

NetCamera NV IP Security Night Vision



A02-IPCAM3_ME01

Where solutions begin



ITALIANO

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ENGLISH

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- On board of airplanes, or
- ·In an explosive environment, or
- ·In case the interference risk to other devices or services is perceived or identified as harmful

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Regulatory Information/disclaimers

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Germany, UK, Italy, Spain, Belgium, Netherlands, Portugal, Greece, Ireland, Denmark, Luxembourg, Austria, Finland, Sweden, Norway and Iceland.

France: except the channel 10 through 13, law prohibits the use of other channels.

CE/EMC Restriction of Liability

The product described in this handbook was designed, produced and approved according to the EMC-regulations and is certified to be within EMC limitations.

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Chapter 1

Introduction

This manual is think for an advanced utilization of NetCamera NV; for this reason, you can find explanation of any functions supported by product. For fast configuration, please referee to Quick Start Guide.

1.1 An Overview of NetCamera NV

NetCamera NV is the ideal solution for sending videos, remote video surveillance and for the transmission of images in real-time over your Intranet or the Internet.

NetCamera NV is equipped with a powerful CPU and integrates the robust Linux operating system enabling to integrate, among its many features, automatic movement detection via hardware in MJPEG format with VGA resolution and constant rates of 15 fps; recording not only the video but also the sound.

Its back panel contains 3 pairs of connectors (2 input and 1 output) allowing the camera to communicate with different elements of a building, such as electric doors and light switches or security related devices such as alarms.

Furthermore, thanks its 8 integrated Infrared sensors, the NetCamera NV's automatic Day/Night functionality will change to Infrared mode as it becomes dark, providing a video quality on par with its daylight settings.

Its ability to see in the dark as well as the integrated motion detection functionality, turn this camera into the ideal device for remote video surveillance night and day; even when there is no light.

Using the web browser of any PC or notebook connected to the Internet (or Intranet), the NetCamera NV provides the user with a highly intuitive interface to manage and control it remotely, making it the ideal tool for remote monitoring and video surveillance.

1.2 System Requirements

Before installing the device, your PC should meet the following:

NetCamera NV



- Local Area Network: 10Base-T Ethernet or 100Base TX Fast Ethernet
- CPU: Intel Celeron 1.5GHz or above (Intel Pentium 4 is preferred)
- Memory Size: 128 MB (256 MB recommended)
- VGA card resolution: 800x600 or above
- Internet Explorer 5.0 or above (ActiveX)

1.3 Package Contents

Unpack the package and check all the items carefully. If any item contained is damaged or missing, please contact your local dealer as soon as possible. Also, keep the box and packing materials in case you need to ship the unit in the future. The package should contain the following items:

- One IP Security Wireless Night Vision Camera
- One Quick Installation Guide
- One Installation CDRom with Manuals and Utility
- One Metal Clip (wall mounting).
- One DC Power Adapter
- One BJ-45 Ethernet Cable

If any of the above items are missing, please contact your reseller.



Chapter 2

Using NetCamera NV

2.1 Cautions for NetCamera NV

Read this section to learn how to set up your IP camera and use its basic functions.



Do not place the NetCamera NV under high humidity and high temperature. It can damage the device.

Do not use the same power source for NetCamera NV with other equipment.

Do not open or repair the case yourself.

If the NetCamera NV is too hot, turn off the power immediately and have a qualified serviceman repair it.



Ensure the camera is fixed securely otherwise it may fall and cause injury.

The camera is not waterproof and should not be mounted outside or in a position where it could become wet.

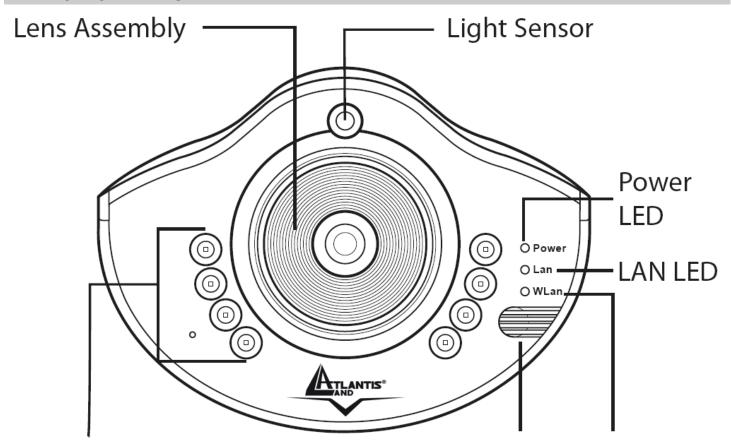
Place the NetCamera NV on a stable surface.

Only use the power adapter that comes with the package.

Do NOT upgrade firmware on any Atlantis Land product over a wireless connection. Failure of the device may result. Use only hard-wired network connections.



2.2 The Front LEDs



Night Vision IR LEDs

Microphone WLAN LED

LED	Meaning	
Power	Lights when power ON	
Lan	Network activity indicator Flashes when sending/receiving data	





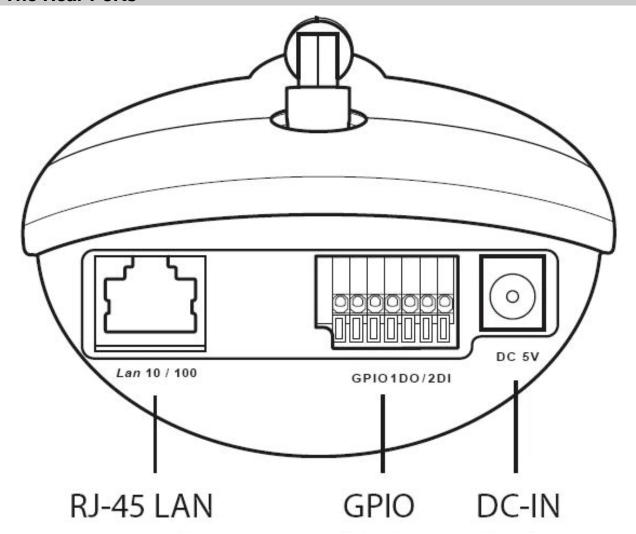
Night Vision	Furthermore, thanks its 8 integrated Infrared sensors, the NetCamera NV's automatic Day/Night functionality will change to Infrared mode as it becomes dark
Light Sensor	Light Sensor (Don't cover this Led)
Microphone	Microphone for environmental sound recording



Use of audio or video equipment for recording the image or voice of aperson without their knowledge and consent is prohibited in certain states orjurisdictions. Nothing herein represents a warranty or representation that the Atlantis product provided herein is suitable for the enduser's intended use under the applicable laws of his or her state. Atlantis disclaims any liability whats oever for any end-user use of the Atlantis product, which fails to comply with applicable state, local, or federal laws.



2.3 The Rear Ports



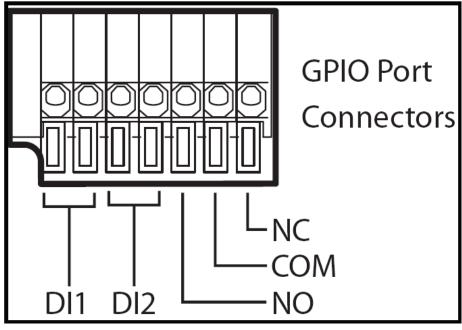
Port	Meaning	
Network Cable	Ethernet port with 10/100Mbps Fast Ethernet connections, connect this port to switch/hub	
GPIO Connectors	Its back panel contains 3 pairs of connectors (2 x DI input and 1 x DO output)	





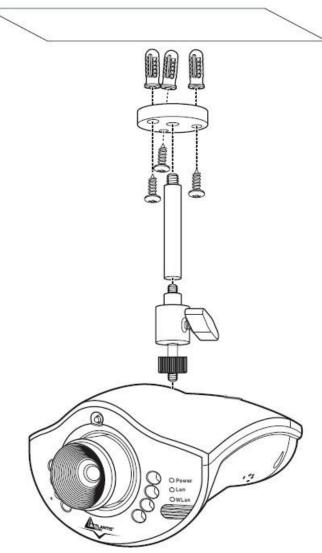
DC-IN	Connect the Power Adapter DC plug to the AP's power jack
-------	--

Please check the attached pircture in order to obtain more info about GPIO port.





2.4 Assembling the Stand and Connecting to a Network



The camera can be assembled in two different ways; either from the top of the unit or the bottom. Assemble the stand and fix it to the cam-era as shown.

Use the three screws and plugs provided to fix the stand bracket to a wall, ceiling or other convenient fixing point.

The stand can be adjusted to allow the camera a full 360° of rotation and a pan and tilt action.

Follow the above steps to mount from the base of the unit, attaching the stand bracket to the mounting point on the base of the unit.

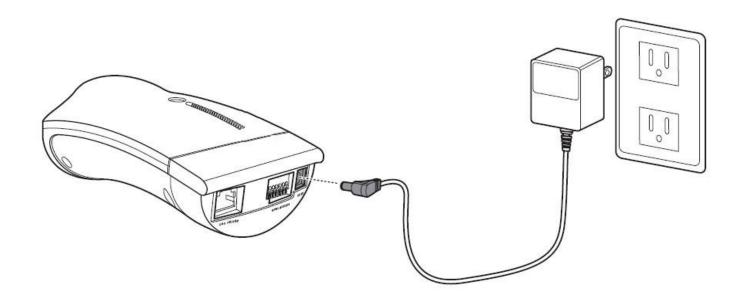


Ensure the camera is fixed securely otherwise it may fall and cause injury.

The camera is not waterproof and should not be mounted outside or in a position where it could become wet.

Connect the power adapter to the DC-IN socket on the camera as shown then check Power Led.





The IP camera can be connected to an Ethernet network using the RJ-45 port as shown. Connect the camera to an Ethernet hub or switch using a standard cable. You can also connect the camera directly to a computer using the supplied cable.



Use only the power adapter with the camera. Using another adapter, not recommended by the manufacturer, may damage the camera and invalidate the warranty.



Chapter 3

Configuration

The NetCamera NV can be configured with your Web browser. The web browser is included as a standard application in the following operation systems, UNIX, Linux, Mac OS, Windows 95/98/NT/2000/Me, and etc. The product provides a very easy and user-friendly interface for configuration.

3.1 Before Configuration

This section describes the configuration required by LAN-attached PCs that communicate with theNetCamera NV, either to configure the device or for network access. These PCs must have an Ethernet interface installed properly, be connected to the Router either directly or through an external repeater hub, and have a fixed IP address that must be in the same subnet of theNetCamera NV. The default IP address of the NetCamera NV is 192.168.1.1 and subnet mask is 255.255.255.0.

Please follow the steps below for PC's network environment installation. First of all, please check your PC's network components. The TCP/IP protocol stack and Ethernet network adapter must be installed. If not, please refer to MS Windows related manuals.



Any TCP/IP capable workstation can be used to communicate with or through the NetCamera NV. To configure other types of workstations, please consult the manufacturer's documentation.



3.1.1 Windows 95/98/ME

- Go to Start / Settings / Control Panel. In the Control Panel, double-click on Network and choose the Configuration tab.
- 2. Select TCP / IP -> NE2000 Compatible, or the name of any Network Interface Card (NIC) in your PC.
- 3. Click Properties.
- 4. Select the **IP Address** tab. In this page, click the **Specify an IP address** radio button (**EG IP=192.168.1.2** and subnet Mask=255.255.25.0).

3.1.2 Windows NT4.0

- 1. Go to Start / Settings / Control Panel. In the Control Panel, double-click on Network and choose the Protocols tab.
- 2. Select TCP/IP Protocol and click Properties.
- 3. Select the **IP Address** tab. In this page, click the **Specify an IP address** radio button (**EG IP=192.168.1.2** and subnet Mask=255.255.25.0).

3.1.3 Windows 2000

- **1.** Go to Start / Settings / Control Panel. In the Control Panel, double-click on Network and Dial-up Connections.
- 2. Double-click LAN Area Connection.
- 3. In the LAN Area Connection Status window, click Properties.
- 4. Select Internet Protocol (TCP/IP) and click Properties.
- 5. Select Use the Following IP Address (EG IP=192.168.1.2 and subnet Mask=255.255.255.0).
- **6.** Click "**OK**" to finish the configuration.

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3.1.4 Windows XP

- Go to Start / Control Panel (in Classic View). In the Control Panel, double-click on Network Connections.
- 2. Double-click Local Area Connection
- 3. In the LAN Area Connection Status window, click Properties.
- 4. Select Internet Protocol (TCP/IP) and click Properties.
- 5. Select the **Use the following IP address** radio buttons (**EG IP=192.168.1.2** and subnet Mask=255.255.255.0).
- **6.** Click "**OK**" to finish the configuration.

3.2 Default Settings

Before you configure thisNetCamera NV, you need to know the following default settings:

Password: admin

Username: atlantis

Indirizzo IP: 192.168.1.1

• Subnet Mask(255.255.255.0)



3.3 Browser configuration

Open the web browser, enter the local port IP address of this NetCamera NV, which default at **192.168.1.1**, and click "**Go**" to get the login page.

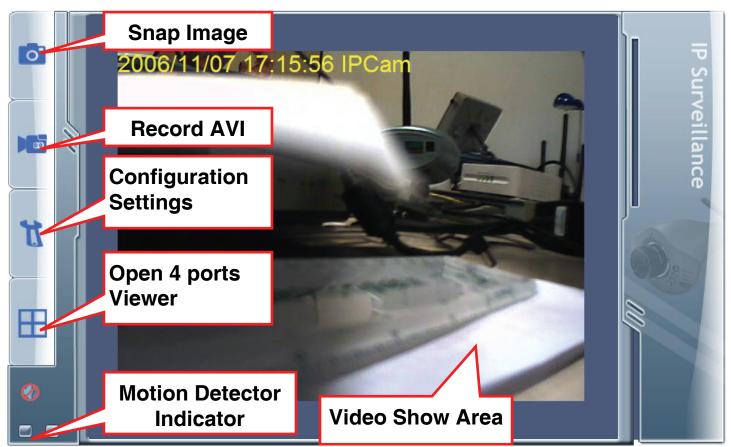


At the configuration homepage, the left navigation pane where bookmarks are provided links you directly to the desired setup page, including:



Please refer to the appendix on how to install ActiveX.

- At the top click This site might require the following ActiveX Control: 'ATL3.0:VCView' from 'Atlantis Land SpA '. Click here to install....
- Click Install ActiveX Control....
- In the Security Warning window click Install.
- The live video will now be streamed.



Use the menu bar on the left side of the screen to perform actions and enter the submenus:

- Snap Image: Click to save the current image.
- Record AVI: Click to record an AVI video clip.
- Configuration Settings: Click to enter the settings sub-menus.
- Open 4 ports View: Click to view the output of up to four other IP cameras on the network.



For more detailed instructions on configuring and using the NetCamera NV, please refer to the online manual.



The computer's IP address must correspond with the camera's IP address in the same segment for the two devices to communicate (E.G. IP=192.168.1.2 and Subnet Mask=255.255.255.0).



Chapter 4

Advanced Configuration

Read this chapter to learn how to operate the IP camera and take advantage of the advanced features such as alerting, and ftp transfers.

Open the web browser, enter the local port IP address of this NetCamera NV, which default at http://192.168.1.1, and click "Go" to get the login page.



Enter your User Name and password. The default are admin / atlantis.



Please refer to the appendix on how to install ActiveX.

- At the top click This site might require the following ActiveX Control: 'ATL3.0:VCView' from 'Atlantis Land SpA '. Click here to install....
- Click Install ActiveX Control....
- In the Security Warning window click Install.
- The live video will now be streamed.



To access the settings menus, do the following:



on the menu sidebar. A login prompt appears:



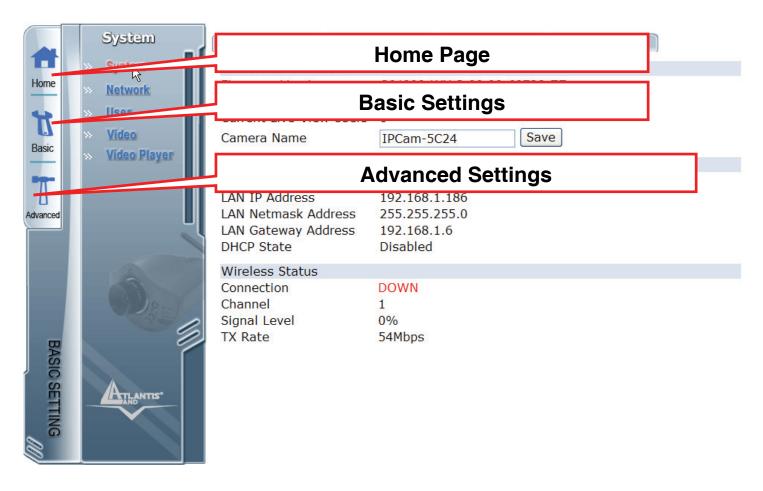
The computer's IP address must correspond with the camera's IP address in the same segment for the two devices to communicate.

If you are denied to enter the Web Configuration Utility, the following warning message will appear on the screen. Please try to enter the correct username and password again, or contact your network administrator.

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There are 3 sub menus in the menu sidebar: Home, Basic Setting and Advanced Setting.





4.1 Basic Settings

Read this section to learn about all the settings and options under the Basic Setting sub menu. There are five main screens, accessed via the tabs at the top of the screen:

- System
- Network
- User
- Video
- Monitor

4.1.1 System

The System submenu allows you to configure all system-related settings. There are four main screens, accessed via the tabs at the top of the screen:

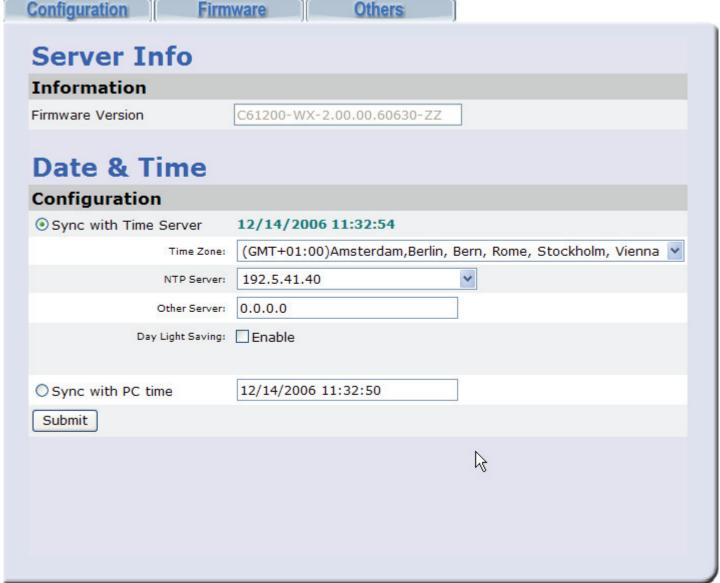
- Configuration
- Firmware
- Other



Configuration

Click the **Configuration** tab to access the configuration status screen:

Here is displayed all system information, including firmware ver-sion and device name, and is where you can configure date and time options.



Choose to either Sync with Time Server or Sync with PC Time.

Check the radio button for the setting you wish to use. If you select **Sync with Time Server**, choose your time zone, enter NTP server details, along with another server if neces-sary. You can also enable daylight saving time by checking the Daylight Saving Time checkbox.

If you select **Sync with PC Time**, the current time displayed by your PC is shown. Click the **Submit** button to confirm your settings.







If You meet problems, please follow these instructions:

NTP Server=pool.ntp.org or 128.138.140.44 NTP Server=192.5.41.40

Click the **Submit** button to save your settings and to update the system date and time.



Firmware

Click the **Firmware** tab to access the firmware upgrade screen:

Here you can upgrade the system firmware version.

Notice & Recommendation			
	Updating the firmware only if you have problems and you are sure that the new firmware will solve your problems.		
Caution!	Careless updating or interruption during the process may cause the device malfunction! Further more, for too many unpredictable conditions may occur in Internet, it is strongly recommended to do this process in Intranet. P.S. Please reboot the device before you start to upgrade the firmware.		
	The whole process may take a few minutes depending on the network condition. Please be patient to wait		
Firmware:	Sfoglia		
Upgra de			

Click the **Sfoglia(Browse)** button and locate the folder where the firmware update is stored. Click the **Upgrade** button to upgrade the firmware.



Do NOT upgrade firmware on any Atlantis Land product over a wireless connection. Failure of the device may result. Use only hardwired network connections.

After upgrading you must reset the router to factory default settings, then manually re-enter your settings.

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Please pay attention. In case electrical shutdown, during this procedure, this product could be not usable.

When uploading software to the Net Camera NV, it is important not to interrupt the Web browser by closing the window or loading a new page. If the browser is interrupted, it may corrupt the software.



Others

Here you can reset and restore original camera settings.



Click the **Restore to Factory Default** button to reset all parameters to original factory settings.

Click the **Remote Reboot** button to restart the camera.



4.1.2 Network

The **Network** submenu allows you to configure all system-related settings. There are 3 main screens, accessed via the tabs at the top of the screen:

- Ethenet
- PPPoE
- Dynamic DNS



Ethernet

Click the **Ethernet** tab to access the ethernet settings screen:

IP Setting Ethernet	
IP Assignment	Static ○ DHCP
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.6
MAC Address	00:14:29:00:3B:D5
DNS & HTTP Po	ort
DNS 1	0.0.0.0
DNS 2	0.0.0.0
Port	80

Here you can configure all settings related to your Ethernet and DNS & HTTP port setup.

Under **IP Setting** and **DNS Configuration**, either enter the settings manually or select the **DHCP** radio button to obtain the addresses via DHCP.

Click the **Submit** button to save your settings.

HTTP Port: This is the port number the router's embedded web server (for web-based configuration) will use. The default value is the standard HTTP port, 80. Users may specify an alternative if, for example, they are running a web server on a PC within their LAN.

For Example: User A changes HTTP port number to 8081. The NetCamera NV will only allow User A access typing: http://192.168.1.1:8081 in their web browser.



PPPoE

Click the **PPPoE** tab to access the PPPoE settings screen:

Ethernet	PPPoE	DDNS	
PPPoE			
Configuration			
PPPoE:		Enable	
User Name:			
Password:			
MTU (1360 ~ 1492):		1492	
Submit			
Status			
IP Address:		0.0.0.0	
Subnet Mask:		0.0.0.0	
Default Gateway:		0.0.0.0	
Primary DNS Server:		0.0.0.0	
Secondary DNS Server:		0.0.0.0	

Here you can configure all PPPoE connection settings. If you connect to your network via PPPoE, check the **Enable PPPoE** checkbox and enter your User Name, password and MTU. Click the **Submit** button to save all changes. The system will begin to connect via PPPoE. Status details are displayed under Status.







Dynamic DNS client can works correctly only if PPPoE is activated.



DDNS

Click the **DDNS** tab to access the DDNS settings screen:

Here you can configure all DDNS connection settings.

Go to www.dyndns.org to register a domain name and obtain a username and password. Enter this domain name, username, and password in the DDNS settings screen.

Ethernet	PPPoE DDNS	
Dynamic	DNS	
Configuration		
Dynamic DNS	☐ Enable	
Choose Server	DynDNS (http://www.dyndns.com)	
DNS Domain		
User Name		
Password:		
Status	DDNS_NO_UPDATE	
Submit		
*//		

Click the **Submit** button to save your settings.



When the IP address of the camera changes, it will update its new address to DDNS automatically and the camera can be contacted using a domain name instead of an IP address. DNS status is displayed under **Status**.



Dynamic DNS client can works correctly only if PPPoE is activated.



4.1.3 User

The User submenu enables you to set up users and administra-tors for the system.

User Authorization	n		
Enable User Check	Enable		Submit
Add/Modify User			
User Group:	User	~	
User Name:			
Password:			
Confirm Password:			
Submit			
Delete User			
Admin Group:	admin	~	Submit
User Group:		~	Submit

Under **User Authorization**, check **Enable User Check** if you wish to run a login process every time you access the system. Click the **Submit** button to confirm this setting.

Under **Add/ Modify User**, enter a new username and password in the required fields to create new user names. Assign each user to either the admin or user groups. Click the **submit** button to confirm the new setting.

Under **Delete User**, select a username from either an admin or user group you want to delete. Click the **Submit** button to delete the user.



4.1.4 Video

The Video submenu enables you to configure all video settings:

Camera Location:	IPCam	Submit
Display Options:	□osd	
Image Flip:	rotate 180 degree	
Frame Rate:	25	Submit
		<u>"\</u>
Image Paramet	ers	
Compression:	high	
Resolution:	640x480 🕶	
Image Parameters:	Default 💌	
Brightnes	s: 🗖 🛨 -7	
Contras	t: 3	
Staturatio	n: +2	
Sharpnes	s: 🗖 💽 +3	
Hu	e: 🗖 🚺 0	
Gamm	a: 🗖 🚺 ₀	
Audio Paramete	ers	
Audio :	ON	

Under **Profile & Options**, you can alter various options:

- Camera Location: Enter the camera location. Click the Submit button to confirm this setting.
- **Display Options**: Check the checkbox to show the date, time, and camera location on the display screen.
- **Image Flip:** Check to rotate the display image 180 degrees.



• Frame Rate: Enter the required frame rate. Click the Submit button to confirm this setting.

Under Image Parameters, you can alter image output options.

Select the image compression rate, and resolution you require from the dropdown boxes.

Make any adjustments for brightness, contrast, saturation, sharpness, hue and gamma of the image using the + or - buttons.

Under Audio Parameters, check the checkbox to turn audio on or off.



4.1.5 Monitor

The 4-port monitor setting screen appears:

Configuration				
Camera1 IP:	192.168.1.184	: 80	☐ Enable	
Submit Login/Password:				
Camera2 IP:	0.0.0.0	: 80	Enable	
Submit Login/Password:				
Camera3 IP:	0.0.0.0	: 80	Enable	
Submit Login/Password:				
Camera4 IP:	0.0.0.0	: 80	Enable	
Submit Login/Password:				

Enter the IP address, port, login and password of each camera you wish to view and check the **Enable** checkbox.

Click the **Submit** button to confirm your settings.

Click the **Home** tab on the menu sidebar to return to the main screen, then click the **4- Port Viewer** to switch to 4-port viewing mode.



4.2 Advanced

The camera will function fine after the **Basic** configuration, however, you may wish to explore more advanced options. This section explains each parameter and setting procedures for advanced configuration of the camera. Move your mouse onto the **Advanced** button, and it will automatically pop up a submenu bar as below.

4.2.1 FTP

The FTP submenu enables you to configure all FTP (File Trans-fer Protocol) settings:

FTP Serve	r
Ftp Server	0.0.0.0
User Name	
Password	
Upload Path	/
☐ Enable	
Submit	
	Configuration Ftp Server User Name Password Upload Path □ Enable

When FTP alerting is enabled, the camera sends a still image to the ftp server every time the alert is triggered (see "Breach Manager" for details on how to acti-vate this option).

Enter your FTP address, along with username, password and folder to which the images will be uploaded.

Click the **Submit** button to save all changes.



Breach Manager		
Configuration		
Breach ID 0	Duration 3 sec (Max to 60 sec)	
Trigger	Motion	
Camera Location	IPCam 💌	
Action	▽ FTP	✓ MAIL
	DO None ON	DO Last 0 sec
	□MSG	
☑ Enable		
Submit		
Status		
Motion	FTP	Enable

All uploade files on FTP are in .jpg format.



4.2.2 Mail

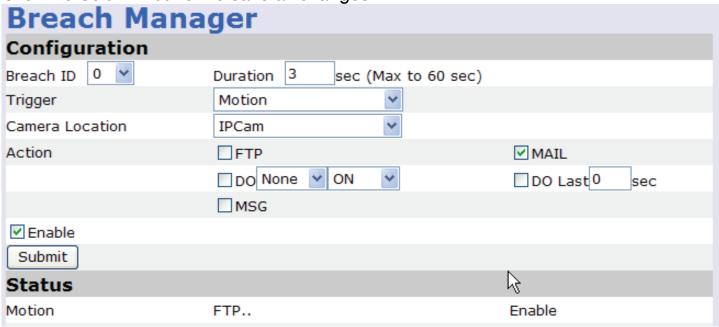
The Mail submenu enables you to configure all mail server set-tings:

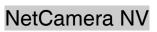
	,	 <u> </u>
Mail Server		
Configuration		
Mail Server	0.0.0.0	
User Name		
Password		
Mail Sender		
Mail Receiver		
Mail Subject		
☐ Enable		
Subnit		
. 0		

When mail alerting is enabled, the camera sends a still image to a specified email address every time the alert is triggered (see "Breach Manager" for details on how to activate this option).

Enter your mail server address, mail sender address, and mail receiver address (username and password for authentication).

Click the **Submit** button to save all changes.



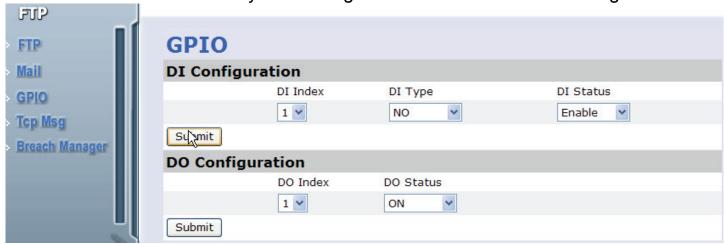






4.2.3 GPIO

The GPIO submenu enables you to configure all DI sensor and DO settings:



External DI sensors can be attached via the GPIO port at the rear of the camera. The external sensor can be normally open, or normally closed. A normally open sensor is like an open switch that closes when triggered. A normally closed sensor is like a closed switch that opens when triggered. This must be set correctly for an external sensor to function properly. You can connect up to two DI sensors to the camera.

An external DO alarm can also be attached to the camera via the GPIO port at the rear of the camera.

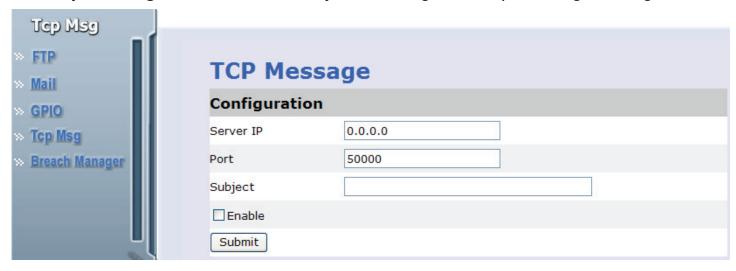
Under **DI Configuration**, select **Normal Open** or **Normal Close** for each DI1 and DI2. Click the **Submit** button to confirm all settings.

Under **DO Configuration**, select **Normal Open** or **Normal Close** for the DO alarm. Click the **Submit** button to confirm all settings.



4.2.4 TCP Message

The **Tcp Message** submenu enables you to configure all tcp message settings:

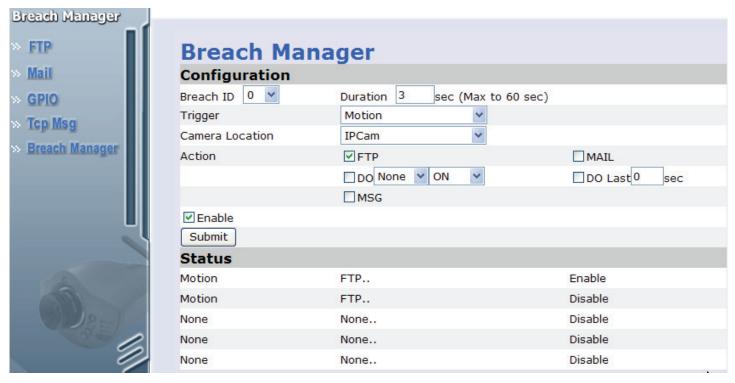


Enter the Server IP address, port and message subject. Check the **Enable** checkbox and click the **Submit** button to confirm all settings.



4.2.5 Breach Manager

The **Breach Manager** submenu enables you to configure all breach alert and motion detection settings:



You can configure the system to capture images when either the motion sensors, DI1 or DI2 sensors are activated.

To set a breach alert, do the following:

- Select a breach ID from the dropdown menu and enter the duration of the alert. You can configure up to five separate alerts at any one time.
- Select the alert trigger (DI1, DI2, MOTION, None) device and camera location from the dropdown menus.
- Check the radio buttons to select whether to be alerted by ftp upload, email, tcp message or external DO alarm. If external DO alarm is selected, choose the alarm type from the dropdown menu, select ON to activate the alarm, and enter the alarm length time in the DO Last field.
- Check the Enable checkbox and click the Submit button to confirm all settings.



The **Status** window lists all configured alert details; the first column lists the alarm trigger type, the second lists the action type, and the third displays whether the alert is enabled or disabled.



Chapter 5

Support

5.1 Support

If you have any problems with the IP Night Vision Camera, please consult this manual. If you have any other questions you can contact the Atlantis Land company directly at the following address:

Atlantis Land SpA Viale De Gasperi, 122 20017 Mazzo di Rho(MI)

Tel: +39. 02.93906085, +39. 02.93907634(help desk)

Fax: +39. 02.93906161

Email: info@atlantis-land.com or tecnici@atlantis-land.com

WWW: http://www.atlantis-land.com



APPENDIX A: Frequently Asked Questions

A.1 Using LEDs to Diagnose ProblemsThe LEDs are useful aides for finding possible problem causes.

A.1.1 LED Power

The PWR LED on the front panel does not light up.

	- F
Steps	CORRECTIVE ACTION
1	Make sure that the NetCamera NV's power adaptor is connected to the Access Point and plugged in to an appropriate power source. Use only the supplied power adaptor.
2	Check that the NetCamera NV and the power source are both turned on and the NetCamera NV is receiving sufficient power.
3	If the error persists, you may have a hardware problem. In this case, you should contact Atlantis Land SpA.

A.1.2 LED LAN

The LAN LED on the front panel does not light up.

Steps	CORRECTIVE ACTION
1	Check the Ethernet cable connections between the NetCamera NV and the computer or hub.
2	Check for faulty Ethernet cables.
3	Make sure your computer's Ethernet card is working properly.
4	If these steps fail to correct the problem, contact Atlantis Land SpA for assistance.



A.2 WEB

I cannot access the web configurator.

Steps	CORRECTIVE ACTION
1	Make sure you are using the correct IP address of the
	NetCamera NV. Check the IP address of the NetCamera NV (192.168.1.1).

The web configurator does not display properly.

Steps	CORRECTIVE ACTION
1	Make sure you are using Internet Explorer 5.0 and later versions.
2	Make sure you are using Internet Explorer 5.0 and ActiveX is installed.
3	Delete the temporary web files and log in again. In Internet Explorer, click Tools, Internet Options and then click the Delete Files button. When a Delete Files window displays, select Delete all offline content and click OK. (Steps may vary depending on the version of your Internet browser.)

A.3 Login

If you forget the password to log in

Steps	CORRECTIVE ACTION
1	The Reset function is to reset the setting back to factory
	default setting, once you press the "RESET" button within 10 seconds.
2	Before configurating this device, you need to know the following default settings:
	Password : admin
	IP Address : 192.168.1.1
	Subnet Mask : 255.255.255.0



A.4 General Questions

Question	What is an IP Security Night Vision Camera?
Answer	The IP Security Night Vision Camera is a standalone system connecting directly to an Ethernet or Fast Ethernet network. It is different from the conventional PC Camera, the IP Security Night Vision Camera is an all-in-one system with built-in CPU and web-based solutions providing a low cost solution that can transmit high quality video images for monitoring. The IP Security Night Vision Camera can be managed remotely, accessed and controlled from any PC/Notebook over the Intranet or Internet via a web browser.
Question	What is the maximum number of users that can be allowed to access the IP Security Night Vision Camera simultaneously?
Answer	Maximum number of users that can log onto the IP Security Night Vision Camera at the same time is 20. Please keep in mind the overall performance of the transmission speed will slow down when many users are logged on.
Question	What algorithm is used to compress the digital image?
Answer	The camera utilizes the MJPEG image compression technology providing high quality images for users.

Question	Can the IP Security Night Vision Camera be used out-doors?
Answer	The IP Security Night Vision Camera is not weatherproof. It needs to be equipped with a weatherproof case to be used outdoors and it is not recommended.



·	What network cabling is required for the IP Security Night Vision Camera?
Answer	The IP Security Night Vision Camera uses Category 5 UTP cable allowing 10 Base-T and 100 Base-T networking.

	Can the IP Security Night Vision Camera be setup as a PC-cam on the computer?
Answer	No, the IP Security Night Vision Camera is an IP Security Night Vision Camera used only on Ethernet and Fast Ethernet network.

Question	Can the IP Security Night Vision Camera be connected on the network if it consists of only private IP addresses?
Answer	The IP Security Night Vision Camera can be connected to LAN with private IP addresses.

	Can the IP Security Night Vision Camera be installed and work if a firewall exists on the network?
Answer	If a firewall exists on the network, port 80 is open for ordinary data communication.



APPENDIX B: Trouble Shooting

This chapter covers potential problems and the corresponding remedies.

Question	I cannot access the IP Security Night Vision Camera from a web browser.
Answer	The possible cause might be the IP Address for the IP Security Night Vision Camera is already being used by another device. To correct the possible problem, you need to first disconnect the IP Security Night Vision Camera from the network. Then run the PING utility. The PING command can determine whether a specific IP address is accessible by sending a packet to the specific address and waiting for a reply. It can also provide a very useful tool to confirm if the IP address conflicts with the camera over the network. Follow the step-by-step procedure below to utilize the PING command. However, you must disconnect the camera from the network first. Start a DOS window. Type ping 192.168.1.1, where 192.168.1.1 is the IP address of the camera. The succeeding replies as illustrated below will provide useful explanation to the cause of the problem with the camera IP address.
Ougation	Leannet coopee the ID Coopeity Night Vision Comeye from

Question	I cannot access the IP Security Night Vision Camera from a web browser.
Answer	Another possible reason is the IP Address is located on a different subnet. To fix the problem, run the PING utility. If the utility returns "no response" or similar, the finding is probably correct, then you should proceed as follows:-
	In Windows 95/98/2000 and Windows NT. double check the IP



Address of the IP Security Night Vision Camera is within the same subnet as your workstation.

Click "Start", "Setting", "Control Panel", and the "Network" icon. Select TCP/IP from the "Network" dialog box and from the "TCP/IP Properties" dialog box click "Specify an IP address". If the IP Security Night Vision Camera is situated on a different subnet than your workstation, you will not be able to set the IP address from this workstation. To verify make sure the first 3 sections of the IP address of the IP Security Night Vision Camera corresponds to the first 3 sections of the workstation. Therefore the IP address of the IP Security Night Vision Camera must be set from a workstation on the same subnet.

Question	I cannot access the IP Security Night Vision Camera from a web browser.
Answer	Other possible problems might be due to the network cable. Try replacing your network cable. Test the network interface of the product by connecting a local computer to the unit, utilizing a standard Crossover (hub to hub) Cable. If the problem is not solved the IP Security Night Vision Camera might be faulty.

Question	Why does the Power LED not light up constantly?
	The power supply used might be at fault. Confirm that you are using the provided power supply DC 5V for the IP Security Night Vision Camera and verify that the power supply is well connected.



Question	Why does the Link LED not light up properly?
Answer	 There might be a problem with the network cable. To confirm that the cables are working, PING the address of a know device on the network. If the cabling is OK and your network is reachable, you should receive a reply similar to the following (bytes = 32 time = 2 ms). The network device utilized by the IP Security Night Vision Camera is not functioning properly such as hubs or switches. Confirm the power for
	the devices are well connected and functioning.
Question	Why does the IP Security Night Vision Camera work locally but not externally?
Answer	 Might be caused from the firewall protection. Need to check the Internet firewall with your system administrator.
	The default router setting might be a possible reason. Need to double check if the configuration of the default router settings is required.
Question	There is bad focus on the IP Security Night Vision Camera, what should be done?
Answer	You need to adjust the IP Security Night Vision Camera focus manually as described in Adjust IP Security Night Vision Camera Focus.

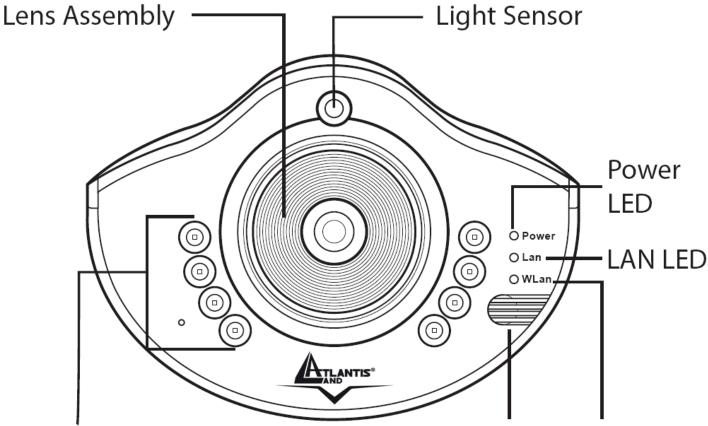


Question	There is poor image quality, how can I improve the image?
Answer	 A probable cause might be the incorrect display properties configuration for your desktop. You need to open the Display Properties on your desktop and configure your display to show at least 65'000 colors for example at least 16-bit. Applying only 16 or 256 colors on your computer
	will produce dithering artifacts in the image.
	 The configuration on the IP Security Night Vision Camera image display is incorrect. Through the Web Configuration Image section you need to adjust the image related parameter for improve images such as brightness, contrast, hue and light frequency. Please refer to the Web Configuration section for detail information.
Question	There are no images available through the web browser?
Answer	The ActiveX might be disabled. If you are viewing the images from Internet Explorer make sure ActiveX has been enabled in the Internet Options menu.
Overstien	
Question	Can I capture still images from the NetCamera NV?
Answer	Yes you are able to capture still images with the snapshot function directly into web server integrated into NetCamera NV. Please refer to section 3.3.



APPENDIX C: Adjusting the Camera Focus

To help you get the best image quality, keep in mind that while adjusting the NetCamera NV (Adjust by turning clockwise or counter-clockwise)focus you can preview the image quality from your Web browser.



Night Vision IR LEDs

Microphone WLAN LED



You can further adjust the image quality through the Web Configuration under Setup->Basic->Video. Please refer to section 4.1.4 for further details.



Direct exposure to sunlight may cause permanent damage to the device. Therefore do not expose the Internet Camera's lens directly to sunlight. The NetCamera NV is designed for indoor usage.

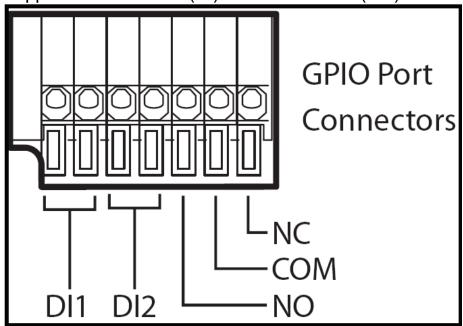


APPENDIX D: GPIO

Its back panel contains 3 pairs of connectors (2 input and 1 output) allowing the camera to communicate with different elements of a building, such as electric doors and light switches or security related devices such as alarms.

Most of its applications are security. Warnings to the one break into house/building. Some people user it to setting fire alarms.

NetCamera NV supports 2 sensors in (DI) and 1 alarm out (DO).



External DI sensors can be attached via the GPIO port at the rear of the camera. The external sensor can be normally open, or normally closed. A normally open sensor (NO/COM) is like an open switch that closes when triggered. A normally closed sensor (NC/COM) is like a closed switch that opens when triggered. This must be set correctly for an external sensor to function properly. You can connect up to two DI sensors to the camera.

An external DO alarm can also be attached to the camera via the GPIO port at the rear of the camera.

Under **DI Configuration**, select **Normal Open** or **Normal Close** for each DI1 and DI2. Click the **Submit** button to confirm all settings.

Under **DO Configuration**, select **Normal Open** or **Normal Close** for the DO alarm. Click the **Submit** button to confirm all settings.



NO-normal opened	Trigged
	•
NC-normal closed	Trigged
•	



A normally open sensor (NO/COM) is like an open switch that closes when triggered. In this case the Motion Detection switch on a spot.

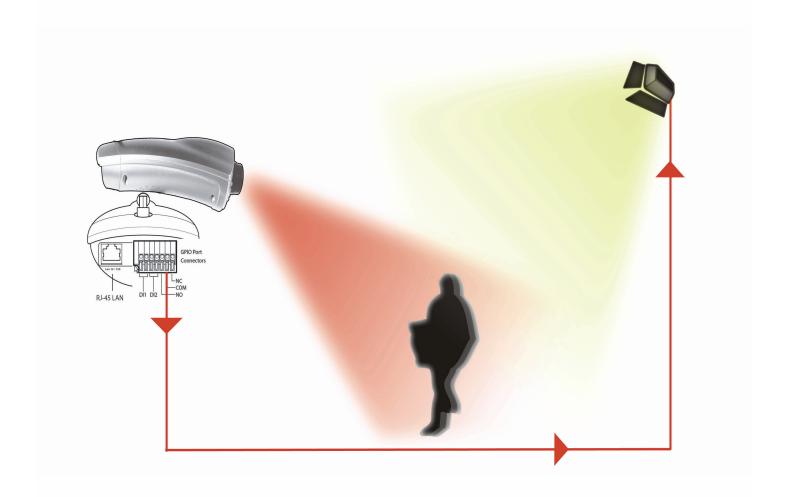




Please check the maximum Voltage/Ampere (DO): Max 24VDC/1A Max 125VAC /0.5A

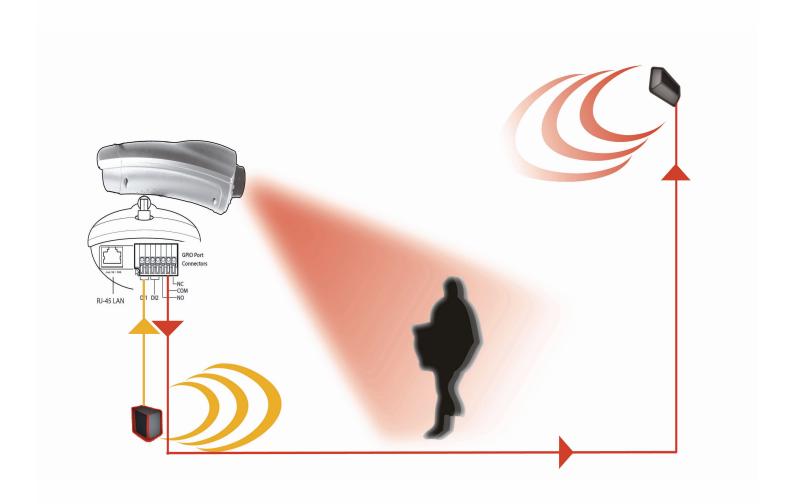


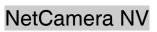
For example, entrance guarding (DO)





For example, entrance guarding (DO and DI)









APPENDIX E: Glossary of Terms

NUMBERS

10BASE-T is Ethernet over UTP Category III,IV, or V unshielded

twisted-pair media.

100BASE-TX The two-pair twisted-media implementation of 100BASE-T is

called 100BASE-TX.

802.11g An IEEE standard for wireless local area networks. It offers

transmissions speeds at up to 54 Mbps in the 2.4-GHz band.

Α

Access point It is the hardware interface between a wireless LAN and a wired

LAN. The access point attaches to the wired LAN through an

Ethernet connection.

Applet Applets are small Java programs that can be embedded in an

HTML page. The rule at the moment is that an applet can only make an Internet connection to the computer form that the applet

was sent.

ASCII American Standard Code For Information Interchange, it is the

standard method for encoding characters as 8-bit sequences of

binary numbers, allowing a maximum of 256 characters.

ARP Address Resolution Protocol. ARP is a protocol that resides at

the TCP/IP Internet layer that delivers data on the same network

by translating an IP address to a physical address.

AVI Audio Video Interleave, it is a Windows platform audio and video

file format.



В

BOOTP

Bootstrap Protocol is an Internet protocol that can automatically configure a network device in a diskless workstation to give its own IP address.

C

Communication

Communication has four components: sender, receiver, message, and medium. In networks, devices and application tasks and processes communicate messages to each other over media. They represent the sender and receivers. The data they send is the message. The cabling or transmission method they use is the medium.

Connection

In networking, two devices establish a connection to communicate with each other.

D

DHCP

Dynamic Host Configuration Protocol was developed by Microsoft a protocol for assigning dynamic IP addresses to devices on a network. With dynamic addressing, a device can have a different IP address every time it connects to the network. In some systems, the device's IP address can even change while it is still connected. DHCP also supports a mix of static and dynamic IP addresses. This simplifies the task for network administrators because the software keeps track of IP addresses rather than requiring an administrator to manage the task. This means a new computer can be added to a network without the hassle of manually assigning it a unique IP address. DHCP allows the specification for the service provided by a router, gateway, or other network device that automatically assigns an IP address to any device that requests one



DNS

Domain Name System is an Internet service that translates domain names into IP addresses. Since domain names are alphabetic, they're easier to remember. The Internet however, is really based on IP addresses every time you use a domain name the DNS will translate the name into the corresponding IP address. For the domain example. www.network camera.com might translate to 192.167.222.8.

Ε

Enterprise network An enterprise network consists of collections of networks connected to each other over a geographically dispersed area. The enterprise network serves the needs of a widely distributed company company's mission-critical and operates the applications.

Ethernet

The most popular LAN communication technology. There are a variety of types of Ethernet, including 10 Mbps (traditional Ethernet), 100 Mbps (Fast Ethernet), and 1,000 Mbps (Gigabit Ethernet). Most Ethernet networks use Category 5 cabling to carry information, in the form of electrical signals, between devices. Ethernet is an implementation of CSMA/CD that operates in a bus or star topology.

F

Fast Ethernet

Fast Ethernet, also called 100BASE-T, operates at 10 or 100Mbps per second over UTP, STP, or fiber-optic media.

Firewall

Firewall is considered the first line of defense in protecting private information. For better security, data can be encrypted. A system designed to prevent unauthorized access to or from a private network. Firewalls are frequently used to prevent unauthorized Internet users from accessing private networks connected to the Internet, especially Intranets all messages entering or leaving the





intranet pass through the firewall, which examines each message and blocks those that do not meet the specified security criteria.

G

Gateway A gateway links computers that use different data formats

together.

Group Groups consist of several user machines that have similar

characteristics such as being in the same department.

HEX

Н

Short for hexadecimal refers to the base-16 number system, which consists of 16 unique symbols: the numbers 0 to 9 and the letters A to F. For example, the decimal number 15 is represented as F in the hexadecimal numbering system. The hexadecimal system is useful because it can represent every byte (8 bits) as two consecutive hexadecimal digits. It is easier for humans to read hexadecimal numbers than binary numbers.

I

IEEE Institute of Electrical and Electronic Engineers.

Intranet This is a private network, inside an organization or company, that

uses the same software you will find on the public Internet. The only difference is that an Intranet is used for internal usage only.

Internet The Internet is a globally linked system of computers that are

logically connected based on the Internet Protocol (IP). The Internet provides different ways to access private and public

information worldwide.

Internet address To participate in Internet communications and on Internet

Protocol-based networks, a node must have an Internet address



that identifies it to the other nodes. All Internet addresses are IP addresses

IP

Internet Protocol is the standard that describes the layout of the basic unit of information on the Internet (the *packet*) and also details the numerical addressing format used to route the information. Your Internet service provider controls the IP address of any device it connects to the Internet. The IP addresses in your network must conform to IP addressing rules. In smaller LANs, most people will allow the DHCP function of a router or gateway to assign the IP addresses on internal networks.

IP address

IP address is a 32-binary digit number that identifies each sender or receiver of information that is sent in packets across the Internet. For example 80.80.80.69 is an IP address, it is the closet thing the Internet has to telephone numbers. When you "call" that number, using any connection methods, you get connected to the computer that "owns" that IP address.

ISP

Internet Service Provider, is a company that maintains a network that is linked to the Internet by way of a dedicated communication line. An ISP offers the use of its dedicated communication lines to companies or individuals who can't afford the high monthly cost for a direct connection.

J

JAVA

Java is a programming language that is specially designed for writing programs that can be safely downloaded to your computer through the Internet without the fear of viruses. It is an object-oriented multi-thread programming best for creating applets and applications for the Internet, Intranet and other complex, distributed network.

L



LAN

Local Area Network a computer network that spans a relatively small area sharing common resources. Most LANs are confined to a single building or group of buildings.

Ν

NAT

Network Address Translator generally applied by a router, that makes many different IP addresses on an internal network appear to the Internet as a single address. For routing messages properly within your network, each device requires a unique IP address. But the addresses may not be valid outside your network. NAT solves the problem. When devices within your network request information from the Internet, the requests are forwarded to the Internet under the router's IP address. NAT distributes the responses to the proper IP addresses within your network.

Network

A network consists of a collection of two or more devices, people, or components that communicate with each other over physical or virtual media. The most common types of network are:

LAN – (local area network): Computers are in close distance to one another. They are usually in the same office space, room, or building.

WAN – (wide area network): The computers are in different geographic locations and are connected by telephone lines or radio waves.

NWay Protocol

A network protocol that can automatically negotiate the highest possible transmission speed between two devices.

P

PING Packet Internet Groper, a utility used to determine whether a



specific IP address is accessible. It functions by sending a packet to the specified address and waits for a reply. It is primarily used to troubleshoot Internet connections.

PPPoE

Point-to-Point Protocol over Ethernet. PPPoE is a specification for connecting the users on an Ethernet to the Internet through a common broadband medium, such as DSL or cable modem. All the users over the Ethernet share a common connection.

Protocol

Communication on the network is governed by sets of rules called protocols. Protocols provide the guidelines devices use to communicate with each other, and thus they have different functions. Some protocols are responsible for formatting and presenting and presenting data that will be transferred from file server memory to the file server's net work adapter Others are responsible for filtering information between networks and forwarding data to its destination. Still other protocols dictate how data is transferred across the medium, and how servers respond to workstation requests and vice versa. Common network protocols responsible for the presentation and formatting of data for a network operating system are the Internetwork Packet Exchange (IPX) protocol or the Internet Protocol (IP). Protocols that dictate the format of data for transferors the medium include token-passing and Carrier Sense Multiple Access with Collision Detection (CSMA/CD), implemented as token-ring, ARCNET, FDDI, or Ethernet. The Router Information Protocol (RIP),a part of the Transmission Control Protocol/Internet Protocol (TCP/IP) suite, forwards packets from one network to another using the same network protocol.

R

RARP

Reverse Address Resolution Protocol, a TCP/IP protocol that allows a physical address, such as an Ethernet address, to be translated into an IP address.

RJ-45

RJ-45 connector is used for Ethernet cable connections.





Router

A router is the network software or hardware entity charged with routing packets between networks.

S

Server It is a simple computer that provides resources, such as files or

other information.

SMTP The Simple Mail Transfer Protocol is used for Internet mail.

SNMP Simple Network Management Protocol. SNMP was designed to

provide a common foundation for managing network devices.

Station In LANs, a station consists of a device that can communicate data

on the network. In FDDI, a station includes both physical nodes and addressable logical devices. Workstations, single-attach stations, dual-attach stations, and concentrators are FDDI

stations.

Subnet mask In TCP/IP, the bits used to create the subnet are called the subnet

mask.

Т

(TCP/IP) Transmission Control Protocol/Internet Protocol is a widely used

transport protocol that connects diverse computers of various transmission methods. It was developed y the Department of Defense to connect different computer types and led to the

development of the Internet.

Transceiver A transceiver joins two network segments together. Transceivers

can also be used to join a segment that uses one medium to a segment that uses a different medium. On a 10BASE-5 network, the transceiver connects the network adapter or other network device to the medium. Transceivers also can be used on 10BASE-





2 or 10BASE-T networks to attach devices with AUI ports.

U

UDP The User Datagram Protocol is a connectionless protocol that

resides above IP in the TCP/IP suite

ULP The upper-layer protocol refers to Application Layer protocols

such as FTP, SNMP, and SMTP.

User Name The USERNAME is the unique name assigned to each person

who has access to the LAN.

Utility It is a program that performs a specific task.

UTP Unshielded twisted-pair. UTP is a form of cable used by all access

methods. It consists of several pairs of wires enclosed in an

unshielded sheath.

W

WAN Wide-Area Network. A wide-area network consists of groups of

interconnected computers that are separated by a wide distance and communicate with each other via common carrier

telecommunication techniques.

Windows Windows is a graphical user interface for workstations that use

DOS.

Workgroup A workgroup is a group of users who are physically located

together and connected to the same LAN, or a group of users who are scattered throughout an organization but are logically connected by work and are connected to the same network group.



Workstations

Workstation refers to the intelligent computer on the user's desktop. This computer may be an Intel-based PC, a Macintosh, or a UNIX-based workstation. The workstation is any intelligent device a user works from.



APPENDIX F: Technical Features

TECHNICAL FEATURES

CMOS Sensor

Number of effective pixels: 307200 pixels (VGA)

Resolution: 640 x 480 pixel

Lens Type: C3 Mount Lens (removable)

Focal length: f=3.6mm

F-number: F2.0

Focus Extent: 20 cm - ∞

Image (Video Setting)

Image compression: MJPEG

Frame rate: 30fps@QQVGA, 25fps@QVGA, 15fps@VGA

Compression Rate selection: 2 levels

Video resolution: 160x112, 320x240, 640x480

Upside down and Mirror: Yes

Brightness/ Contrast /Saturation/Sharpness/HUE/Gamma control

Night Vision: 8 x IR LEDs (auto/manual)

Audio

MIC Input: Internal MIC (mono) Audio Compression: PCM 64Kbit

Hardware Interface

LAN Connector: One RJ-45 port to connect to 10/100Mbps Ethernet, auto-sensed

LED Indicator: Power LED, LAN

Power Supply: DC 5V, switching type GPIO: 2 x Sensor IN / 1 x Sensor OUT

Communication Support

Communication: 10/100Mbps Ethernet

Communication protocol: HTTP, TCP/IP, UDP, ARP, ICMP, DHCP, PPPoE, DDNS,

DNS, FTP

System

CPU: MIPS/JPEG encode chip (VGA)



System Requirements

Local Area Network: 10Base-T Ethernet or 100Base TX Fast Ethernet CPU: Intel Celeron 1.5GHz or above (Intel Pentium 4 is preferred)

Memory Size: 128 MB (256 MB recommended)

VGA card resolution: 800x600 or above Internet Explorer 5.0 or above (ActiveX)

Advanced Features

Hardware motion detection and send e-mail (with snap shot) when motion detected

GPIO: Sensor IN, Alarm Out

Single Frame Image Snap shot (manual)

Record (AVI, manual)

FTP / PPPoE / Dynamic DNS Clients

Operating environment

Operating temperature: 5°C ~ 30°C Storage temperature: -25°C ~ 50°C Humidity: 20% ~ 80% non-condensing

Package Contents:

One IP Security Night Vision Camera

One Quick Installation Guide

One Installation CDRom

One Metal Clip (wall mounting)

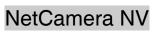
One DC Power Adapter

One RJ-45 Ethernet Cable

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Performance and Throughput are influenced by many factors (interference, noise, environments)







Atlantis Land S.p.A.
Viale De Gasperi, 122
Mazzo di Rho – MI – Italy
info@atlantis-land.com
sales@atlantis-land.com

Where solutions begin