Installation and Operating Manual

1/3" Network Colour Dome Camera, integr. Web-Server GLD-1401





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1. Safety Instructions

- Read these safety instructions and the operation manual first before you install and commission the camera.
- Keep the manual in a safe place for later reference.
- Protect your camera from contamination with water and humidity to prevent it from permanent damage. Never switch the camera on when it gets wet. Have it checked at an authorized service center in this case.
- Never operate the camera outside of the specifications as this may prevent the camera functioning.
- Do not operate the cameras beyond their specified temperature, humidity or power ratings.
 Operate the camera only at a temperature range of +5°C to +40°C and at a humidity of max. 80%.
- To disconnect the power cord of the unit, pull it out by the plug. Never pull the cord itself.
- Pay attention when laying the connection cable and observe that the cable is not subject to heavy loads, kinks, or damage and no moisture can get in.
- Never point the camera towards the sun with the lens open as this may prevent the sensor functioning.
- · Do not block ventilation openings.
- The fitter is responsible for the system of protection being followed in accordance with the technical data, e.g. by sealing of the cable outlet with silicone.
- Only use rust-proof screws should be used to mount the housing and camera outside.
- · Do not place anything on top of the unit that might spill or fall into it.
- The warranty becomes void if repairs are undertaken by unauthorized persons. Do not open the camera housing.
- Maintenance and repair have to be carried out only by authorized service centers. Before opening the cover disconnect the unit from mains input.
- Only use original parts and original accessories from Videor E. Hartig GmbH.
- Do not use strong or abrasive detergents when cleaning the dome. Use a dry cloth to clean the dome surface. In case the dirt is hard to remove, use a mild detergent and wipe gently.
- NOTE: This is a class A digital device. This digital device can cause harmful interference in a residential area; in this case the user may be required to take appropriate corrective action at his/her own expense.

2. Product Features

2.1 Product Introduction

The GLD-1401 is vandal-proof and yet easily installable on walls and ceilings in indoor location. Its image data can be seen by users via the Internet.

Our dome camera supports many different and specialized functions. Users can with the help of the Internet easily change or modify the settings. This camera is dual-mode and operates MPEG4 or MJPEG video compressions. You can also conveniently adjust the camera's direction angles any way you want by simple manual manipulation.

The Armor Dome is high-impact and specially coated reinforced polycarbonate. The base is die-cast, of ultra-hard grade aluminum with a painted finish.

The camera supports the UPnP protocol which enables a user to easily change settings automatically: just plug the camera to your PC and you'll see a pop-up window containing the IP information.

Additionally, the camera comes with free 16-channnel surveillance software for this IP dome. This software enables you to access and operate more application functions in your PC.

2.2 General Description

- For Indoor Ceiling Surface Mount
- Vandal Resistant
- Clear Bubble, 100mm
- Integrated Lens: F2.0/3.6mm
- MJPEG and MPEG-4 Video Compression
- E-Mail and FTP Transmission of Important Events
- Image Frame Rate: Up to 25 Frames/Sec. (PAL)
- Integrated Activity Detection
- Ethernet Interface: 10/100Base-TX
- Supports Various Network Environments
- Upgrade via FTP, USB Interface and HTTP

3. Description of the Device

3.1 The Surface



1. ETHERNET 10/100 Connector

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

2. Plug Inlet:

A 12VDC inlet that connects to an external power supply.

3. VIDEO OUT Connector:

The connector provides the unit's composite video signals to a monitor.

4. ALARM I/O:

Red: Alarm In Green: Alarm Reset Black: Ground Yellow: Alarm Out

Return to Default:



Inside the camera dome, on one side of the PCB board under the lens, is the **RESET** button. Click it to return to the factory default settings (see picture).

3.2 The USB Function



I. Using the USB port

Before using the USB function, the user has to remove the cover of the dome.

- 1) Loosen the screws holding the camera mount and then
- 2) carefully lift the cover up.

3) The USB port is in the rear of the lens (see the picture).

II. Connecting with a PC

By connecting the IP Camera with a PC via the USB connector, the USB Configuration window will show up automatically on the PC screen as below.

	USB Configurat	lion v1.02	USB Configuration v1.02	
	Title	VideoServer(00:0C:0C:00::14:48)	Title VideoServer(00:0C:0C:00:44:48)	
Г	DHCP	ON T	DHCP OFF	
	IP Address	192 160 1 235	IP Address 192 168 1 235	
	Netmask	255 255 255 0	Netmask: 255 255 0 N	etwork
	Gateway	192 160 1 1	Gateway 192 160 1 1	etting
	DNS Server	192 168 1 11	DNIS Server 192 168 1 11	
╞	HTTP Port	80	HTTP Port 80	
	PPPoE Enable	OFF	PPPoE Enable OFF	PPoF
	Account		Account	ettina
	Password		Password	otang
	Mode Setting	C Intra-structure C Ad-Hot	Mode Setting C Infra-structure C Ad-Hot	
	ESSID		ESSID	
	Channel		Channel	
	WEP Key	C Disable C 64 bt C 128 bt	WEPKey Closeble Click be Click be	
	Default Key	C1 C2 C3 C4	Default Key C 1 C 2 C 3 C 4	
	Key1		Keyl	
	Key2		Key2	
	Коу3	1	КоуЗ	
	Кеу4		Key4	
		underfall annek (d) Europet	(anatol) (anatol) (anatol)	
		CARLES CARLES		
		DHCP ON	DHCP OFF	

- NOTE: You can click the "Launch" button to link to the home page of the device.
- WARNING: After changing the settings, please click the "Apply" button. All of the options will be effective after removing the USB connector.

3.3 Ceiling mounting



When mounting the camera in the plywood ceiling, please follow steps (1) to (3).

- 1. Make 4 entry holes in the plywood ceiling as shown above.
- 2. Install the dome in the ceiling, then attach the supplied "ceiling fix plate" to the camera.
- 3. Fix the dome to the ceiling using the 4 mounting screws.

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 specification of RJ-45 cable for Ethernet

Wire Type	Cat. 5
Connector Type	RJ-45
Max. Cable Length	100m
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.



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 connect with the LAN directly; 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).

NOTE: If the LAN has no DHCP server, the camera's IP address will be assigned of the default 192.168.1.168 after 3 minutes or the unit will request it's last assigned IP address after 3 minutes.

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, SUBNET MASK and GATEWAY. The following is a sample setting.

IP: 192.168.1.X MASK: 255.255.0 GATEWAY: 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 are a range of IP camera IP addresses from 192.168.1.1 to 192.168.1.255. You can pick one for use from the range of the IP. It's not necessary to set MASK and GATEWAY; leave the settings as default.

When a IP camera is connected to a WAN, you must acquire a unique, permanent IP address and correctly configure the MASK and GATEWAY settings according to your network architecture. If you have any questions regarding those settings, please contact 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 LANCAMERA IP address must be the same as the network address. If the connected network is identified as Class B, the first two sets of numbers of the IP camera IP address must be the same as the network address. If you have any questions regarding these settings, please contact a qualified MIS professional or your ISP.

4.3 TCP/IP Communication Software

Follow the instructions below to install the TCP/IP communication program into 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 5.5. If it is not included, please follow section 5.4 to install the TCP/IP.

Network
Configuration Identification Access Control
I he following network components are installed:
Client for Microsoft Networks
NE 2000 Compatible
NetBELI
ТСРИР
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.
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 Start -> Settings -> Control Panel -> Network

Select TCP/IP, and then click Properties.

Before processing the IP camera installation in a WAN, please make sure the Internet connection works properly. If not, please contact your ISP provider.

Network	? ×	TCP/IP Properties		
Vetwork Configuration Identification Access Control The following getwork components are installed: Client for Microsoft Networks NE2000 Compatible File/PX-Compatible Protocol Client for Microsoft Networks Add Remove Primary Network Logon: Client for Microsoft Networks Elle and Print Sharing Description TCP/IPIs the protocol you use to connect to the Inter wide-area networks.	erties	ICP/IP Properties Bindings DNS Configuration An IP address can If your network don your network admi the space below. © Datain an IP © Specify an IF IP Address: Sybnet Mas	Advanced Gateway WINS Con be automatically assign as not automatically assign istrator for an address, of address automatically address: 192.168.1 k: 255.255.255	NetBIDS figuration IP Add ed to this computer gn IP addresses, a and then type it in . 2 . 2 5. 0

If you are using a DHCP server, please select **Obtain an IP address automatically**. 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 **Specify an IP address** and type in the IP address of your PC. This IP address must be different from other network IP devices but in the same class type.

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

4.6 Connection Testing

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

Click Start -> Programs -> MS-DOS Prompt



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

• This IP is the IP camera IP address that is assigned for the connected IP camera in step 2.



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 installation by repeating steps 1 to 5. If you still can't establish the connection after re-checking, please contact your dealer.

1 M 500 B A	MICH
Microsoft(R) Windows 93 (C)Copyright Microsoft Carp 1981-1999. C:\WINDOWE:ping 192.188.1.188 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 192.160.1.160: Packets: Sent = 4, Received = 0, Lost = 4 (100% loss), Approxinate round trip times in milli-seconds: Minimum = Ons, Haxinum = Ons, Average = Ons	
C:\WINDOW5>_	
1994 - 1945 (A) 182	

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



5. Operating Instructions for Image Software and Network

Two choices of software are available for linking up 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.

System Requirements

- · Compatible with operating systems such as Windows 2000 and Windows XP.
- Internet Explorer 5.x or higher.
- Non-network modem installation needs Windows PC.

RJ-45 PIN configuration for Ethernet

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

RJ-45 socket



Physical specification for Ethernet

Wire Type	Cat. 5
Connector Type	RJ-45
Max. Cable Length	100m
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

- 1. 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 four icons, "Image", "Network", "System" and "Application". 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 and as necessary.
- NOTE: Once authorized successfully, it will not appear again until you close the window and reconnect it.
- NOTE: The initial sequence of proceeding is to type in your IP address and click the "Enter" button to access the home page. If and when you revise or change data in the "SYSTEM USERS" page, the sequence will alter to initially show the "Enter Network Password" page.



Browsing images from the IP camera

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



Homepage of MJPEG mode

Homepage of MPEG4 mode

- · Click the Image button to enter the image-setting page.
- Click the Network button to enter the network-setting page.
- · Click the System button to enter the system-setting page.
- Click the Application button to enter the application-setting page.
- Click the 11/10/2005 14:31:37 button to change the time/date display mode.

The AVI file will be saved in the path of c:\.

 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 and as necessary.

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



Image setting page of MJPEG mode

Image setting page of MPEG4 mode

- Adjust the image setting including "Device Title", "Resolution", "Quality", "Frame rate" (MPEG4 mode only), "Format", and "Viewer Type" (MJPEG mode only) if necessary.
- 3. Click the Submit button to submit the new image setting.
- 4. 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", "Hue" and "Saturation". Click the **Default** button to reset all the settings.

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



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



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

Exchange the image format

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

Description of function keys

MPEG4 mode

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

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

Quality: Scroll to choose the image quality out of a spectrum of qualities ranging from "highest", "high", "medium" and "low" to "lowest". In MPEG4 mode, you can also set the quality by typing in the value. The custom quality value must be in the range between 64 Kbps to 8192 Kbps.

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

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

Fine Tune mode

Brightness: Enter your desired quality of image brightness from a spectrum of 0 to 255. **Saturation:** Type in the saturation level in the blank (0 to 255).

MJPEG mode

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

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

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

5.1.3 Change the Network Setting

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

· Set the network options and IP address

1. Click the **network** button in the home page to enter the Network page.

	1	Network	
Network FTP SMTP SMTP DDNS PPPoE UPvP DP Filter Traffic	Prada DH3* PAdress: Netmask: Defoult Gateway: Primary Nameserver: HITP Port:	192 . 160 . 0 . 160 255 . 255 . 252 . 0 192 . 160 . 1 . 254 192 . 160 . 1 . 11 50 Submit	
			(Be)

- 2. Click "Enable DHCP" to checkmark the attached box and activate the function.
- 3. The accessible networks here are the "SNTP", "DDNS", "PPPoE", "UPnP", "IP Filter" and the "Traffic".
- 4. Fill in the "IP Address", "Netmask", "Default Gateway", "Primary Nameserver", and "HTTP Port" if necessary.
- 5. Click the **Submit** button to submit the new network setting.
- 6. Click the **Home** button to return to the home page.

Description of function keys

- **IP Address:** Enter the 4Byte 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 4Byte 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 4Byte Gateway in the relevant blank spaces (each unit value must be between 0 and 255).
- Primary Nameserver: Enter the 4Byte 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.

• Change the Network Setting - FTP

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

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

		FTP Server Setting		
Network	FTP Server:	192.168.1.1	Port: 21	
FTP	User Name:	guest		
SMIP	Password:			
SNIP	File Ubload Pat	h: /tmp		
DDNS				
1000		Submit]	
IP Filter				
Traffic				
		FIP Application 5 FIP Schedule FIP Record FIP Alarm FIP Server Login	ietting	

- 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 spaces.

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 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 doing the FTP.

Submit: Click to submit the new FTP setting to the network 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.

		SMTP Se	erver Setting		
Network	My Se	rver Requires	Authentication		
FTP	Account N	lame:			
SMTP	Password				
SNIP	Sender		[
DDVS	CLITE Com		103 100 1 1		
UPpP	SPILE Set	er.	192.168.1.1		
IP Filter	Email Addi	ess:	quest@localhost		
Traffic			Submit		
			SMTP Application S	etting	
			SMIP Alarm		
					-
					θU
		Kaburak	Ouclean	Ann Fration	

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

Description of function keys

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

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

Email Address: The recipient's e-mail address

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

• 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.

	SNI	P Server Setting		
Network FTP	SINTP Server: Time Zone:	192.168.1.6 GMT+08 Taipei,Hong H	Kong,Beijing 💟	
SMTP SNTP DDNS		Automatically Adju Time Changes.	ist for Daylight Saving	
PPPOE UPnP IP Filter				
Traffic		SNTP Date and Time		

- 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 SMTP 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 and as necessary.

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

	D	DNS Setting	
Network FTP SMTP SMTP DDNS PPPNE UPrP IP filter Traffic	DNS Type DNS Hot Name: DNS Hot Name: DNS Account: DNNS Pateword:	vcton: DynOvS ¥ Abody	

- 2. Click the "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 5.1.6 (PPPoE & DDNS) for more details.

Description of function keys

Enable DDNS Function: Checkmark to activate the function

DDSN 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).

• Change the Network Setting - PPPoE

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.

		DDDoE Setting		
		-FFOE Detting		
Network	PPPoE is inact	ive.		
FIP				
SNIP	PPPoE Mode:	OFF ビ		
DDNS	Account:			
PPPoE	Password:			
UPnP		(and the second		
IP Filter		Submit		
trame				
		All PPPoE setting takes e	effect after rebooti	ngt

- 2. Click the "PPPoE mode" to activate the function.
- 3. Type in the PPPoE "Account" and the PPPoE "Password".
- 4. Click the Submit button to submit the new setting.
- 5. Click the **Home** button to return to the home page.

NOTE: Please refer to section 5.1.6 (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.

			1100 600 Con
	Univers	sal Plug and Play	
Network FTP SMTP SNIP DDVS PPPoE	Envible UPnP Max Expired Age: SSDP Port: UPnP Port:	120 Seconds (10 ~ 3606) 1990 Default: 1900 5670	
UPriP IP filter Traffic		Szlanit	
			œυ

- 2. Click "Enable UPnP" to checkmark the attached box and activate the function.
- 3. Type in the UPnP "Max Expired Age", the "SSDP Port" and the "UPnP Port".
- 4. Click the Submit button to submit the new setting.
- 5. 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.

		IP	Filter		
Network FTP SMTP	Defa Polic	inable IP Filter Jit Policy: y List:	() Allow (DiDeny	
SNIP DDNS PPPOE UPnP				Up Delete	
IP Filter Traffic				Down	
	Add,	/Modify Policy			
	Den	to Set IP Filter?	0.0	. 0	

- 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 Network Traffic 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 dominical (upboad bandhridth per each rawly) coded networks. SPIIP or heavily (odded networks. SPIIP 0 VOPS Bandwidth Maximum Doarload 0 SPIEVE Bandwidth. Deliter Bandwidth. Individth Edunit		Nichwor	d Traffic	
Network FP Specify the maximum dornwload/upload bandwidth per each socket is a useful function when connecting your device to busy or heavily loaded networks. SND or heavily loaded networks. DDNS Molecular Device to busy or heavily loaded networks. DNS Molecular Device to busy (0 ~ 102400) Device to busy fractic Extended to busy Device to busy or heavily loaded networks.		Netwo	K franc	
DDNs Movimum Uploed 0 Klo Bytes Per Second PPVe Bandwith: (0 ~ 102400) Upper Second Using Prifile Bandwith: (0 ~ 102400) Upper Second Trainic Submit Submit	Network FTP SMTP SNTP	Specify the maximum d socket is a useful functi or heavily loaded netwo	lonwload/upload bandwidth per each ion when connecting your device to busy orks.	,
Using Maximum Download <u>0</u> kito Systes Per Second IP Filter (0 ~ 102400) Trainic Submit * The value '0' means it will not monitor any traffic.	DDNS PPPoE	Maximum Upload Bandwidth:	Kilo Bytes Per Second (0 ~ 102400)	
Traffic Submit	UPnP IP Filter	Maximum Download Bandwidth:	0 Kilo Bytes Per Second (0 ~ 102400)	
* The value '0' means it will not monitor any traffic.	Traffic		Submit	
(A)		* The value '0' means it	t will not monitor any traffic.	

- 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. Submit: Click to set.

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.

· Set the Date and Time of the system

1. Click the System button in the home page to enter the "Date and Time" page (default).

		Date a	nd Time			
		Date a	ita filitite			
Date and Time	The Local Tir	ne				
Timestamp	Date: 200	7/11/30	Time: 10:12:52			
Users	The Desired	Time				
Digital I/O	O Set Manual	hy .				
Update	Date: 200	7 ~ / 11	/ 30 < (YYYY,MM	(DD)		
Events	Time: 10		: 52 🕜 (HH3MM:SS)			
	OSynchronia	e with Comp	outer Time			
	Date: 200	7/11/30	Time: 10:19:19			
	OSynchronia	e with SNTP	Server			
	SNIP Server: 192.168.1.6					
	Time Zone	: Josi Rolikoa	Characterize Hermoni	Hone Kona Barth		
	Singapore	arber, certaing	, chongquing, oraniq	Hong Kong, Perch,		
	Manual	O Frequer	icy Every never			
	Time Format:	YYYY/MM/C	DD 📉			
			Submit			
			(and the)			

- 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 setting.
- 4. Click the **Home** button to return to the home page.

Description of function keys

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

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

Synchronize With Computer Time: Synchronizes with the linking computer.

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

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

• Change the System Setting - Timestamp

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 "System-Timestamp" page.

				(J	eme .	ن ومد ا رادا:
		Tim	estamp			
Date and Time Trinst Jung Users Ugetal Update Events	☑ Enack Timestam Timestam	t Timestamp o Color: 5 Locaton: 5 Format:	HLALX V UPPER LEFT YY/NPY/DD V Gubmit	۷		A 1

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

Description of function keys

Enable Timestamp: Checkmark to activate the function.

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

· Change the System Setting - Users

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

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

Date and Time Timestamp Users Digital I/O	User List: admin:Admin ipcam:Admin	Delete User
Update Events	Add/Modify User	
	Password: Confirm: Authority:	Admin O Operator O Mewer

- 2. Add, modify or delete any user's data if and as necessary.
- 3. Click the Submit button to submit the new user's setting.
- 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 the user selected.

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

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

Confirm: Type in the password again for verification.

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

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

• Change the System Setting - Digital I/O

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

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

Date and Tim Timestamp Users Digital I/O Update Events	Digital In Digital Co	put : utput :	● 0N O 07= ● 0N O 07= <u>5</u>	Active Type: [Active Type: [ubmit	LOW ¥	
						 0

- 2. Mark the "Digital Input" "ON" or "OFF" and the "Digital Output" "ON" or "OFF". Click your choices to enable.
- 3. Click the **Submit** button to submit the new user's setting.
- 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 - Update Firmware

Please follow the steps below to update the firmware 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.

			0.000		
		Universal P	lug and Play		
Network	🗹 Enab	le UPnP			
SMIP	Max Exp	red Age: 1	80 Seconds (10 ~ 3600)	
SNIP	SSDP Po	rt: 1	Default: 1	900	
DDNS	UPhP Por	rt: Si	578		
PPPoE	_				
UPnP TD Filler			Submit		
Traffic					
					A 4.
					ωO

- 2. Click the "Browse..." button to select the UPDATE.BIN file which was copied into your computer.
- 3. Click the "Update" button.
- 4. DO NOT power off the Network camera while this update process is running.
- NOTE: Don't interrupt the process while the unit is updating itself.
- NOTE: Please make sure that the UPDATE.BIN file is fit in with the model of the unit. Updating with the wrong UPDATE.BIN file may cause any physical damage to the device.
- 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:
- 5. Quit Internet Explorer and quit any instances of Windows Explorer.
- 6. Click Start, click Control Panel, and then double-click Internet Options.
- 7. On the General tab, click Delete Files under Temporary Internet Files.
- 8. In the Delete Files dialog box, click to select the Delete all offline content check box, and then click OK.
- 9. Click OK.

• View the Event Logs

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		
Date and Time	Item I	Date and Time	Events		
Timestan	1. 200	7-11-30 10:14:18	admin LOGIN OK FROM 1	92.168.0.136	
miescamp	2. 200	7-11-30 09:58:12	admin LOGIN OK FROM 1	92.168.0.136	
Users	3. 200	7-11-30 09:38:54	admin LOGIN OK FROM 1	92.168.0.136	
Digital 1/O	4. 200	7-11-30 09:31:77	GET DHCP 192.168.0.12	5 FROM 197.168.1.11	
Indate	5. 200	7-11-30 09:31:22	LOCAL IP ADDRESS IS 19	2.168.0.125	
tipeare.	6. 200	7-11-30 09:31:18	SYSTEM ETHERNET RE-CO	ONNECT	
Events	7. 200	7-11-30 09:31:18	LOAD 181 FILE(S) TO FL	ASH FILE SYSTEM	
	8. 200	7-11-30 09:31:18	IMAGE MODE IS MPEG4		
	9. 200	7-11-30 09:31:18	SYSTEM BOOTING		
	10. 200	7-11-29 11:40:22	admin LOGIN OK FROM 1	92.168.0.48	
	11. 200	7-11-29 11:40:21	GET DHCP 192.168.0.12	5 FROM 192.168.1.11	
	12. 200	7-11-29 11:40:21	LOCAL IP ADDRESS IS 19	2.168.0.125	
	13. 200	7-11-29 11:40:16	SYSTEM ETHERNET RE-CO	ONNECT	
	14. 200	7-11-29 11:40:16	LOAD 181 FILE(S) TO FL	ASH FILE SYSTEM	
	15. 200	7-11-29 11:40:16	IMAGE MODE IS MPEG4		
	16. 200	7-11-29 11:40:16	SYSTEM BOOTING		
	17. 200	7-11-29 11:40:05	admin FROM 192.168.0.	18 SET IMAGE MODE TO MPE	.G4
	18. 200	7-11-29 11:39:37	admin LOGIN OK FROM 1	92.168.0.48	
	19. 200	7-11-29 11:39:35	GET DHCP 192.168.0.12	5 FROM 192.168.1.11	
	20. 200	7-11-29 11:39:35	LOCAL IP ADDRESS IS 19	2.168.0.125	
		First Pa	ge Previous 20	Next 20	(Se)

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.

• Change the Application Setting - FTP Application Setting (MJPEG mode only)

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

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

	FTP App	ication Setting	
Setting FIP SMIP Language Record Enable Record Schedula	FTP Networking FTP Server: User Name: File Upload Path:	192.163.1.1 Port:21 guest /tmp	
Alarm Enable Alarm Motion Detection	Storage Setting Pre-Alarm Memory Buffer Alarm Memory Buffer: Upload Rate:	0 Image(5) 0 Image(5) 25F/15 Calent	

- For the storage setting, type in the required number of images you wish to set in the "Pre- Alarm Memory Buffer" and the "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 setting.
- 5. Click the Home button to return to the home page.

Description of function keys

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

Alarm Memory Buffer: Determines the selected length of the image buffer after an alarm. Upload Rates: Sets the upload speed rate.

• Change the Application Setting - 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.

			- Homa	פר לונינו
	SMTP A	pplication Setting		
Setting FTP	SMTP Networking	103.169.1.1		
© SMTP Language	Email Address:	guest@localhost		
Record Enable Record Schedule Alarm Enable Alarm Motion Detection	Storage Setting Attatched Fie Numbers:	1 Submit		
				e
	12.255			

- 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.

			100000	line for
	1	anguage Setting		
Setting FIP SMIP Canguage Record	Language:	English(English) Submit	M	
Enable Record Schedule				
Alarm Enable Alarm				
motion Detection				
				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.

			emeti	الوح والعلا
	Record Applicati	on Enable Setting		
Setting	Enable Record - Upload	d Via FTP		
FIP				
SMIP		Submit		
Language				
Record				
Enable Record				
Schedule				
Alarm				
Enable Alarm				
Motion Detection				
				€υ

- 2. Click "Enable Record UPLOAD Via FTP" to checkmark the attached box and activate the function
- 3. Click the Submit button to submit the new setting of the recording.
- 4. 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.

• Change the Application Setting -Record - Schedule

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



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

Description of function keys

Schedule: Check / uncheck the first seven boxes in a vertical row on the left to enable/disable the programmed scheduled recording function if necessary. Vary any of the schedules of the recording setting if necessary (please refer to the above description).

Chart: Schedule list

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

Remove All Schedules: Click to clear out all the data of the schedule setting.

• Change the Application Setting - Alarm Application Enable Setting

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

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

	Alarm Appli	cation Enable Sett	ina	
Setting FIP SNIP Language Record Schedule Alarm Mullan Detection	Enable Karm - Ti Enable Karm - Q Enable Karm - Q Enable Karm - Q Alarm Duration: 30	gger an Narm When Ett Joad Va FIP Koud Va GerIP seconds ⊯ Submit	remet is Lost	
				a.

- 2. Click "Enable Alarm Trigger an Alarm When Ethernet Is Lost" to checkmark the attached box and activate the function.
- 3. Click "Enable ALARM Upload via FTP" to checkmark the attached box and activate the function.
- 4. Click "Enable ALARM Upload Via SMTP" to checkmark the attached box and activate the function
- 5. Enter the "Alarm Duration" you have chosen.
- 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

- 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 Upload via SMTP: Activates or deactivates the alalrm recording upload to the SMTP.

Alarm Duration: Predetermines the length of the alarm.

• Change the Application Setting - Alarm - Motion Detection

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.

		Motion	Detection				
Setting FTP		444	X				
Language							
Record			C)	er ell			
Enable Record			Re	ripoe			
Schedule		N N N	20	ve setting			
Alarm			and the state	-	in the		
Motion Detection	an			and the second			
	Moto	Click the right Save the	mouse button to setting after you	show the po finish editin	ipinenu. 9-		
	14000		htadium int				
	Sensi	tivity : O	112 (Oustom	ized Thresho	(d)	e	0
	Image	Matsuroak	Submit	andra	tion		_

Click and drag the mouse 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.

- 3. Enables / disables the motion detection function.
- 5. Set up the signal level.
- 6. Click the Submit button to submit the new setting of the recording.
- 7. Click the **Home** button to return to the home page.

Description of function keys

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

Detection Range: The red rectangle's coordinates

Save: Click to save the motion detection range.

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

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

5.1.6 PPPoE & DDNS

Using the PPPoE

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

Desktop -> Move the mouse focus to the Network neighborhood and click the right key of the mouse -> Choose the properties -> Choose your local connection -> Choose the properties and select the configuration -> Select the TCP / IP -> Choose the properties -> 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) -> Click the mask and the mask input, namely "255. 255. 255. 255. 0" (a fixed formula) -> Click "OK".

5. Desktop -> Choose IE browser -> Type in the IP camera IP address in the URL (check step 2 above) -> Enter -> IP camera images will appear.

PPPoE Settings

- 1. 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.
- 3. Plug in the IP camera and it will receive an IP address from the ISP dealer (this IP address is dynamic every time you unplug and plug in again you'll get a new IP address).

Test: Go to the Internet.

- 1. Set your PC to enter the Internet.
- Desktop -> IE browser -> Type in the IP Camera IP address (the same address as in the PPPoE settings and step 3 above) -> You can see the IP 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.
- 3. 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 eneo GL-Manager

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

System Requirements

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

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

5.2.1 Introduction to eneo GL-Manager

The eneo GL-Manager allows you to access many units of the IP camera from a remote desktop or a laptop in a TCP/IP networking environment. It can perform the following functions.

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

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

5.2.2 Install the eneo GL-Manager in your PC

Install the eneo GL-Manager from the supported CD-R

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

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

🐞 eneo GL-Manager vi 9 Setup	×
For the following components:	
.NET Framework 2.0	
Please read the following license agreement. Press the page down key to see the of the agreement.	rest
MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS MICROSOFT NET FRAMEWORK 2.0 MICROSOFT VINDOWS INSTALLER 2.0 MICROSOFT VINDOWS INSTALLER 2.0 MICROSOFT VINDOWS INSTALLER 3.1 MICrosoft Corporation for based on where you like, one of its affiliated license this applement or you. If you are licensed to use Microsoft Windows operating systems software film "software" you may use this tapplement, "to may not use it you do not have a license for the software. You may use a copy of this supplement with each widit journed use this continue. The following license terms describe additional use terms for this supplement."	8 TO 10
View EULA for printing Do you accept the terms of the pending License Agreement? If you choose Don't Accept, install will close. To install you must accept this agreement.	

 After the installation is complete, pop up the START menu from your computer, and point to Programs / eneo GL-Manager / eneo GL-Manager to open up the program selection page as shown below. Click the eneo GL-Manager tag to start the eneo GL-Manager program.

Install the eneo GL-Manager for the ZIP file

- 1. Save the ZIP file to your PC and extract the file to a designated directory.
- 2. Open the extracted folder. The folder contains 1 file.
- 3. Click on the installation and then follow the on-screen instructions to proceed with the rest of the installation procedure.
- After the installation is complete, click the START menu from your computer, and point to Programs / eneo GL-Manager to start the eneo GL-Manager 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 5.5 (TCP/IP configuration setting).

5.2.3 IP camera software

Login the IP camera software

Once the eneo GL-Manager is executed, a Login prompter will appear. You must enter the default User Name: **admin**, and the password: **9999** in the respective spaces. Click the **"OK**" button and enter the console page of the eneo GL-Manager: both the user name and password must be entered correctly. Click the **"Cancel"** button and exit the login of the Network Viewer.

ire 🚺
Cancel

View the Network camera video from a remote PC

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



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

😈 Connect Network Camera Wizard	X
Add a new camera	
Group Name : Group	
Please assign specific IP address and HTTP port. Address :	1
Port: 80	_
Auto-Search Next >> Cancel	

4. (1) Click the Auto-Search button at the bottom of the "Connect Network Camera Wizard" page to discover the connection of the network camera - type device in the LAN. Instantly the "Search Network Camera " page will appear.

Click the device of your choice and click **"Select"** at the bottom of the page to access the "Connect Network Camera Wizard" page again.

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

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

💕 Connect Netwo	k Camera Wizard			×
Please enter dev (The account ca Pa	ce's administrator ed 'admin'.) ssword :	Password.		
<	Back Nex	t >>	Cancel	

6. This page provides the IP Address, the device type, and the MAC Address. After typing the Device Title and selecting the Connect Mode, please click the "Next" button to access the next "Connect Network Camera Wizard" page.

P Address :	192.168.1.	223			
Device Type			-		
IPCAM			2	-	
MAC Addre	ee (S/N)			a sector	
00-00-00-00	1.75.9F		1000		
Please ente	r a site nar	me of chan	nel and con	nect mode w	hich c
be used in t	he software	e applicatio	n.		
		Motwork	Cam D1		
	Site name :	Network			
	Site name :	Network			

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

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

👹 Connect Network Camera Wize	and	X
Recording Quota Setting Free Recording Quota: Use Recording Quota:	90 % (4711 Mb) 10 🗘 % (523 Mb)	
Start to record after added t Record Mode Continuous Mode	his network camera.	
O Event Mode	Sensor Alarm	
<< Back	Finish Cancel	_

8. Click the device title to begin viewing images with this camera from the Device List.

NOTE: To add more connections or units to the network camera, please repeat the above instructions.

5.2.4 Operation

5.2.4.1 Live Monitor

Once the connection has been established, click the button to enter the Live Monitor window. (See the sample screen below.) On the left side of the window is the connected device that has been arranged when you established the connection.



1. The Live Monitor icon:

• Add a camera video onto the Live Monitor area:

- (1) Click on the title of the camera that was connected.
- (2) Hold down the right mouse button and drag onto the droppable Live Monitor area. The video from the new camera will be displayed.
- (3) In the Live Monitor area, if you want to exchange the videos of different cameras, you can drag the video and drop it where you want to locate the video.
- 2. The Split-Screen display function bar: This allows you to display the connected device in the single channel and multi-format screens.
- The Sequence configuring button: Press to enter the sequential jumping mode, each multi-screen, and one sequence; the picture will sequentially switch to different channels according to the Sequence Views setting (refer to 6.2.4.3).
- NOTE: One can't use the common icon (#11) in the Sequence displaying mode or drag the video and drop it as s/he likes. For the further settings of each channel, please select the device title on the left side and click the right mouse key to operate.
- 4. The Circle configuring button: Click this button to see the following channels.
- 5. The Group Circle button: Click this button to change the different group of display.
- The Full Screen button: Click this button to show the full screen for surveillance. If you want to return to the previous mode, please click the Normal Screen button.

- 7. Pop-menu: You can use the mouse to move to each channel. Click the right key of the mouse to show a window. You can select "Delete", "Capture / Print", "Play/Stop Audio" or "Reexamine Audio Mechanism".
- 8. Motion on/ Alarm on: The warning icons

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

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

- 9. Click this button to hide the "devices list", "common" and "alarm message list" boxes from view behind the video display screen.
- 10. The section in the upper left margin will show the information in all the devices and its group names.

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

11. Common icons:



Play Audio: No function

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

Capture / Print: Provides the image capturing and printing functions

Delete: Drop the view here to delete it.

- Delete a camera video from the Live Monitor area:
- (1) Select the video of the camera which you want to delete.
- (2) Press and hold the left mouse button. Then drag it to the trash can 🔟 and release the mouse button.
- 12. Alarm list / PTZ Control: Shows the alarm types, the device names and the occurrence time. You can press the **PTZ** button to change to the PTZ Control mode.

5.2.4.2 Playback Viewer

Press the **press** button to enter the Playback Viewer setting page.



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

🞄 Recording List 🔹 🚮 🗊 👘	Live	Event Msg 🝷	() ()			
🗉 🥡 Recording List	Type	Cam	Local DateTime	^		
NetworkCam_11 - 192.168.0.116	A M	NetworkC	10:59:16 03/15/2007		Г	
- A 12/25/2006 17:59:23		NetworkC	10:59:12 03/15/2007			
6 03/14/2007 17:25:57		NetworkC	10:59:08 03/15/2007			The alarm
03/14/2007 17:26:58	A M	NetworkC	10:59:03 03/15/2007	_		events which
B- C Segnent 0(5.80 MB)	A M	NetworkC	10:58:43 03/15/2007		←	were recorded
 01.01.02000 06:38:59 WetworkCam_24 - 192.168.0.184 	A M	NetworkC	10.58.22 03/15/2007			will be marked
B→ 2 Segment 0(9.57 MB)	A M	NetworkC	10:58:16 03/15/2007	4		in pink colour.
□ ₩ NetworkCam_26 - 192.168.0.62	ам.	NetworkC	10:57:59 03/15/2007			
Segment 0(4.25 MB)	M (Second	NetworkC	10:57:50 03/15/2007		-	
🖃 🇰 NetworkCam_25 - 192.168.0.248		NetworkC	10:57:30 03/15/2007			
Segment 0(3.37 MB) 3/14/2007 17:23:18	≪ <	NetworkC	10:57:18 03/15/2007	~		

Recording List





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

Channel Ne	tworkCam_25	- 192.168.0	.248	Segment A	Il Segments 🕑	Search
larm List					NetworkCam_25 - 19	92.168.0.248
Page Setup	Prin	t Preview	Print		🗰 GoTo	Close
NO	Alarm		Begin	End	Duration	Total Frames
2	Mation Mation	03/15/20	17 10:42:28 17 10:42:28	03/15/2007 10:42:28 03/15/2007 10:42:30	0 secs 2 secs	2 57

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



🖳 Capture / Fruit - Jinage Stre(720 x 480)	
Pref Geling: Pref Geling: Include Date and Time Include Channel Title Dimension: 17:0:4481-Nerma • place Page Setup	Preview Option Zeern Auto Zoom Part Cancer

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

File Path:	C/ISDBUpegiNetwo	arkCam_11		Ø
Include:	Date and Time	Title	Alarm	

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

File Path:	C.VSDB/Av	WetworkCam_11\20070319-105143
Frame Per Second:	20 😋	🗹 Include Audio

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



5.2.4.3 Setting



Press the **button** to enter the Setting page.

- 1. The Setting page
- 2. Function buttons:

Add a new device group. Click this button and type in the new group, then press "OK" to save it.

Remove a device group. Click this button and select the group name, then press "OK" to delete the group.

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

Remove a camera. Click this button and select the group name and Lan camera, then "OK" to delete the device.





1. Device Setting page

Device Se	dling				Device Setting		
Device	🌦 Image	🍓 Alarm			M Device	age 🛷 Alarm	
Camera Id	lentify MAC:	00.00.00.01:59	1C Device Type:	PCAM_X	Video Resource Resolution	720*576/Fieldb	
	Title:	ipcam		100 A	Quality	120 510(16)4)	
1	Password:	****	'admin' password			Brightness: (
	Confirm:	****			Brightness:	C	
16	P Address:	192,168.0,16			HUE.	<	2
2	HTTP Port	80			Saturation:	٢.	1) (2)
Date & Tin	110				Sharpness.	<u>c</u>	2
Devic New I	e Date & Tin Device Date	ne: (& Time:	1/11/2000 00:48:53		O ON	OFF	
No Sy	ot Change. mchronize wi	th computer lin	ie.		Fluorescent O ON	• OFF	
Da	ate: 2000%	1月11日	- Time	上午 12:48:51 0			-
Audio Mec	chanism Audio Mechr Audio Voli	iism: O ON ume: 5	⊙ OFF (from € ~ 11)		Image Def	ault Value	
			Apply	Exit			A

2. Image Setting page

X

(128) (0) (128)

3. Alarm Setting page



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

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

(1) Global Settings

A restrict security			Default Directory
Date Format:	MM/DD/YYYY	~	Default Snapshot Directory
			C:\ISDB\Snapshort
Time Format:	24-hour format	~	Default Export Avi Directory
Display Mode:	O Proportion	 Streth 	C:\ISDB\Avi
			Default Export Jpeg Directory
Display Recording State:	 Yes 	○ No	C:\ISDB\Jpeg
Full Screen Display:	Title	🔲 Date & Time	
Control COLLUSION	and 5 (200) 0	may 1	LAN Settings
Curiator CPO uses	Devel 2 (70%%0		

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

(2) Event Notification

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

Ø Channel Frompt	Choo	se whether to allo	w a channel pro	mpt that a specify de	wice has trigger	ed a event.	
Popup Message		Nama	IP Address	Group Name	Motion Buzzer	Sensor Buzzer	Alarm Focus
1	+	NetworkCam_11	192.168.0.116	Group1_Natwork	M	Z	
E-mail Notice		NetworkCam_14	192.158.0.245	Group1_Network	2	2	V
		NotworkCam_24	192.168.0.184	Group1_Notwork			2
		NetworkCam_26	192.168.0.62	Group1_Network	2	V	2
		NetworkCam_25	192.158.0.248	Group1_Network		2	1
		NetworkCam25	192.158.0.20	Group1_Network	2		
		Server 31	192.158.0.175	Group_Video Server	2		
		Server02	192.158.0.175	Group_Video Server	2		1

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

Channel Prompt	Choose settings about live	Choose settings about live event popup message.						
Popup Message	The maximum number of popup messages to deplay smultaneously : 5							
E-mail Notco	The default period of time, a	10 second	• •					
	Select events that generate a	POPUP notification. Please st	slact the approp	risto box.				
		Motion Alarm	Sensor	Alarm	Disk Full			
	Minimum Window	Popup	Po	pup	Popup			
	Playback Viewer	Popup	Popup		Popup			
	Settings Form	Popup	Popup					

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

Channel Prompt	E-mail N	otce aina Server Settir	KB5						
Popup Message		Outgo	ng Mail Server (SMTP	g : [Authentic	Authentication		
E-mail Notice			Email Address	s :		Test Se	ettings		
	Enabl	e Event Send Via	Email						
	Enabl	e Event Send Via	Email IP Address	Group Name	Motion Alarm	Sensor Alarm	Disk Ful		
	Enabl	Name NetworkCam_11	Email 19 Address 192.156.0.116	Group Name Group 1_Network	Motion Alarm	Sensor Alarm	Disk Ful		
	Enabl	e Event Send Via Name NetworkCam_11 NetworkCam_14 NetworkCam_24	Email 19 Address 192.156.0.116 192.150.0.245 192.150.0.245	Group Name Group I. Network Group 1_Network	Motion Alarm	Sensor Alarm	Disk Ful		
	Enabl	e Event Send Via Name NetworkCam_11 NetworkCam_14 NetworkCam_24	Email IP Address 192.156.0.116 192.156.0.245 192.156.0.194 192.156.0.72	Group Name Group1_Network Group1_Network Group1_Network	Motion Alarm	Sensor Alarm	Disk Ful		
	Enabl	e Event Send Via Name NatworkCam_11 NatworkCam_14 NatworkCam_24 NatworkCam_20 NatworkCam_25	Email P. Address 192,156,0,116 192,156,0,245 192,156,0,184 192,156,0,184 192,156,0,248	Group Name Group1_Network Group1_Network Group1_Network Group1_Network	Motion Alarm	Sensor Alarm	Disk Full		
	Enabl	e Event Send Via Name NatworkCam_11 NetworkCam_14 NetworkCam_24 NetworkCam_25 NetworkCam_25	Email P Address 192.158.0.116 192.158.0.245 192.158.0.184 192.158.0.02 192.158.0.246 102.158.0.20	Group Name Group: Network Group: Network Group: Network Group: Network Group: Network Group: Network	Motion Alarm	Sensor Alarm	Disk Full		
	Enabl	e Event Send Via Name NetworkCam_11 NetworkCam_24 NetworkCam_25 NetworkCam25 Server01	Email P Address 192,158,0,116 192,158,0,245 192,168,0,184 192,168,0,02 192,168,0,246 102,168,0,20 192,168,0,175	Group Name Group1_Network Group1_Network Group1_Network Group1_Network Group1_Network Group1_Network Group1_Network	Moton Alarm	Sensor Alarm	Disk Full		

(3) Recording Settings

Recording Settings						
Recording Directory : C:\1SDB\Record	0		Total s	le Recording paco:	20002	ME
ivent Mode Settings	-0		Free sp	pace:	5960	ME
Record 0 * secs, before alarm.			Reserv	ed space:	1024	ME
Free seconding quote:	20	%				
Free Recording Oucta:		22				
A hard a stand of the second state	50.0		-	1 4 10 4 4 4 4 4		
NetworkCam_11	10 0	3%		(24/49)	Mb)	
NetworkCam_11 NetworkCam_14 NetworkCam_24	10 0 10 0	95 95 95	1 1	(24/49)	116) 16) 16)	
NetworkCam_11 NetworkCam_14 NetworkCam_24 NetworkCam_25	10 0 10 0 10 0 10 0	55 55 55 56 55		(24/49) (5/499 (9/499 (4/499	(NB) Mb) Mb) Mb)	
NetworkCam_11 NetworkCam_14 NetworkCam_24 NetworkCam_25 NetworkCam_25	10 0 10 0 10 0 10 0 10 0	* * * * *		(24/49) (5/499 (9/499 (4/499 (4/499	116) Mo) Mo) Mo)	
NetworkCam_11 NetworkCam_14 NetworkCam_24 NetworkCam_25 NetworkCam_25 NetworkCam_25	10 ¢ 10 ¢ 10 ¢ 10 ¢ 10 ¢	* * * * * * *		(24/49) (5/499 (9/499 (4/499 (3/499 (3/499	116) Mo) Mo) Mo) Mo)	
NetworkCam_11 NetworkCam_34 NetworkCam_24 NetworkCam_25 NetworkCam_25 Server01 Server01	10 ¢ 10 ¢ 10 ¢ 10 ¢ 10 ¢ 20 ¢	*****		(24/49) (5/499 (4/499 (3/499 (3/499 (3/499 (1/499	116) Mo) Mo) Mo) Mo) Mo)	

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

(4) Scheduler

	IP Address	Device title	Group name	
	192.168.1.123	cam01	Zone-1	
	192.168.1.146	cam02	Zone-1	
	192.168.1.123			During
	192.168.1.44	cam04	Zone-1	Dabucate
	192.168.1.30	cam05	Zone-1	
	192.168.1.87	cam06	Zone-1	
isable record	ling scheduler for this cham	nel		
mary Schedu	le .	-		
Once	C B	very day	the state of the s	
Bogin Su	nday <u>•</u> [*		Sunday _ p	
Continous M	lode			
Continous M Event Mode	Motion alarm	🗂 Sensor alarm		Schedule Data List
Continous M Event Mode condary Sche	Motion alarm	Sensor alarm	1	Schedule Data List
Continous M Event Mode condery Sche Disable	dule that is outside the Par	Sensor alarm		Schedule Data List
Continous M Event Mode condery Sche Disable	Motion alarm	Sensor alarm		Schedule Data List
Continous M Event Mode condary Sche Disable Continous M	Motion alarm	Sensor alarm	(Schedule Data List

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

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



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

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

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

Undo: Undo the latest changes.

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

Save: Apply the changes.

Close: Close the window.



(5) Sequence Views

This function enables you to use four modes to set the sequence of displays you want for the **Sequence Mode** of the **Live Monitor**.

🖉 Sequence Views Setting				
1 SEQ View 4 SEQ Views 6 SEQ Views	8 SEQ Views			
Location Setting	Sequence Setting :	Location 1		
	Setting			
	Name	IP Address	Group Name	Dwell Time
Save All				
Close				

The user has to modify the "Sequence Views Setting" to make it work. For example, if you want to see the **4-window** sequence, please follow the steps given below:

- Step 1: Click the Sequence Views button to enter the Sequence Views setting page.
- Step 2: Select the "4 SEQ views" and the 🔠 4-windows will show in the Location Setting area.
- Step 3: Select one of the four channels (Location1-4), then click the "Setting" button.

Step 4: The 4 SEQ View(s) page will show below. Choose the device(s) and set the Dwell Time (3-30 seconds) from the drop-down list, then press the "Confirm" button.

Choose	Name	IP Address	Group Name	Dwell Time
V	NetworkCam_11	192.168.0.116	Group1_Network Ca	8 secs
	NetworkCam_14	192.168.0.245	Group1_Network Ca	8 secs
	NetworkCam_24	192.168.0.184	Group1_Network Ca	8 secs
	NetworkCarn_26	192.168.0.62	Group1_Network Ca	8 secs
2	NetworkCam_25	192.168.0.248	Group1_Network Ca	8 secs
	NetworkCam25	192.168.0.20	Group1_Network Ca	8 secs
	Server01	192.168.0.175	Group_Video Server	10 secs
	Server02	192.168.0.175	Group_Video Server	11 secs
				13 secs 14 secs
				15 secs

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

(6) Speed Dome

Name	IF Address	Group Name	
NetworkCam 11	192.168.0.116	Group1 NetworkCame	
NetworkCam 14	192.168.0.245	Group1 Network Came	
NetworkCam 24	192.168.0.184	Group1 Network Came	
NetworkCam 26	192.168.0.62	Group1 Network Came	
NetworkCam 25	192.168 0.248	Group1 Network Came	
NetworkCam25	192.168.0.20	Group1 Network Came	
MODEL : Pelco-D ID : 1	×		

• Tick mark to activate the Speed Dome Controller function of the selected channel. The user can set the model, ID and the protocol here.

• Click "Configure" to enter to the RS232 and RS485 setting page.



(7) Authority Setup

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

₿ <u>4</u> 1	uthority Setup		×
Use	rs List (Ple	rase choose a user	to edit.)
	User Nam	e ₄ Rights	
<u> </u>	admin	Admin	
Ad	d New User		
Us	er Name		
		_'	
Us	er Password		
A	thonty	Admin	-
~	Save User	X Cancel Edit	X Delete
		and the second state of the second state	the second se
_			

080	9	0 0
	🖉 🕰 🚺	
5 - Control (1999) - Control (1999)		Device Information Tertane T
	Conference Made State pre- Record Made Conference Conference	Connect Unerse : Unit

- 5. List of cameras and its groups: The users can use the icons above the list to change the groups' names, the devices' titles and the channels' display modes.
- 6. Display area: Click the title of the camera, and you will see the live image in this area.
- Device Recording: Click the "Start Record" button to start the recording mode and click the "Config Record" button to set the details of the recording below.
- 8. Status of the speed dome controller
- 9. You can interchange between two buttons here: the "Device Panel" and "Web page" buttons. The web page (please refer to section 5.1 for more details):



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

5.2.4.4 Lock

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

d. Only admin
el

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

5.2.4.5 Logout

Press the 🔊 button to logout the eneo GL-Manager software and the eneo GL-Manager monitor will be minimized into the systray of the Windows taskbar. If you want to return to the eneo GL-Manager monitor, please click the 😨 button once, then select the page which you want to get in. After typing in the correct user name and password, you can re-login to the software.

5.2.4.6 Tray

Press the _____ button to minimize the eneo GL-Manager monitor into the systray of the Windows taskbar. Click the 🙀 button once to go back to the eneo GL-Manager software.

5.2.4.7 Exit Setting

Press the **w** button to exit the eneo GL-Manager monitor which is minimized into the systray of the Windows taskbar.

Click the 🙀 button to select the functions on the list.



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

Change local admin's password!	X
Old Passwurd:	
New Password:	
Confirm Password:	
<u>QK</u>	cet

5.2.5 The Image Viewer

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

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

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



6. Advanced Operation

Question 1:

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

• The way to get the IP address of the IP camera without a monitor:

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

Scan IP: Please refer to APPENDIX 1.

Upnp: Please refer to **APPENDIX 2**.

IP function: Please refer to APPENDIX 3.

Question 2:

How to 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 5.1.6 for more details.

• Use the Sub Hostname to view the IP camera

- 1. Click the URL block at the top of the PC screen.
- 2. 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 3:

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.

· Add a new user

1. Please enter the user name, the password, the confirmed password and choose the authority.

There are three different levels of authorities, namely Admin, Operator and Viewer.

Admin: The user who accesses with the admin name and password has the full power to even change the settings of the 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

Туре	GLD-1401
Art. No.	91576
Series	eneo GL
System	Colour
Video standard	PAL
Sensor size	1/3"
Imager	CCD, Sony Super HAD Interline Transfer CCD (with HQ1 DSP)
Sensitivity (at 50% video signal)	0.4Lux, at F1.2 (Videor measurement result)
Horizontal resolution	480TVL
Active picture elements	Approx. 440,000, 752(H) x 582(V)
Automatic gain control (AGC)	Available
Automatic shutter control (AES)	1/50 ~ 1/100,000sec.
Digital Noise Reduction (DNR)	no
Integration rate	no
White balance (AWB)	2500 ~ 9500K
Backlight compensation	no
IR cut filter	no
Mirror function	yes
Privacy Zone masking	3 areas
Activity detection	yes, Integrated motion detector, 96 zones, 5 levels sensitivity (MJPEG)
External connections	Video (BNC), USB1.1, Network (RJ-45), Alarm In/Out, Reset, Power input
Video outputs (type)	CVBS
Video outputs	1Vp-p, composite, 75ohms, BNC
Digital signature	M-JPEG watermark
Audio support	no
Alarm input	1 (software controlled)
Alarm inputs	yes
Alarm outputs	1
Alarm handling	Automatic connection setup to a specified IP address (FTP)
Internal storage	no
Compression standard	MJPEG, MPEG4
Resolution max.	704 x 576 (D1)
Resolution	704x576 (D1), 704x288 (1/2 D1), 352x288 (CIF)
MPEG4 Quality	5 fixed levels and customized Bitrate (from 64kBps ~ 8MBps)
Transmission rate (Network)	30(25), 24, 15 Fields/sec. (MPEG4 at all resolutions), 2.4MBit/sec. via Network
Maximum image transmission rate	30B./Sek.
Frame rate	25 frames/sec. max. PAL, (recording mode), Picture size: 4 - 64KB (M-JPEG)
Image display	Via Web Browser or Lan-Cam-Viewer Software
USB Interface	Supplied
Ethernet interface	10Base-T, 100Base-TX, RJ-45

Web browser	MS Internet Explorer Vers. 6.0
Network protocols	TCP/IP, DHCP, HTTP, ICMP, FTP, ARP, SMTP, DDNS, DNS, UPnP, PPPoE
Lens type	Fixed focal length
Lens mount	Integrated lens
Application range	Industrial, security
Nominal format size	1/3"
Aspherical technology	no
Mount	n/a
Focal length	3,6mm
Aperture range	F2.0
Horizontal angle of view	52°
Iris control	no
MOD (Minimum object distance)	0,5m
Filter screw size	Not available
Password protection	yes
PTZ Support	yes
Rotation range	360°
Supply voltage	12VDC
Heater	no
Power over Ethernet	no
Power consumption	3.6watts max.
Camera fixing	no
Mounting	Surface mount
19" Rack mountable	no
Temperature range (Operation)	0 ~ +50°C
Vandalism resistant	yes
Hidden Cable Management Support	Supplied
Housing	Indoor housing
Housing material	Aluminium
Colour (housing)	Grey
Colour (bubble)	Clear
Protection rating	IP54
Dimensions	See drawing
Weight	450g
Parts supplied	Lan-Cam-Viewer Software, Power supply 100~240VAC/50Hz - 2A, USB connection cable, Manual
Product information	Viewer Software for the recording of upto 16 cameras GLD-1401 System requirements for the Viewer Software:- Standard PC with P-IV processor and >1.8GHz system clock- Windows 2000 or Win XP - Network connection 10/100 Base-Tx- Internet Explorer 5 or higher- Hard disk 80Gb, depend on recording demand- RAM 512Mb (recommended)

Accessories

Art. No.	Туре	Description
76011	ZELARIS_AC S	Surveillance Software for Network Cameras from Eneo, Axis
76012	ZELARIS_AC C	Client Software for Zelaris_AC S
76023	ZELARIS_AC SMO	Site Map Option for Zelaris_AC S
76051	ZELARIS V04	Digital Video Network Crosslink, 4 Inputs, USB 2.0 Dongle
76053	ZELARIS S04	Server 4 Camera License, USB 2.0 Dongle

8. Function of Client PC

System requirement	Windows 2000, XP or above
Browser	IE 6.x
Live Monitor	Max. 16 Split, Real Time REC / Capture / 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 cameras

9. Dimensional Drawings



Dimensions: mm

APPENDIX 1

SCAN IP

Follow the instructions below to use the SCAN IP software to search the IP camera devices from a local location.

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

Er Scanif						E	
Visw Tool Help							
# 8							
Device Type	Device Title	MAC Address	IP Address	Http Port	Gateway Address	NET Mask	DHCP
MPEG4_IPCAM	rd7224	00-00-00-00-F1-38	192,168.1,215	80	192.168.1.160	255.255.252.000	OFF
VIDEO_SERVER_4CH	VideoServer	00-00-00-00-44-46	192.168.0.16	80	192.168.1.254	255.255.252.000	ON
MPEG4_IPCAM_HQ	ipcam	00-0C-0C-00-2F-DC	192.168.0.134	80	192.168.1.254	255.255.252.000	ON
MPEG4_IPCAM	ipcam	00-00-00-02-03	192.168.0.80	80	192.168.1.216	255.255.252.000	ON
MPEG4_IPCAM	ipcam	DA-CA-CA-CA-CA-OB	192.168.0.97	80	192.168.1.254	255.255.252.000	ON
MPEG4_IPCAM	ipcam.	00-00-00-00-F1-39	192.168.0.167	80	192.168.1.254	255.255.252.000	ON
16 Ch DVR (MUX)	DVR	00-0C-0C-00-A7-0A	192.168.1.170	80	192.168.1.254	255.255.255.000	OFF
MPEG4 IPCAM	8D7224N1	00-00-00-00-F1-00	192.168.0.178	80	211.21.20.169	255.255.252.000	ON
MPEG4 IPCAM HO	RD7226P	00-0C-0C-00-CC-F8	192.168.0.236	80	211.21.20.169	255.255.252.000	ON
16 Ch DVR (MUX)	EDVR	00-00-00-01-04-08	192.168.1.250	80	192.168.1.254	255.255.255.000	OFF
IPCAM	cam3	00-0C-0C-00-69-A4	192.168.0.128	80	192.168.1.254	255.255.252.000	ON
4 Ch DVR (MUX)	EDVR	00-0C-0C-01-11-5E	192.168.0.180	80	192.168.1.254	255.255.252.000	ON
1Ch DVR (FROM MUX)	DVR	00-0C-0C-00-44-93	192.168.0.171	80	211.21.20.169	255.255.252.000	ON
IPCAM	cam5	00-00-00-70-00	192.168.1.180	80	192.168.1.254	255.255.255.000	OFF
SIMPLE IPCAM	ipcam	CA-CA-CA-CA-CA-05	192.168.1.218	80	192.168.1.254	255.255.252.000	OFF
16 Ch DVR (MUX)	EDVR	00-00-00-00-49	192.168.0.136	80	0.0.0.0	255 . 255 . 252 . 000	ON
-							
Ready					CAPS NUM 20	RL	

4. Do you want to automatically search free IP?

If and when you want to automatically search the free IP, select "Yes" or "No". If clicked "Yes" the software will provide the "Free IP Address" boxes on the right side of the window. If you click "No", these address boxes will not show.

	×
te auto search f	ree ip?
No	1
	te auto search f No

Manual insertion of "Free IP Address"

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

Address Setu	p
MAC Number:	00 · 00 · 00 · 65 · A
IP Address:	192 168 1 129
Gateway Address	192 168 1 254
NET Mask:	255 255 255 000
.ogin Setup –	
Login Name: 🚺	\frown
Decourand-	\sim

Automatically search "Free IP Address"

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

Device Title: [ancan Address Setup MAC Number: 00 - 00 - 00 - 00 - 03 - A5 IP Address: 192 168 1 129	192 168 1 5 192 168 1.7 192 168 1.7 192 168 1.8 192 168 1.11
Gateway Address. 1992 1168 1 254 NET Mask: 255 255 255 0000 Ingin Setup Login Name. Password:	192,168,1,12 192,168,1,16 192,160,1,17 192,168,1,20 192,168,1,21 192,168,1,21
2. 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.

Device Title Jancam ddress Setup	192.168.1.5 192.168.1.7 192.168.1.8 192.168.1.8 192.168.1.11 192.168.1.12 192.168.1.12 192.168.1.21 192.168.1.21 192.160.1.24
Login Name: Password: UPDATE EXIT	

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

Device Title: Jancam	192.168.1.5 192.168.1.7
Address Setup	192 168 1 8 192 168 1 11
IP Address: 192 168 1 16	192.168.1.12 192.168.1.16
Gateway Address: 192 168 1 254 NET Mask: 255 255 255 000	192.168.1.17 192.168.1.20 192.168.1.21 192.168.1.24
Login Setup	
Login Name:	
Password.	

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

IP Camera UPnP

The most troublesome issue when you setup a 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 below.



1. Check the IP class of your PC

In most case Microsoft Windows XP[®] will assign an IP address, 169.254.*.*, automatically with a subnet mask, 255.255.0.0, if the DHCP server is absent, while the default IP address of a IP camera is 192.168.1.168 with a subnet mask of 255.255.255.255.0. 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.



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



Step 3: Click the Properties tab in the Network Connections dialog box.



Step 4: When the Local Area Connection Properties dialog box shows up, choose Internet Protocol (TCP/IP) and click Properties.

aeneror	Authentication Advanced
Conne	ct using:
-	Marvell Yukon Gigabit Ethernet 10/100/1 Configure
This co	onnection uses the following items:
	Client for Microsoft Networks
	File and Printer Sharing for Microsoft Networks
	Internet Protocol (TCP/IP)
	Install Uninstall Properties
Desc	ription
Tra are divit	nsmission Control Protocol/Internet Protocol. The default wide a network protocol that provides communication across arse interconnected networks.
	w icon in notification area when connected
E John	ify me when this connection has limited or no connectivity
Not	

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.

u can get IP settings assigned pability. Otherwise, you need t propriate IP settings	I automatically if your network supports this o ask your network administrator for the
Obtain an IP address autor	natically
 Use the following IP address IP address: 	
Subnet mesk:	255 . 255 . 255 . 0
Default galeway.	4 4 4
Obtain DNS server addres	s automatically
OUse the following DNS serv	er addresses:
Preferred DNS server:	
Alternate DNS server:	

Step 6: Choose **Close** to finish the modification.

		-
Marvell Yukor	n Gigabit Ethernet 10/100/1	Configure
This connection use:	s the following items:	
Client for Mic	rosoft Networks	under
Internet Prote	ter Sharing for Microsoft Net tool (TCP/IP)	works
		<u></u>
Install	Uninstall	Properties
Install Description	Uninstall	Properties
Install Description Transmission Cor area network prot	Uninstall Introl Protocol/Internet Protoco locol that provides communi	Properties ol. The default wide cation across
Install Description Transmission Cor area network prot diverse interconn	Uninstall Introl Protocol/Internet Protoco locol that provides communi ected networks.	Properties
Install Description Transmission Cor area network prot diverse interconni Show icon in notif	Uninstall Introl Protocol/Internet Protoc locol that provides communi ected networks.	Properties ol. The defaultwide cation across

2. Install UPnP Packets

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

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



Step 2: When the Add or Remove Programs dialog box appears, click the Add/Remove Windows Components button.

🐻 Add or Rem	iove Programs	
Change or Remove Programs	Add a program from CD-RCM or floppy dsk: See To add a program life in a CD-RCM or floppy dsk, cbd. CD or Floppy Add programs from Indrosoft To add new Windows features, device drivers, and system updates over the Internet, clok	CD or Boppy Windows Update
Add Bew Programs Arkt/Remove Windows Windows Set Program Access and Detoute	With sown Update And programs for your network: <u>Category</u> : Na programs we available on the network	Al Categories 💌

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

adows Components You can add or remove compor	rients of Windows XP,	
To add or remove a compone	ent, click the checkbox. A share	ded box means that only part of
Componento:	a. To see what's included in d	Component and Details.
C Message Queuing		0.0 MB 🔼
MSN Explorer		20.7 MB
Retworking Services		0.3 MB
Cher Network File and	Print Services	0.0 MD
C Collock Express		0.0 МВ 🔛
December: Centers and	ety of specialized, network-reli	ated services and protocols.
Description: Contains a van	10000	
Total disk space required:	56.3 MB	Dotailo

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

component wi	nove a compone ill be installed. To	nt click the check box. A shaded box o see what's included in a component	means that only part of the , click Details.
Subcompone	Gateway Device	Discovery and Control Client	0.0 MB
D - Peerto	-Peer		0.0 MD
	tener		0.0 MD
Simple	TCP/IP Services	5	0.0 MB
UPnP U	Jser Interface		0.2 MD
Description:	Displays icons network: Also,	s in My Network Places for UPnP devi opens the required Windows Firewall	ces detected on the ports.
Description: Total disk spa	Displays icons network. Also,	in My Network Places for UPnP devi opens the required Windows Firowall 56.3 MB	ices detected on the ports.

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

Vindows Components You can add or remove compon	ents at Windows XP	
To add or remove a componen the component will be installed	nt click the checkbox. A shode . To see what's included in a c	ed box means that only part of omponent, click Details.
Components:		
🗆 🚅 Message Queuing		0.0 MB
SN Explorer		20.7 MB
🖬 🚼 Networking Services		II 3 MB 😑
Dther Network File and F	Print Services	0.0 MB
C P Outlook Eveness		0.0 MB 🔛
ICI MELOUTIOOK EXDLARS		
Description: Contains a varie	ty of specialized, network-relat	ed services and protocols.

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



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.



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



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



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

File Action View	v Help				
← → 💷 🗗 [3 😼 🔗 🕨 🗉 🕬				
🗞 Services (Local)	Services (Local)				
	SSDP Discovery Service	Name /	Description	Status	^
	Stop the service Restart the service	 Remote Desktop Help Sessio Remote Procedure Call (RPC) Remote Procedure Call (RPC) Remote Registry 	Manages and contro Provides the endpol Manages the RPC na Enables remote user	Started Started	
	Description: Enables discovery of UPnP devices on your home network.	ଞ୍ଜିନକୋovable Storage ଞ୍ଜିନଦuting and Remote Access କ୍ଷିତ୍ର Security Accounts Manager କ୍ଷିତ୍ର Security Center	Offers routing servic Enables starting pro Stores security infor Monitors system sec	Started Started	
		Server Shell Hardware Detection	Supports file, print, a Manages access to s	Started Started	
	(C	SSDP Discovery Service	Enables discovery of	Started	E
		System Event Notification System Restore Service	Tracks system even Performs system res	Started	
		Scheduler TCP/IP NetBIOS Helper TCP/IP NetBIOS Helper	Enables a user to co Enables support for Provides Telephony	Started Started Started	
		Services	Enables a remote us Allows multiple users	Started	~
		III III		>	

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

Service name:	SSDPSEV			
Display name.	CODP Discovery Cervice			
Description.	Enables discovery of UPhP devices on your home			
Palh Ic executabl C.(WINDOW3(3)	u. slemijžýsvu rostexe -k Loualdervice			
Startup typo:	Automatic	~		
<	Automatic			
Service status:	Disabled			
Start	Stop Pause	Resume		
You can specify t here	ne start parameters that apply wher you start	the service from		
		8		

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



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

oneral Log On	Recovery Depende	incies			
Service name:	upnphost				
Display name:	Universal Plug and	d Play Device Host		_	
Description:	Provides support to nost Universal Plug and Play devices.				
Path to executabl	0:				
C.\WINDOWS\S	stem32\svchost.exe -	k_ocalService			
Statua Ivan	Automotia:			*	
<	Automatic	r -			
Service status:	Disabled Sopped			-	
Start	Stop	Pause	Resume		
You can specify there.	he start parameters th	at apply when you st	art the service fr	orr	
Start parameters:					

Step 8: Restart your system.

4. Scan LANCams[®] 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 below.



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

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.

- Start a DOS prompt window
- Type the following in 30 seconds after the booting: arp -s <IP address> <Ethernet address>

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

- Start a shell
- Type the following as superuser (root): arp -s <IP address> <Ethernet address>

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".

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 below.

			DynDMS.co	n + Dynect. + Dyn1Lt
	NS	Uter:	Pers	
Abo	out Services	Account Support	News	
TEAM SPOR	T FOR THE E	RAIN technology NS Sem DNS Sem DNS Sem Dns results Mail-top Droute relia	NymDNS? and see what we do vices is and dynamic IP addresses Services is mail delvery	
	Carlos	Learn more	Search	
Marine	Dynamic Network Services I	incorporated supports 2008 FIRST Con	petiton	
Resources	Services	Support	About Us	
What is DNS?	Custom DNS	Update Clents	The Company	
DNG Tools	Dynamic DNS	24/7 Prenier Support	DynDNS Careers	
Business Services	E-Mail Rolay	Developer's Info	Contact Us	

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 below.

DyrDNS - Dynamic DNS, E-Mail De Ve Edit View Favorites Tools He	elivery and Other Services - Micr	osoft Internet Explorer			
threas a http://www.dyndra.com/					v 🗗 Go Linis " 🕏
DynDNS				DynDHS.com	+ Dynect + Dyn'll.D + Corporate
	O DynDN	NS	User: abcdevice	Parts Login	
	Abo	ut Services	Account Support	News	
	TEAM SPOR We support the US FIRST	T FOR THE Initiative for science and Dynamic Natwork Sarvices	Real North College Technology Learn more. North College Maliting College Incorporated apports 2008 FIBER Con-	hymDhST dices white we do dices and dynamic IP addresses and dynamic IP addresses is read delenery Search	
	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-Mal Relay	Developer's Info	Contact Us	
		e 1790 2000 Cutation, Datase	eh.Derstan, Jon Lead Malan - Cardini		

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

DynDNS	ine.com/		10	DysElfS.com	+ Synect + Dyn1LD + Corporat
	🔿 DynDi	NS		the Services of Charles and Andrewson	
	Abo	ut Services	Account Support	News	
	We support the US FIRST	initiative for science and	Learn more-	and see what we do vices k and dynamic IP addresses Services Search Search controls	
		Official Control of the second s	coposito seguro 2007/031 Col	LEGIST	
	Resources	Services	Support	About Us	
	What is DNSP	Custom DNS	Update Clents	The Company	
	DNS Tools	Dynamic DNS	24/7 Prenier Support	DynDNS Careers	
	BALLE RESS CALL FROMS	C. YANK HONEY	Contraction 2 mills	CONTRACT OF	

Click <u>"My Services</u>" to enter the service page. Please click the <u>"Add Host Service" item which is below the</u> "My Hosts" item, as shown below.



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 <u>Add Dynamic DNS Host</u> to enter the DDNS setting page as shown below.

Dyrons Accou	nt Host Service Settings	Microsoft Internet Explorer					
dress (https://www	w.dyndns.com/account/services/hos	ts/add.html					🖾 so Linis " 🌚 -
	-	About Ser	ices Account	Support	News		
	My Account	Add New Hostn	ame			Host Services	
	My Services						
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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 below.

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	Network Monitoring					
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MPEG4 Bit Rate Lookup Table of IP Camera

	Highest	High	Medium	Low	Lowest
FULL D1	3	2.5	2	1.5	1
VGA	2.63	2.25	1.75	1.31	0.88
Half D1	1.5	1.25	1	0.75	0.5
Half VGA	1.31	1.13	0.88	0.67	0.44
CIF	0.75	0.63	0.5	0.38	0.25
QVGA	0.66	0.56	0.44	0.38	0.22
Z00M * 2	3	2.5	2	1.5	1
Z00M * 3	3	2.5	2	1.5	1
Z00M * 4	3	2.5	2	1.5	1

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

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

	Highest	High	Medium	Low	Lowest
FULL D1	2.25	1.94	1.5	1.13	0.75
VGA	1.94	1.69	1.31	0.98	0.66
Half D1	1.13	0.94	0.75	0.56	0.38
Half VGA	0.98	0.84	0.66	0.49	0.33
CIF	0.56	0.47	0.44	0.28	0.19
QVGA	0.5	0.44	0.34	0.25	0.19
Z00M * 2	2.25	1.88	1.5	1.125	0.75
Z00M * 3	2.25	1.88	1.5	1.125	0.75
Z00M * 4	2.25	1.88	1.5	1.125	0.75

* The unit is in Mbps/second

APPENDIX 6

FAQ

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

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

2. 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.

3. My AVI files 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".

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

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



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