

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

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# 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**

The newly designed H.264 / MJPEG stream IP camera provides simultaneous video codec streams of H.264 and MJPEG in 520 TV lines. This IP camera not only supports the 25 fps frame rate, motion detection and built-in microphone, but also the day and night, and pre- and post-alarm functions. In addition it hosts the powerful Multi Profile function which enables the simultaneous use of different rates of resolution while allowing two video codecs to connect with computers at the same time. Apart from this, the camera brings you four comprehensive and advanced user-friendly PnP operations, and captures alarm and scheduled recordings by using an SD card. Besides, when this IP camera connecting the auto iris lens, and the IP camera makes available the Auto Iris mode which can easily be turned on or off with the help of the switch on the camera's side panel. In this mode the ALC function can also be activated.

This new generation H.264 network camera offers a more progressive digitalized image technology to thoroughly update your surveillance capabilities.

#### **1.2 Product Features**

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Camera:	
Image sensor:	Sony 1/3 inch interlaced CCD
Image co-processor:	Sony HQ1 DSP
Minimum Illumination:	Color 0.5 lux@F1.2
	B/W 0.03 lux@F1.2
Lens type:	CS (C mount adaptor can be used)
Shutter time:	1/50~1/100,000sec (PAL)
Sensor resolution:	440K pixels (PAL)
Horizontal resolution:	520 TV lines
Auto iris type:	DC drive
Exposure:	AES/Auto-iris
S/N Ratio:	50db with AGC off
Day & Night:	Mechanical IR filter
Day & Night mode:	Auto/Day/Night/Schedule
Video Signal:	
Video output type:	BNC
Video output level:	1.0 Vpp +/-10% 75Ω, composite, Negative (BNC unbalanced)
Video output frequency:	-3dB +/-1dB at 3 MHz (25 fps, best recording)
Video output burst level:	300mv(PAL) +/- 10 %
Synchronization:	Internal

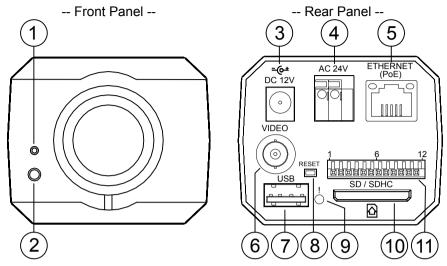
Video Codeo:		
Video Codec:	H.264	
Video compression:	Motion JPEG	
Resolutions:		L) 352 x 288 (PAL)
Video streaming:	•	H.264(720 x 480 and 352 x240)
Video Siteanning. Video Codec – MJPEG:	Simulaneous	T1.204(720 x 400 and 332 x240)
Motion JPEG frame rate:	Up to 25 fps a	t 720 x 576 (PAL)
Motion JPEG rate control:	Yes	
Motion JPEG quality level:	5	
Video Codec – H.264:		
H.264 Frame rate:	Up to 25 fps a	t 720 x 576 (PAL)
H.264 frame rate control:	Yes	
Customized H.264 bit rate:	Yes	
H.264 bit rate control:	Yes	
H.264 quality level:	5	
Image:		As to the data of Ostala and Ostala
AWB:		Auto/Indoor/Outdoor/Push Hold
ALC adjustable:		Yes
Flickless: Mirror:		Yes Yes
High speed shutter:		1/1000 second
Back light compensation:		Switchable
Saturation:		Adjustable
Sharpness:		Adjustable
Contrast:		Adjustable
Brightness:		Adjustable
Privacy Area:		Programmable 3 independent zones
Motion Detection:		Programmable 96 independent zones
Motion Detection Sensitivit	y:	5 levels
Customized motion detecti	on sensitivity:	Yes
Digital PTZ:		Yes
OSD:		IP Address/Date/Time/ICON
Timestamp:		Title/Date/Time
Software Platform:	Dranziatory O	2
Operation System: System Integration:	Proprietary O	5
System Requirement:	Microsoft Win	dows 2000
eystern requirement.	Microsoft Win	
	Microsoft Win	
Remote Access Software:		rnet Explorer 6.0 or above
Network API:	SDK/CGI/DLL	
Recording Software:	16 channel fre	ee-bundled CMS
Alarm:		
Alarm triggers:		Detection
	Schedu	
	Alarm i	•
	Etherne	
Alorm application:		k/Remote digital alarm input
Alarm application:	SD rec	braing
	SMTP FTP	
		cording
Alarm duration:		nmable
Schedule counts:	7	

Network active alarm notification: Yes (ANNP) Hardware: Texas Instruments DaVinci Processors: High performance 32-bit RISC CPU DDRII 1Gbit DDRII memory: 256Mb Flash memory: Real-time clock: **Built-in** Real-time clock battery: Built-in Watchdog: Built-in Firmware upgrade: SD Card/FTP/HTTP Approvals: FCC: Yes Yes CE: RoHS. Yes Power: DC 12V: Yes Max (TBD Watt) AC 24V: Yes PoF. Power over Ethernet (IEEE 802.3af) **Physical Property:** Height: 50mm Width: 62mm Length: 95mm Weight: 360 a MTBF: 1350000Hours Operating Temperature: 0°C to 50°C (32°F to 122°F) **Operations Humidity:** 30% to 80 % Storage temperature: -20°C to 60°C (-4°F to 140°F) Audio Signal: Number of tracks: Mono 1 channel 16 KHz sampling-ulaw Audio sample rate: Audio output: 1K ohms Audio input: Built-in Microphone or LINE in10k ohms 1.0Vpp Network Audio Stream: Available USB: 20\*1 Type: Capacity: 24Mbit Network settings configurable: Yes Network: Ethernet (10/100 Base-T), RJ-45 connector Ethernet: MDIX: Yes Security: 3-Level password protection IP address filtering User access log TCP/IP, UDP, ARP, ICMP, DNS, DHCP, HTTP, SNTP, PPPoE, Protocol: DDNS, UpnP, FTP, SMTP Management console: Full function 19M bit/second Throughput: Bandwidth control: Yes Simultaneous users: 8 DDNS. Dyndns IE recording support: Yes Storage: SD Card Support: MMC/SD/SDHC 2.0 32MB~32GB Pre-alarm: Yes

File system: Recording format: Network play-back: SD card brand verified:	FAT32/16/12 JPG/AVI Yes A-Data/ PQI/ Toshiba/ Transcend/ APacer/ Photo Fast
Device Indicator: Ethernet Link:	Yes
Ethernet Active:	Yes
System Operation:	Yes
System Warning:	Yes
Accessories:	165
Accessories:	USB cable
	CD-Rom
	C-Mount ring
	Power Adapter
	Quick installation guide
PTZ Support:	<b>3</b>
Protocol:	Pelco-D
I/O Ports:	
USB:	2.0 x1
DHCP/Static IP switch:	1
DC IRIS/AES switch:	1
Factory Reset:	Yes
RS-485:	Yes
Alarm input:	1
Alarm output:	1
Alarm reset:	1
Audio I/O:	1
DC-OUT:	1

# 2. DESCRIPTION OF THE FRONT/REAR VIEW

#### 2.1 Front Panel and Rear Panel



- 1. MICROPHONE: The IP Camera has an additional audio function. The device has a microphone built into its front panel which records sound.
- 2. POWER indicator: Indicates the power status of the unit.
- 3. Plug Inlet: A DC 12V inlet that connects to an external power supply.
- 4. Plug Inlet: An AC 24V inlet that connects to an external power supply.
- ETHERNET 10/100 Connector: This is a standard RJ-45 connector for 10/100 Mbps Ethernet networks. PoE (Power over Ethernet) function: Provides power to the device via the same cable as used for the network connection.
- VIDEO OUT Connector: The connector provides the unit's composite video signals to a monitor.
- USB port: The user can use a USB device cable to connect the IP camera to the USB port on the PC.
- 8. RESET: Recover to factory default.
- **9. LED indicator:** The green light indicates the unit is activating and the SD card cannot be removed.
- SD CARD slot: This is used for system software updating and archiving / accessing critical images.
- ALARM I/O: This is a 12-PIN connector including the ALARM IN/OUT, ALARM RESET, GROUND and AUDIO items for connecting with external devices.

#### 2.2 ALARM I/O

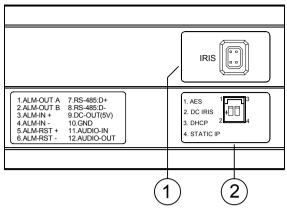
1.ALM-OUT A 2.ALM-OUT B 3.ALM-IN + 4.ALM-IN -	7.RS-485:D+ 8.RS-485:D- 9.DC-OUT(5V) 10.GND
5.ALM-RST +	11.AUDIO-IN
6.ALM-RST -	12.AUDIO-OUT

1 & 2. ALARM OUT (OUTPUT): This is an alarm output trigger. Connect this to external ------ 5V, 20mA ------ 0V(Active)

devices such as buzzers or lights.

- 3 & 4. ALARM IN (INPUT): This is an alarm input that can be programmed in the menu ----- 5V. 20mA system to active low. ( ----- 0V(Active)
- 5 & 6. ALARM RESET (INPUT): This pin connects to an alarm-clear device for clearing an ----- 5V, 20mA alarm. ( ----- 0V(Active)
- 7. RS-485 D+
- 8. RS-485 D-
- DC OUT (5V) 9.
- 10. GND: Ground contact.
- 11. AUDIO IN
- 12. AUDIO OUT: This provides the unit's audio signal to a speaker.

#### 2.3 Flank Panel



1. IRIS: Auto iris connector.

This camera works with a DC drive auto iris lens. Please refer to the pin assignment marked on the camera when connecting the auto iris lens

2. DIP Switch:

	1. AES: Auto electric shutter.		
13	<b>1 3 2. DC IRIS:</b> Use an auto iris (DC drive)		
	3. DHCP: Turn On / Turn Off to use the DHCP protocol. If the switch		
	points upwards, the device can change the setup of		
	network function (enable/disable) via the network.		
	4. STATIC IP: If the switch points down, the device can't obtain an IP		
24	address from the DHCP server. This option is needed		
	to configure the network communication settings.		

#### 2.4 The USB function

By connecting the IP Camera with a PC via the USB connector, the IP Camera 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.

CA:CA:05)	Title DHCP IP Address Netmask Gateway DNS Server HTTP Port PPPoE Enable Account Password	Iancani(CA:CA:CA:CA:CA           OFF           192         168         I           255         255         255           190         168         I           192         168         I           192         168         I           192         168         I           0FF         0FF         0FF           OFF         0R         I	79		Networ Setting
255 0 1 254 1 6	IP Address Netmask Gateway DNS Server HTTP Port PPPoE Enable Account	192         168         1           255         255         255           190         168         1           192         168         1           192         168         1           0FF         OFF         ON	0 254 6		
255 0 1 254 1 6	Netmask Gateway DNS Server HTTP Port PPPoE Enable Account	255 255 255 190 168 1 192 168 1 0FF 0FF	0 254 6		Setting
1 6	Gateway DNS Server HTTP Port PPPoE Enable Account	190         168         1           192         168         1           90         0FF         0FF           OFF         OFF         0FF	6		Setting
1 6	DNS Server HTTP Port PPPoE Enable Account	192 168 1 80 OFF OFF ON	6		
1 6 	HTTP Port PPPoE Enable Account	80 OFF OFF ON			
-	PPPoE Enable Account	OFF OFF ON	<b>_</b>		
<u> </u>	Account	OFF ON	<u>_</u>		
		ON		N	
15	Paceword	TEST		$\backslash$	
	Fassword				PPPoE
C Ad-Hoc	Mode Setting	C Infra-structure C Ac	i-Hoc		Setting
	ESSID				-
*	Channel				
4 bit <b>C</b> 128 bit	WEP Key	C Disable C 64 bit	C 128 bit		
C 3 C 4	Default Key	C1 C2 C3	3 <b>C</b> 4		
	Key1				
	Key2				
	Кеу3				
	Kev4				
ĩ			Key3	Key3	Key3

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.

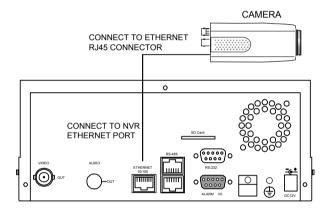
# 3. INSTALLATION

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

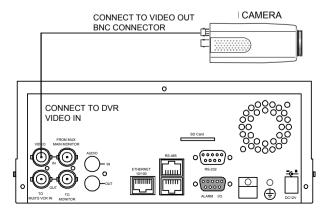
**NOTE:** The IP Camera is linked by its Video Out connection via a BNC connector to a monitor's Video In connection. If this connection is there, you can see some information on the monitor screen, such as the IP Camera factory default Static IP address(192.168.1.168). But the IP Camera Static IP address 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**

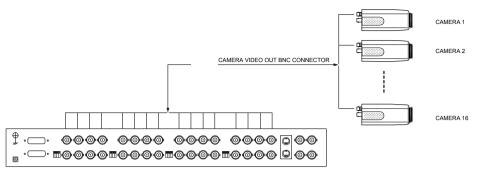
Use a straight LAN cable to connect directly to an NVR.



#### **3.2 CONNECTING WITH A DVR**



#### **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

- 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 LANCAM in the SD card if it does not exist.
- 3. Copy the file of UPDATE.BIN to the LANCAM-directory.
- 4. If the IP Camera is running, please power it off first.
- 5. Insert the SD CARD into the IP Camera.
- 6. Remove the Ethernet cable from the RJ-45 port and then power on the IP Camera.
- 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 IP Camera 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 IP Camera when this update process is finished, then remove the SD card from the IP Camera.
- 11. Reconnect the Ethernet cable to the RJ-45 port if necessary.
- 12. Power ON the IP Camera 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 IP Camera will not work normally after being updated.
- 4. If the power of the IP Camera is suddenly lost in step 8, please remove the SD card first and turn on the IP Camera next to test its operation. If the IP Camera 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 IP Camera does not get online as well, the updating process must be repeated again after rebooting the IP Camera.
- 6. Make sure that the SD card is inserted in a correct position in step 5, or the IP Camera will suffer permanent physical damage.
- If the message "CSUM ERROR" appears in step 8, it implies a problem in the file of UPDATE.BIN.
- 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 "LANCAM" 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

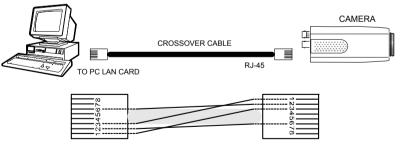
Please follow the instructions below to connect your IP Camera to a computer or a network and to choose a proper RJ-45 cable configuration for connections.

#### 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 or Cross Over	
PC Wiring Configuration	Straight Through or Cross Over	

#### 4.1.1 Connect to a computer

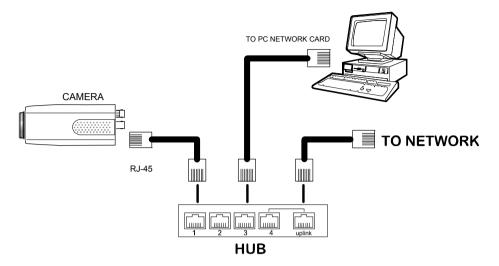
Use a straight LAN cable to connect directly to a computer.



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

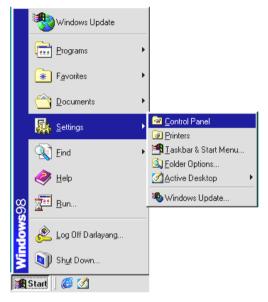
NOTE: When only one unit of the IP Camera is connected to a computer or LAN, you can freely assign an IP address for the IP Camera. For example, there is a range of IP Camera IP addresses from 192.168.1.1 to 192.168.1.255. You can pick one for use from the range of the IP. It's not necessary to set MASK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

When an 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's 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's 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.

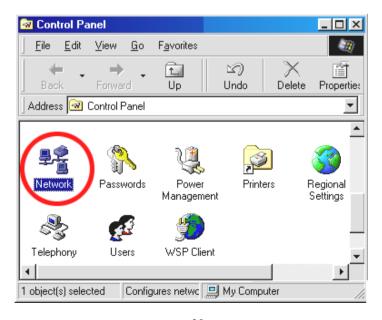
### 4.3 TCP/IP Communication Software

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.



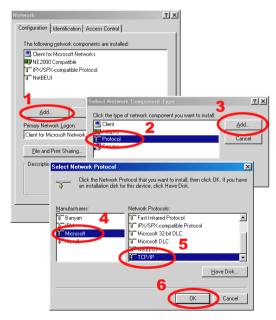
Double click the Network icon to enter the windows.



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 ? X
Configuration   Identification   Access Control
The following network components are installed:
Client for Microsoft Networks
B NE2000 Compatible
FX/SPX-compatible Protocol
5 1077I
,
Add Remove Properties
Primary Network Logon:
Client for Microsoft Networks
Eile and Print Sharing
Description
TCP/IP is the protocol you use to connect to the Internet and wide-area networks.
wide-area networks.
OK Cancel

#### 4.4 TCP/IP Installation



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 <u>Start  $\rightarrow$  Settings  $\rightarrow$  Control Panel  $\rightarrow$  Network.</u>

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	<b>TCP/IP Properties</b>		? ×
Configuration Identification Access Control	Bindings	Advanced	NetBIOS
The following network components are installed:	DNS Configuration	Gateway WINS Con	figuration IP Address
Client for Microsoft Networks  Client for Microsoft Network  Primary Network Logon:	If your network do your network admi the space below.	be automatically assign es not automatically assign nistrator for an address, a address automatically 2 address: 192, 168, 1	n IP addresses, ask and then type it in
Client for Microsoft Networks	Subnet Mas		
OK Cancel		0	K 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.

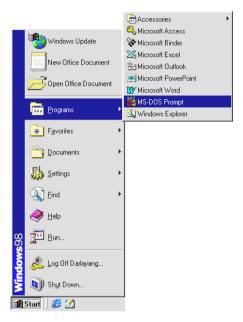
NOTE: The IP address of an IP Camera in a network must be unique to itself as opposed to those of the other chosen PCs, but in the same class type.

# 4.6 Connection Testing

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

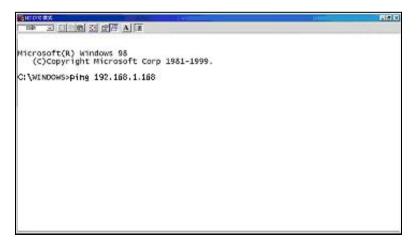
the connection successfully.

#### 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's 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.

N NECCO BUT	
Microsoft(R) Windows 98 (C)Capyright Microsoft Carp 1981-1999.	
c: \wINDOws: ping 192.168.1.168 Type 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 192.168.1.168: Packets: Sent = 4, Received = 0, Lost = 4 (100% loss), Approximate round trip times in milli-seconds: Minimum = Ons, Maximum = Ons, Average = Oms	
C:\WINDOWS>_	

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

connection.

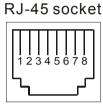
AS DOS INK	181
Microsoft(R) windows 98 (C)Copyright Microsoft Corp 1981-1999. C:\WINDOWS>ping 192.168.1.168 Pinging 192.168.1.168 with 32 bytes of data:	address
Reply from 192.168.1.168 bytes=32 time <lons ttl="128&lt;br">Reply from 192.168.1.168 bytes=32 time<lons ttl="128&lt;br">Reply from 192.168.1.168 bytes=32 time<lons ttl="128&lt;br">Reply from 192.168.1.168 bytes=32 time<lons ttl="128&lt;/td"><td>connection is successful</td></lons></lons></lons></lons>	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>	>,
e : /utilious>	

# 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 co	onfiguration for	or 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.
- 4. Scroll to the bottom of the page, with its six icons, "Image", "Network", "System", "Application", "SD card" and "Pan/Tilt". 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.

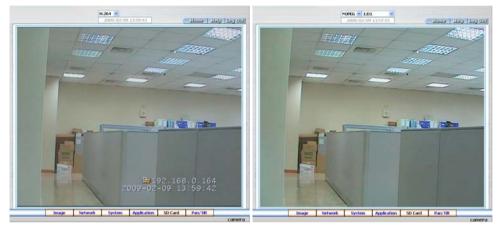
NOTE: The default "User Name" and "Password" are admin and 9999 respectively.

- 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.

Connect to 19	2.168.0.92	? 🔀
R		
NETWORK		
User name:	2	*
<u>P</u> assword:	<u>R</u> emember my pass	word
	ОК	Cancel

#### 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 H.264 mode, there are different display formats of its home page. Scroll to choose the image mode from "H.264" or "MJPEG".



#### Homepage of H.264 mode

#### Homepage of MJPEG 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 MJPEG V 1:D1 V to change the six pairs of resolution and quality which you already arranged in the "Multi Profile" setting page (MJPEG mode only).
  - **NOTE:** The maximum video capture resolution of **CIF** for PAL is 352x288 pixels. The maximum video capture resolution of **HALF D1** is 720 x 288 pixels. The maximum video capture resolution of **D1** is 720 x 576 pixels.
- Click the 11/10/2005 14:31:37 button to change the time/date display mode.
- Click the I button to play the live audio. Click once again to deactivate.
- 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.

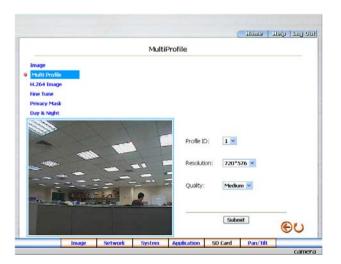
#### 5.1.2 Change Image Setting

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

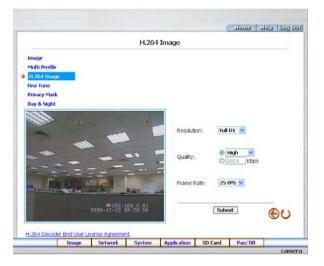
1. Click the Image button on the home page to enter the image-setting page.

		Image		emelt	د روحا ا براهاد
		unage			
Image					
Multi Profile					
H.264 Image					
Fine Tune					
Privacy Mask					
Day & Night					
1111	Contraction of the local				
aller -		10.000			
Alle			Control Walks	le sense à	
-		- C	Device Title:	camera	
-			Device Title:		
				OActiveX	
			Device Title: Viewer Type:		
				OActiveX	
				OActiveX	
				O Activex ⊙ AJAX	
				OActiveX	

- 2. Adjust the image setting including "Device Title" and "Viewer Type" if necessary.
- 3. Click the Submit button to submit the new image setting.
- 4. Click the Multi Profile button to enter the MultiProfile image-setting page. Select an ID (1-6) from the drop-down list then set its resolution and quality. Click the Submit button. Then you can exchange the pairs of resolution and quality directly in the Home page.



5. Click the **H.264 Image** button to enter the H.264 image-setting page. Adjust the image setting including "Resolution", "Quality" and "Frame Rate" if necessary.



- 6. 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: "White Balance", "Flickerless", "Mirror", "High Speed Shutter", "BLC Mode", "Backlight", "Brightness", "Contrast", "Saturation", "Sharpness" and "videoalc". Click the Default button to reset all the settings.

NOTE: The revised image will appear immediately after any change in made.

		Image Fir	ne Tune			
-		and go th				
Image						
Multi Profile						
H.264 Image						
Fine Tune						
Privacy Mask			White	Auto		v
Day & Night			Balance:			1.11
Million	The second		Flickerless:			
	-		Mirror:	OONO		
	and the second		High Spee Shutter:	OONO	OFF	
and the second second			BLC Mode	Disable	*	
Barris			Backlight:	2 120	(0~255)	
			Brightness	< 128	>(0~255)	
			Contrast:	< 128	>(0~255)	
			Saturation	: < 128	>(0~255)	
-	ALL DE TRANSPORT		Sharpness	: < 128	>(0~255)	
	The second		videoaic:	< 120	>(0~255)	
And a second second second	The WALL	- Contraction		Defa	ult	CU
			(Dat	of All Image	e Parameters)	

**NOTE:** The "videoalc" function only activates in connecting the auto iris lens (**DC IRIS**). Please refer to the pin assignment marked on the camera when connecting the auto iris lens. 8. Click the Privacy Mask button to enter the Privacy Mask page.



 Click the Day & Night button to enter the Day & Night page. Click the drop-down list to choose the Day & Night mode of "Auto", "Day mode", "Night mode" and "Schedule". Set the values of Focus Adjust and Sensitivity. Click the Submit button to submit the new Day & Night setting.

			3	ame i	ك روما ا ولقل
	Day & N	ight			
Image Hutti Profile H.264 Image Frine tune Privacy Mask • Day is Notifi Utage/		Day & Ng Focus Adj Sensitivity	ust ;	Auto 2 minutes Medium 🌱	2
F			Subr	nit	θU

#### Note:

The Focus Adjust function:

To achieve ideal sharpness and the best focus, every time you reboot the camera, it will automatically switch from color mode to B/W mode. Click the drop-down list to set the period of the focus adjustment from "30 seconds", "1 minute", "2 minutes", "3 minutes", "5 minutes", and "10 minutes", or just select "disable" to deactivate the function.

10. 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.)

#### Description of function keys:

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

#### Resolution:

MJPEG mode - Scroll to choose the image resolution from "352 \* 240", "720 \* 240" or "720 \* 480" (NTSC); "352 \* 288", "720 \* 288" or "720 \* 576" (PAL).

H.264 mode - Scroll to choose the image resolution from "Full D1","Half D1" or "CIF".

Quality: Scroll to choose the image quality out of a spectrum of qualities ranging from "Highest", "High", "Medium", and "Low" to "Lowest". In H.264 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.

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.

Frame rate: Click the drop-down list to choose the frame rates of "5FPS", "15FPS", "24FPS" or "25FPS".

Fine Tune mode:

White Balance: Scroll to choose the mode from "Auto", "Fluorescent (3200K)", "Indoor (4200K)", "Outdoor (6500K)", "Push Hold".

Flickerless: Mark the "Flickerless" "ON" or "OFF". Click your choices to enable.

Mirror: Mark the "Mirror" "ON" or "OFF". Click your choices to enable.

High Speed Shutter: Mark the "High Speed Shutter" "ON" or "OFF". Click your choices to enable.

BLC Mode: Scroll to choose from "Disable", "Weighted" or "Fixed Gain".

Backlight: Select in the backlight level in the blank (0 to 255).

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

Contrast: Select the contrast level in the blank (0 to 255).

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

Sharpness: Select the sharpness level in the blank (0 to 255).

Videoalc: Select in the blank (0 to 255) to adjust the iris for different lighting environments.

**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 setting 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.

FTP       IP Address:       192.168.0.163         SNTP       Netmask:       255.255.252.0         DDNS       Default Gateway:       192.168.1.1         PPP0E       Primary Nameserver:       192.168.1.1         UPnP       Primary Nameserver:       192.168.1.1         IP Filter       HTTP Port:       80         Traffic       Submit	Network	17	Use of Dy	Netv	vork guration(BOOTF	P/DHCP) Allow	ed.	
<u>SO</u>	SMTP SNTP DDNS PPPoE UPnP IP Filter		Netmask: Default Gate Primary Nam		255 · 2 192 · 1 192 · 1 80	255 · 252 · 168 · 1 ·	0	_
								θU

- The accessible networks here are the "FTP", "SMTP", "SNTP", "DDNS", "PPPoE", "UPnP", "IP Filter" 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 IP 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 numbers between 0 and 255). It is used to identify the subnet where the IP camera is sited.
- **Default Gateway:** Type in the 4-byte Gateway in the relevant blank spaces (each unit value must be between 0 and 255).
- **Primary Nameserver:** Enter the 4-byte DNS Server Address in the blank spaces 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 IP camera.

#### • <u>Change the Network Setting — FTP.</u>

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 Serve	er Setting	Home	מס ניפר מופוי
Network FTP SMTP SMTP DDNS PPPOE UPnP IP Filter Traffic	FTP Server: User Name: Password: File Upload Pa	ath: /t	22.168.1.1 nest mp Submit Submit Schedule P Record P Alarm P Server Login	: 21	]
					(CU)

- 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 IP Camera.

# • Change the Network Setting — SMTP.

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.

			1947 - A.		0	Home	deli	নগ্ৰ চলয়
Network FTP SNTP DDNS PPPOE UPNP IP Filter Traffic		My Serve Account Nar Password: Sender: SMTP Server Email Addres	er Requires Aut	ver Setting hentication 22.168.1.1 uest@localhost Submit				
			SM SM	1TP Application 1TP Alarm	Setting		e	U
	Image	Network	System	Application	SD Card	Pan/Tilt	t i	

- 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 IP Camera.

# • Change the Network Setting — SNTP.

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 Serv	ver Setting	(	i emeli	ين وما ولدا
Network FTP SMTP SMTP DDNS PPPoE UPnP	SNTP Server Time Zone:	G	92.168.1.6 MT+08 Taipei,H Automatically ne Changes. Submit	Sector Street, and		
IP Filter Traffic		SN	ITP Date and Tin	ne		
			Application		Pan/Tilt	CΟ

- 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 IP 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.

Network       ✓ Enable DDNS Function:         FTP       DDNS Type       DynDNS ✓ Apply         SMTP       DDNS Host Name:						Home	וס המך מפוי
FTP     DDNS Type     DynDNS < Apply			DDNS	Setting			
⊛u	FTP SMTP SNTP DDNS PPPoE UPnP IP Filter	DDNS Type DDNS Host I DDNS Accou	Vame:	DynDNS 🔽 (App)	y		
							θU

- 2. Click "Enable DDNS Function" to checkmark the attached box and activate the function.
- 3. Click "DDNS Type" to open the list of two DDNS modes to choose from: "DynDNS" and "hn". 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 two DDNS modes to choose from: "DynDNS" and "hn". 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.

				and the		0	Home	נוס ניסד מופר
	0			PPPoE	Setting			
	Network FTP		PPPoE is	inactive.				
	SMTP SNTP		PPPoE Mode		FF 💌		_	
	DDNS PPPoE		Account: Password:					
	UPnP IP Filter				Submit		-	
	Traffic							
				All	PPPoE setting	takes effect af	ter rebooting	
								θU
_		Image	Network	System	Application	SD Card	Pan/Tilt	

- 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.

					(	Home	رو المرا الموار
7		τ	Jniversal P	ug and Play			
Network FTP SMTP DDNS PPPOE UPnP IP Filter Traffic		Enable U     Max Expired     SSDP Port:     UPnP Port:     Enable U	Age: 12	000 Default:	(10 ~ 3600) 1900		
							θU
I	nage	Network	System	Application	SD Card	Pan/Til	

- 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".
- 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 — IP Filter

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

1. Click the IP Filter button at upper left above to enter the "Network Setting" page.

			115			iloma i	إفلاق ومل الألط
			IP F	ilter			
Network FTP SMTP SNTP DDNS PPPoE UPPP UPPP Traffic		Enable II Default Polic Policy List:		⊙ Allow [ [	O Deny Up Delete Down		_
		Add/Modif Deny :	0.	0 . 0 Submit	) . 0		
	16						θU
	Image	Network	System	Application	SD Card	Pan/Tilt	incam

- 2. Click "Enable IP Filter" to checkmark the attached box and activate the function.
- 3. Select the Default policy.
- 4. Set the Allow/Deny IP Filter policy and enter its IP address.
- After setting the policies, they will be shown on the Policy List. The user can use the "Up" or "Down" to select a policy and use the "Delete" button to erase it.
- 6. Click the Submit button to submit the new setting.
- 7. Click the **Home** button to return to the home page.

**Note:** The settings of the IP Filter must be correct or you may not able to operate the device regularly. In case of the wrong setting of the IP Filter and you can't access the device normally, please press the "**Default**" button on the rear panel of the camera for back to the factory default setting.

# • 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       or heavily loaded networks.         DNNS       Maximum Upload       Image: Kilo Bytes Per Second         PPPDE       Bandwidth:       (0 ~ 102400)         Unappe       Maximum Download       Image: Kilo Bytes Per Second         IP Filter       Bandwidth:       Image: Constraint of the second			Network Traf	ic			
PPPoE     Bandwidth:     (0 ~ 102400)       UPnP     Maximum Download     0       IP Filter     Bandwidth:     (0 ~ 102400)	FTP SMTP	socket is a u	naximum donwloa seful function whe	1/upload			
	PPPoE UPnP IP Filter	Bandwidth: Maximum Dov Bandwidth:	(i wnload 0 (i	) ~ 10240( Ki ) ~ 10240( Jbmit	0) lo Bytes Per 0)	Second	

- 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).

		ella Mice Ma		(	emoli	qtelt	ا يومل
		Date a	nd Time				
Date and Time	The Local T	ime					
Timestamp	Date: 20	100/01/05	Time: 00:07	:08			
Users	The Desire	d Time					
Digital I/O	O Set Manu	ally					
Audio Mechanism	Date: 20	007 🗹 / 10 🖻	/ 16 🗹 (YYY	Y/MM/DD)			
RS485 Setting	Time: 14	+ V ; 00 V	57 🗹 (HH:MM	4:SS)			
Update	OSynchror	nize with Comp	uter Time				
Events	Date: 20	07/10/16	Time: 15:01	:47			
	Osynchror	nize with SNTP	Server				
	SNTP Ser	ver: 192.168.1	1.6				
	Time Zon GMT+08 Singapor	Taipei, Beijing,	Chongquing, U	rumqi, Hong K	ong, Perth	•	
	💿 Manu	ial 🔘 Frequen	cy Every never	~			
	Time Format	: YYYY/MM/D	D 💌				
			Submit				
							U
Image	Network	System	Application	SD Card	Pan/Til	t i	-
							came

- 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 IP Camera.

Set Manually: Manually sets the date and time of the IP 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 IP Camera.

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# • Change the System Setting — Timestamp.

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

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

Date and Tir Timestamp Users Digital I/O Audio Mecha RS405 Setti Update Events	anism	✓ Enable T Timestamp C Timestamp L Timestamp F	imestamp Color: B .ocation: U	stamp LACK V PPER LEFT Y/MM/DD Submit	× ×	. emoli	1910 for out
	Image	Network	System	Application	SD Card	Pan/Tilt	θυ

- 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", "BOTTOM RIGHT", "ANALOG UPPER LEFT", "ANALOG UPPER RIGHT", "ANALOG BOTTOM LEFT" and "ANALOG 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.

						0	Home	إفلاق ومد الراداذ
				Us	ers			
	Date and Time Timestamp Users	17	User List: admin:Admi	n				
	Digital I/O Audio Mechanism RS485 Setting				Delete User	]		_
	Update Events		Add/Modifi User Name:	y User				
			Password:	[				
			Confirm: Authority:		🔿 Admin 🔿 O	perator 🔿 Vie	wer	
					Submit			
								θυ
-	Im	age	Network	System	Application	SD Card	Pan/Tilt	

- 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 IP Camera.

# • <u>Change the System Setting — Digital I/O.</u>

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.

						(	emoli	tialy tog Out
				Digital I/	0 Setting			
	Date and Tim Timestamp Users	20 T	gital Input : gital Output :		OFF Active	100		
•	Digital I/O Audio Mecha RS485 Settir Update				Submit			
	Events							
								θU
		Image	Network	System	Application	SD Card	Pan/Tilt	camera

- 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.

Date and Time       Audio Mechanism:       ○ ON ● OFF         Timestamp       Audio Source;       ○ Audio In ● Mc         Users       Submit         •       Audio Mechanism         RS485 Setting       Update         Events       •			A	udio Mecha	anism Settin	g	tionia 1	נס ניסך   לופוי
	Timestamp Users Digital I/O Audio Mech RS485 Settii Update	anism	Audio Mecha	inism: C	) ON ⊙OFF ) Audio In ⊙Mic	7		
Image Network System Application SD Card Pan/Tilt								

- 2. Mark the "Audio Mechanism" "ON" or "OFF".
- 3. Choose one of the audio sources. The two sources are "Audio In" and "Mic" (microphone).
- 4. Click the **Submit** button to submit the new user's settings.
- 5. 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 H.264 mode via the Web browser.

#### Description of function keys:

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

Audio Source: Select "Audio In" or "Mic" (microphone) from the audio sources.

## • 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.

			RS485	Setting		Home	عد ومد وادا
Date and Tim Timestamp Users Digital I/O Audio Mecha	Ti D	aud Rate: ype: evice ID:	9600 8-N- 1	D bps V 1 V Submit			
Update Events		ransmit Data Via ) Raw Format: ) Canonical Foi		Send Clea	r		
							θU
	Image	Network	System	Application	SD Card	Pan/Tilt	

# 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
  - "Update Firmware" page.

		Lindata I	- irmware			
		opuater	IIIIware			
Date and Time	Current Version	n Description	i			
Timestamp	Kernel Version:		1.00			
Users Digital I/O	BIOS Version:		1.16			
Audio Mechanism	Software Versio	on:	1.30			
RS485 Setting	Compile Date 8	Time:	Sep 21	2007,14:07:3	30	
Update	HTML Version:		1.1.50			
Events	ActiveX Versior	1:	1,0,2,8			
	Update the de Specify the firm		latest firmware. date :			
			覽) and click	Update		
			ne power of the atically after the			
						θU
Image	Network	System	Application	SD Card	Pan/Tilt	

- 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 IP 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.

- **Note:** The Temporary Internet Files (or cache) folder contains Web page content that is stored on your hard disk for quick viewing. We suggest deleting the Temporary Internet Files immediately after updating the firmware. To delete the files in the Temporary Internet Files folder, follow these steps:
  - 1. Quit Internet Explorer and quit any instances of Windows Explorer.
  - 2. Click Start, click Control Panel, and then double-click Internet Options.
  - 3. On the General tab, click Delete Files under Temporary Internet Files.
  - 4. In the **Delete Files** dialog box, click to select the **Delete all offline content** check box, and then click **OK**.
  - 5. Click OK.

# • <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.

			Event Log				
and the state of	Item	Date and Time	Events			2	
Date and Time	1.	2000-01-05 00:05:18		4 103 169 0 01			
Timestamp	1000	2000-01-05 00:05:18	admin LOGIN OK FRO admin LOGIN OK FRO				
Users	2.	2000-01-04 23:50:34	admin LOGIN OK FRO				
	3. 4.	2000-01-04 23:28:10	admin LOGIN OK FRO				
Digital I/O						-	
Audio Mechanism	5.	2000-01-04 23:11:10 2000-01-04 23:11:10	DHCP CLIENT CONNECT LOCAL IP ADDRESS IS				
RS485 Setting	6.						
	7.	2000-01-04 23:09:15	SYSTEM ETHERNET R				
Update	8.	2000-01-04 23:09:15	FTP CLIENT SERVICE				
Events	9.	2000-01-04 23:09:15	DNS SERVICE SHUTDO				
	10.	2000-01-04 23:09:15	SNTP SERVICE SHUTD				
	11.	2000-01-04 23:09:15	SMTP SERVICE SHUTD				
	12.	2000-01-04 23:09:15	DHCP CLIENT SERVICE				
	13.	2000-01-04 23:09:15	ARP SERVICE SHUTDO	****			
	14.	2000-01-04 23:09:15	LOAD 161 FILE(S) TO	FLASH FILE SYST	EM		
	15.	2000-01-04 23:09:15	IMAGE MODE IS JPEG				
	16.	2000-01-04 23:09:15	SYSTEM BOOTING			-	
	17.	2000-01-04 23:09:05	admin FROM 192.168		MODE TO JPE	G	
	18.	2000-01-04 23:05:07	admin LOGIN OK FRO				
	19.	2000-01-04 23:05:06	DHCP CLIENT CONNEC				
	20.	2000-01-04 23:05:06	LOCAL IP ADDRESS IS	192.168.0.43			
		First Pa	ge Previous 20	Next 20			

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.</u>

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

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

(default).

			(Children and Children and Chil	for defi en
	FTP A	pplication Setting	g	
Setting PTP SD Card SMTP Language Record Enable Record Schedule Alarm Enable Alarm Motion Detection	FTP Networking FTP Server: User Name: File Upload Path Storage Setting Upload Rate:	192.168.1.1 Por guest : /tmp 25F/15	)	
				U

- 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.

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# 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.

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

Setting SD Card Storage Format Selection FIP SD Card Storage Format Selection MJPEG Format Max MJPEG Numbers: 10 (Each JPEG Per Second) Language Record AVI Format Audio Setting Enable Record Schedule AVI Duration: 10 Second(s) Enable Alarm Motion Detection Enable SD Card Rewrite Submit SD Card Capacity: 58.98 MB			g	lication Setti	Card App	SD	
Record     Image: AVI Format Audio Setting       Enable Record     Recording Rate:       Schedule     Recording Rate:       Alarm     AVI Duration:       Enable Alarm       Motion Detection       Image: Enable SD Card Rewrite			PEG Per Second)		ormat	O MJPEG F	p D Card 1TP
Motion Detection Enable SD Card Rewrite			J(3)	1.25F/15 ¥	g Rate:	Recordin	rd hable Record hedule
SD Card Capacity: 58.98 MB					D Card Rewri	🗌 Enable S	Section and the second
SD Card Usage: 3 %							
Storage Disk Format: SD Format	U	C		D Format	k Format: SC	Storage Dis	

- 2. You have an option as to which SD - card storage format to use, the MJPEG or the AVI. Click your selected format and click "Submit" to set it.
- If it's MJPEG you want, fill in the "Max MJPEG Numbers" entry. 3.
- 4. 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.

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# • Change the Application Setting —SMTP Application Setting.

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.

		1977 - STP		0	Home	و وما وادار
	SM	TP Applic	ation Settin	g		
Setting FTP SD Card	<b>SMTP Networl</b> SMTP Ser∨ Email Addr	er: 19	92.168.1.1 uest@localhost			
Language Record Enable Record Schedule Alarm Enable Alarm Motion Detection	Storage Sett Attatched Numbers:	1000	Submit			
Potion Detetaon						
						θU
Image	Network	System	Application	SD Card	Pan/Tilt	

- 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.

					Home	son defi
7		Languag	e Setting			
Setting	Language:	E	nglish(English)	~	•	
FTP						
SD Card			Submit			
SMTP						
Language						
Record						
Enable Record						
Schedule						
Alarm						
Enable Alarm						
Motion Detection						
						De.
						θU

- 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.

	cannot be a series of the series				
	Recor	d Applicatio	on Enable Se	etting	
Setting FTP	🔲 Enable R	lecord - Upload	l Via <b>FTP</b>		
SD Card	🗹 Enable R	lecord - Save I	nto SD Card		
SMTP Language			Submit		
Record					
Enable Record					
Schedule					
Alarm					
Enable Alarm					
Motion Detection					
					θU

- Click "Enable Record UPLOAD Via FTP" to checkmark the attached box and activate the function.
- 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>

							Sel	201	lule													
							30	iec	JUIE	.8												_
Setting			Ved	Ines	day	y `	Fr	om	00	~	:	00	*	То	00	~	: 00	•				
FTP			Sun	day	9	5	Fr	om	00	Y	:	00	Y	То	00	Y	: 00					
SD Card		5	Sun	day		1	Fr	om	00	×	:	00	×	То	00	14	; 00	1 4				
SMTP		_	Sun			5	Fr	om	00	Y	:	00		То			: 00	1. 1				
		S 144	Sun			1	- 100	om	-		1.00	00		То			: 00					
Language		-	Sun			3		om				00		То	-		: 00					
Record		1	Sun	day	£	10	Fr	om	00	Y	:	00	X	То	00	12	: 00	1.19				
Enable Record		1	2	3	4	5	6	7 8	3 9	10	1	112	13	14	151	617	18	19 20	21	22 23	3	
Schedule	SUN		-																			
Alarm	MON																					
Enable Alarm	TUE																					
Motion Detection	WED									cio	00	) - 0	0:0	0								
	THU									Τ	Γ										1	
	FRI							1				Ĩ.										
	SAT		6								T	1									1	
		_		_	_	_		_	_	_	_		_		_	_			_		)	
				(	Su	ıbn	nit	C		Re	no	ve /	All S	Sche	dule	es						
																				1	€t	

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 IP 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 1 Enable Setting" page.

Setting Enable Alarm - Trigger an Alarm When Ethernet Is Lost FTP Enable Alarm - Upload Via FTP SD Card SMTP Enable Alarm - Upload Via SMTP Record Alarm Duration: 30 seconds V Schedule Alarm Submit Motion Detection		Alarm Application Enable Setting
	FTP SD Card SMTP Language Record Enable Record Schedule Alarm	Enable Alarm - Upload Via FTP Enable Alarm - Save Into SD Card Enable Alarm - Upload Via SMTP Alarm Duration: 30 seconds

- Click "Enable Alarm Trigger an Alarm When Ethernet Is Lost" to checkmark the attached box 2. and activate the function.
- Click "Enable Alarm Upload Via FTP" to checkmark the attached box and activate the 3. function.
- Click "Enable Alarm Save Into SD card" to checkmark the attached box and activate the 4. function.
- Click "Enable Alarm Upload Via SMTP" to checkmark the attached box and activate the 5. function.
- 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.

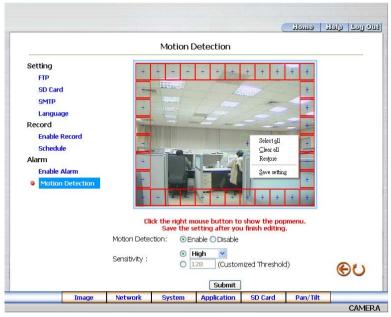
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# <u>Change the Application Setting — Motion Detection.</u>

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:

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



2. 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.

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## 5.1.6 Change the SD card Setting

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

<u>Change the SD card Setting — FILELIST of MEMORY CARD.</u>

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

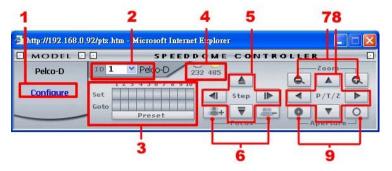
 Click the "SD card" button at the bottom of the home page to enter the page containing the "FILELIST of MEMORY CARD". The page comes in two modes, the JPEG and the AVI (please refer to the "SD card Application Setting Page").

Filename	Date Time Size		Filename Date Time Size
31VRB2E.AVI	2004/02/13 15:50:38 96%	DELETE	31VRCA02.TAG 2004/02/13 16:12:08 266 DELETE
31VRB3P.AVI	2004/02/13 15:51:20 968	DELETE	<u>31VRCGRZ.TAG</u> 2004/02/13 16:15:22 266 <u>DELETE</u>
31VRB5H.AVI	2004/02/13 15:52:16 968	DELETE	2 file(s) and 339 KBytes free
31VRB9G.AVI	2004/02/13 15:54:24 96%	DELETE	HTTP SERVER AT caml
31VRBAM.AVI	2004/02/13 15:55:02 96%	DELETE	
31VRBF8.AVI	2004/02/13 15:57:28 968	DELETE	
31VRBH6.AVI	2004/02/13 15:58:30 968	DELETE	
31VRBQ7.AVI	2004/02/13 16:03:18 968	DELETE	
31VRC7S.AVI	2004/02/13 16:10:36 938	DELETE	
9 file(s) and 89	35 KBwtes free		

- 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

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



- Click "Configure" to enter to the RS485 setting page (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 Camera and the Video monitor. The monitor screen will show the IP address on its right side.
- 3. Change the switch on the IP Camera'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's IP address in the URL (check step # 2 above) → Enter → IP Camera images will appear.

#### PPPoE Settings

- Enter the IP Camera home page → Choose the network → Type in "User Name: admin" and "Password: 9999" → 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's IP address (the same address as in the PPPoE settings and step 3 above) → You can see the IP Camera 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 Camera or view the images → Choose the network
   → Type in "User name : admin" and "Password : 9999" → 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 CMS (Central Management System)

This section provides instructions for installing and using the **Central Management System** (CMS) which is 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.

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 the CMS

The **CMS** 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.

- Views live images in a smooth sequential flow from an IP camera.
- Stores, searches, and reviews recorded video from a PC or an SD card quickly.
- Changes manual record, event record, and schedule record settings easily.

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.

#### Install the CMS 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:** The program will update the .NET Framework to version 2.0 automatically. Please click "**Next**" to start and finish the setup process.

H Microsoft .NET Framework 2.0 Setup	
Welcome to Microsoft NET Framework 2.0 Setup	
This wizard will guide you through the installation process.	
Next >	Cancel

- Select a language of the installing process from the drop-down list in the "Installer Language" window.
- 4. After the installation is complete, pop up the START menu from your computer, and point to Programs / APPRO CMS / APPRO CMS to open up the program selection page as shown below. Click the APPRO CMS tag to start the CMS program.

#### Install the CMS 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.
- Click the setup icon to execute the installation and then follow the on-screen instructions to proceed with the rest of the installation procedure.
- After the installation is complete, click the START menu from your computer, and point to Programs / APPRO CMS to start the CMS 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 IP Camera software

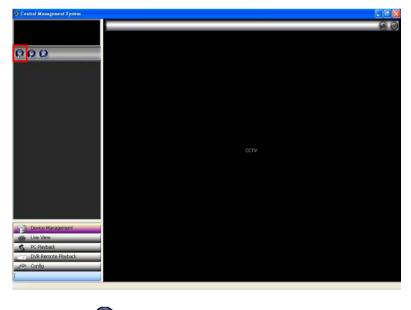
Once the **CMS** is executed, a Login prompter will appear. You must enter the default user name: **admin**, and the password: **9999** in the respective spaces (and confirm the password again the first time you log in). Click the "**OK**" button and enter the console page of the **CMS**: both the user name and password must be entered correctly. Click the "**Cancel**" button and exit the login of the **CMS**.

🛞 CMS Login		
Username:		
Password:	<u>C</u> ancel	

#### View the IP Camera video from a remote PC

Follow the instructions below to use the CMS to browse an IP Camera video from a remote

location. Upon entering the **CMS**, a connection box will appear as follows.



Press the <sup>1</sup> (Add Device) button on the Device Management page.

Download from Www.Somanuals.com. All Manuals Search And Download.

2. Add a channel from the **Add Device** page.

🎁 Add Device	
Device	1
Auto Search	
IP Address:	
HTTP Port:	80
Device Title:	
Username:	admin
Password:	
Share Device To:	None
Permissions:	✓ Readwrite
Test Connection	
	<u>A</u> dd <u>C</u> ancel

(1) Click the Auto Search button at the bottom of the "Add Device " page to discover the connection of the IP Camera-type device in the LAN. Instantly the "Search Device" page will appear. Click the device of your choice and click "Add" at the bottom of the page to access the "Add Device " page again.

(2) This page provides the IP Address and the HTTP Port. After typing the Device Tile, Username, Password and selecting the share device function or the permissions function, please click the "Add " button to establish the connection between the device and the computer.

- Click the device title to begin viewing images with this camera from the device list.
- NOTE: To add more connections or units to the IP Camera, please repeat the above instructions.

	🐞 Add Device	
	Device	
	Auto <u>S</u> earch	
	IP Address:	192.168.0.98
	HTTP Port:	80
	Device Title:	IP camera
	Username:	admin
	Password:	****
	Share Device To:	None
	Permissions:	Read write
C	Test Connection	Add Cancel

# NOTE: Please click the Test Connection icon to test the connecting situation and

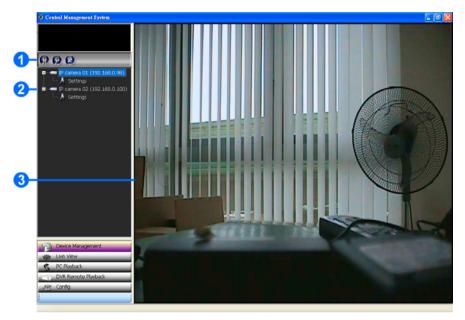
## preview the video of the IP Camera.

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# 5.2.4 Operation

## 5.2.4.1 Device Management

Once the connection has been established, click the <u>Device Management</u> button to enter the Device Management 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.





# Add device:

Add a new device. For more details please refer to section 5.2.3.



#### Modify device:

Modify the added device. Please select a device, then click this button to edit the device.



#### Delete device:

Delete the added device.

#### Device Setting:

Settings For the further setting of each channel, please select the device title on the left side and click the setting button to enter the setting pages of the device.

#### List of devices:

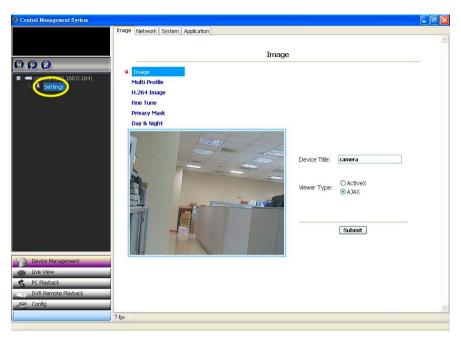
(2) The users can click the title of the device and use the icons above the list to change the device settings.

# 3 Display area:

Click the title of the device, and you will see the live image in this area.

# NOTE:

# The Device Setting page:

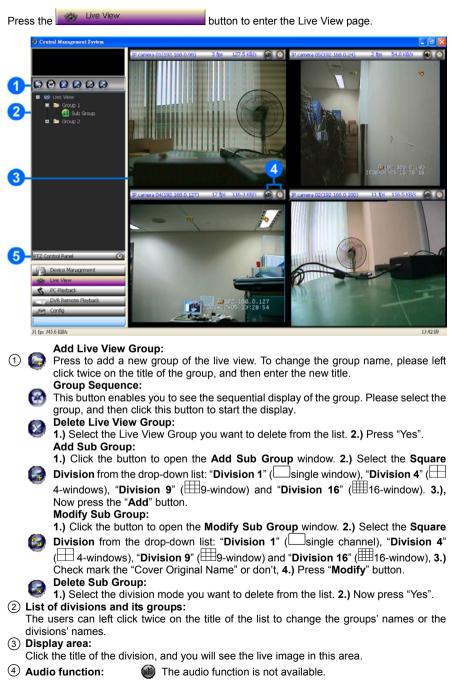


For the further settings of each channel, please select the device title on the left side and click the setting button to enter the setting pages of the device.

Click the "Setting" button to bring up the device-setting pages. You can interchange between four buttons: the "Image", "Network", "System" and "Application".

The method of operation is the same as the Microsoft Internet Explorer setting pages (please refer to section 5.1 for more details).

# 5.2.4.2 Live View



	_	The audio function is available. Press to activate the function and the icon will turn purple " . Press again to deactivate the function.		
Recording function:	®	The recording function is not available.		
0	8	The recording function is available. Press to activate the function and the icon will turn red " 🚳 ". Press again to deactivate the function.		
5 PTZ Control Panel:		Press the button to expand the PTZ Control Panel;		
		press the 🛛 button to minimize the PTZ Control Panel		
		The direction keys		
		from 1 to 63. 1 is the lowest rate and 63 the highest. You can set any one of these to control your speed dome rate.		
		(Preset): Click this button to save the preset position.		
		(Preset Goto): Click this button to automatically view the preset position number you have selected.		
(Preset Clear): Choose any one preset position and clic this button to delete your choice.				
<b>P D D</b>	1	1 V (Preset Position number): There's a drop down list here from which you can choose the preset position you want.		
(Auto Scan): Click this button to view preset positions 1 to 8 automatically.				
(Stop Auto Scan): Click this button to stop auto scan.				
, and : The Tour function keys.				
and : The Aperture function keys.				
Pip: Click this button to turn the camera180 degrees horizontally.				
Zero pan: This button enables you to return the camera to the original direction it was facing.				
OSD: Click this button to activate the OSD in the dome device menu the OSD enables you to select or change your remote settings.				
NOTE: Add a camera video onto the Live View area: (1) Click the title of the camera that was				
connected. (2) Click the rig	ht m	ouse button of the mouse on the live view area, then click left to		
select a camera from the list. The video from the new camera will be displayed (3) In the live				

connected. (2) Click the right mouse button of the mouse on the live view area, then click left to select a camera from the list. The video from the new camera will be displayed. (3) In the Live View area, if you want to change/delete the videos of cameras or use the snapshot/ full screen function, you can click the right mouse button again on the live view area, then click left to select. **NOTE:** When there is a detection of external devices such as a sensor, it will display a red color bar on the title-displaying area and start to make an alarm sound to warn the user.

**NOTE:** How to set the preset position: Choose a preset position number, and then use the "Tilt" and "Pan" direction keys to find the camera angle you want. Now click the "Preset" button to save your position. You can similarly set other preset positions -- please note -- by first changing the position number. Now click the "Auto Scan" button to view preset positions 1 to 8 automatically.

#### 5.2.4.3 PC Playback



Export Set           ● start Time           2008/ 6/10         ▼ 10:22:17           ● End Time           2008/ 6/10         ▼ 10:22:51           Eully Export	<ul> <li>Export Set: Click to set the export function. The function fits the starting and ending points of an image display, when the user wants to transfer a file.</li> <li>Start/ End time: Set the start and end time that you want to export (backup) the recorded files to the AVI files. Note: You also can click to select the recorded file on the recording list above.</li> </ul>
	<u>Eully Export</u> : Click to add the whole selected video to the arranged exporting list.
	Add : Click to add the selected part of the recorded video (with time setting) to the arranged exporting list.
	Reset : Click to reset the Start/End time.
Export Run	Export Run: Click to start to run the export function.
Title Range Cameral From_20080610101915 Cameral From_20080610101900 Cameral From_20080610102217	Click to run the export function of the selected work on the list.
	Click to delete the arranged work.
NOTE: To change the f	older of saving the exported AVI files please go to the Config setting

NOTE: To change the folder of saving the exported AVI files please go to the Config setting page (Config\ Custom\ Path Settings\ Folder for Export AVI Clips\).

- ③ The display area.
- (4) Snapshot

Provides the image capturing function. Click the right key of the mouse on display area to show this icon, then click left to capture a jpeg file of the video.

 $^{(6)}$  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.

## 5.2.4.4 DVR Remote Playback (for DVR devices only)

Press the DVR Remote Playback button to enter the DVR Remote Playback setting

page. This setting page is for connecting with the DVR devices

🙆 Central Management System		1 🖬 🔀
		~
		8
Device		
2009/ 2/10 🔻 14 : 31 : 07 【 🍳		
Seq. Start		
Export First Prev. Next Control	ссту	
Device Management		
😸 Live View		
S PC Playback		
DVR Remote Playback		
Config		

#### 5.2.4.5 Config

Press the Config	button to enter the Config setting page.
O Central Management System	
User Lst: User Group Custom Alarm Handler Record Settings Schodule Cuopper Alarm Lst	User Information: Username: Description: Group:
Config	

**NOTE:** After finishing the settings of each page, please click **Save** to save the parameters.

## (1) User

Click the 🍐 User	icon to enter	the User setting page.
User List:	User Information: Username: Description: Group:	

#### User List:

#### Add User:

1.) Click to open the Add User window. 2.) Enter the information of the Username, 8+ Password, Confirm Password and Description. 3.) Select the User Group if necessary, 4.) Now press "Add".

## Modify User:

1.) Click to open the Add User window. 2.) Enter the information of the Username, 1.) Click to open the Add User window. 2., Enter the International Content of the Password, Confirm Password and Description. 3.) Select the User Group if necessary. 4.) Now press "Modify".

#### Delete User:

Delete User:
 1.) Select a user from the user list. 2.) Now press "Yes".

#### User Information:

Provides the selected user's information of Username, Description and Group.

#### (2) User Group

	100
Click the	1

to enter the User Group setting page.

User Group List:	-Group Information:		-
<b>8 8</b>	Group Name:	Administrators	
	Description:	Administrators	
Administrators			
Poperators	Member:		
Viewers			

#### **User Group List:**

#### Add Group User:

User Group

1.) Click to open the Add Group User window. 2.) Enter the information of the Group Name and Description, then select the Authority. 3.) Set the member list from the available user list . 4.) Now press "Add".

#### Modify User Group:



1.) Click to open the Modify User Group window. 2.) Enter the information of the Group Name and Description, then select the Authority. 3.) Set the member list from the available user list . 4.) Now press "Modify".

#### **Delete User Group:**

Belete User Group.
 1.) Select a group from the group list .2.) Now press "Yes".

#### Group Information:

Provides the selected user's information of Group Name, Description and Member.

#### (3) Custom

Click the 🛐 Custom

icon to enter the Custom setting page.

User Interface Settings	$\odot$	Image Settings
User Interface Settings		Image Settings
Language:		Aspect <u>R</u> atio:
English (English)		AUTO
Date Format:		
2007/02/25		
YYYY/MM/DD		Sequence Settings
Eont:		Sequence Settings
Tahoma 🕢		Time Interval:
Tahoma		30 Seconds
Path Settings		
Path Settings		
Folder for Snapshot Images:		
D:\My Pictures		
Folder for Export AVI Clips:		
C:\Documents and Settings\cloudy\My		

#### **User Interface Settings:**

- (1) Language: Select a language from the drop-down list.
- (2) Date Format: Select the date format from the drop-down list.
- (3) Font: Click 🚺 to select the font. Path Settings:

(1) Folder for Snapshot Images: Click <sup>1</sup> to select

<sup>(2)</sup> Folder for Export AVI Clips: Click by to select the path to save the AVI files. Image Settings:

Select the aspect ratio: ( **NOTE:** The STRETCH status : Images are resized to full screen status. The aspect ratio status: When you resize images, they will retain their natural proportions. )

- (1) **AUTO:** The JPEG compression mode comes with the STRETCH status. The MPEG 4 and the H264 compression modes have the aspect ratio status.
- (2) **STRETCH:** This status enables images in the MJPEG, MPEG4 and H264 modes to expand to the full screen.
- (3) **FORCE TURN ON:** This status enables images in the MJPEG, MPEG4 and H264 modes to remain in the aspect ratio status.

#### Sequence Settings:

Set the time duration (30, 60, 120, 180 or 300 seconds) from the drop-down list.

Save: Apply the changes.

Undo: Undo the latest changes

Restore Default: Recover to default setting.

## (4) Alarm Handler

Click the Alarm Handler icon to enter the Alarm Handler setting page.

Sound Settings	
Enable Alert Sound	
.\sound\alarmring.wav	
Record Settings	
Enable <u>R</u> ecord	
Duration:	10 Seconds
🔲 Enable <u>P</u> reAlarm	
SMTP Settings	
🗹 Enable Send <u>M</u> ail	
Mail Server:	
Recipients:	
Use SMTP Authoriza	ation
<u>U</u> sername:	
Password:	Test Mail

## Sound Settings:

(1) Tick mark the blank space to activate it.

(2) To vary the sound file click \_\_\_\_\_ to change it.

#### **Record Settings:**

- (1) Tick mark the blank space to activate it.
- (2) Select the duration from the drop-down list.
- (3) Checkmark "PreAlarm" to activate the pre-alarm function.

#### SMTP Settings:

Tick mark the blank space to activate it.
 Mail Server: Enter the mail server name.
 Recipients: Enter the recipient's e-mail address.

(2) Set the SMTP and the E-mail address to mail the user when the alarms occur.

Save: Apply the changes.

**Undo:** Undo the latest changes **Restore Defaults:** Recover the default setting.

## (5) Record Settings

Click the Record Settings icon to enter the Record setting page.

_		Record Path		Current Usage	Max, Usage	Overwrite	
	Add	C:\CMSRecor	d	83%	90%	✓	
	elete						
1)	<u>A</u> (	dd	Click to add a new	v record saving pat	h.		
	Del	ete	Click to delete a s	elected recording p	oath.		

<sup>(2)</sup> Max. Usage: Set the maximum recording quota from the drop-down list.

Overwrite: Checkmark to activate the function.

③ Save: Apply the changes.

Undo: Undo the latest changes.

## (6) Schedule

Click the 뵐	Schedule icon to enter the Schedule setting page.
Day Of Week:	Wednesday 👻 Start Time: 10:54 🛟 End Time: 18:25 🛟 🥑 🗶
0	00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Sunday	0
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
	00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
4	
Save	Undo Clear All

1 The setting area:

Day Of Week: Daily

<

Sets the recording day from the drop-down list.

**Note:** After the setting of the starting and ending time is done, select "Daily" to add the same time schedule from Sunday to Saturday.



Sets the starting time of recording from the drop-down list.

Sets the ending time of recording from the drop-down list.

Clicks the icon to enable the just added schedule.

Clicks the icon to disable the selected schedule.

## ② The working area:

- (1) Click the working area directly to add a new schedule as you wish.
- (2) The functioning schedule bar is colored orange and the non-functioning schedule bar(s) is colored pink. You can just click the right button of the mouse on the functioning schedule bar ( in orange color) to cancel it.
- (3) To enlarge the display size of the working area, please click the left button of the mouse on the numeral bar (100 01 02 03 ...); on the other hand, please click the right button to narrow it.

Note: The largest column length is 4 times the default size of the working area..

## ③ The schedule bar:

(1) Click and drag the left and right edges of the schedule bar to adjust the starting and ending time of the schedule.

Note: For the exact schedule period setting, please set the day and time in the 1 setting area directly.

(2) Click and drag the middle of the schedule bar to move it. The moved bar is in the same length but the starting and ending times are changed.

## 4 Save: Apply the changes.

Undo: Undo the latest changes.

Logaer

Clear All: Clear all the schedule markers in the current editing area.

## (7) Logger

Click the

icon to enter the Logger listing page.

## Example:

	INFO SYSTEM: Login OK. user:admin
	INFO SYSTEM: Add device 192.168.0.145 OK.
	ERROR SYSTEM: Network login failed! Host: 192, 168, 0, 29
2008/05/13 13:36:30	INFO SYSTEM: Add device 192.168.0.21 OK.
2008/05/13 14:09:13	WARN LIVE_VIEW: Please select a live view group node from the list!

## (8) Alarm List

Click the 🦨 Alarm List

icon to enter the Alarm listing page.

#### Example:

Record Recycle Bin 2008/4/25         02:06:47         Disconnect           Record Recycle Bin 2008/4/25         02:16:19         IOAlarm           Record Recycle Bin 2008/4/25         02:16:20         Motion
Camera03 2008/4/25 02:34:14 IOAlarm Camera03 2008/4/25 02:34:14 Motion

## 5.2.4.5 Tray

Press the **\_\_\_** button to minimize the **CMS** monitor into the systray\* of the Windows taskbar.

Right click the Obstraction once to select the functions on the list:

CMS Close CMS

\*: 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 help 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.

# 6. ADVANCED OPERATION

Question 1:	
How to view the live images of the IP Camera via the Microsoft Internet Explorer on the	1
Desktop PCs or the laptop computers in a situation where there are no monitors or	1.1
television?	;

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

There are three ways 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.

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

- 1. Click the Application button in the home page.
- 2. 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.

#### $\diamondsuit$ 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 IP Camera 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 IP Camera

- 1. Click the URL block at the top of the PC screen.
- Type in the DDNS Host Name of the IP Camera 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 IP Camera.

## **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?

## ♦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.

## $\diamondsuit$ 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.

## **Question 5:**

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

## ♦ 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.

#### 

- 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 IP Camera.

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.

## ◇Delete a user

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

# 7. SPECIFICATIONS

	LC-7314 H.26	4 CCD Box IP-C	amera (PAL)
	Video sensor		er HAD CCD (with HQ1 DSP)
	Horizontal resolution	520 TV Lines	
	Lens	C / CS mount	
Video system	Auto Iris	DC drive	
	AES	1/50 ~ 1/10000	00 sec
	Min. illumination	0.5 Lux @ F1.2	
	Day & Night	Yes (Mechanica	
	Video compression	<ul><li>Simultan</li><li>Controlla</li></ul>	eous H.264 & MJEPG video streaming. eous multi-profile video stream. able frame rate and bandwidth
Imaga system	Resolutions	Full D1 / Half D	
Image system	Frame rate	Up to 25 in all r	esolutions.
	Image quality	5 levels	
	Image configurations	Saturation, Fluc	rast, Brightness, AWB, BLC, Sharpness, prescent, Private mask (3 areas).
Audio		one / external au	idio input x 1
	Audio compress		
Network system	Support protocols	UPnP, ARP, DNS	CP, SNMP, RTSP, RTP, RTCP, DHCP, S, DynDNS, SNTP, PPPoE, 3GPP
Notwork System	Security		ities levels / IP filtering
	Users	8 simultaneous	
Connectors	<ul> <li>Ethernet 10Base RJ-45</li> <li>12 pin push-in B alarm input / ala RS-485 / DC Ou audio output /</li> </ul>	block for:	<ul> <li>SD card slot</li> <li>USB connector BNC output for analog signal output</li> <li>DC/AC jack connector</li> </ul>
Application	Alarm management	<ul> <li>external</li> <li>Alarm ca</li> <li>Alarm no alarm-o</li> </ul>	
	Video management software	<ul> <li>Build-in V</li> <li>APPRO-C</li> </ul>	Web server CMS Lite
	System integration	Comprehensive	development SDK kit, including veX control / Customized Web page tool
	Update	SD card / HTTP	P / FTP
	LED indicator	Power / Networ	
	Power	<ul> <li>Power ov</li> <li>DC 12V</li> <li>AC 24V</li> </ul>	ver Ethernet(IEEE 802.af)
	Temperature	0 – 45C	
Miscellaneous	Platform	TI Davinci DM3	55
	Accessories	CD x 1 Quick installatic Camera bracket Power adapter : USB connection	t x 1 x 1

\*Specifications are subject to change without notice.

# 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.

1. Click the Refresh button to discover the connection of the all-type device in the LAN. The

Device Type will display the connection of the all-type device.

- 2. Select the desired device from the **Device Type**.
- 3. Click the desired device to show the window while the IP camera information acts to display

the desired changes instantly.

File <u>I</u> ool Option							
Device Type	Title	MAC	IP	HTTP P	Gateway	Mask	DHCP
UnKnown(2247)	DVR	00:00:00:00:98:98	192.168.3.201	80	0.0.0.0	255.255.252.0	Off
H264_IPCAM	ipcam	00:0C:0C:01:7B:34	192.168.0.96	80	192.168.1.254	255,255,252.0	On
MINI_IP_PTZ	ipcam	00:0C:0C:00:54:DE	192.168.0.186	80	192.168.1.161	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7A:5C	192.168.0.52	80	192.168.1.254	255.255.252.0	On
PCAM	ipcam	00:0C:0C:00:7C:9A	192.168.1.180	80	192.168.1.254	255.255.255.0	Off
4CH SERVER	vserver	00:0C:0C:01:54:42	192.168.0.226	80	192.168.1.254	255.255.252.0	Off
PCAM	ipcam	00:0C:0C:00:7C:A4	192.168.1.181	80	192.168.1.254	255.255.252.0	Off
H264_IPCAM	ipcam	00:0C:0C:01:7A:64	192.168.0.64	80	192.168.1.254	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7A:4A	192.168.0.44	80	172.16.1.1	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7B:4C	192.168.0.24	80	192.168.1.254	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7A:66	192.168.0.40	80	192.168.1.254	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7B:5E	192.168.0.86	80	192.168.1.254	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7A:76	192.168.0.60	80	192.168.1.254	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7B:57	192.168.0.87	80	192.168.1.254	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7A:52	192.168.0.46	80	192.168.1.254	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7B:4A	192.168.0.92	80	192.168.1.254	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7A:80	192.168.0.54	80	172.16.1.1	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7B:38	192.168.0.83	80	192.168.1.254	255,255,252.0	On
DVR-3021D	DVR	00:00:00:00:00:15	192.168.0.95	80	192.168.1.254	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7B:4B	192.168.0.93	80	192.168.1.254	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7B:3F	192.168.0.90	80	192.168.1.254	255.255.252.0	On
H264_IPCAM	ipcam	00:0C:0C:01:7A:59	192.168.0.57	80	192.168.1.254	255.255.252.0	On
H264 IPCAM	CAM3	00:0C:0C:00:54:E5	192.168.0.148	80	192.168.1.1	255,255,252.0	On

- 4. Do you want to manually set the IP?
  - If you want to manually set the IP of the device, please select the desired device from the Device Type then click the set IP button.
  - ii. The software will provide the "Free IP Address" boxes on the right side of the window.

Internet Protocol(T	CP/IP) Settings	2	K
Device		Free IP Address	
Туре:	IPCAM	192.168.0.1	
Title:	IPCAM		
MAC:	00:0C:0C:00:7C:9A	100	
Internet Protocol	(TCP/IP)		
IP Address:	<u>192</u> .168.1.180		
Subnet Mask:	255 . 255 . 255 . 0		
Login			
Account:	admin		
Password:	****		
		1	
Submit	Exit		

- 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.
- iv. To change any IP address, type in the new address in the "Free IP Address" box on the right as well as the device's login "Account" and "Password" in their respective blanks at bottom left, then click "Submit", and the new address will automatically be sent to the device.
- v. Click "Exit" at bottom right to shut the device.
- 5. Link to the homepage of the selected device:

Select the desired device from the **Device Type** then click the Home Page button to connect to the homepage of the device.

# **APPENDIX 2. – IP Camera UPnP How To**

The most troublesome issue when you setup an IP Camera is that you have no idea what the IP address of this device is. Now IP Camera 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 IP Camera step by step as shown in Figure 1 below.

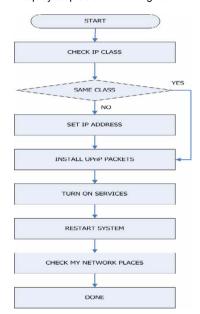
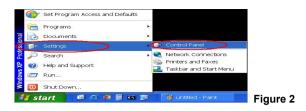


Figure 1 UPnP Setup Flow Chart

## 1. Check the IP class of your PC

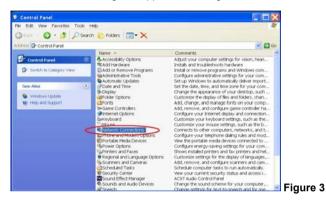
In most case Microsoft Windows XP<sup>w</sup> will assign an IP address, 169.254.\*.\*, automatically with a subnet mask, 255.255.0.0, if the DHCP server is absent, while the default IP address of an IP Camera<sup>w</sup> is 192.168.1.168 with a subnet mask of 255.255.255.0. There won't be any communication 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.



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

ack +	Network Connections le Edit Vew Favorites Tools Advan	ced Main		
Alexa of Lotson Connectors     Alexa of Lotson Connecon     Alexa of Lotson Connectons     Alexa of Lotson Connectons				
eterrorit Eraks     Image: Status       Orasita arew connection     Drog Windows       Prevail areing on the connection     Image: Status       Image: Status of the connection     Image: Status of the connection       Image: Status of the connection     Image: Status of the connection       Image: Status of the connection     Status       Image: Status of the connection     Register       Image: Status of the connection     Status       Image: Status of the connection     Register       Image: Status of the connection	chess Network Connections			- 5300
Orasta a rev connection     Oragin windows     Prevail a string     Oracity a rev connection     Oragin windows     Prevail a string     Oracity     Oracity a string     Oracity     Orac	- N		Туре	and the second se
dvice INV or High-Speed Internet Corrected Parame tha connection Parame tha connection Parame tha connection Parame tha connection Parame tha connection Parame tha connection Parame Connection Parame Para	Create a new connection	Hinet	Broadband	Disconnec
Control Revel     Create Shortout     Delete     Revane     Revane     Revane     Proceeded     Proceeded     Proceeded	device Repair this connection Rename this connection Wew status of this connection	Disable Status Repar	_	Connected
Control Fanel  HytelexxX Fisce  You  HytelexxX	connection	Create Shortcut Delete		
	Control Panel     My Interverk Places     My Decuments     My Computer	Properties		

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

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

Seneral Authentication	Advanced			
Connect using:				
Marvell Yukon Gi	gabit Ethernet 10/100/1	Configur	•	
This connection uses the	following items:			
Client for Microso				
Internet Protocol		rworks		
L				
Install	Uninstall	Propertie	s D	
Description	Uninstall	Propertie	<u> </u>	
Description Transmission Control	Protocol/Internet Proto	col. The default w		
Description Transmission Control area network protoco diverse interconnecte	Protocol/Internet Proto I that provides commun d networks. on area when connecte	col. The default w nication across		
Description Transmission Control area network protoco diverse interconnecte	Protocol/Internet Proto I that provides commun d networks. on area when connecte	col. The default w nication across		
Description Transmission Control area network protoco diverse interconnecte	Protocol/Internet Proto I that provides commun d networks. on area when connecte	col. The default w nication across		

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.

	sutomatically if your network supports this ask your network administrator for the	
) Obtain an IP address automa	tically	
Use the following IP address	>	
address:	192 168 1 200	
ubnet mask:	255 255 255 0	
efault gateway:		
Obtain DNS server address a	autometically	
Use the following DNS server	raddresses:	
referred DNS server.		
Itemate DNS server.		
	Advanced	d

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

	dvanced		
innect using:		1.00	
Marvell Yukon Gige	bit Ethernet 10/100/1	Configure	
is connection uses the fi	allowing items:		
Client for Microsoft	Networks		
File and Printer Sh	aring for Microsoft Netwo	arks	
Internet Protocol (1	CP/IP/		
			_
Install	Uninstall	Properties	
Description			
Transmission Control P	rotocol/Internet Protocol	The default wide	
area network protocol to drverse interconnected	at provides communica	tion across	
diverse interconnected	Deneorks.		
Show icon in notification			
Show icon in notification Notify me when this con	nection has limited or no	connectivity	

#### 2. Install UPnP Packets

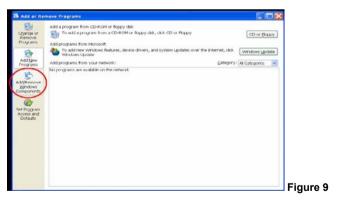
As described before, Microsoft Windows XP<sup>T</sup> doesn't start the UPnP service by default; however, we have to install some packets before we initialize it. The following steps will help you to install them.

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

Figure 8

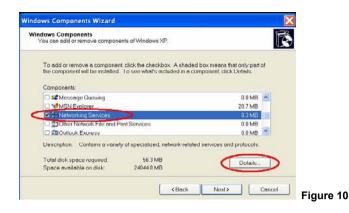


Step 2: When the Add or Remove Programs dialog box appears, click the Add/Remove

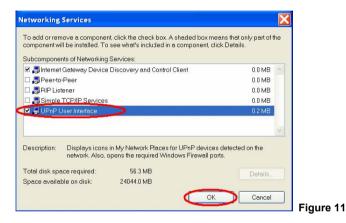


Windows Components button. See Figure 9.

Step 3: Check the Network Services in the Windows Component Wizard dialog box, and then click Details.... See Figure10.



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



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

#### Figure12.

You can add or remove components	ents of Windows XP.		R
	nt click the checkbox. A shaded To see what's included in e co		of
Message Queuing		0.0 MB	
MSN Explorer		20.7 MB	
Retworking Services		0.3 MB	(m)
Cher Network File and F	rint Services	0.0 MB	
C Cutlook Express		0.0 MB	<b>v</b>
Description: Contains a varie	ly of specialized, network-relate	d services and protocols.	
Total disk space required:	56.3 MB	Details	

Figure 12

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

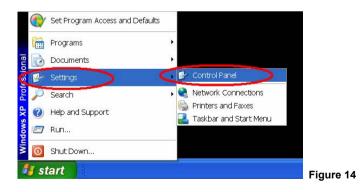
See Figure13.

Windows Components W	fizard	
<b>E</b>	Completing the Windows Components Wizard	
	You have successfully completed the Windows Components Wizard.	
	Tu cluse this wizerd, click Finish.	
	K Boo Finish	Figure 13

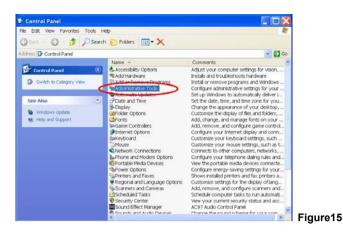
#### 3. Turn on Services

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

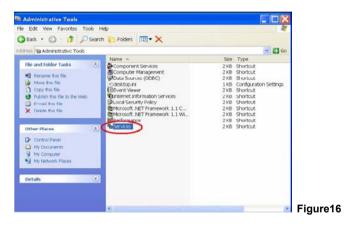
Step 1: From the Start menu, point to Settings, and then click Control Panel. See Figure 14.



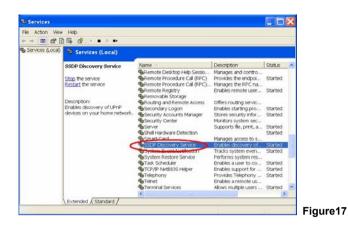
Step 2: When Control Panel appears, double-click the Administrative Tools icon. The Administrative Tools dialog box appears. See Figure 15.



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



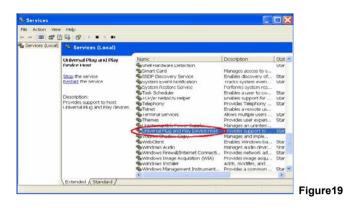
Step 4: When the Services dialog box shows up, double click the SSDP Discovery Service icon. See Figure 17.



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

Log Un	Recovery Dependencies
Service name:	SSERSEV
Display name.	SSEF Eliscovery Service
Description.	Enables discovery of UPnP' devices on your home
Path to executab	lu. ystem32\svcnust.exe =k LucalService
0.111110011010	
Startup type:	Automate
1	Automatic 🗸
1	Automatic
Startup type:	Automatic  Automatic Monual Upsabled

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.

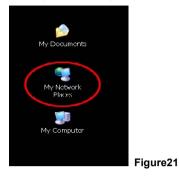
Service name:	upnphost	
Display name:	Universal Plug and Play Device Ho	ost
Description:	Provides support to nost Universal devices.	Pluq and Play
Path to executabl		
	stem32\svchost.exe -k _ocalService	
Startup type.	Automatic	<b>V</b>
<	Automatic Ivianual Disabled	
	Stopped	
Service status:		
Service status: Start	Stop Pause	Resume
Start	Stop Pause ne start parameters that apply when yo	

Step 8: Restart your system.

## 4. Scan IP Cameras<sup>®</sup> through My Network Place

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

Cameras in My Network Place like Figure21 and Figure22 below.





Just double click the **UPnP IP Camera** icon, and the video live stream will pop up automatically without assigning any IP address in Microsoft Internet Explorer<sup>®</sup>.

## **APPENDIX 3. – The ARP function**

#### Setting the IP Address

The Ethernet interface on the IP Camera 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 IP Camera 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 IP Camera (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 superuser (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 admin and 9999.

# 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>Create Account</u>", as shown in Figure 1.

dahani a hata-Dama dataha ca	ools Help				- 🖬 🐼 usta " 🐑
DynDNS				Dyr/DRS.com	+ Dynect + Dyn1LD + Corporate
	🔿 DynD	NS	Users	rec Login	
	Abo	ut Services	Account Support	News	
	TEAM SPOR		technology DNS Sen DNS for state Mailt-top	nd see what we do Aces c and dynamic IP addresses	
	Farws	Dynamic Network Services b	corporated supports 2008 FIRST Com	petition	
	Resources	Services	Support.	About Us	
	What is DNSP	Custom DNS	Update Clents	The Company	
	DNS Tools	Dynamic DNS	24/7 Premier Support	DynDNS Careers	
	Business Services	E-Mail Relay	Developer's Info	Contact Us	

Figure 1

## Create an account

After clicking "<u>Create Account</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



Figure 3

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 service items will appear. The <u>Add Dynamic DNS Host</u> item helps to add a new DDNS. 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 5.



Figure 4

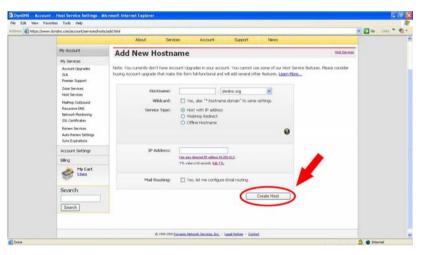


Figure 5

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 camera's IP Address. It will renew the IP Address automatically.

After finishing the setting, please press the "Create Host" button as shown in Figure 5.



Figure 6

## **APPENDIX 5. – 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, NetMask 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 IP Camera?

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 <u>http://192.168.1.168/tailpage.htm</u> ( 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.

#### RMN0100242v1.1

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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com