the space is blank, warning messages will show up).
- File Upload Path: Enter the file upload path while setting the FTP.
- Submit: Click to submit the new FTP setting to the Network camera.

• Change the Network Setting — SMTP (MJPEG mode only).

Please follow the steps below to change the SMTP setting through the network if necessary.

1. Click the **SMTP** button at upper left above to enter the "SMTP Server Setting" page.

Network My Server Requires Authentication FTP Account Name: SMTP Password: DDNS Sender: DDNS Sender: USVP Email Address: Traffic Submit	Network FTP SNTP DDNS PPPoE UPoP Traffic	My Server Req. Account Name: Password: Sender: SMTP Server: Email Address:	Jres Authentication	on 	3	
SMIP Application Setting SMIP Alarm			54	bmit .]	
			SMIP Apple SMIP Alarn	ation Setting		

- 2. Click "My Server Requires Authentication" to checkmark the attached box and activate the function.
- 3. Fill in the Sender name, DOMAIN NAME of the SMTP server, and set the recipient's e-mail address if necessary.
- 4. Click the **Submit** button to submit the new SMTP setting.
- 5. Click the **Home** button to return to the home page.

Description of function keys:

Account Name & Password: Fill in the account name and password if you check marked the "My

Server Requires Authentication" function.

SMTP Server: Enter the SMTP server DOMAIN NAME in the given blank space.

Email Address: The recipient's e-mail address.

Submit: Click to submit the new SMTP setting to the Network camera.

• <u>Change the Network Setting — SNTP.</u>

Please follow the steps below to change the SNTP setting through the network if necessary.

1. Click the **SNTP** button at upper left above to enter the "SNTP Server Setting" page.

		SNTP Ser	ver Setting			
Network FTP SMTP DONS PPPOL UPr/P Traffic	SNTP Server: Time Zone:	1	92.168.1.6 PHT+00 Tapei,Ht Automatically me Changes. Submit	ing Kong,Deij Adjust for Da	ng 👻 Yight Saving	
		s	NTP Date and Tin	10		
						(JA)

- 2. Enter the IP Address of the SNTP server, and choose one of the time zones as and when necessary.
- 3. Click "Automatically Adjust for Daylight Saving Time Changes" to checkmark the attached box and activate the function.
- 4. Click the Submit button to submit the new SNTP setting.
- 5. Click the **Home** button to return to the home page.

Description of function keys:

SNTP Server: Enter the SNTP server DOMAIN NAME in the blank space provided.

Time Zone: As we know, the globe is divided into various time zones. The user must enter his/her

time zone. If this is not done, the time given by the unit may be incorrect.

Submit: Click to submit the new SNTP setting to the Network camera.

• Change the Network Setting — DDNS.

The "Network" page has, on its upper left, the "DDNS" icon. Please follow the steps below to change the DDNS setting through the network if necessary.

1. Click the **DDNS** button at upper left above to enter the "DDNS Setting" page.

		DDNS	Setting		
Network FTP SMTP SVTP DONS PPPGE UPvP Traffic	Enable DDN DDNS Type DDNS Host Nar DDNS Account DDNS Passwor	5 Function	synDre: 🛫 Appih		

- 2. Click "Enable DDNS Function" to checkmark the attached box and activate the function.
- 3. Click "DDNS Type" to open the list of three DDNS modes to choose from: "DynDNS", "hn", and "adsldns". Click the "Apply" button and connect their website automatically and visit it. Type in your dynamic IP Address and Email Address. If they are accepted by the website, you will get an Email containing your DDNS Account and DDNS Password in your Email box.
- 4. Type in the "DDNS Host Name", the "DDNS Account" and the "DDNS Password".
- 5. Click the **Submit** button to submit the new setting.
- 6. Click the **Home** button to return to the home page.

NOTE: Please refer to section 5.1.8 (PPPoE & DDNS) for more details.
Description of function keys:

Enable DDNS Function: Checkmark to activate the function.

DDNS Type: Click to open the list of three DDNS modes to choose from: "DynDNS", "hn", and "adsldns". Click the "Apply" button and connect this website automatically and enter it. Type in your dynamic IP Address and Email Address. If they are accepted by the website, you will get an Email containing your DDNS Account and DDNS Password in your Email box.

DDNS Host Name: Type in your host name in the attached space.

DDNS Account: Enter it in the given space.

DDNS Password: Enter it in the required space.

• <u>Change the Network Setting — PPPoE.</u>

The "Network" page has, on its upper left, the "PPPoE" icon. Please follow the steps below to change the PPPoE setting through the network if necessary.

1. Click the **PPPoE** button at upper left above to enter the "PPPoE Setting" page.

Network PPPoE is inactive. FTP SMTP PPPOE Mode: OFF DONS Account: PROUL Password: UPvP Traffic Submit All PPPoE setting takes effect after rebooting! PPPOE Troubleshooting.			PPPoE	Setting			
SMIP PPPoE Mode: DFF SMTP PPPoE Mode: DFF DONS Account: PPPoL Password: Urve Submit Submit All PPPoE setting takes effect after rebourting! PPPoE Inoubleshooting.	Network	PPPoE is inac	tive.				
UPr0 Traffic Submit All PPPOE setting takes effect after rebooting! PPPOE Troubleshooting.	SMTP SNTP DONS	PPPoE Mode: Account: Password:		FF 👱			
All PPPoE setting takes effect after rebooting PPPoE Troubleshooting.	UPr@ Traffic		1	Submit			
©∪			P	PPPoE setting PoE Troublesho	takes effect a oting.	fter rebooting	
							ωU

- 2. Please read the "PPPoE Troubleshooting" document first, then press "Close' button.
- 3. Click the "PPPoE mode" to activate the function.
- 4. Type in the PPPoE "Account" and the PPPoE "Password".
- 5. Click the **Submit** button to submit the new setting.
- 6. Click the **Home** button to return to the home page.

NOTE: Please refer to section 5.1.8 (PPPoE & DDNS) for more details.

Description of function keys:

PPPoE mode: Click your choices to enable the PPPoE function.

Account: Enter it in the given space.

Password: Enter it in the required space.

• Change the Network Setting — UPnP.

The "Network" page has, on its upper left, the "UPnP" icon. Please follow the steps below to change the UPnP setting through the network if necessary.

1. Click the **UPnP** button at upper left above to enter the "Universal Plug and Play" page.

	Univ	versal Plu	ig and Play	0	
Network FTP SMTP DONS PPPDE Traffic	E Brable UPrP Max Expired Age SSDP Port: UPrP Port:	: 120 190 567 Memory Ca	Seconds Default: a rd Access Submit	(10 ~ 3600) 1900	
					(\bigcirc)

- 2. Click "Enable UPnP" to checkmark the attached box and activate the function.
- 3. Type in the UPnp "Max Expired Age", the "SSDP Port" and the "UpnP Port".
- 4. Click "Enable UpnP Memory Card Access" to checkmark the attached box and activate the function.
- 5. Click the **Submit** button to submit the new setting.
- 6. Click the **Home** button to return to the home page.

Description of function keys:

Max Expired Age: Enter it in the given space from a range of 10~3600.

SSDP Port: SSDP stands for Simple Service Discovery Protocol. SSDP searches for upstream Internet gateways using UDP port 1900.

UpnP Port: Type in the UpnP Port in the attached space.

• Change the Network Setting —Network Traffic.

The "Network" page has, on its upper left, the "Traffic" icon. Please follow the steps below to change the UPnP setting through the network if necessary.

1. Click the Traffic button at upper left above to enter the "Network Traffic" page.

Network Specify the maximum donwload/upload bandwidth per each socket is a useful function when connecting your device to busy or heavily loaded networks. SMTP Interview is a useful function when connecting your device to busy or heavily loaded networks. SMTP Interview is a useful function when connecting your device to busy or heavily loaded networks. SMTP Interview is a useful function when connecting your device to busy or heavily loaded networks. SMTP Interview is a useful function when connecting your device to busy or heavily loaded networks. Image: Interview is a useful function when connecting your device to busy or heavily loaded networks. Interview is a useful function when connecting your device to busy or heavily loaded networks. Image: Interview is a useful function when connecting your device to busy or heavily loaded networks. Interview is a useful function when connecting your device to busy or heavily loaded networks. Image: Interview is a useful function when the provide the top is a useful function when the provide the top is a useful function of the provide the provide the top is a useful function of the provide the top is a useful function of the provide the provid		1	Network Traffic		
DDNS Maximum Upload 0 kilo Bytes Per Second DPND Bandwidth: 0 kilo Bytes Per Second DPND Bandwidth: 0 kilo Bytes Per Second Drath Bandwidth: 0 kilo Bytes Per Second Submit Submit Submit Submit	Network FTP SMTP SNTP	Specify the may socket is a usefi or heavily loade	émum donwload/up ul function when cor d networks.	load bandwidth p inecting your devi	er each ce to busy
	DDNS PPPAE UPNP Tratfic	Maximum Upload Bandwidth: Maximum Downki Bandwidth:	ad (0 ~ 1 0 (0 ~ 1 Submit	kilo Bytes Per Si 02400) Kilo Bytes Per Si 02400)	cond

- 2. Type in the "Maximum Upload Bandwidth" and the "Maximum Download Bandwidth".
- 3. Click the Submit button to submit the new setting.
- 4. Click the **Home** button to return to the home page.

Description of function keys:

Maximum Upload Bandwidth: Enter it in the given space from a range of 0 to 102400.

Maximum Download Bandwidth: Enter it in the required space from a range of 0 to 102400.

5.1.4 Change the System Setting

Please follow the steps below to change the date and time of the system setting through the network if

necessary.

- <u>Set the Date and Time of the system</u>
- 1. Click the **System** button in the home page to enter the "Date and Time" page (default).

Data and time Users Digital I/D Audio Mechanism RS232 Setting RS485 Setting	The Local Time Date: 2007/05/24 Time: 14:19:944 The Desired Time O Set Manually Date: 2007 / 05 / 24 (YYYY,MM/DD)
Update Events	Time: 14 = 1 20 = : 16 (+1:M4:S5) O Synchronize with Computer Time Date: 2007/05/24 Time: 14:19:19 O Synchronize with SMTP Server SMTP Server: 192.168.1.6 Time Zone: G4T + 00 Tablet, theijing, Chongquing, Ununci, Hong Kong, Perth,
17	Submit Submit

- Choose one of the three modes shown on the page to set the Date and Time of the system. The three
 modes are "Set Manually", "Synchronize With Computer Time", and "Synchronize With SNTP
 Server".
- 3. Click the **Submit** button to submit the new Date and Time settings.
- 4. Click the **Home** button to return to the home page.

Description of function keys:

The Local Time: Shows the current date and time of the Network camera.

Set Manually: Manually sets the date and time of the Network camera.

Synchronize With Computer Time: Synchronizes with the linking computer.

Synchronize With SNTP Server: Synchronizes with the SNTP server. In this mode, two choices of adjusting are provided: doing it manually or setting the frequency to enable the system to do it automatically.

Submit: Click to submit the new setting to the Network camera.

Change the System Setting — Timestamp. (For High Resolution CCD Network camera only)

Please follow the steps below to change/add the timestamp through the network if necessary.

 Click the **Timestamp** button on the left side of the "System - Date and Time" page to enter the "System - Timestamp" page.

Date and Time Timestamp Color: Digital 1/0 Audio Michanism R5232 Setting R5485 Setting Update Liptic Liptic Liptic Liptic Lip				limestamp		
	Date and Te TruesLarge Digital L/O Audio Mecha RS232 Setta Update Events	anism ng ng	Erable Timestam Timestamp Color: Timestamp Location Timestamp Format:	P DLACK Y UPPER LOT W/MM/DD Submit	2 2	(At)

- 2. Click "Enable Timestamp" to checkmark the attached box and activate the function
- 3. Add or modify any timestamp's data if necessary.
- 4. Enter the "Timestamp Color" you have chosen.
- 5. Enter the "Timestamp Location" you have chosen.
- 6. Enter the "Timestamp Format" you have chosen.
- 7. Click the **Submit** button to submit the new user's setting.
- 8. Click the **Home** button to return to the home page.

Description of function keys:

Enable Timestamp: Checkmark to activate the function.

- Timestamp Color: Click to open the list of eight color modes to choose from: "BLACK", "WHITE", "RED", "ORANGE", "YELLOW", "GREEN", "BLUE", and "PURPLE".
- **Timestamp Location:** Click to open the list of four location modes to choose from: "UPPER LEFT", "UPPER RIGHT", "BOTTOM LEFT", and "BOTTOM RIGHT".
- Timestamp Format: Click to open the list of six format modes to choose from: "YY/MM/DD", "MM/DD/YY", "DD/MM/YY", "YY/MM/DD TITLE", "MM/DD/YY TITLE", and "DD/MM/YY TITLE".

• Change the System Setting — Users.

Please follow the steps below to change/add the users' authority through the network if necessary.

1. Click the **Users** button on the left side of the "Date and Time" page to enter the "Users" page.

Date and Time User User User User User User User Use			Users			
Update Events Add/Modify User User Name: Password: Confirm: Authority: Submit	Date and Time Uses Digital I/O Audio Mechanism RS282 Setting RS485 Setting	User List: admin:Admin	Delete User)		
Password: Confirm: Authority: O Admin O Operator O Wewer Stubernt	Update Events	Add/Modify User User Name:				
Submit		Password: Confirm: Authority:	O Admin O O	perator O Vew	e	
			Submit			

- 2. Add, modify or delete any user's data if necessary.
- 3. Click the **Submit** button to submit the new user's settings.
- 4. Click the **Home** button to return to the home page.

Description of function keys:

User List: The list shows the registered user(s) and the corresponding authority.

Delete: Deletes a selected user.

Name: Enter the user's name, which will be added or modified.

Password: Enter the new password of the user's name above.

Confirm: Type in the password again for verification.

Authority: Choose an authority option of the user's name from: Admin, Operator, and Viewer.

Submit: Click to submit the new setting to the Network camera.

• Change the System Setting — Digital I/O.

Please follow the steps below to change the Digital I/O through the network if necessary.

 Click the **Digital I/O** button on the left side of the "Date and Time" page to enter the "Digital I/O Setting" page.

		Digital I/O Setting	د ومدا براماند استولند. م
Date and Time Users Donal DO Audio Mechanism RS232 Setting RS485 Setting Update Events	Digital Input : Digital Output :	SON OOFF Active Type: LOW SON OOFF Active Type: LOW Submit	*

- 2. Mark the "Digital Input" "ON" or "OFF" and the "Digital Output" "ON" or "OFF". Click your choices to enable.
- 3. Click the **Submit** button to submit the new user's settings.
- 4. Click the **Home** button to return to the home page.

Description of function keys:

Digital Input: Select "ON" or "OFF" to use the GPIO connector or shut it down.

Digital Output: Select "ON" or "OFF" to use the GPIO connector or deactivate it.

• Change the System Setting — Audio Mechanism.

Please follow the steps below to change the Audio Mechanism through the network if necessary.

 Click the Audio Mechanism button on the left side of the "Date and Time" page to enter the "Audio Mechanism Setting" page.

		Au	dio Mech	anism Settin	9	diama d	विद्य हिंदी होत
Date and Tim Users Digital I/O Pasto Mecha RS232 Settin RS485 Settin Update Events	e d d	Audo Mechani	em: (OON OOFF			
							θU
	- Barrow Sectors	Advances of the second s		distanting with the second	the stand	1 Diana Children	

- 2. Mark the "Audio Mechanism" "ON" or "OFF".
- 3. Click the **Submit** button to submit the new user's settings.
- 4. Click the **Home** button to return to the home page.

NOTE: This setting is for turning the audio mechanism of the Camera on/off automatically. The Live audio service is only provided in the MPEG4 mode via the Web browser.

Description of function keys:

Audio Mechanism: Select "ON" or "OFF" to activate or deactivate the function.

• Change the System Setting — RS485 Setting.

Click the **RS485 Setting** button on the left side of the "Date and Time" page to enter the "RS485 Setting" page.

	F	85 Setting
Date and Time Users Digital I/O Audio Mechanism RS232 Setting RS285 Setting	Baud Rate: Type: Device ID:	6600 bps
Update Events	Transmit Data Via RS48 © Raw Format: © Canonical Format:	
		Send Clear

Description of function keys:

Baud rate: Eight different speeds can be used: 2400 baud per second, 4800 baud, 9600 baud,

19200 baud, 28800 baud, 38400 baud, 57600 baud and 115200 baud.

Type: Choose one of the types.

Device ID: You have the option of using an ID code (any number between 1 and 255).

Raw format: Set to transmit the ASCII codes.

Canonical format: Set to transmit the character string.

• Change the System Setting — Update Firmware.

Please follow the steps below to change the Audio Mechanism through the network if necessary.

- 1. Click the **Update Firmware** button on the left side of the "Date and Time" page to enter the
 - felt pet stell smell Update Firmware Date and Time Current Version Description Users 1.00 Kernel Version: Digital 1/0 BIOS Version: 1.16 Audio Mechanism Software Version: 1.27 R\$232 Setting RS485 Setting Comple Date & Time: May 28 2007,12:48:05 Lindate HTML Version: 1.1.35 Events ActiveX Version: 1.0.2.7 Update the device with the latest firmware. Specify the firmware to update : Browne____ and click Update Note: Do not disconnect the power of the device, during the update. The device restarts automatically after the update has completed. (30-60 seconds.) CU Image Network System Application SD Card Part/Tilt NetworkCam
 - "Update Firmware" page.

- 2. Click the "Browse..." button to select the UPDATE.BIN file which was copied into your computer.
- 3. Click the "Update" button.
- 4. DO NOT power off the Network camera while this update process is running.

Note: Don't interrupt the process while the unit is updating itself.

Note: Please make sure that the UPDATE.BIN file is fit in with the model of the unit. Updating with the wrong UPDATE.BIN file may cause any physical damage to the device.

• <u>View the Event Logs.</u>

Please follow the steps below to view events through the network if necessary.

1. Click the **Events** button on the upper left above to enter the "Event Log" page.

			1	Event	Log					
Date and Time	Item	Date and	1 Time	Even	ts					
11 martin	1. 1. 1	007-05-24 1	4:42:42	admin	LOGIN O	K FROM	192.16	8.0.242		
users	2. 2	007-05-24 1	4:34:26	admin	LOGIN 0	K FROM	192.16	8.0.242		
Digital I/O	3. 2	007-05-24 1	4:19:36	admin	LOGIN 0	K FROM	192.16	8.0.242		
Audio Mechanism	4. 2	007-05-24 1	4:10:40	admin	LOGIN 0	K FROM	192.16	8.0.242		
BC222 Cattleon	5. 2	007-05-24 1	4:04:56	CHEO	OISK FIL	E SYSTI	M FINIS	HED		
Kazaz setung	6. 7	007-05-24 1	4:04:53	GET D	HCP 192.	168.0.9	2 FROM	192.16	1.1.11	
R5485 Setting	7. 1	007-05-24 1	4:04:53	LOCAL	IP ADDR	IESS IS 1	97.168	0.97		
Update	8. 7	007-05-24 1	4:04:52	SD CA	RD SIZE 3	1932160	KB			
Charter.	9. 2	007-05-24 1	4:04:49	SYSTE	M ETHER	NET RE-	CONNEC	I		
enante	10. 3	007-05-24 1	4:04:49	LOAD	156 FILE	(S) TO F	LASH FI	LE SYST	EM	
	11. 1	007-05-24 1	4:04:49	IMAGE	MODE IS	JPEG				
	12. 2	007-05-24 1	4:04:49	SYSTE	M BOOTB	HG				
	13. 2	007-05-24 1	4:02:18	admin	LOGIN O	K FROM	192.16	8.0.242		
	14. 2	007-05-24 1	3:55:59	CHEO	DISK FIL	E SYSTI	M FINIS	HED		
	15. 2	007-05-24 1	3:55:56	GET D	HCP 192.	168.0.9	2 FROM	192.160	8.1.11	1
	16. 2	007-05-24 1	3:55:56	LOCAL	IP ADDR	ESS IS 1	92.168.	0.92		
	17. 2	007-05-24 1	3:55:55	SD CA	RD SIZE 3	932160	KB			
	18, 2	007-05-24 1	3:55:52	SYSTE	M LTHER	NET RE-	COMMEN	1		
	19. 3	007-05-24 1	3:55:57	LOAD	156 FR.E	(S) TO I	LASH H	LE SYST	EM .	2
	20. 3	007-05-24 1	3:55:52	INAGI	WODE IS	JPEG				
		6	First Pag		Previo	us 20	Ne	xt 20		
		-		Count 6			-			(De)

2. Choose one of the three buttons shown on the page to view an event when necessary. The three buttons are titled "First Page", "Previous 20", and "Next 20".

Description of function keys:

First Page: Displays the first page.

Previous 20: Displays the previous 20 pages.

Next 20: Displays the next 20 pages.

5.1.5 Change the Application Setting

Please follow the steps below to change the application setting through the network if necessary.

<u>Change the Application Setting — FTP Application Setting (MJPEG mode only).</u>

Please follow the steps below to change the FTP setting via the network if necessary to upload recording data live.

 Click the Application button on the home page to enter the "FTP Application Setting" page (default).

	FTP App	blication Setting		
Setting FID SD Card SMTP Language Record	FTP Networking FTP Server: Uter Name: Pile Upload Path:	192.168.1.1 Port: 21 guest /tmp		
Enable Record Scheckale Alarm Enable Alarm Motion Detection	Storage Setting Pre-Alarm Memory Buffer: Alarm Memory Buffer: Upload Rate:	0 Image(s) 0 Image(s) 25F/15 💌 Submit		
			_	θU

- For the storage setting, type in the required number of images you wish to set in "Pre Alarm Memory Buffer" and "Alarm Memory Buffer respectively" in their corresponding blank spaces.
- 3. Enter the "Upload Rate" you have chosen.
- 4. Click "Submit" after each of the above entries for their settings.
- 5. Click the "Home" button to return to the home page.

Description of function keys:

Pre – Alarm Memory Buffer: Fixes the desired number of images to prelude an alarm.

Alarm Memory Buffer: Determines the selected length of the image buffer after an alarm.

Upload Rates: Sets the upload speed rate.

• Change the Application Setting — SD Card Application Setting.

Please follow the steps below to change the SD CARD setting via the network if necessary to upload recording data live.

1. Click the SD card button on the top left to enter the "SD Card Application Setting" page.



SD Card setting page of MJPEG mode

SD Card setting page of MPEG4 mode

- You have an option as to which SD card storage format to use, the MJPEG (MJPEG mode only) or the AVI. Click your selected format and click "Submit" to set it.
- 3. If it's MJPEG you want, fill in the "Max MJPEG Numbers" entry.
- If AVI is your choice, enter its recording rate and duration in seconds, and click "Submit" for their setting.

Description of function keys:

MJPEG Format: One image per file.

Max MJPEG Numbers: Sets the number of file sequences you can save per second.

AVI Format audio setting: Unlike a single - image file, this option offers a selected section of a video

record.

Recording Rate: Sets your chosen frame rate of frames per second.

AVI Duration: Predetermines the length of each video file in terms of seconds.

Enable SD Card Rewrite: Tick to activate the SD card rewrite function.

SD Card Capacity: The free capacity of the SD card.

SD Card Usage: The percentage of the recorded file on the SD card.

SD Format . Click and press the Yes button to format the SD card.

<u>Change the Application Setting — SMTP Application Setting (MJPEG mode only).</u>

Please follow the steps below to change the SMTP setting via the network if necessary.

1. Click the **SMTP** button on the left side to enter the "SMTP Application Setting" page.

	CATE	Annillen	Han Cattle		
	amp	Applica	uon setun	J	
Setting FTP SD Card	SMTP Networking SMTP Server: Email Address:	192 gue	168.1.1 stgilocalhost		
Language Record Enable Record Schedule	Storage Setting Attatched Fie Numbers:	1	-		
Alarm Enable Alarm Motion Detection			Submit		
					θU

- 2. Enter the attached file number as and when necessary. The maximum number which can be used is 8.
- 3. Click the **Submit** button to submit the new SMTP setting of the recording.
- 4. Click the **Home** button to return to the home page.

Description of function keys:

File numbers: Sets the quantity of images per Email.

• Change the Application Setting —Language Setting.

Please follow the steps below to change the Language setting via the network if necessary.

1. Click the **Language** button on the left side to enter the "Language Setting" page.

		Language	setting		
Setting FIP SD Cand SMTP P Campatage Record Enable Record Schedule Alarm Enable Alarm Motion Detection	Language:	in	jinh(Englinh) Submit	¥.	
					(Dec)

- 2. You have an option as to which language to use. The default is "English"
- 3. Click your selected language and click "Submit" to set it.

• Change the Application Setting —Record Application Enable Setting.

Please follow the steps below to change the setting via the network if necessary.

1. Click the Enable Record button on the left side of the record to enter the "Record Application

Enable Setting" page.

		Column Calify Tang Stat		00000		The second	stant 14	10,110,1
Inting FP S0.Canil Longung Exceed a <u>Constant</u> Actestion Constant Marm Padra delectors	Record Application freede Setting		Betting 60 Card Language Becord © Counter Strained Tableto Alarm Padae Catacities	Record	Application trucké S and - Save Into Ok Card	etting		
		⊛U						Đυ

Record setting page of MJPEG mode

Record setting page of MPEG4 mode

- Click "Enable Record UPLOAD Via FTP" to checkmark the attached box and activate the function (MJPEG mode only).
- Click "Enable Record Save Into SD card" to checkmark the attached box and activate the function.
- 4. Click the **Submit** button to submit the new setting of the recording.
- 5. Click the **Home** button to return to the home page.

Description of function keys:

Enable Record – Upload Via FTP: Activates or deactivates the recording to the FTP server.

Enable Record - Save Into SD Card: Activates or deactivates the recording to the SD card.

<u>Change the Application Setting — Record - Schedule.</u>

0 21 22 23
++++

1. Click the Application button on the home page to enter the "Schedule" page.

- Check/uncheck any/all of the first seven boxes set vertically in the upper half of the "Schedule" page to enable/disable the programmed recording function, and vary the setting of the targeted item while it is enabled.
- 3. Click the **Submit** button to submit the new schedule setting.
- 4. Click the Remove All Schedules button to clear out all the data of the schedule setting.

Description of function keys:

- **Schedule:** Check / uncheck the first seven boxes in a vertical row on the left to enable/disable the programmed scheduled recording function if necessary. Vary any of the schedules of the recording setting if necessary (please refer to the above description).
- Chart: Schedule list.
- Submit: Click to submit the new setting to the Network camera.
- Remove All Schedules: Click to clear out all the data of the schedule setting.

• Change the Application Setting — Alarm Application Enable Setting.

Please follow the steps below to change the setting via the network if necessary.

 Click the Enable Alarm button on the left side of the record to enter the "Alarm Application Enable Setting" page.



MJPEG mode

MPEG4 mode

- 2. Click "Enable Alarm Trigger an Alarm When Ethernet Is Lost" to checkmark the attached box and activate the function.
- Click "Enable Alarm Upload Via FTP" to checkmark the attached box and activate the function (MJPEG mode only).
- 4. Click "Enable Alarm Save Into SD card" to checkmark the attached box and activate the function.
- 5. Click "Enable Alarm Upload Via SMTP" to checkmark the attached box and activate the function (MJPEG mode only).
- 6. Enter the "Alarm Duration" you have chosen.
- 7. Click the **Submit** button to submit the new setting of the recording.
- 8. Click the **Home** button to return to the home page.

Description of function keys:

Enable ALARM – Trigger an Alarm When Ethernet Is Lost: Activates or deactivates the alarm triggering while the Ethernet lost.

Enable Alarm - Upload Via FTP: Activates or deactivates the alarm recording upload to the FTP.

Enable Alarm – Save Into SD card: Activates or deactivates the alarm recording to be saved to the SD card.

Enable Alarm – Upload Via SMTP: Activates or deactivates the alarm recording upload to the SMTP.

Alarm Duration: Predetermines the length of the alarm.

• <u>Change the Application Setting — Motion Detection.</u>

Please follow the steps below to enable changes in the motion detection function of the alarm through the network if necessary.

Set the motion detection:

 Click the Motion Detection button on the left side of the Alarm to enter the "Motion Detection" page.



 Click and drag the left mouse button across a targeted zone to draw a red rectangle on the image (coordinates provided below).

NOTE: You can set more than one targeted zone depending on your requirement.

- Click the right mouse button to see the popup-menu. After setting the target zone, please click "Save setting".
- 4. Enables / disables the motion detection function.
- 5. Set up the sensitivity.
- 6. Click the **Submit** button to submit the new setting of the recording.
- 7. Click the **Home** button to return to the home page.

Description of function keys:

The targeted zone: Click and drag the mouse across the targeted zone to draw a red rectangle on the image.

Detection Range: The red rectangle's coordinates.

Save: Click to save the motion detection range.

Motion Detection: This option enables / disables the motion detection function.

Sensitivity Level: You can select any one of the given options for the setup signal level or just type in the value of Customized Threshold.

5.1.6 Change the SD card Setting

Please follow the steps below to change the SD card setting through the network if necessary.

• Change the SD card Setting — FILELIST of MEMORY CARD.

Please follow the steps below to change the setting via the network if necessary.

1. Click the "SD card" button at the bottom of the home page to enter the page containing the

"FILELIST of MEMORY CARD". The page comes in two modes, the JPEG and the AVI

(please refer to the "SD card Application Setting Page").

FILELIST	of	MEMO)RY	CARD	FILELI	ST O	fМ	EMOR	Y	CARD
Filename	Date	Time	Size		Filensae	Date	Time	Size		
3198832 21 3198832 AV1 21 3198836 AV1 21 3198856 AV1 21 3198856 AV1 21 3198856 AV1 21 3198857 AV1 21 3198856 AV1 21 319887 AV1 21	004/02/13 004/02/13 004/02/13 004/02/13 004/02/13 004/02/13 004/02/13 004/02/13	15:50:34 15:51:20 15:52:16 15:54:24 15:55:02 15:57:28 15:58:30 16:03:18 16:10:34	96K 96K 96K 96K 96K 96K 96K 96K	DELETE DELETE DELETE DELETE DELETE DELETE DELETE DELETE	2 file(#) and 300 HTTP SERVER AT com	2004/02/13 2004/02/13 9 HBytes fre	16:12:00 16:15:22 e	266]	DELETE	
9 file(s) and 895 K	Bytes free	0								
SITTP SERVER AT COAL										

- 2. Click the desired file to display the images therein.
- 3. Each file can be deleted by clicking the attached "DELETE" hyperlink.
- **NOTE:** You can't directly click the hyperlink of the file in the "**FILELIST of MEMORY CARD**" page with the right button of the mouse focus then click "**SAVE**" to save the file.
- CAUTION: If you wish to save the SD CARD files from a camera to your computer, you can enter the JPEG column in the "FILELIST of MEMORY CARD " page to click in and enter the particular files in the column. When you click in, the images concerned will appear. Move your mouse focus within the image area and click the right button of the mouse. A table of item entries will show up. Click "Save" and select the path by which to save your files.

5.1.7 Change the Pan/Tilt setting

*This item is not supporting this function. *

Click the Pan/Tilt button on the home page to open the Speed Dome Controller.



- Click "Configure" to enter to the RS485 setting pages (please refer to <u>Change the System</u> <u>Setting — RS485 Setting</u>). Select a Speed Dome device ID from the drop-down list on the Speed Dome Controller. The Controller will display the corresponding ID.
- Each of the ten buttons under 'Set' is connected with a specific position and angle of either panning or tilting of the camera. Click each button to activate its particular position and angle. Press the button under 'Preset' to turn the camera angle by angle in the set positions. Each of the ten buttons designated 'Go to' can be clicked to view the particular corresponding angle of the position in which it is set.
- Select the connecting port. The RS-485 communication ports function as connectors when two or more units are serially connected to an external control device.
- Upon the buttons being clicked, a camera will move one short step only in any of the four designated directions.
- Click the buttons to control the Focus setting on the Speed Dome Controller. Click "+" button to focus far and click the "-" button to focus near.
- Click the buttons to control the Zoom setting on the Speed Dome Controller. Click "+" button to zoom in and click the "-" button to zoom out.
- Upon the buttons being clicked, a camera will turn all the way, without stopping, in one of the four designated directions.
- 8. Click the buttons to control the Aperture setting on the Speed Dome Controller.

5.1.8 PPPoE & DDNS

Using the PPPoE

- 1. Install the XDSL software (obtained from your ISP dealer) in your PC.
- Search your IP CAMERA's IP address: you can use your Network Viewer's Scan IP program, or just connect the IP CAM and the Video monitor. The monitor screen will show the IP address on its right side.
- 3. Change the switch on the IP CAM's side panel to position # 4.
- 4. Installing an IP address in your PC or notebook.

Desktop \rightarrow Move the mouse focus to the Network neighborhood and click the right key of the mouse \rightarrow Choose the properties \rightarrow Choose your local connection \rightarrow Choose the properties and select the configuration \rightarrow Select the TCP / IP \rightarrow Choose the properties \rightarrow Type in the IP address in a four-part formula, for example "192. 168. 1.101" (the first three parts must be identical to the above numbers, only the last part can be changed to your own number, which must never exceed 255) \rightarrow Click the mask and the mask input, namely "255. 255. 255. 0" (a fixed formula) \rightarrow Click "OK" \rightarrow Click "OK".

 Desktop → Choose IE browser → Type in the IP CAMERA IP address in the URL (check step # 2 above) → Enter → IP CAM images will appear.

PPPoE Settings

- Enter the IP CAMERA home page → Choose the network → Type in "User Name: root" and "Password: Admin" → Click "OK'.
- Choose PPPoE → PPPoE mode: Select "ON" → Type in "Account" → Type in "Password"
 → Submit → Unplug the power connection.
- Plug in the IP CAMERA and it will receive an IP address from the ISP dealer (this IP address is dynamic --- every time you unplug and plug in again you'll get a new IP address).

Test: Go to the Internet.

- 1. Set your PC to enter the Internet.
- Desktop → IE browser → Type in the IP CAMERA IP address (the same address as in the PPPoE settings and step 3 above) → You can see the IP CAM images.

DDNS settings

- Check your IP CAMERA's IP address (Scan IP software or monitor) → open your IE browser → Use the address to connect to the IP CAM or view the images → Choose the network → Type in "User name : root" and "Password : Admin" → Click "OK".
- Choose the "DDNS" → Click "Enable DDNS" → Enter the "DDNS host name", for example "abc123. homeip.net" → Type in "DDNS Account", for example "abc123" → Enter the "DNS Password", for example "7777" → Submit → The settings are now complete → Close the IE browser.
- Open the IE browser again → Type in the Website address you just applied for, such as "abc123.homeip.net" → You can look at your IP CAMERA images right away. The procedure is complete.

Note: These settings are only for your ADSL Dynamic IP configuration. If your configuration is fixed (true IP), you don't need to proceed with the PPPoE and DDNS settings. The DDNS is just for your convenience.

5.2 The IP CAMERA IP Surveillance

This section provides instructions for installing and using the IP surveillance and Image Viewer, which are included with the IP CAMERA. The programs can be operated by a selected PC equipped with the following requirements.

System Requirements

- Intel Pentium 1.5 GHz processor or above (2.8 GHz or higher recommended).
- 128-MB RAM at least (256-MB or higher recommended).
- Windows 2000, XP or above.
- 4 MB VGA card capable of 24-bit true color display.
- 100 MB free hard-disk space for software installation.
- 10/100 Base-TX network for LAN operation.
- The Microsoft Internet Explorer 6 above.

In the multi-channel recording mode, the HD data transfer rates must be 66MB or above (100MB or higher recommended).

5.2.1 Introduction to IP surveillance

The IP surveillance allows you to access many units of the IP CAMERA from a remote desktop or a laptop in a TCP/IP networking environment. It can perform the following functions.

- View live images from the IP CAMERA.
- Store, search, and review recorded video from an FTP server, PC, and SD card.
- Change a regular record, event record, and timer properties.

Before you are ready to view images from a desktop, you need to have your IP CAMERA networked by obtaining a 10/100 base-TX Ethernet data cable (Standard RJ-45) to connect the IP CAMERA to your LAN/WAN. Now enter the main menu to set the IP address.

5.2.2 Install the IP surveillance in your PC

Install the IP surveillance from the supported CD-R.

- 1. Exit all applications currently running in the selected PC.
- Insert the supported CD in the CD-ROM drive. The program will execute the installation automatically. Follow the on-screen instructions to proceed with the rest of the installation procedure as they appear.

NOTE: It will update the .NET Framework to version 2.0 automatically. Please click "Accept" to continue.

18 17 Secretilians Setup	83
For the following components	
AET Foremak 2.0	-
Phone read the lobowing locates agreement. Press the page doors hay to see the of the agreement.	ini.
Instruction of the transfer survey and the transfer to the second	10.00 N
Very ESLA in particip Very ESLA in particip Do you accept the terms of the panding License Agreement? Pyracticese Darl Accept, and will also To particip reveal accept the apparent.	
Accept Quel Accept	

3. After the installation is complete, pop up the START menu from your computer, and point to Programs / NOBRAND01 / IP surveillance to open up the program selection page as shown below. Click the IP surveillance tag to start the IP surveillance program.

Install the IP surveillance for the ZIP file.

- 1. Save the ZIP file to your PC and extract the file to a designated directory.
- 2. Open the extracted folder. The folder contains 1 file.
- 3. Click on the installation and then follow the on-screen instructions to proceed with the rest of the installation procedure.
- 4. After the installation is complete, click the **START** menu from your computer, and point to **Programs / IP surveillance** to start the **IP surveillance** program.

NOTE: Please make sure the TCP/IP communication software has been properly set and configured in your computer. To check your TCP/IP settings, please refer to section 4.5 (the TCP/IP configuration setting).

5.2.3 Login the Network camera software

Once the IP surveillance is executed, a Login prompter will appear. You must enter the default User Name: **root**, and the password: **Admin** in the respective spaces. Click the "**OK**" button and enter the console page of the IP surveillance: both the user name and password must be entered correctly. Click the "**Cancel**" button and exit the login of the Network Viewer.



View the Network camera video from a remote PC

Follow the instructions below to use the IP surveillance to browse a Network camera video from a remote location. Upon entering the IP surveillance, a connection box will appear as follows.



- 1. Press the button to enter the **Settings** page.
- Press the *isotrony* button to add a new device group. After typing in the Group Name, please press the **OK** button.
- 3. Add a channel from the button.

Connect Network Comera Wizard	
Add a new camera	
Group Name : Croup	
Please assign specific IP address and HTTP port.	-
Address :	
Port: 80	
Auto-Search Next >> Cancel	-
	_

4. (1) Click the Auto-Search button at the bottom of the "Connect Network camera Wizard" page to discover the connection of the Network camera - type device in the LAN. Instantly the "Search Network camera " page will appear. Click the device of your choice and click "Select" at the bottom of the page to access the "Connect Network camera Wizard" page again.

(2) Type in the IP Address or the domain name and HTTP port of the device and add the device to the Device List.

 Type in the **Password** in the " Connect Network camera Wizard " page. Click "Next" button to open another "Add Device Wizard" page.

🗃 Connect Hetwork Camera Wizard	X
Please enter device's administrator Password. (The account called 'admin'.)	
Password :	
<< Back Next >> Cancel	

6. This page provides the IP Address, the device type, and the MAC Address. After

typing the Site name and selecting the Connect Mode, please click the "Next" button to access the next "Connect Network camera Wizard" page.

IP Add	recc - 192 168 1 223	
Davica	Tuna	_
IPCAN		-
II CAN		
MAC	Address (S/N)	-
00:0C	0C-00:75-9F	
the same	ad in the authorse exclination	
be use	ed in the software application.	
be use	ed in the software application. Site name : NetworkCam_01	
be use	ed in the software application. Site name : NetworkCam_01 Connect Mode : O LAN O Internet	
be use	ed in the software application. Site name : NetworkCam_01 Connect Mode : O LAN Internet	

NOTE: Please click the 👥 icon to see the details of the Connect Mode.

 After finishing the setting of the Device Recording, please click the "Finish" button to establish the connection between the device and the computer.

6	Connect Network Comera Wizard	×
	Recording Quota Setting Free Recording Quota: 90 % (4711 Mb) Use Recording Quota: 10 🔹 % (523 Mb)	
	Start to record after added this network camera. Record Mode Continuous Mode	
	O Event Mode	
	< Back Finish Cancel	

- 8. Click the devise title to begin viewing images with this camera from the Device List.
- NOTE: To add more connections or units to the Network camera, please repeat the above instructions.

5.2.4 Operation

5.2.4.1 Live Monitor

Once the connection has been established, click the



button to enter the Live Monitor

window. (See the sample screen below.) On the left side of the window is the connected

device that has been arranged when you established the connection.



1. The Live Monitor icon.

Add a camera video onto the Live Monitor area:

- (1) Click on the title of the camera that was connected.
- (2) Hold down the right mouse button and drag onto the droppable Live Monitor area. The video from the new camera will be displayed.
- (3) In the Live Monitor area, if you want to exchange the videos of different cameras, you can drag the video and drop it where you want to locate the video.
- The Split-Screen display function bar: This allows you to display the connected device in the single channel and multi-format screens.
- 3. The Sequence configuring button: Press to enter the sequential jumping mode, each

multi-screen, and one sequence; the picture will sequentially switch to different channels according to the Sequence Views setting (refer to 5.2.4.3).

- **Note:** One can't use the common icon (#11) in the Sequence displaying mode or drag the video and drop it as s/he likes. For the further settings of each channel, please select the device title on the left side and click the right mouse key to operate.
- 4. The Circle configuring button: Click this button to see the following channels.
- 5. The Group Circle button: Click this button to change the different group of display.
- The Full Screen button: Click this button to show the full screen for surveillance. If you
 want to return to the previous mode, please click the Normal Screen button.
- 7. Motion on/ Alarm on: The warning icons.

Motion-on icon: When there is a detection of motion in any channel, it will display this icon in the right upper corner of that channel to warn the user.

Alarm on-icon: When there is a detection of external devices such as a sensor, it will display this icon on the upper right corner of that channel to warn the user.

- Pop-menu: You can use the mouse to move to each channel. Click the right key of the mouse to show a window. You can select "Delete", "Capture / Print", "Play/Stop Audio" or "Reexamine Audio Mechanism".
- Click this button to hide the "devices list", "common" and "alarm message list" boxes from view behind the video display screen.
- 10. The section in the upper left margin will show the information in all the devices and its group names.

The users can click and hold on the device title on the list and drag it to the Live monitor area to see the live image of the camera.

11. common icons:

 $\overset{\checkmark}{=}$ Play Audio: Click the button to play the live audio. Click once again to deactivate.

Record: Click the button to archive AVI videos into your PC. Click once again to deactivate. In the recording mode, there will appear a red twinkling icon in the upper-right hand corner of the image.

- Capture / Print: Provides the image capturing and printing functions.
- Delete: Drop the view here to delete it.

Delete a camera video from the Live Monitor area:

- (1) Select the video of the camera which you want to delete.
- (2) Press and hold the left mouse button. Then drag it to the trashcan in and release the mouse button.
- Alarm list / PTZ Control: Shows the alarm types, the device names and the occurrence time. You can press the PTZ button to change to the PTZ Control mode.

5.2.4.2 Playback Viewer

Press the button to enter the Playback Viewer setting page.



- 1. The Playback Viewer icon.
- 2. The display area.
- 3. Click to choose the 5 Recording List / 1 Live Event Mag.

Recording List	Live Event Message
is Recording Lat + 🔄 🗭 10	Lies Deard Mag + D TD
Image: Second	Type Cent Lared DatTer M Reveal 2005 2015 2015 M Reveal 2005 2015 2007 M Reveal 2005 2015 2007 M Reveal 2005 2015 2007 M Reveal 2006 2015 2007 M Reveal 2007 2005 2007 M Reveal 217 2005 2007 M Reveal 21

Click to refresh the recording list.

NOTE: To view the alarm lists of a camera which were recorded, please (1) click the sicon (2) the Alarm List window will appear as shown below, (3) select a camera from the drop-down list, then (4) click the "Search" button.

2 Page Lotur	1 Pert Parent a Pert	- Data	Cine
30	- Alexen	ol Dealan	Tata Farms
1		20 0 sert	2
3		20 3 sect	57

- 4. Move to the left/right area.
- Recorded video list box. This box allows you to access all recorded video, which are stored in the HDD of the connected devices.
- 6. Playback function bar.
 - Play Click to a recorded video from the PLAY LIST.
 - Stop Click to stop playing back a recorded video or cease recording.
 - III Pause Click to freeze the image.
 - Step Click to view images picture-by-picture.
 - Soom in Enlarges the displayed image.
 - Zoom out Narrows the displayed image.
 - Capture / Print: Provides the image capturing and printing functions.



- Play Rate: During play mode, please use the scroll bar to control the show speed.
- 7. Shows the device title.
- This allows you to search a recorded video kept in the HDD of the device. Enter the MONTH /DAY /YEAR /HOUR /MINUTE you wish to search and click O to proceed.
- 9. Functions to fit the starting and ending points of an image display, when the user wants to transfer a file.

JPEG: Archives images in the JPEG format to save a single picture in every file.

ER Kappett ber fege Filter				
File Public	200303-020	10,455	0	
helade	Delt and Time	188	Aum .	
	Accept	Care	et 1.	_

AVI: Archives images in the AVI format to save a sequence of images in a file.

- C. New J	- 754° 111	0
20 2	🔄 backada Andra	
	20 E	77 📰 🔛 bai baile Austen

Warning: The audio and video signals would likely be unable to play back simultaneously because of incomplete files caused by unstable network transmission or altered setup while doing the AVI backup with the "Include Audio" function.

- 10. Scroll bar for video searching: Drag the square on the bar to search the video. You can click or pull the indicator on the scroll bar to the point you want to see.
- 11. Displays the recording mode of the video on the histogram.
- 12. Press the Legend button to see the Histogram Legend. You can get the event's location in terms of time, and select a group of events or period from the event histogram area and show it on the display area.

Bistogram Legend	8
- interval with video only	
- interval with both audio and video	
- Events for motion alarm	
- Events for sensor alarm	
- session partition (time partition)	
Ciose	

5.2.4.3 Setting



- 1. The Setting page.
- 2. Function buttons:
 - Add a new device group: Click this button and type in the new group, then press "OK" to save it.
 - Remove a device group: Click this button and select the group name, then press "OK" to delete the group.
 - Add a new camera: For mode details please refer to section 5.2.3.
 - Remove a camera: Click this button and select the group name and Network camera, then "OK" to delete the device.
 - **To edit camera:** Please select a device, then click this button to edit the device.
- 3. Device Setting: Provides four pages of settings.
- (1) Device Setting page



(2) Image Setting page

Section:	MDA.		
Quality		-	
Better	-		10 AL 10 AL
	-	_	an ender
the second	-	-	Carl annes 1
Sauge Sector	-	_	- 100
			-
		_	A REAL PROPERTY.
585	*		and the second se

NOTE: The IP Surveillance software connects the Internet to a Network camera. There may be a problem if the bandwidth is not enough, in which case the speed rate of the image transmissions may become too low. So if you want a satisfactory speed rate in your displays, you can click the "Device Setting" button, opening a "Device Setting" screen, and set the settings of the Device page where you can change the "Audio Mechanism" function to "OFF". Turning it "OFF" will save the bandwidth from wastage, and improve the image display.

(3) Alarm Setting page



(4) SD-card Setting page

tringe Capality	Stanuage Francial
tat. B K forter	IVA 💌
E TRANSPORT	Avi Getting
	1.259/15
	AVE Dualations
	1 (sepretti)

NOTE: Please remember to click the "Apply" button to save the settings.

 System Setting: Provides six pages of settings: the Global Settings, the Event Notification, the Recording Settings, the Scheduler, the Sequence Views, the Speed Dome and the Authority Setup.

(1) Global Settings

Monitor Setup				p Default Directory	
Date Format:	MM/DO/YYYY		*	Default Snapshot Directory	-
	lass		100	C:\ISDB\Snapshort	10
Time Format:	24-hour format		w.	Default Export Avi Directory	100
Display Mode:	O Proportion	 Strech 		C:\ISDB\Avi	0
ALMANCE SALARY		125627785		Default Export 3peg Directory	
Display Recording State:	 Yes 	O No		C:\ISDB/Jpeg	0
Full Screen Deplay:	T Title	Date &	Time		
	Anne service and an and an an		200	LAN Settings	
Control CPU use:	Level 2 (70%~-85	196)	*		

- Monitor setup: Sets the date/time mode and display mode, and controls the CPU use percentage on five levels.
- Default Directory: Sets the default files' saving path. Click 6 to select the directory.

(2) Event Notification

 Channel Prompt: Sets each camera to activate or deactivate the three modes of "Motion Buzzer", "Sensor Buzzer", and "Alarm Focus". Tick mark the blank space for each device to activate it.

hannel Prompt	Choo	se whether to allo	w a channel pro	mpt that a specify de	wice has triggen	nd a event.	
Popus Message		Name	IP Address	Group Name	Motion Buzzer	Senior Butter	Alarm Focus
1.3		NetworkCarr_11	193.169.0.116	Group1_Net+of			
E-mail Notice		føtworkCam_14	192.168.0.245	Group1_Network	۲	E	2
		NetworkCam_24	192 166.0.194	Group1_Network	12	E	1
		NetworkCam_26	192 168 0.62	Group1_Network	9	2	E
		NetworkCam_25	197.168.0.248	Group1_Network	e	B	2
		NetworkCarn25	192.166.0.20	Group1_Network	8	1	E
		Server01	192.168.0.175	Group_Video Server	Ø	E	Ø
		Server02	192 166.0.175	Group_Video Server	9	E	R

• **Popup Message:** Sets the maximum number of the pop-up messages, the displaying time and the pop-up forms. Tick mark the blank space for each device to activate it.

Channel Prompt	Choose settings about live	event popup message.						
Popup Message	The maximum number of populo messages to display smultaneously : 5 😿							
E-mail Notice	The default period of time, a	popup message will be display	ed : [10 9	econds 💌				
	Select events that generate	Select events that generate a PCPUP notification. Please select the appropriate box.						
	-	Motion Alarm	Senser Alarm	Disk Full				
	Minimum Window	Popup	Paputa	Popup				
	Playback Viewer	Popup	Popup	Popup				
	Settings Form	C PODIO	C Paper	Popus				

E-mail Notice: Sets each camera to activate the E-mail Notice function of the three situations: "Motion Alarm", "Sensor Alarm", and "DISK Full". Set the SMTP, the E-mail address and the attached file numbers to mail the user when the alarms occur. Tick mark the blank space for each device to activate it.

6 hannel Prompt	Emai N	iotoe oloo Server Settie	uis.				
Popula Message		Outopa	ng Mal Server (SMT	P) I		Authents	ation
Li3 E-mail Notice			Email Addre	612		Test Se	ttingi
	trub	le Event Send Via	Email				
	10	254798	IP ADDYNS	Geolup Name	Motion Alams	Serour Alarm	DIR Put
		And the second s	Property lines	TO DO DO TO TANK TO TANK	and the second se	The second second second	
	٠	Not-triCen_11	192,268.0.116	Groups Jamesh			
	٠	NetworkCarr_14	192 168 0 116	Group1_Network			
	•	NetworkCam_14 NetworkCam_14 NetworkCam_24	192,168,0,245 192,168,0,245 192,168,0,194	Group1_Partnerk Group1_Network Group1_Network Group1_Network			
	•	MeteoriCen_11 NetworkCen_14 NetworkCen_24 NetworkCen_25 NetworkCen_25	142 168 0 116 192 168 0 245 192 168 0 184 192 168 0 62 192 168 0 62	Groupt_Network Groupt_Network Groupt_Network Groupt_Network Groupt_Network			
	•	Meterri Gen_11 Network Gen_14 Network Gen_24 Network Gen_25 Network Gen_25	192 168 0 116 192 168 0 245 192 166 0 194 193 166 0 245 193 166 0 246 193 166 0 248	Groupt_Network Groupt_Network Groupt_Network Groupt_Network Groupt_Network Groupt_Network			
		Avteni Cen. 14 Nateoi Can. 14 Nateoi Can. 24 Nateoi Can. 25 Nateoi Can. 25 Sanati	102.168.0.245 192.168.0.245 192.168.0.184 192.168.0.62 192.168.0.240 192.168.0.240 192.168.0.20 192.168.0.175	Orocol, Vertech ;; Groupi, Vertech ;; Groupi, Vertech ;; Groupi, Vertech ;; Groupi, Vertech ;; Groupi, Vetec Server			
		NotworkCam_14 NetworkCam_24 NetworkCam_26 NetworkCam_25 NetworkCam_25 Server01 Server02	102.164.0.116 192.168.0.245 192.166.0.184 192.166.0.25 192.166.0.249 192.166.0.249 192.160.0.20 192.160.0.175	Oncel, Methods Groups, Jestwork Groups, Jestwork Groups, Jestwork Groups, Jestwork Groups, Video Serve Group, Video Serve			

(3) Recording Settings

econting Deactory (Cr.1500, Record	0	VI Cutle Recording) Total space:		20000	M
vent Mode Settings		Ranerved space:		1024	10
ecording quota setting of er	ery charant				
NetworkCen_11	10 0		(24/99/90)		
WheekCare_14	30 : -	1	(1)*******		
WhitekCare, 24	10.0	1	(5/499.05.)		
WetworkCare, 20	10 :	(f	(epiepieta)		
wheekCan_25	10 0	1	(200106.)		
and the second second	30 2 1	(())	(399910)		
WINDING WINCO	20 4	0	(1)+9+94)		
Server(1).					

- **Recording Settings:** You can control the HDD reserved space by using the scroll bar.
- Recording quota setting: Set the maximum recording quota of each channel.

(4) Scheduler

24	ddeni	Device Star	Shop name		
192	168.1.123	can01	Zove-1		
192	168.1.146	careful?	Zone-1		
	184.1.121	(and)		STREET, STREET, STREET, ST	
192	168.1.44	cen04	Zinne-1	Tobacas	-
192	168.1.30	canit(Zone-1		
192	168.1.87	carril6	Zone-1		
while successing with	- Baler for the chang	MET:	1.1	- Carl	
an Schedule					
1.7					
	Ev	very day			
	1912-14-23 00.1	viy day 01 02 03 54 05 06 67 0	09 10 11 12 13 14 15 16	17 18 19 20 21 22 23	1
 Sunday 		409 day 01 02 03 54 05 06 07 0 소 19 소 End	5 09 10 11 12 12 13 14 15 16	17 18 89 30 21 22 2 2 147 2 10 10 10 10	1
sa Jounday antimus Mode		*19 day 01 00 00 04 05 06 07 0 소나가 소 트페	00 10 11 12 12 13 14 15 16	17 18 18 20 21 22 23 19 18 18 20 21 22 23	1
en Surday	10 (10) (10) (10) (10) (10) (10) (10) (1	117 442 01 02 03 04 05 06 07 0 소 19 소 End	5 09 10 11 12 13 14 15 16	17 18 19 20 21 22 23 소) 147 소) 등 등 등	1
ege Sunday attached Mode rent Mode	Barrier Carrow	11 02 03 04 05 06 07 0 관 19 관 Eat	609 10 11 12 12 14 15 16 Surday	17 18 19 20 21 22 21 관리(47 관 (16 16 16 16 16 16 16 16 16 16 16 16 16 1	1
ege Sunday attaction Mode rent Mode	An and a second	977 402 01 02 03 04 05 06 07 0 1 1 2 2 3 04 05 06 07 0 1 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	50° 10 11 12 12 14 15 16 Surday	17 18 19 20 21 22 23 33 147 33 18 18	
ega Surday minimum Moda entre Moda	Bo Constant of the second seco	497 489 01:02:03:04:05:06:07:0 소 139 소 134:05:06:07:0 199 전 154:826	09 10 11 12 13 14 15 16 [Sarday •	17 18 19 20 21 22 23	
ege Sunday entranse Mode entry Studie to entry Studie to	The material first system	ery day Di Do Do De De De De De D Server slam	09 10 12 12 13 14 15 16 [Sarday]P	17 18 19 20 21 22 23	1
ege Surday ontgene Mode rent Mode ottay 2014 Mode antegen Mode	in a second	417 402 01:02:03:04:05:06:07:0 소 19 소 18:05 18:20 19:20 10:20 19:20 19:20 19:20 19:20 19:20 19:20 19:20 19:20 19:	500 10 11 12 13 14 15 16 Surday	17 18 19 20 21 22 23 33] 47 33 두 두	1
ngin Surchay antinana Mode antiger Statistic to antiger Statistic to antiger at Mode	The second secon	497 489 01: 02: 03: 64: 05: 06: 87: 0 소 139 소 토ət 1 : Senerrələn 1 : Senerrələn 1 : Senerrələn	09 10 11 12 13 14 15 16 [Sarday •	17 18 19 20 21 22 23	1
ege Sunday antanana Mode ment Mode antany 2014 Sole So antanana Mode ent Mode	M chan shee	VY 400 D1 02 03 04 05 06 07 0 1 02 03 04 05 06 07 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	09 10 12 12 13 14 15 16 [Sarday]P	17 18 19 20 21 22 23 소) 47 소) 또 두	

- (1) Choose one of the devices to set its recording schedule.
- (2) Select the period: Click to set to record only once or record every day.

(3) Select the recording time: Sets the periods of time in recording.

Select the Begin time and the End time the time markers will display above. Please use the up (increase) and down (decrease) arrows to adjust the setting.

Add the selected period schedule. You can also hold down the left mouse button to drag a period.

Erase the selected period schedule. You can also use the right mouse button to cancel the period.

- (4) Select the recording mode.
- (5) Press to show the scheduled recording list.
- (6) Set the secondary schedule: Activate or inactivate the other recording modes besides the primary schedule.
- (7) Option buttons:

Undo: Undo the latest changes.

Clear: Clear all the schedule markers in the current

editing area.

Save: Apply the changes.

Close: Close the window.

he.	114
Survivy SLIKE	Daniery (1913)
Surday 19-36	Sandar 12100
harder (1:25	Survive 18:00
Manufact (\$2100	Muraley 06:58
Mediar 12138	Manthey 12-52
Plandey 17/09	Plander 20194
Fuenday 81:40	Tuesday 10:17
Fuenday 14:28	Fuesday' 18:00
mediately 00.00	wednesday 12/19
med-entry 17.00	madvesiler 12.17
Thursday \$3.20	Parale 1925
Hursler 17/09	Prote: 01.01
Fedar (2743	Prefer 12.08
Proder 38-81	Prefar 20:34
Carunday US-09	Statueday 28:43

(5) Sequence Views

This function enables you to use four modes to set the sequence of displays you want for the

Sequence Mode of the Live Monitor.

cation Setting	Sequence Setting : 1	2008011		
	Setting	IP Address	Group Name	Dwell Time
Save All				

The user has to modify the "Sequence Views Setting" to make it work. For example, if you

want to see the **4-window sequence**, please follow the steps given below:

Step 1: Click the Sequence Views button to enter the Sequence Views setting page.

- Step 2: Select the "4 SEQ views" and the 🖽 4-windows will show in the Location Setting area.
- Step 3: Select one of the four channels (Location1-4), then click the "Setting" button.
- Step 4: The 4 SEQ View(s) page will show below. Choose the device(s) and set the Dwell Time (3-30seconds) from the drop-down list, then press the "Confirm" button.

0	4006	Nate	PASeeis	Oroug Assets	Dwell Tarrie
Г	181	NetworkCam_31	102,100.0.116	Group1_Network Ca.	B pern
	田	fedworkCare_3.6	192,188.0.245	Oncop1_Network Ex.	8 ints
		NetworkCare_14	19219833766	(Inset_Network Cx.	0.5414
	Π.	NetworkCart_28	152188.042	Drog 1_Network Ca.	8 barn
		Internet and 18	1921581.246	Steet, Native Co.	Esert.
		NetworkCart()5	182158.0.20	Broat, Network Ca.	Stars .
	1	Extraction	003188.8.175	Group_Video Server	10.4415
		Derver02	102100-0375	Group_Video Sarver	12 1010
100			-		13 6405
					14 0000

- Step 5: Set the other channels as in step 3-4.
- Step 6: Click "Save all" button, then press "Close" button to exit the setting page.
- Step 7: Open the Live Monitor page, then click the (4 SEQ views) button to see the 4-window sequence.

(6) Speed Dome

NetworkCun 11 192 168 0.116 Croup1 Network Cune NetworkCun 14 192 168 0.245 Croup1 Network Cune NetworkCun 24 192 168 0.184 Croup1 Network Cune NetworkCun 26 192 168 0.245 Croup1 Network Cune NetworkCun 26 192 168 0.245 Croup1 Network Cune NetworkCun 25 192 168 0.245 Croup1 Network Cune NetworkCun25 192 168 0.20 Group1 Network Cune Network Cune 192168 0.116 - NetworkCun_11 Enabling Spreed Dome Controller of thise channel can be operated in this software MODEL: Pelco.D V ID: 1 V Enabling Controller of thise Channel can be operated in this software Configure		Name	IP Address	Group Name	-
NetworkCum 14 192.168.0.245 Group1 NetworkCum. NetworkCum 24 192.168.0.184 Group1 NetworkCum. NetworkCum 25 192.168.0.245 Group1 NetworkCum. NetworkCum.25 192.168.0.245 Group1 NetworkCum. 192.168.0.116 - NetworkCum_11 Image: Speed Dome Controller of thes channel can be operated in this coffmare MODEL: Pelco-D V ID: 1 Protocol: R5232 R5485 Configure	F	NetworkCam 11	192 168 0 116	Group1 Network Came	
NetworkCam 24 192168.0.184 Groupt NetworkCame. NetworkCam 26 192168.0.62 Groupt NetworkCame. NetworkCam 25 192168.0.248 Groupt NetworkCame. 192168.0.16- NetworkCam_11 Enabling Speed Dome Controller of this channel can be operated in this coffware MODEL: Pelco-D ID: 1 Protocol: 0 R5232 0 R5485 Configure		NetworkCam 14	192 168 0 245	Group1 Network Came	
NetworkCan 26 1921680.62 Group! NetworkCane NetworkCan 25 1921680.248 Group! NetworkCane NetworkCan25 1921680.20 Group! NetworkCane 192168.0116 - NetworkCan ISoubling Speed Dome Controller of this channel can be operated in this software. MODEL: Pelco.D ID: 1 Protocol: 0 R5232 0 R5485 Configure		NetworkCam 24	192 168 0 184	Group1 Network Came	
NetworkCan 25 192168.0.248 Group! NetworkCane. NetworkCan25 192168.0.20 Group! NetworkCane. 192168.0.116 - NetworkCan_11 Eashing Speed Dome Controller of this channel can be operated in this software MODEL: Peter-D v ID: 1 v Protocol: 0 R5232 0 R5485 Configure		NetworkCam 26	192 168 0 62	Group1 Network Came	
NetworkCun25 192168.0.20 Oroup1 NetworkCune		NetworkCam 25	192 168 0 248	Group1 Network Came	
192168.0.116 - NetworkCan_11 Enabling Speed Dome Controller of this channel can be operated in this coffware MODEL: Peleo-D ID: 1 Protocol: R5232 R5485 Configure		NetworkCam25	192 168 0 20	Group1 Network Came	
ID: 1 V Protocol: O R5232 O R5485 Configure	E	Enabling Speed Dome Co	ntroller of this channel can b	e operated in this software	
ID: 1 Protocol: O R5232 O R5485 Configure		Enabling Speed Dome Co	ntroller of this channel can b	e operated in this software.	
Protocol: O R5232 O R5485 Configure	-	Enabling Speed Dome Co MODEL : Pelco-D	ntroller of this channel can b	e operated in this software]	
Protocol: O R5232 O R5485 Configure		Enabling Speed Dome Co MODEL: Peleo-D	ntroller of this channel can b	e operated in this coffmare.	
		Enabling Speed Dome Co MODEL : Pelco-D ID : 1	ntroller of this channel can b	e operated in this coffmare)	

- Tick mark to activate the Speed Dome Controller function of the selected channel. The user can set the model, ID and the protocol here.
- Click "**Configure**" to enter to the RS485 setting pages.

S Device Con	figure			
RS232 Setting	R34853	etting		
	Device:	192.168	.0.116	
Bau	ud Rate:	9600 bp	99	~
	Туре:	8-N-1	~	
De	wice ID:	1	~	
	Update		Close	

(7) Authority Setup

Authority setup: Change or add the user's authority. There are three different levels of authority , namely Admin, Operator and Viewer.



- List of cameras and its groups: The users can use the icons above the list to change the groups' names, the devices' titles and the channels' display modes.
- Display area: Click the title of the camera, and you will see the live image in this area.



- Device Recording: Click the "Start Record" button to start the recording mode and click the "Config Record" button to set the details of the recording below.
- 8. Status of the speed dome controller.
- You can interchange between two buttons here: the "Device Panel" and "Web page" buttons.

The web page (please refer to section 5.1 for more details):



- Device information: The user can read a camera's information, such as "Site Name", "Group Name", "IP Address", "HTTP Port", "Device type", "Monitor Alarm Process" and the "Connect Mode".
- 11. Recording Scheduler: Shows the recording information of the selected channel.

5.2.4.4 Lock

Press the button to lock the operation of this software, and the IP Surveillance monitor will be minimized into the systray*of the Windows taskbar. To unlock the command, please click the the button once, then type in the correct password.

🛃 Unlock	×
IP Surveillance is in use and has been locked. Only admin can unlock it.	
User : admin	
Password:	
Logia Canel	

*: The Microsoft Windows systray is a portion of the Windows 95, Windows 98, Windows ME, Windows NT, Windows 2000, and Windows XP Operating Systems that helps display running programs. The systray is located on the taskbar and is commonly in the bottom right hand corner of the screen next to the time display.

5.2.4.5 Logout

Press the witten to logout the IP Surveillance software and

the IP Surveillance monitor will be minimized into the systray of the

Windows taskbar.

If you want to return to the IP Surveillance monitor, please click the

button once, then select the page which you want to get into.

After typing in the correct user name and password, you can re-login to the software.

5.2.4.6 Tray

Press the button to minimize the IP Surveillance monitor into the systray of the

Windows taskbar.

Click the to button once to go back to the IP surveillance software.

	<u>M</u> omtor	
1	<u>F</u> layback	
Y	Settings	
	<u>T</u> ools	•
×	<u>E</u> xit	

5.2.4.7 Exit Setting

Press the button to exit the IP surveillance monitor which is minimized into the systray of the Windows taskbar. Click the button to select the functions on the list.



You can also change the password by clicking the "Tools" and "Change password" items on the list. Enter the old password once and the new password twice, then press the "OK" button to save it.

Change local admin's p	assword!
Old Password:	
New Password:	
Confirm Password:	
QK	Quncel

The Network camera is equipped with a digital watermark. It's a checking software which protects archived images and informs you whether the images have been modified or not. Follow the instructions below to open an archived image from an SD card or an HDD.

This is image integrity-protection software. It not only allows you to view an archived image from the SD card or HDD of a computer, but also protects an archived image from reproduction or interpolation. If an image isn't in the original format made by a Network camera, the Image Viewer will not display the image and instead will send a warning message, " **Not Correct Image** ", right away. Close this message to enable you to see the image now.

- Pop up the START menu in your computer, and point to Programs / IP surveillance / Tools to open up the program selection page. Click the Image Viewer tag to start the Image Viewer program (see a sample screen below).
- 2. Click the **RELOAD** tag to load the images from a path.
- 3. Click the **PRINT** tag to get a displayed image printed out from a printer.

🖉 image View		
5 0 S	No thumbnails loaded	
CA Program Film Transferrat D'Surveillance vi	No fromboaile Joaded	

6. ADVANCED OPERATION

Question 1:

How to view the live images of the IPCAM via the Microsoft Internet Explorer on the Desktop

PCs or the laptop computers in a situation where there are no monitors or television?

♦ The way to get the IP address of the IPCAM without a monitor:

There are three way to get the IP address: Scan IP, Upnp and IP function.

Scan IP: Please refer to APPENDIX 1.

Upnp: Please refer to APPENDIX 2.

IP function: Please refer to APPENDIX 3.

Question 2:

How to set up the motion detection area and its sensitivity? How to record into the SD card for 30 seconds when the motion has been activated and use the Microsoft Internet Explorer

to view the recorded files?

♦Set up the motion detection

- 1. Click the **application** button in the home page.
- Click the Motion detection button on the left side of the page to enter the "ALARM MOTION DETECTION" page.
- Click and drag the mouse left button across a targeted zone to draw a red rectangle on the image. You can also draw the other targeted zones as you wish.
- 4. Please Enable the motion detection function.
- 5. Set up the sensitivity level from: Lowest, Low, Medium and High to Highest.
- 6. Click the **Submit** button to submit the setting.

ORECORD Recording the images into an SD card while the motion detection function is working

- 1. Click the **application** button in the home page.
- Click the Enable button below the ALARM item on the left side of the page to enter the "ALARM APPLICATION ENABLE SETTING" page.
- 3. Tick on "Enable ALARM-SAVE into SD Card" to activate it.
- 4. Click the **Submit** button to submit the setting.

NOTE: Please remember to insert the SD card into the built-in SD slot of the unit first.

\diamond Set the recording time (the AVI duration) of the SD card

- Click the application button in the home page into the "SD-Card APPLICATION SETTING" page.
- 2. Choose the AVI Duration from the drop-down list.

If you want to record the file into the SD card for 30 seconds, please choose 30 seconds.

3. Click the Submit button to submit the setting.

♦ Use IE to view the recorded files

- Click the SD Card button in the home page to enter the page containing the "FILELIST of MEMORY CARD".
- 2. Click the filename which you want to view.
- 3. It will ask you to enter the username and password.
- 4. If you didn't set the other player before, the AVI file will be played by the Windows Media Player.

Question 3:

How to use the DynDNS to connect the IPCAM by using its Sub Hostname via the intranet?

♦Set the DDNS function

- 1. Click the **network** button in the home page.
- 2. Click the DDNS button on the left side of the page to enter the "DDNS SETTING" page.
- 3. Tick on the "Enable DDNS Function" to activate it.
- 4. Choose one of the DDNS Types from the drop-down list.

If you didn't register for a DDNS before, please choose one of the DDNS Type then press "Apply" button to its registering homepage and register as a member.

- Enter the DDNS Host Name, DDNS Account and DDNS Password which you created in the <u>www.dyndns.com</u> website.
- 6. Click the **Submit** button to submit the setting.

NOTE: Please refer to the APPENDIX 4 for more details.

♦Set the PPPoE function

- 1. Click the **network** button in the home page.
- 2. Click the **PPPoE** button on the left side of the page to enter the "PPPoE SETTING" page.
- 3. Choose "ON" from the "PPPoE mode" list to activate it.

- 4. Enter the Account and the Password which are provided from your ISP.
- 5. Click the Submit button to submit the setting.

NOTE: Please refer to section 5.1.8 for more details.

♦ Use the Sub Hostname to view the IPCAM

- 1. Click the URL block at the top of the PC screen.
- Type in the DDNS Host Name of the IPCAM into the URL block and press the "Enter" button to enter the login page.
- 3. Enter the user name and fill in the password.
- 4. Click the "OK" button and enter the home page of the IPCAM.

Question 4:

How to set the scheduled record on from, say, 6:00 PM to 7:00 PM with the recording rate of 1F/8S and upload the recorded file to the FTP server?

\diamondsuit Set the scheduled recording time

- 1. Click the **application** button in the home page.
- Click the Schedule button on the left side of the page to enter the "RECORD SCHEDULE" page.
- 3. Select one of the schedules and set the recording time period.
- 4. Tick the schedule on to activate it.

For example, if you want to set the schedule record on from 6:00 PM to 7:00 PM, please choose "FROM 18:00 to 19:00" on the drop-down list. Then tick on the schedule which you just set.

5. Click the **Submit** button to submit the setting.

◇Upload the recorded file via the FTP

- 1. Click the **application** button in the home page.
- Click the Enable button on the left side of the page to enter the "RECORD APPLICATION ENABLE SETTING" page.
- 3. Tick on "Enable RECORD UPLOAD via FTP".
- 4. Click the Submit button to submit the setting.

♦ Set the upload rate

1. Click the application button.

- Click the FTP button on the left side of the page to enter the "FTP APPLICATION SETTING" page.
- 3. Set the last item "Upload Rate" at the bottom of the page to the rate you want.

If you want to record at the rate of 1F/8S, please choose "1F/8S" in the drop-down list.

NOTE: The FTP function is not provided in the MPEG4 mode.

Question 5:

How to add or modify the users and their authorities of using the IPCAM?

♦ Entering the setting page

- 1. Click the **system** button in the home page.
- 2. Click the Users button on the left side of the page to enter the "SYSTEM USERS" page.

Add a new user

- 1. Please enter the user name, the password, the confirmed password and choose the authority. There are three different levels of authorities, namely Admin, Operator and Viewer.
 - Admin: The user who accesses with the admin name and password has the full power to even change the settings of the IPCAM.

Operator: The suggested choice for normal use.

Viewer: The user who accesses with just the viewer name and password has only a limited power

to view.

2. Click the Submit button to submit the new user's setting.

♦ Modify the user

- 1. Click the user name you want to modify on the User List.
- 2. Enter the password, the confirmed password and choose the authority.
- 3. Click the **Submit** button to submit the new setting.

Oelete a user

- 1. Click the user name you want to modify on the User List.
- 2. Click the Delete button.

7. SPECIFICATIONS

	Model No.	IPX-DDK-1500D		
	Image device	1/3" Sony Super-HAD CCD		
	Effective Pixels	NTSC:768 x 494, PAL:752 x 582		
	System	NTSC/ PAL		
Camera	CCD Setting	BLC, AGC, ATW, FL / Mirror / Shutter Speed 1/1000		
	IR wavelength / IR Length	700~1100nm (built-in 850nm) / 25m		
	Min. Illumination	0.5 Lux @F1.6, 0 Lux IR on		
	Lens	3.7~12mm Vari-focal auto iris DC drive lens		
	Compression	MJPEG / MPEG4		
	Resolution	D1/Half D1/CIF		
Image	Frame-rate	30 (25) / 24 / 15, 5 fps, adjustable		
	Picture size (quality)	MJPEG: 4~64KB MPEG4: 64Kbps ~ 8Mbps (Bit-rate)		
	Motion detection	Motion Detection (96 zones, 5 levels)		
Audio		8 kHz sample rate		
	Interface	Ethernet (RJ-45 wired, 10/100 base-tx), MDIX support		
Network	Network Protocols TCP/IP, DHCP, HTTP, ICMP, PPPoE, *FTF	TCP/IP, DHCP, HTTP, ICMP, UPnP, ARP, DNS, DDNS, PPPoE, *FTP, *SMTP		
Throughput		2.0M bytes/sec		
	Web browser	Microsoft IE 6.0 or above		
Software	PC	Free bundle IP-SURVEILLANCE supports 16CH recording		
Soltware	Development tools ActiveX / HTTP-API / SI			
	Security	Multiple level / Multiple users / IP address filtering		
	Video output	1.0 Vpp, 75 ohm, composite, negative, BNC x 1		
Connectors	Alarm I/O/Reset	1/1/1		
	Reset	Factory Default		
	Power requirement	POE/802.3af, DC12V / 500mA		
	Power current consumption	500mA IR On, 350mA IR OFF		
Others	Operating Temperature	0°C ~ 50°C (32 ~ 122)		
Cileis	Dimensions	110mm(High) X 142 mm (Diagram)		
	Approvals	FCC, CE, RoHS		
	Accessories	User manual x 1 IP-SURVEILLANCE software x 1		

*Specifications are subject to change without notice.

**FTP and SMTP functions for PAL version only.

8. Functions of client PC

System requirement	Windows 2000, XP or above
Browser	IE 6.x
Live Monitor	Max. 16 Split , Real Time REC/ Capture/ Audio/ Live Event/ Full Screen
Playback Viewer	Playback, Time / live event Search / Export (JPEG / AVI)
Settings	Device/ System/ Camera management/ web page
Multi-camera link	Max. 16 camera

APPENDIX 1. – SCANIP

Follow the instructions below to use the SCANIP software to search the IP CAMERA devices

from a local location.

- Click the button to discover the connection of the all-type device in the LAN. The Device List will display the connection of the all-type device.
- 2. Select the desired device from the **Device List**.
- 3. Click the desired device to show the window while the IPCAMERA information acts to

display the desired changes instantly.

fer Scanit						12	08
Varw Tool Help							
H 7							
Device Type	Device Title	MAC Address	IP Address	Http:Port	Gabeway Address	MIT Mak	DHOP
INTEGAL BICAM VIDEO SERVER, 40H NEEGA, JPCAM MEEGA, JPCAM MEEGA, JPCAM MEEGA, JPCAM MEEGA, JPCAM MEEGA, JPCAM MEEGA, JPCAM MEEGA, JPCAM MEEGA, JPCAM MEEGA, JPCAM ACTIONR (MUK) JCh DVR (MUK) JCh DVR (MUK) JCh DVR (MUK)	VideoServer poam poam poam poam poam poam poam povil R07224ML R0724ML R074ML	0000000446 000000446 0000000446 00000000	100 120 120 120 192 150 0.16 150 192 150 0.16 150 192 150 0.00 150 150 192 156 0.00 170 150 150 150 192 156 0.16 170 150 160 171 192 156 0.128 150 160 171 192 156 0.128 150 160 171 192 156 0.128 150 150 150 192 156 0.128 129 152 150 150 192 156 0.128 140 150 150 150 192 156 0.126 156 1.28 150 156	80 80 80 80 80 80 80 80 80 80 80 80 80 8	102-100, 1, 254 192-108, 1, 254 211, 21, 20, 169 192-108, 1, 254 211, 21, 20, 169 192-108, 1, 254 192-108, 1, 254 0, 0, 0, 0, 0	251 253 252 000 255 255 252 000 255 255 252 000 255 255 252 000 255 255 252 000 256 255 252 000 257 255 252 000 257 255 252 000 255 255 252 000	ON ON ONE ON ONE ON ONE ON ONE ONE ONE O
Ready					STATE NUM		

4. Do you want to automatically search free IP?

If and when you want to automatically search the free IP, select "Yes" or "No". If you click

"Yes" the software will provide the "Free IP Address" boxes on the right side of the

window. If you click "No", these address boxes will not show.

Setup		×
Do you want to execute	auto search	free ip?
Yes	No	

1. Manual insertion of "Free IP Address".

If you have clicked "No", please manually type in insertions as required in the "Free IP Address", "Gateway Address", and "NET Mask". Follow each insertion you make by typing in the "Login Name" and "Password", and click "UPDATE" to send your alterations to the IP CAMERA.

Address Set	up
MAC Number:	
IP Address:	192 168 1 129
Gateway Addre	ss: 192 168 1 254
NET Mask:	255 255 255 000
Login Setup- Login Name: (Password:	8

2. Automatically search "Free IP Address".

If you clicked "Yes" the "Free IP Address" box will appear on the right.

eder Tite Baran	Free P' Address
Address Setup MACNumber 00 <td>192, 168, 1.7 192, 168, 1.7 192, 168, 1.7 192, 168, 1.10 192, 168, 1.12 192, 168, 1.16 192, 168, 1.17 192, 168, 1.20 192, 168, 1.21 192, 168, 1.21</td>	192, 168, 1.7 192, 168, 1.7 192, 168, 1.7 192, 168, 1.10 192, 168, 1.12 192, 168, 1.16 192, 168, 1.17 192, 168, 1.20 192, 168, 1.21 192, 168, 1.21
ga Nane	

3. Select and double click any of the addresses in the "Free IP Address" box on the right to

enter it into an IP Address on the left.

System Setup	Free IP Address
Device Title [lancers] Address Setup	192 168 1 5 192 168 1 7 192 168 1 7 192 168 1 8 192 168 1 18 192 168 1 12 192 168 1 16 192 168 1 17 192 168 1 20 192 168 1 20 192 168 1 24
Login Setup Login Name Password	
UFDATE EXIT	

4. To change any IP address, type in the new address in the "Free IP Address" box on the right as well as the device "Login Name" and "Password" in their respective blanks at bottom left, then click "UPDATE", and the new address will automatically be sent to the device.

Device Title Jincam	192.168.1.5 192.168.1.7
Address Setup MAC Number IOI - IOI	192.168.1.8 192.168.1.11 192.168.1.12 192.168.1.15 192.168.1.17 192.168.1.20 192.168.1.21 192.168.1.24
UPDATE EXIT	

5. Click "Exit" at bottom right to shut the device.

APPENDIX 2. – IPCAM UPnP How To

The most troublesome issue when you setup a IPCAM is that you have no idea what the IP address of this device is. Now IPCAM supports the UPnP (Universal Plug and Play) protocol which makes it easier for you to examine it; however, it is a pity that Microsoft Windows XP doesn't start this service by default. Therefore, the following procedures will help you to turn it on and discover your IPCAM step by step as shown in Figure1 below.



Figure 1 UPnP Setup Flow Chart

1. Check the IP class of your PC

In most case Microsoft Windows XP^w will assign an IP address, 169.254.*.*, automatically with a subnet mask, 255.255.0.0, if the DHCP server is absent, while the default IP address of a IPCAM^w is 192.168.1.168 with a subnet mask of 255.255.255.0. There won't be any communication due to different IP class domains, and you have to modify the relative settings or the UPnP protocol won't work; however, checking your own IP address is necessary. Here are the procedures to check and modify them.

Step 1: From the Start menu, point to Settings, and then click Control Panel. See Figure 2.



Step 2: When Control Panel appears, double-click the Network Connections icon. The

Network Connections dialog box appears. See Figure 3.

IN D CONSTRUCT	ALL CARE CO. A	80-
Control Cond Control In Control To Control Control In Control	According Cohen According Cohen According Cohen According Cohen According Cohen According According	Description (1) and (1

3

Step 3: Click the Protocols tab in the Network Connections dialog box. See Figure 4.



Step 4: When the Local Area Connection Properties dialog box shows up, choose Internet

Protocol (TCP/IP) and click Properties. See Figure 5.

		4.0		a strat	
The second second	C. C			1	
Contract weirig				1.1	
MP Adminut Vistor	Gignleit Etherner 16	ADDRA E	Coldquin		
This correction see	the following hereit				
ut and Characters being	a december of the two of the				
No. of Case and Street	in Change to Marrie	and Lindson and			
of the local division of the local divisione	A CTC AVER A	>			
and the second se					
	-				
to a faith			Property		
toutut.		A	Proparties		
transfer Description Transmitting Co		Promotel T	Fromation and	Α.	
tostat. Decemptos Transmittate Co more retrict pro	The stress of billion of the stress of the s	Produced T	Properties for default and manager	A.	
teanan Derestan Teananen Ga Resea saturat ger al.area saturat	devel Protestaniji bekerne sociol fine portvoleni sa soboli reduceni s	Produced T	Properties the default and r access	Α.	
Barriste Descentration Transversition Con- transverse selectore (conserve selectore (conserve selectore)	Annual Protocol (Antonio) Annual Protocol (Antonio) Annual Protocol (Antonio) Annual Protocol (Antonio) Annual Antonio (Antonio) Annual Antonio (Antonio)	Produced T	Properties the default and r access	Λ.	
teretak Desertakan Transmistanan Ca adapt national pro- duction of the second Distance second or nation Distance second or nation Distance second or national	Annual Protocol Schemen and Protocol Schemen and Protocol Schemen and Conferences a conference and scheme real is conversely scheme real is conversely scheme real	d'hadrood it	Properties the distant and distants	A	
Burdent Derertigeban Transversetaten Gar andere restartigen all derer restartigen Distante re	The second secon	of the strength of the strengt	Properties to default and defaults	A	
Include Foreignetion Transmission and the inclusion and the second second inclusion and the second Property room where the Property room where the	Annual Protocol Advertised and Protocol Advertised and their percentages and anter result advert ray address development and a conversion from the	Producted resected	Properties to detect and calculate	Α.	

Step 5: In the Internet Protocol(TCP/IP) Properties dialog box, choose Use the following IP

Address to indicate that you do not wish to use DHCP, and assign IP Address

192.168.1.200 with Subnet mask 255.255.255.0.

Click **OK** when you finish it. See Figure 6.

Internet Protocol (TCP/IP) Properties	? 😹
German - Control With the second with the second second	and the second
Visio can get IV settings as required automatically hyportraduced supports expedially. Otherwise, you recall to deligible testing attractive testing appropriate IP settings.	
Others as P address automatically	
Califie to Informing IF Address	
Patters. 182 188 1 200	>
Butest wate 215 215 215 2	>
Detault preven/	
Collision Disk and America Americania	
Char has to burning DALL server addresses	
Professed DNS server	
Abunati (24) senar	
	(ed.
	Figure

Step 6: Choose Close to finish the modification. See Figure 7.

prositions		
Wavet Value Gipta Ethernal 10/10/	Centpes	
is convector uses the following form		
e Cherritor Microsoft Networks Pile and Pointer Sharing for Microsoft N V Transact Perform (TCP)(P)	interprise.	
tutal.	Properties	5
Description Transmission Control Protocolylinemet Prot area network protocol that provider commo diverse interconnected networks	post. The default water woodfun scosei	
They see a reflectual must when connect (Hold), the when this connection has indeed	nd Ir ro conectivy	

2. Install UPnP Packets

As described before, Microsoft Windows XP[®] doesn't start the UPnP service by default; however, we have to install some packets before we initialize it. The following steps will help you to install them.

Step1: From the Start menu, point to Set Program Access and Default, and then click it. See



Figure 8

Step 2: When the Add or Remove Programs dialog box appears, click the Add/Remove

Windows Components button. See Figure 9.



Step 3: Check the Network Services in the Windows Component Wizard dialog box, and

then click **Details...** See Figure10.

tows Components ov can add or remove components of Westows XP		E.
To add or remove a component click the checkbox. A shaded to the componentwill be installed. I o see what's included in a comp	ix nears that only parts overt, thick Ueffaits	d
Components	0.5.40	2
V MSI Extern	20.7 MB	-
Ci Ci Networking Sectore	0.3 ME	
Contraction Print Print Services	0.0 MB	
CI REOVENA Excess	0.0 MB	31
Description: Contains a variety of specialized, network-reviewed a	envices and protocols.	
Totel disk spece required SE3MB	Dotals	

Step 4: Check UPnP User Interface, and choose OK. See Figure 11.

component w	it be installed. To	see what's included in a comport	ent, click Details.
Subcompone	ints of Networking	Services	
2 Siveria	Gateway Device	Discovery and Control Client	0.0 MB
D Peerto	>Peer		B.0 MD
O BRPU	dener		0.0 MB
C Simple	TCP/IP Sarvices		0.0 MB
	the second s		
B P UPTP I	User Werloce		32M0
Description.	Displays icom network Also	in My Network Places for UPsP of opens the required Windows Fire	levices detected on the well pons.

📕 Figure 11

10

Step 5: When the original Network Component Wizard dialog box returns, click Next. See

Figure12.

You can add or remove components of W	Andows XP.		R
To edd or remove a component, click 8 the component will be instelled. To see	le checkbox. A shaded what's included in a co	labe meteria fint boly pert reponent, citch Datalia	ú
Components			
1 Message Overving		0.0 MB	-
CI WMSN Explorer		20.7 MB	
21 Statement Services		6316	13
Cher Newak File and Pret Saw	ACIES	0.0 MB	11
C Stoverse		0.0 MB	1911
Description: Deskins as which inform	called retwork-related	issues and protocols	
these dates. Cristians is one which the			
Title day some resident	55.3345		-

Step 6: After about one minute the UPnP installation will be done, and choose Finish to close it.

See Figure13.

Windows Components 1	Nizard	100
1	Completing the Windows Components Wizard	
	You have successfully completed the Windows Components Witstd	
-0		
	To classe this recent, click Princh	
· · · ·	Field	Figure 13

3. Turn on Services

After installation, we should turn on the relative services to start the UPnP protocol. The following procedures will teach you how to do it.

Step 1: From the Start menu, point to Settings, and then click Control Panel. See Figure 14.



Step 2: When Control Panel appears, double-click the Administrative Tools icon. The

Administrative Tools dialog box appears. See Figure 15.



Step 3: Click the Services icon in the Administrative Tools dialog box. See Figure 16.

Re Est Vey Factors Tools	140	an <mark>x</mark>	
Q141 - 0 1 Pise	en 🕐 folkers 🕅 🕶 🗙		
Telefore (Sp Automativation Tools		- 20 44	
He and Filder Lask.	Reme -0 Composer for each Composer for each Comp	Die Spe 246 Storbuk 246 Storbuk 248 Storbuk	
	e		Figure16

Step 4: When the Services dialog box shows up, double click the SSDP Discovery Service

icon. See Figure17.



Step 5: Choose Automatic in the Startup type, and click OK to start it. See Figure 18.

neral Log On	Receivery Dependencies	
ervice name:	SSDPSRM	
vplay name.	SSDP Discovery Service	-
leverpton.	Enables discovery of UPnP devices on your home indivutk.	()
with the unit output ability	u. selemi32/www.novi.ene -k.Lucel3/www.ee	
	(Automation	~
presents to down.	Automatic	
ervice status:	Andresen	
ervice status: Oteri	Automotive Automotive Uhranhed Stanled	
lervice status: Otari You con specity t	Automotion Automotion Unapled Distried Disper Dop Pouse Resume he start parameters that apply when you start the service for	200

Step 6: When the Services dialog box appears again, double click the Universal Plug and Play Device Host icon. See Figure 19.



Step 7: Choose Automatic in the Startup type, press the Start button, and click OK to start it.

See Figure20.

	Recovery	Dependenci	65		
ervice name:	urnphos	c			
isplay name:	Universe	al Plug and Pl	ay Device Host		_
escription:	Provide: devices	s support to h	ost Universal Plug	and Play	< >
ath to executab	le:				
(WINDOWS)S	ystem32\svc	hostexe -k J	ocalService		_
lariup type.	Automa	iu			۲
ervice status:	Disable Sopped	d			
Start	5 5	top	Pause	Resume	
ou can specify are. tait parameters	the start para	emeters that a	pply when you sta	et the service fro	

Step 8: Restart your system.

4. Scan IPCAMs[®] through My Network Place

After your installation and starting services, the UPnP protocol will take effect. You can scan all

 $^{\ensuremath{\circledast}}$ in My Network Place like Figure21 and Figure22 below.





Just double click the **UPnP MPEG4 IPCAM** icon, and the video live stream will pop up automatically without assigning any IP address in Microsoft Internet Explorer .

APPENDIX 3. – The ARP function

Setting the IP Address

The Ethernet interface on the IPCAM has a default IP address (192.168.1.168) that most likely needs to be changed to make it work on your local network. You need to acquire a unique IP address (ask your network administrator). For the initial setting of the IP address the IPCAM needs to be connected to the same network segment as your client, and the IP address can then be configured by using a combination of ARP and ping command.

Use any of the following ways to set the IP address within thirty seconds after booting the IPCAM (re-cycle the power). Setting IP using the method below can only be done on the Ethernet interface.

ARP and ping from Windows or MS-DOS:

The user can open the PC's MS-DOS windows from the WINDOWS 98 operation system, or open the PC's Command Prompt windows from either the WINDOWS 2000 or the WINDOWS XP operation system.

- 1. Start a DOS prompt window
- 2. Type the following in 30 seconds after the booting:

arp -s <IP address> <Ethernet address> [or arp -s <IP address> < MAC address>] ping <IP address>

Example: arp -s 192.168.1.100 00-0C-0C-00-00-01 ping 192.168.1.100 The IP address now is: 192.168.1.100

ARP and ping from UNIX or GNU/Linux:

- 1. Start a shell
- Type the following as super user (root): arp -s <IP address> <Ethernet address>
 [or arp -s <IP address> < MAC address>]

ping <IP address>

Example:

arp -s 192.168.1.100 00-0C-0C-00-00-01

ping 192.168.1.100

The device responds to the ping in the examples above if the new address was configured. Note, this method will set the IP address permanently.

Note: The default account and password after the reset are IPCAM and 8888.

APPENDIX 4. – Register as a DDNS member

The DDNS (dynamic domain name system) is a function which is provided by an American company. Please refer to <u>www.dyndns.com</u>. This chapter provides the user with the basic instructions on how to register a free DDNS service.

Registering for a DDNS

Enter the URL <u>www.dyndns.com</u>. In the upper right-hand corner of the main page, where there is an item, "<u>Sign Up Now</u>", as shown in Figure 1.



Figure 1

Create an account

After clicking <u>Sign up now</u>, you will enter the Create Account page. Please complete the form at the bottom of the page to create your account. You will receive an e-mail containing instructions to activate your account. If you do not follow the directions within 48 hours, you will need to recreate your account.

Set up the DDNS

After creating the account successfully, please enter your user name and password in the upper right-hand corner of the main page to login, as shown in Figure 2.

After you login successfully, a text will appear saying "My Services", as shown in Figure 3.



Figure 2

DynDNS				
Next	Invest	Acces	Saget	land
	The second	of Country purchases	+ Accessivements	
K	XIII -			SWS SLA
Keep Consected with DyaDNS			Describe INT lighter Describe Researching Light Man-	
			fetenties	
				and the second second



Click "My Services" to enter the service page. Please click the "Add Host Service" item which is below the "My Hosts" item, as shown in Figure 4.

Click "Add Host Service", and its 5 service items will appear. The <u>Add Dynamic DNS Host</u> item helps to add a new DDNS as shown in Figure 5. Each member may have only one free account, and one free account can have only five DDNS.

Click Add Dynamic DNS Host to enter the DDNS setting page as shown in Figure 6.

Account Level Service Account Service Account Country on Name Account Level Services Country Country on Name Country Country on Name	
Intergrate the services? Consider processing as Account Linguistic Intergrate Intergrat	
Account Level Services	
Therein a second	
Conflict Assess () In Labour Inter	
Accessed Upget advances (C) Tes Since Anno	
A Rolling Orleand (2) Non- Day Sol	
Dear Records (ML) Nov Der All	
BRE Randon Lavel Agronment [2] Have See Ant	
Approval Services Present Regard Refer () There Avalance Self-Service Self-Service	aller .
Zone Level Services	niles les
arch DyrCNS Re research control control control control of the control	

Figure 4



Figure 5
New Dynamic DNS ^{EM} Host Substantilization Normal Register Normal	🛞 Dyn[ONS				Raincost Jallian Landa
The failure is the server of Canada performing of Galance Likeach A Server Se	~ /	Mad Second	Acces	Saget	iten:	
No linead No linead New Dynamic DNS ^{EM} Host Sub Hostname New Dyname Sub Hostname New Dyname Sub Hostname New Dynamic DNS ^{EM} Host Sub Hostname New Dyname Sub Hostnam		Doing no fee server	Counter purchasing a	+ Account/Assession		
No Beneral Name Option Construction Construction Name Option Revealed Dated RA Norma States Name Option Name Optio	Ap Appinet	New Dunamic DNSIN	Heet		Sub	dostname
Nach Capatele March Chanada March Chanada Ma	N Several ;	new synamic bits	river.		Cardina 1	to attend the
Neveral DB F Addams 20 10 / 1 / 10 Neveral Angel Trading Matter C Noveral Angel Trading Matter C Noveral Angel Trading Particular C Add I was been to Net Part Brances Add Part Brances Part Data Parts - C Part Data Part Data Parts - C Part Data Part Data Parts - C Part Data Part Da	And a set of the set of	Permanen		C	10	
M Table Worker C work hand Without Wit	Pergetine (240)	If Address	ter min tel			
ter of Apart () and Tochenger partnersk □ Reving MC (AddThor) Face/Form (AddThor) Fac	LA.	Table Wildows				
And Long Revents And	and Append	Ref Exchanges (optional)		C Better Mrt	1	_
Heads Devent (104) Sectors (104) Yealers Waters	Add Date Same as	the second standard of share-from the			0	Address FasatForm
Targent (M) (And TM) Yeating Watering	Appl read Tarrents				-	-
Data Internet State Sta	Derama (040					
AA/Gammagii	Problema .					
	ALCOHOM STOLEN					

Figure 6

All we have to set in this page is the "Hostname" item. The user can choose a Sub Hostname as s/he likes from the right-hand side of the Hostname's drop-down list.

NOTE: You don't have to set the "IP Address" in the same format as the IPCAM's IP

Address. It will renew the IP Address automatically.

After finishing the setting, please press the "Add Host" button as shown in Figure 6.

		Ø S	-488 a			
	ONS	ered and the				Comparing one and the
001	heat	Istori	Access	Sapart	dans!	
		Thing on the second	Counter perchases	e er felanst lågaste		
Wy Element An Intel Toppment Martines (Mount) Antipute (Mount) Antipute (Mount) Martines (Mount) Martines (Mount) Antipute Antipute Martines (Mount) Martines Martine	The bostname ye	han ngaritetter ber Nationen Frådsom Rid Lohanger Red Lohanger Exchap HT	inated The Inflat	districts in the birden manufacture manufacture manufacture for for for for for for for for for for	a and 1912 spee	
Account Sattings						
20mg	2					

Figure 7

	Highest	High	Medium	Low	Lowest
FULL D1	3	2.5	2	1.5	1
VGA	2.63	2.25	1.75	1.31	0.88
Half D1	1.5	1.25	1	0.75	0.5
Half VGA	1.31	1.13	0.88	0.67	0.44
CIF	0.75	0.63	0.5	0.38	0.25
QVGA	0.66	0.56	0.44	0.38	0.22
ZOOM * 2	3	2.5	2	1.5	1
ZOOM * 3	3	2.5	2	1.5	1
ZOOM * 4	3	2.5	2	1.5	1

1. When frame rate is higher than 15 frames/second (15 is not including):

2. When frame rate is lower or equal to 15 frames/second:

	Highest	High	Medium	Low	Lowest
FULL D1	2.25	1.94	1.5	1.13	0.75
VGA	1.94	1.69	1.31	0.98	0.66
Half D1	1.13	0.94	0.75	0.56	0.38
Half VGA	0.98	0.84	0.66	0.49	0.33
CIF	0.56	0.47	0.44	0.28	0.19
QVGA	0.5	0.44	0.34	0.25	0.19
ZOOM * 2	2.25	1.88	1.5	1.125	0.75
ZOOM * 3	2.25	1.88	1.5	1.125	0.75
ZOOM * 4	2.25	1.88	1.5	1.125	0.75

*The unit is in Mbps/second.

APPENDIX 6. –FAQ

1. How to disable the DHCP function and use a static IP instead?

A : Turn up the "DIP SWITCH" from "3" to "4" and change the relative network settings, the IP Address, Net Mask and Gateway on the image web page.

2. Can the SD card be removed during recording?

A : No, it cannot be removed until the recording comes to a single point. The POWER LED flashing light signals the SD card is operating. The green light indicates the unit is activating. The red light warns the SD card cannot be removed. If the SD card is withdrawn in this mode, the card will break.

3. I've set the function of "Motion Detection" but it doesn't seem to work.

A : Check if "Motion range" and "Sensitivity" have been set before activating the function.

4. My AVI files recorded in the SD card cannot be displayed. What can I do to display the files?
A : Please visit "http://www.morgan-multimedia.com/" to download "Morgan M-JPEG codec" and install it, and then check the selection of the "IJP Core".

5. How to turn on/off the OSD (on screen display) on/off on the IPCAM?

A : Visit the homepage - tailpage.htm of the device, and select "ON" or "OFF" in the OSD column. Example: suppose the IP address of the device is 192.168.1.168

Type in http://192.168.1.168/tailpage.htm (a registration is needed) and select "ON" or "OFF" in the OSD column.

WARNING: Please write down the IP address of the device before you turn off the OSD.