

TeleEye  NF Series

Network Camera

NF610

Installation Guide



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Version 1.1

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Features and specifications are subject to change without prior notice.

FCC Statement on Class B

WARNING

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.

Table of Contents

PREFACE	
<u>BEFORE YOU BEGIN</u>	1
SECTION 1	
<u>INTRODUCTION</u>	4
• Features	5
SECTION 2	
<u>INTERFACE DESCRIPTION</u>	
• Model: NF610	6
SECTION 3	
<u>FIRST TIME SET UP OF THE NETWORK CAMERA</u>	
• Network Camera Setup with IP Setup Utility	8
• Network Camera Setup with Crossover Ethernet Cable	10
• Network Camera Setup with Built-in Web-based Configuration	10
SECTION 4	
<u>SYSTEM CONFIGURATION AND INSTALLATION</u>	
• General System Configuration	12
• What you need	
• General Configuration of Network Camera	14
A1. For Internal LAN Access	17
A2. For Broadband Internet Connection with Static IP	18
SECTION 5	
<u>NORMAL OPERATIONS OF THE NETWORK CAMERA</u>	
• Using Built-in Web Server	19

SECTION 6

GENERAL TERMS DISCUSSION

• Registration Checking	22
• Video Mode	22
• Built-in Web Server	22
• Site Monitoring Method	23

SECTION A

APPENDIX

• IP Address Setup for Window 98/ME	24
• IP Address Setup for Window NT/2000/XP	27
• Router Configuration	38

SECTION B

SPECIFICATIONS

• Model: NF610	29
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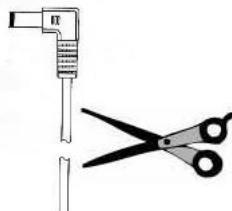
PREFACE

BEFORE YOU BEGIN

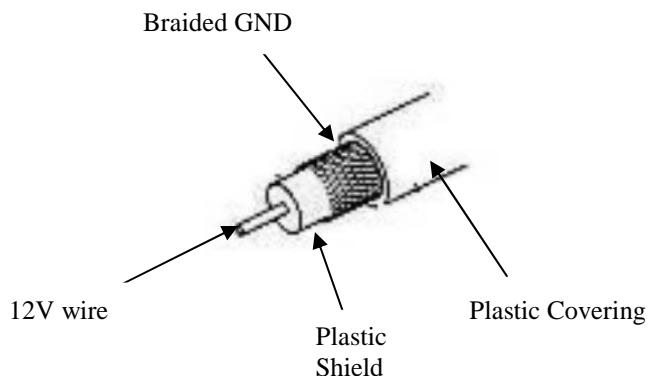
Modification of the Power Adapter

The connector of the power adapter might require some modifications before connecting it to the Network Camera.

1. Use a cutting tool to cut off the connector of the adapter



2. Strip the plastic covering off from the cable. You should see the cable is of the coaxial type



3. After stripping off the plastic cover, you should see the braided GND wrapping around the plastic shield. Unwrap the braided GND and twist it into a single wire.

4. Strip off the plastic shield to reveal the 12V wire

5. Now, you should have a 12V wire and a separated GND wire.

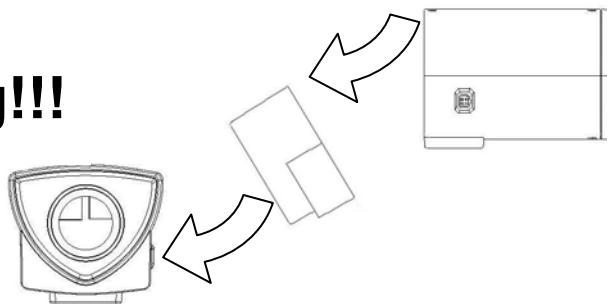
CAUTIONS: NEVER SHORT THE 12V AND GND WIRES. With the power on, damages may be incurred to the adapter.

Repositioning of the Mounting Plate

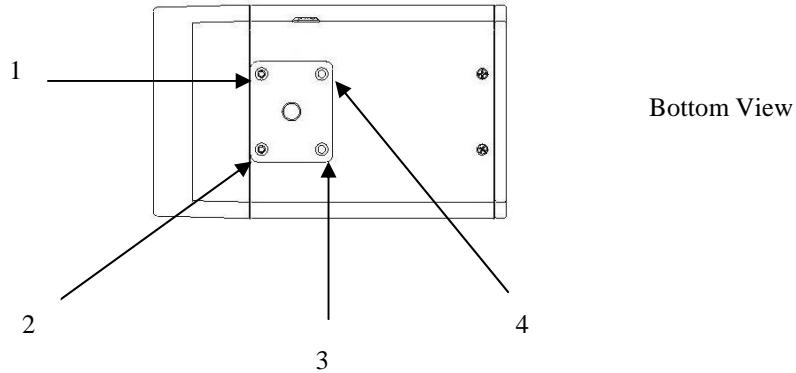
At the bottom of the Network Camera is a mounting plate. The mounting plate can also be removed and re-attached to the top of the Network Camera. The following is the procedure for repositioning the mounting plate from the bottom to the top of the Network Camera.

IMPORTANT: TO PREVENT DISMANTLING OF THE NETWORK CAMERA, DO NOT SIMPLY REMOVE ALL THE SCREWS FROM THE MOUNTING PLATE.
Please follow the procedures below.

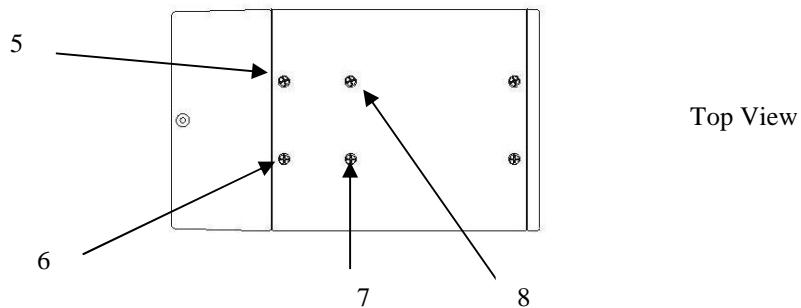
Wrong!!!



1. Remove all the screws (1 – 4) from the bottom of the Network Camera.



2. Take off the plate.
3. Remove the 7th, and the 8th screws at the top of the Network



Before You Begin

4. Re-secure the screws just removed to position 1 and 2 at the bottom of the Network Camera. This is to prevent the dismantling of the camera.
5. Remove the screws in position 5 and 6.
6. Re-attach the screws just removed to position 3 and 4 at the bottom of the Network Camera
7. Position and align the mounting plate to the screw holes at the top of the camera
8. Put on the rest of the screws to fasten the plate to the camera.

Before You Begin

SECTION 1

INTRODUCTION

The **TeleEye III+** Network Camera NF 610 is a brand new member of the **TeleEye III+** Network CCTV family. It combined the power of high performance imaging technology and swift video transmission into a single module.

With the built-in web server, remote video surveillance can readily be conducted with standard web browsers over the Internet or LAN. The availability of simple connections with the Internet or LAN makes the construction of scalable network surveillance easy. Further enhanced with the proprietary **sureLINK** technology, low cost dynamic IP broadband Internet connection is also supported.

The Network Camera also comes with Intelligent Event Handling. With the embedded event handling mechanism, the Network Camera is prepared to accept the challenges of real-life situation such as alarm trigger or system failure. Actions will be taken automatically by the camera to counter each different scenario.

With its many powerful features, remote video monitoring has never been made easier than before. Simply connect to the Network Camera anytime, anywhere, and be ready to view some high quality live streaming video, at your convenience.

Features

- 1/3" colour CCD
- Illumination 1 Lux
- Back light compensation
- Flexible connections – Internet, LAN, ADSL and cable modem
- Real time video transmission up to 30 fps over LAN for NTSC; up to 25 fps over LAN for PAL
- Resolution up to 640x480 pixels
- Support static and dynamic IP
- Built-in web server
- Event-driven recording
- Composite video output
- Web video development tool
- Mobile video on pocket PC
- Event management
- Pre- & post-alarm recording
- Multiple users video access
- Single- & multi-site monitoring
- Internet clock synchronization

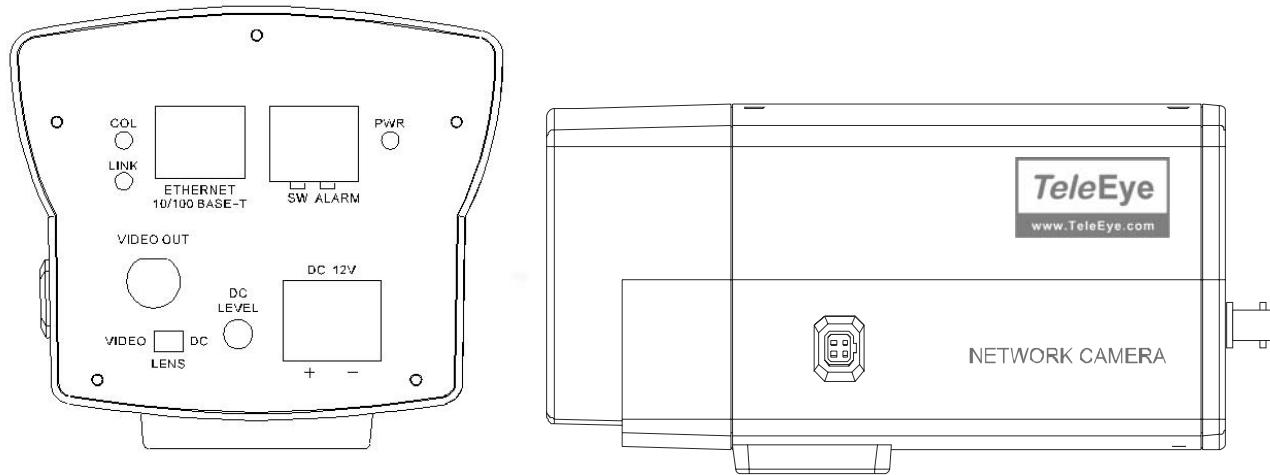
Introduction

SECTION 2

INTERFACE DESCRIPTION

Model: NF610

The rear panel of the **TeleEye III+ Network Camera NF610** is shown below:



Functional Description of NF610

Collision & Link LED Status

- COL LED: when on, indicates that collision is occurring on the network
- LINK LED: when on, indicates that **TeleEye III+ Network Camera** is connecting to the network and ready to function

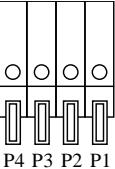
Ethernet Socket (10/100 Base-T)

- This socket is used for connecting **TeleEye III+ Network Camera** to the corporate computer network (e.g. LAN)

ALARM & SWITCH Port

- This port is used for connecting the alarm sensor input
- It can also be remotely controlled by the Reception Software

Interface Description

	PIN	Signal
	P1	PIN for alarm device (NC / NO)
	P2	Common GROUND
	P3	Dry Contact
	P4	Dry Contact

Power LED

- PWR LED: when on, indicates that the Network Camera has been power up successfully

VIDEO OUT Connector

- Standard BNC connector for color video
- A composite video signal should be supplied from this connector

Power Terminal

- A power terminal for the connection to the power supply (12V D.C.)

Interface Description

SECTION

3

FIRST TIME SETUP OF THE NETWORK CAMERA

Before installing the Network Camera, its IP address must be set so that an Ethernet connection can be established to the Network Camera from a computer. In order to do this, either the IP address of the Network Camera or the IP address of the PC should be modified. This is very important since the Network Camera has default IP address, **192.168.0.2**, which might not be suitable for your existing network.

You can use either **IP Setup Utility** or **Crossover Ethernet Cable** for configuration of Network Camera.

Network Camera Setup with IP Setup Utility

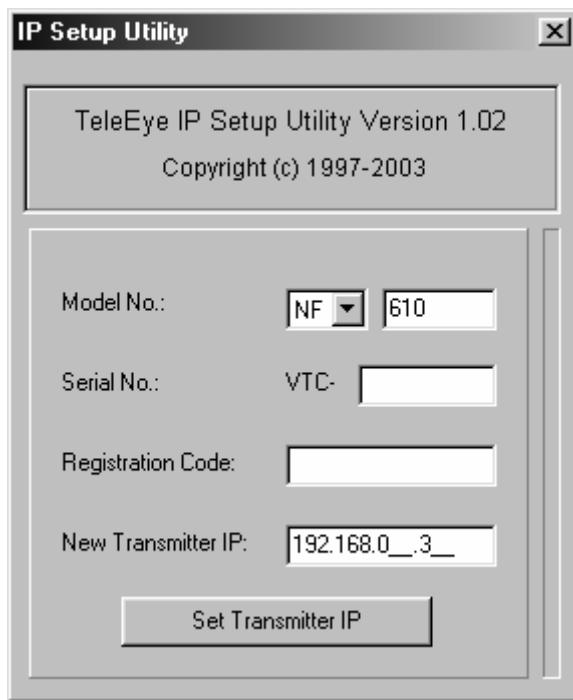
IP Setup Utility is a simple, user-friendly software to set a new IP address to a Network Camera. To assign a new, valid IP address to the Network Camera, follow the steps described below.

Step 1: Connect the Network Camera to your network by connecting a straight Ethernet cable from the Network Camera Ethernet Port to a hub/switch. Alternatively, use a crossover Ethernet cable to direct connect a computer with the Network Camera alone. Actually, there are different approaches in installing the Network Camera to different types of network. For details on installing Network Camera, please refer to [Section 4 System Configuration and Installation](#).

IMPORTANT: IP Setup Utility can only be used to configure the Network Camera IP address within the first **20 MINUTES** immediately after the Network Camera is power up. After the first 20 minutes expired, IP Setup Utility cannot configure the Network Camera IP at all. After this time frame has been expired, you must turn off the Network Camera by disconnecting the power source from the Network Camera, then power up the Network Camera again to regain the 20 minutes time window.

Step 2: Power on the Network Camera. The green power indicator light should be on. The **LINK** indicator light should also be on. If not, check the power and the network connection between the Network Camera and the hubs/switches/computer.

Step 3: Run IP Setup Utility from your computer.



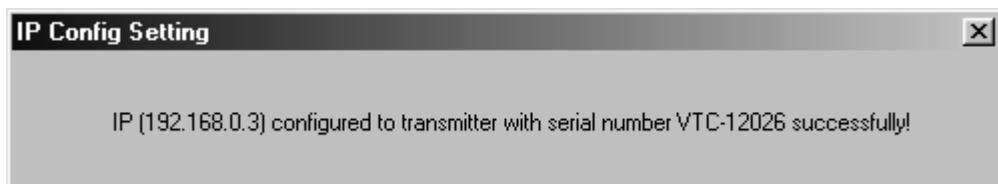
Step 4: Select “NF” and enter Model No. (e.g. NF-610).

Step 5: Enter the Network Camera Serial Number and Registration Code to the fields provided.

Step 6: Insert a new, valid IP address of your desire to the provided field (e.g. 192.168.0.3).

Step 7: Click on **Set Transmitter IP** button to set the Network Camera to the new IP address.

Step 8: The program should now searching through the network to verify that the IP address you requested is not already in use. The indicator bar on the right side shows the progress of the current operation. If the setup is successful, the following window message should appear.



The Network Camera should have a valid IP address by now. You can continue to setup Network Camera using built-in web-based configuration.

First Time Setup of Network Camera

Network Camera Setup with Crossover Ethernet Cable

Your computer is required to change the IP address (e.g. 192.168.0.3). Please refer to Section A Appendix for a detailed descriptions for IP configuration on different operating systems.

If your computer has changed the IP address, you can connect Network Camera by plugging Crossover Ethernet Cable from your computer to Ethernet port of Network Camera. You can continue to setup Network Camera using built-in web-based configuration.

Network Camera Setup with Built-in Web-based Configuration

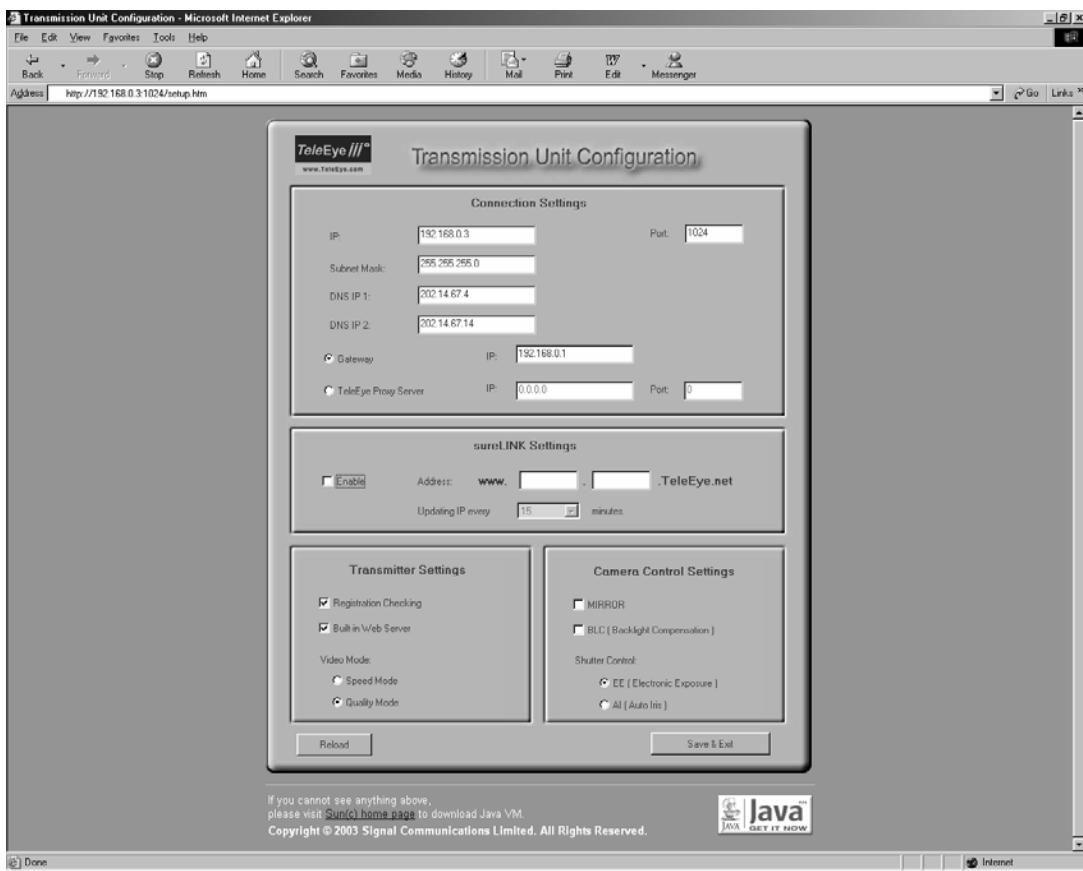
After you have assigned an IP address to your Network Camera, you can access Network Camera configuration page in your web browser (e.g. <http://192.168.0.3:1024/setup.htm>). You might need to enable Java in your web browser or to download the latest version of the Java VM (go to <http://java.sun.com/getjava/index.html>).



To enter Network Camera configuration, follow the steps below:

Step 1: Enter default administrator password “**000000**” and click on **Enter** button. The following page will be displayed and loaded with current Network Camera Settings.

First Time Setup of Network Camera



Step 2: You can change the connection, **sureLINK**, transmitter properties and camera control settings. You can reload the configuration by clicking **Reload** button. Click on **Save & Exit** button to save the changes.

The description of each setting type is listed below:

Setting Type	Description
Connection Settings	You can set IP address, port, subnet mask, gateway and DNS as well as TeleEye Proxy Server settings. For a detailed description, please refer to section “ <i>System Configuration and Installation</i> ”.
sureLINK Settings	You can enable sureLINK support in Network Camera. For a detailed description, please refer to section “ <i>sureLINK Technology</i> ”.
Transmitter Settings	You can setup Network Camera for the other functions. For a detailed description, please refer to section “ <i>General Terms Discussion</i> ”.

First Time Setup of Network Camera

SECTION**4**

SYSTEM CONFIGURATION AND INSTALLATION

This section will discuss how to setup the Network Camera and modify its settings in details. Installations of the Network Camera with different types of network will also be discussed. Specifically, installations with the following types of network will be discussed.

Network Types:

- A1. For Internal LAN Access
- A2. For Broadband Internet Connection with Static IP
- B1. For Broadband Internet Connection with Dynamic IP using Router
- B2. For Broadband Internet Connection with Dynamic IP using Broadband Dialer

Procedures that are common to all configurations and installations approaches will be discussed first followed by the steps that are specific to each particular network setup. The configuration utility is web-based. Furthermore, it is assumed that a valid IP address has been assigned to the Network Camera and a connection can be established to the Network Camera.

What You Need

To configure and set up the Network Camera, the following basic items are required:

■ **Hardware:**

- **TeleEye III+ Network Camera**
This is what you have purchased.
- **PC - Minimum Requirement:**
 - Pentium II 350 MHz or above
 - Windows 98/ME/NT/2000/XP Operating System
 - 64MB RAM for Windows 98/ME, 128MB RAM for Windows NT/2000/XP
- **Power Adaptor**
A 12 VDC power adaptor.

System Configuration and Installation

- RJ-45 Network Cable

It is a shielded, straight-through RJ-45 network cable. The cable will connect the **TeleEye III+** Network Camera to the hub of the **LAN** for typical application.

- Crossover Network Cable

Used to connect between a router and PC or the Network Camera

- **Software**

- Web-browser

A standard web-browser such as IE, and Netscape...etc.

- Information

- Valid IP address for the Network Camera.
 - Administrator Password for the Network Camera (The default administrator password is “000000”. You can change it in the Reception Software)
 - Port number for the Network Camera (default value is 1024)
 - Your network subnet mask
 - Your network gateway address (required by Network Types B1 & B2)
 - 2 DNS addresses (Please ask your ISP for this information; required by Network Types B1 & B2)

General Configuration of Network Camera

After you prepared all the things discussed in previous section, you should be ready to configure the Network Camera.

Note: Make sure the computer in use is capable of connecting to the Internet or the Local Area Network (LAN). Also make sure your browser supports Java.

Step 1: Plug the RJ-45 network cable into the socket on the hub's/switch's rear panel. Afterwards, plug the other end of the network cable into the socket on the **TeleEye III+ Network Camera's Ethernet Port**.

Step 2: Power on the hub/switch

Step 3: Another way to connect to the Network Camera is to attach a crossover Ethernet cable from a computer to the Network Camera directly.

Step 4: Turn on the **TeleEye III+ Network Camera**. The green POWER light should be activated if the *Network Camera* is successfully turned on. The LINK indicator light should also be on if it is connected to the network. If the POWER light remains off, check the power supply and connection. If the LINK light remains off, check the network connection.

Step 5: If a valid IP address has not been assigned to the Network Camera, run IP Setup Utility from your computer.

Step 6: Enter the Network Camera Serial Number and Registration Number to the fields provided.

Step 7: Insert a valid, new IP address of your desire to the provided field.

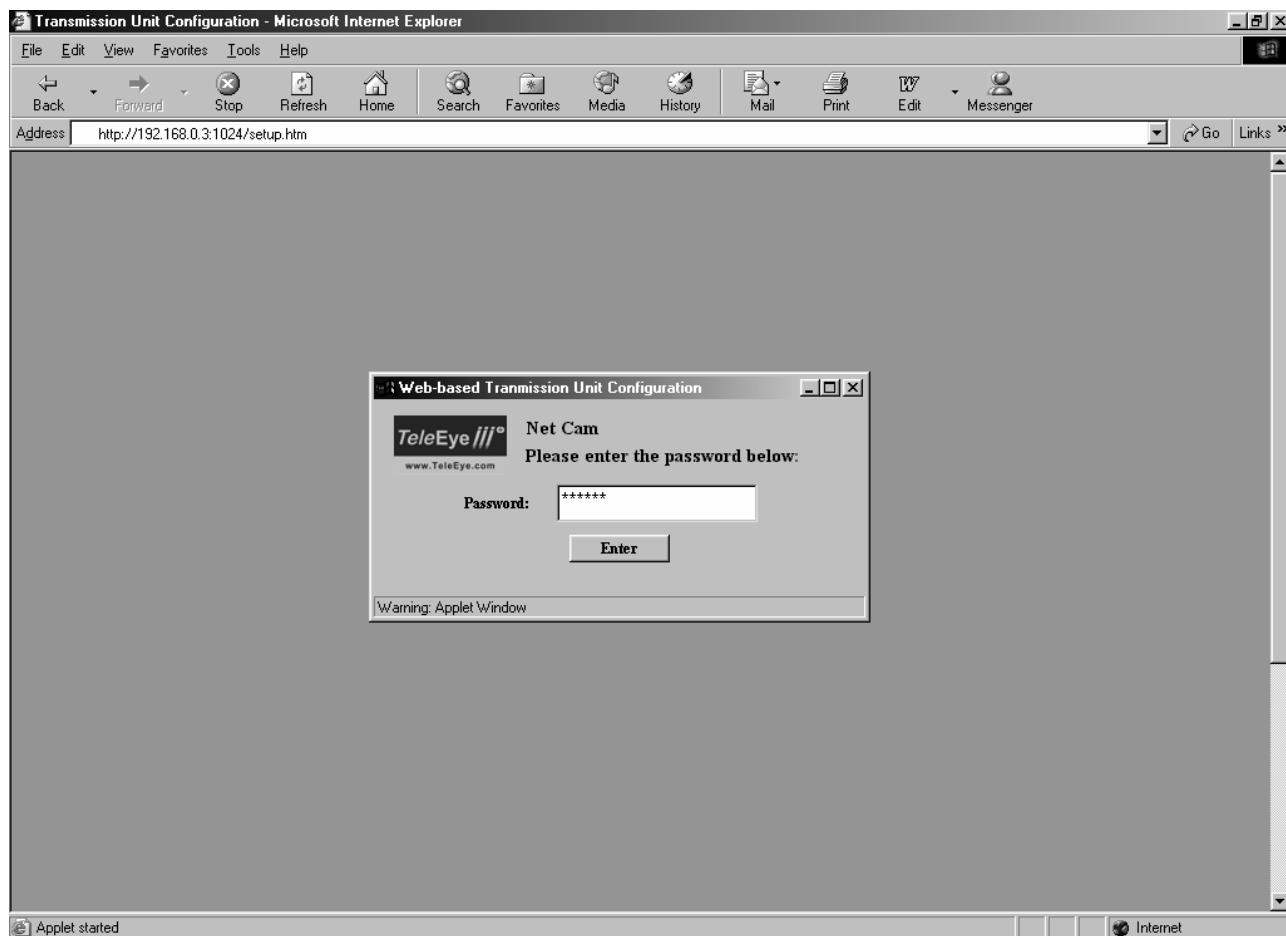
Step 8: Press on the Set Network Camera IP button to set the Network Camera to the new IP address.

Step 9: Run your favourite web-browser

Step 10: You are now ready to configure the Network Camera. Enter the Network Camera's IP address and port number to the address field of your web-browser. The format should conform with: <http://xxx.xxx.xxx.xxx:yyyy/setup.htm> where xxx.xxx.xxx.xxx is IP address and yyyy is port number.

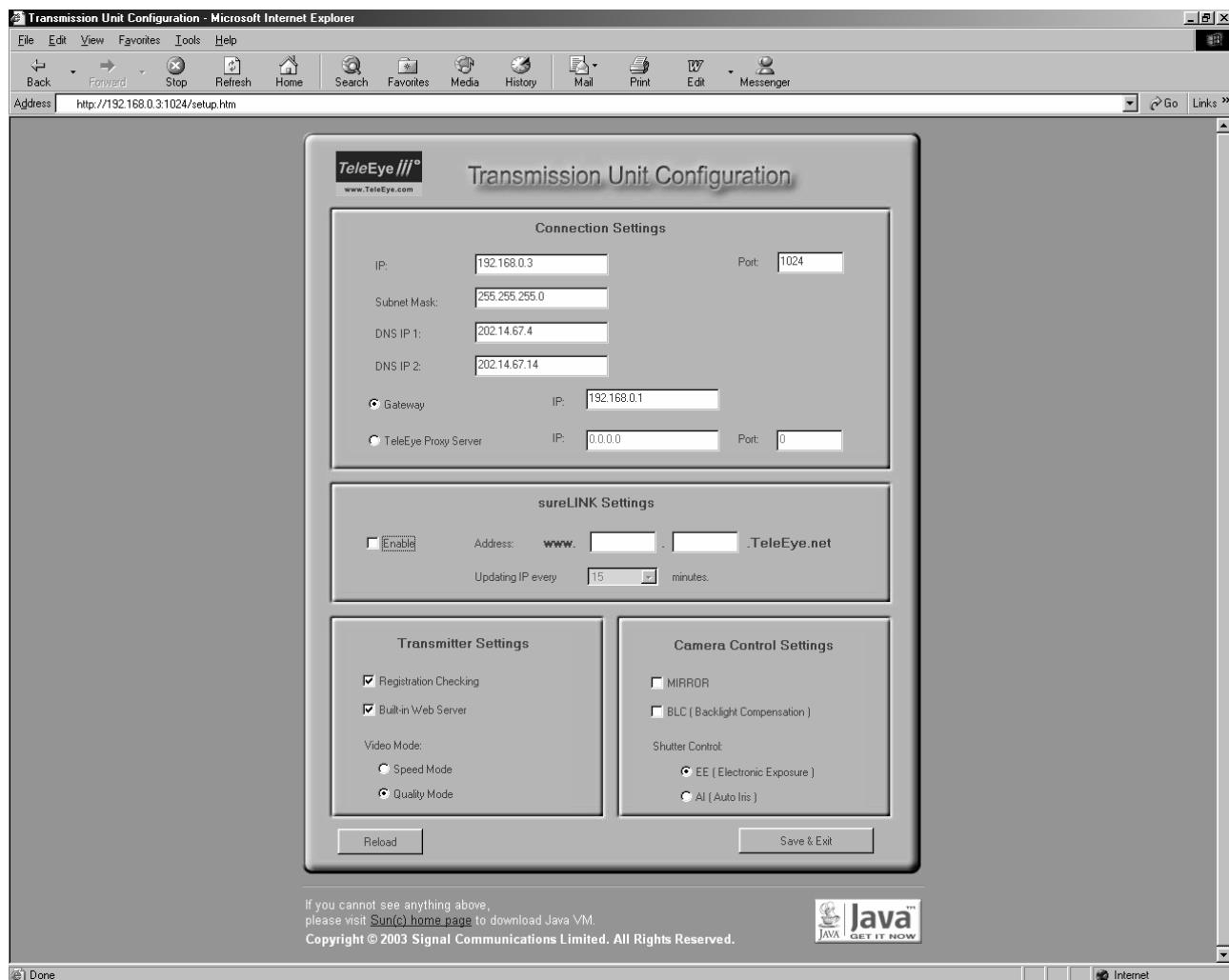
System Configuration and Installation

The Network Camera's web-based configuration should already be displayed in your web-browser. It should be similar to the captured screen shown below. Please enter the default administrator password “**000000**” to login.



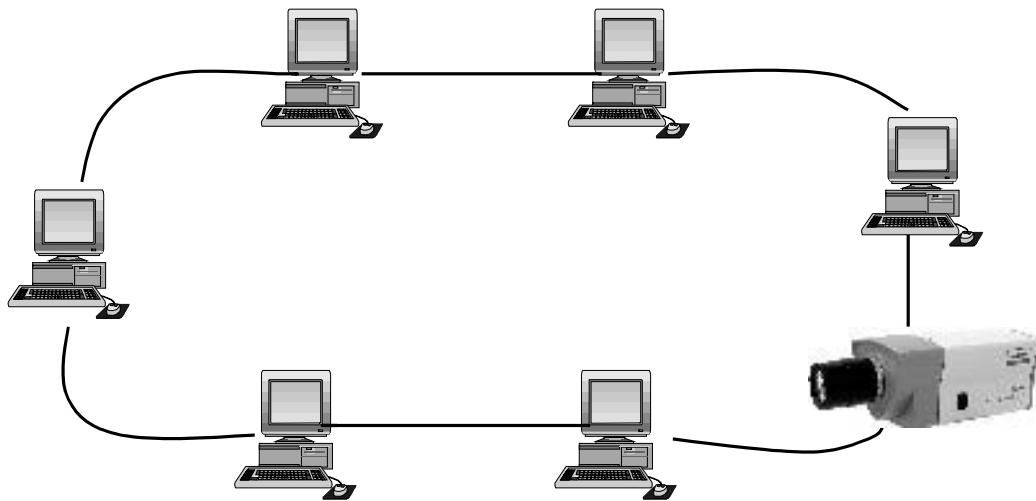
System Configuration and Installation

There are many settings to be configured, such as Video Mode, Gateway, DNS...etc. The camera features can also be configured now. For users who have little knowledge in camera settings, it is advised that users read the section in camera features before making any changes.



System Configuration and Installation

A1. For Internal LAN Access

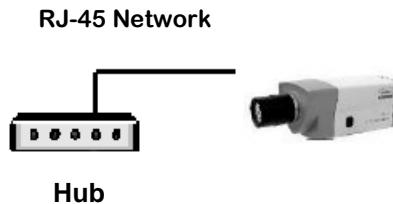


Step 1: To continue, configure the **Registration Checking** and **Video Mode** settings.

Step 2: You can **Enable** the Built-in Web Server so that you can see video through web browser

Step 3: Ensure all settings are correct, then press the **Save and Exit** button

Network Camera Installation



Step 1: Plug the RJ-45 network cable into the socket on the hub's rear panel. Afterwards, plug the other end of the network cable into the socket on the **TeleEye III+ Network Camera**'s rear panel.

Step 2: Plug the hub power cable into the hub power connector. At the same time, plug the hub power supply into a wall let and power on the hub.

Step 3: Plug one end of the *BNC* cable a TV monitor, then plug the other end to the **TeleEye III+ Network Camera**'s **VIDEO OUTPUT** connector, if local monitoring is required.

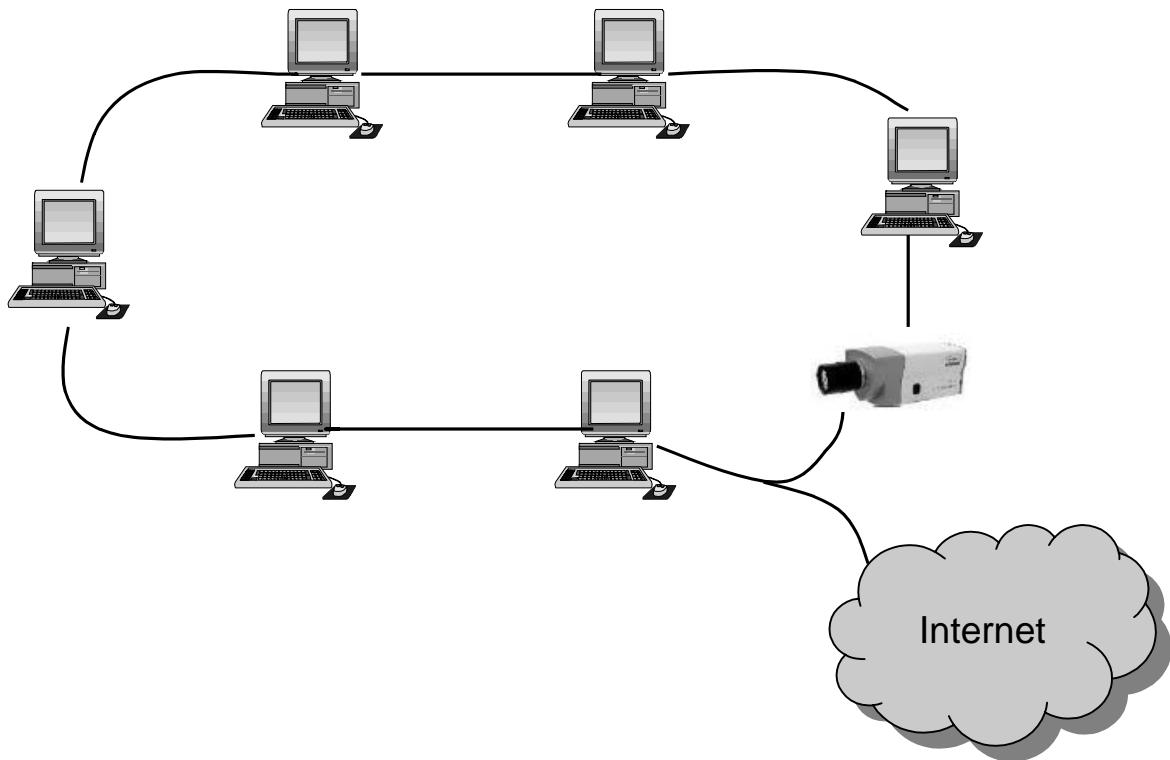
Step 4: Connect alarm sensor to the corresponding pins of the **ALARM & SWITCH** port, if necessary (For the pin assignment of the ALARM port, please refer to [Section 2 Interface Description](#)).

Step 5: Power up the Network Camera with the adaptor provided. The power LED and the LINK LED on the rear panel should light up.

System Configuration and Installation

Step 6: You may now use the web-based graphical user interface or the **TeleEye III+ Reception Software** to connect to the Network Camera. For the instructions of using the software, please refer to the **TeleEye III+ Reception Software** User Guide.

A2. For Broadband Internet Connection with Static IP



Please follow the configuration and installation steps of **A1. Internal LAN Access**. You have to set the **Gateway IP** of the Network Camera.

SECTION

5

NORMAL OPERATIONS OF THE NETWORK CAMERA

Having completed the IP setup of the Network Camera, you are now ready to see live streaming video from the Network Camera. To start viewing video, all that is required is a computer with network capability and a Java supporting, standard web browser. To view video from the Network Camera is very similar to how you browse the Internet.

Using Built-in Web Server

Before using the web service, you have to make sure that you have **ENABLED** the Built-in Web Server feature when configuring the Network Camera. For details please read **Network Camera Configuration**. In web browser, you can enter your registered **sureLINK** address (e.g. <http://www.network.camera.teleeye.net/>) or IP address with port number (e.g. <http://192.168.0.3:1024/>) to connect your Network Camera.

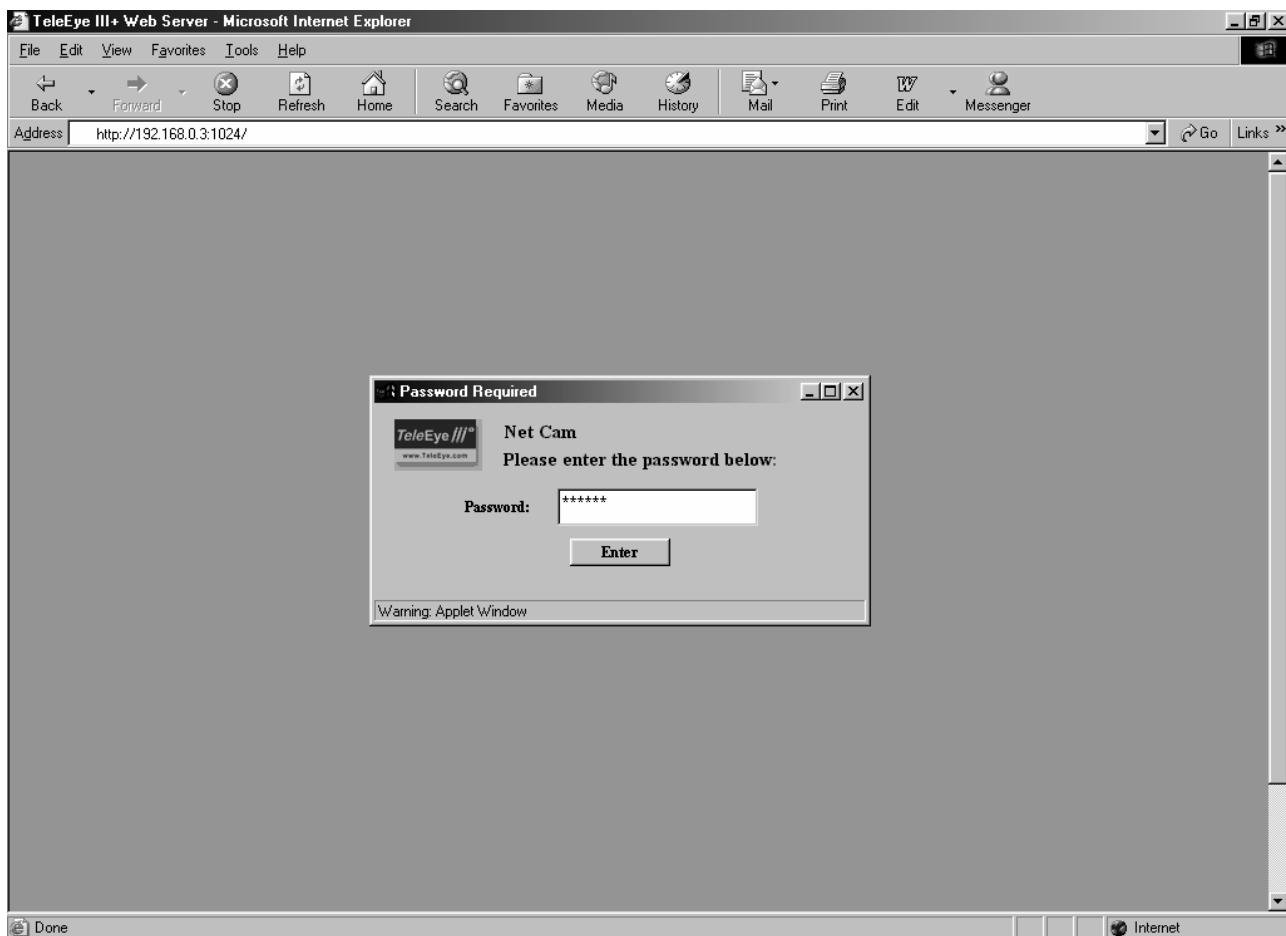
Step 1: Make sure the computer in use is capable of connecting to the Internet or the Local Area Network (LAN). Also make sure your browser supports Java.

Step 2: Connect the Network Camera to your network by connecting a straight Ethernet cable from the Network Camera Ethernet Port to a hub/switch. Alternatively, use a crossover Ethernet cable to direct connect a computer with the Network Camera alone. Actually, there are different approaches in installing the Network Camera to different types of network. For details on installing Network Camera, please refer to [Section 4 System Configuration and Installation](#).

Step 3: Run your favourite web browser. At the address field at the top, enter the IP address of the Network Camera in this format: http://IP_address:port_number. For example, <http://192.168.0.3:1024>. The IP is **192.168.0.3**. The port number is **1024** which is the default port number of the Network Camera.

Step 4: A window should appear. Please enter the password. The default password is 000000. The location name and the password can both be changed with the **TeleEye III+ Reception Software, WRS3-AD**.

If problems arise, please check that your browser supports Java. You might need to enable Java or to download the latest version of the Java VM (go to <http://java.sun.com/getjava/index.html>).



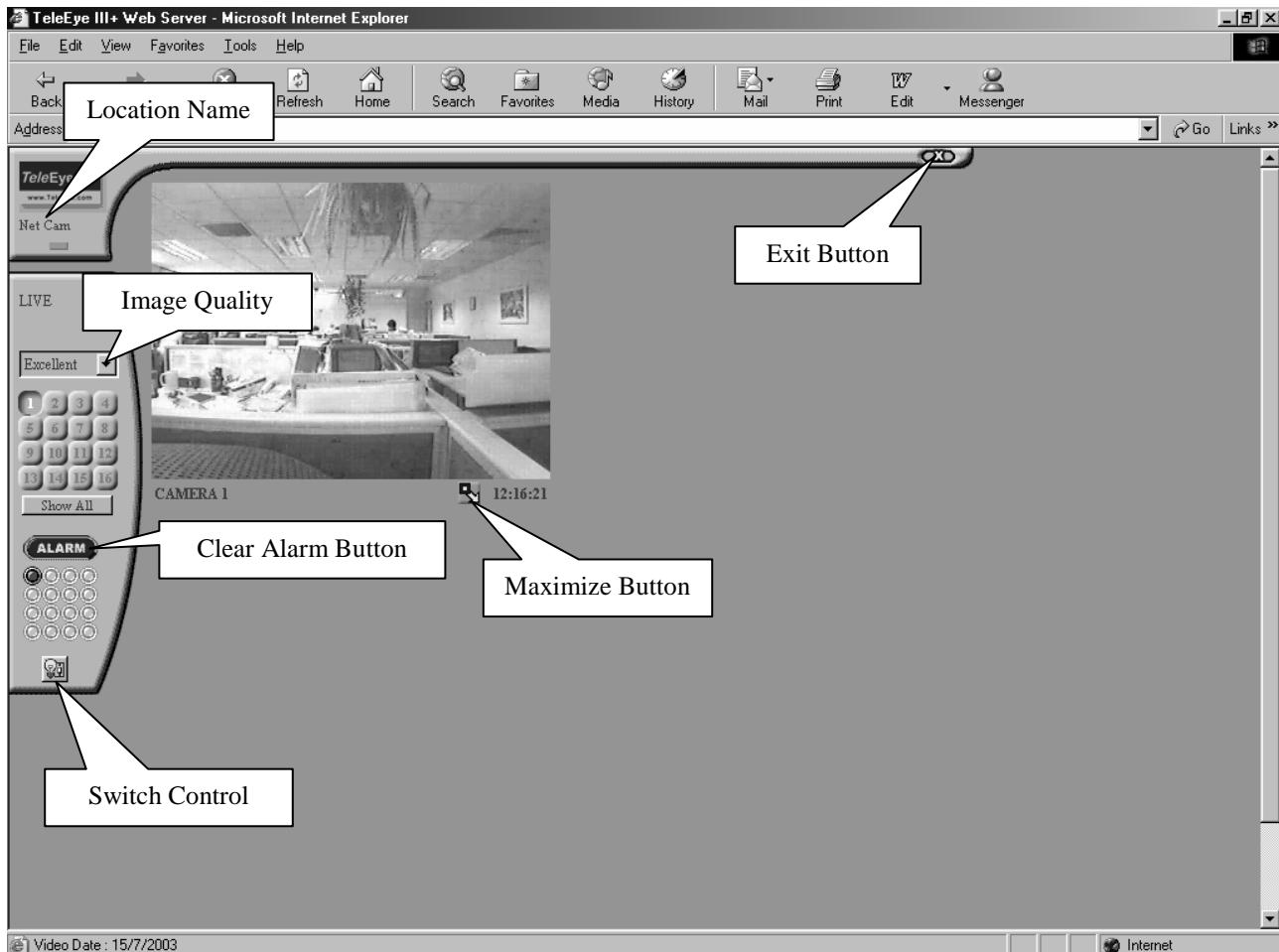
Step 5: After a correct password has been entered, the main screen should appear.

On the left of the screen, starting from the top,

- I. **Location Name:** Indicates which Network Camera that currently connected to
- II. **Green Light:** Indicates that live video is in transmission if flashing
- III. **Image Quality Menu:** Selects the quality of the Video
- IV. **Keypad:** Only one camera available for Network Camera.
- V. **Show All Button:** If selected, video will display in the top left corner of the Video Screen.
- VI. **Clear Alarm Button and Alarm Indicator Light:** Alarm indicator light in dark green color means no alarm is triggered; red color means alarm is triggered; light green color means alarm has been triggered before. Press once on the Alarm button to clear alarm
- VII. **Switch Control Button:** ON/OFF control of the Relay switch
- VIII. **Video Screen:** Displays live streaming video
- IX. **Maximize Button:** Switches the video display to full screen mode
- X. **Clock:** Shows the current time of Network Camera

Normal Operations of the Network Camera

The main screen is where most actions take place.



This web-based approach is the simplest way to connect with Network Camera. No other special software is required; it is just as easy as ordinary web browsing. On the other hand, the **TeleEye III+ Reception Software WRS3-AD** can also be employed to connect and to view live video from the Network Camera.

Normal Operations of the Network Camera

SECTION
6

GENERAL TERMS DISCUSSION

To familiarize you with the Network Camera, you may need to know some of the terms and information below.

- **Registration Checking**

Users need to do the registration in the Reception Software (e.g. WRS3-AD) for authorization before the Network Camera can be used when such feature is enabled in the **TeleEye III+** Network Camera. This option can be applied to improve the security protection for the organization when higher security level is required. If the Network Camera is decided to open for public use, you can disable this feature so that public users do not need to register for viewing live video from the Reception Software.

- **Video Mode**

There are two sets of video resolution settings available in the Network Camera. The **Speed** set offers **128x96**, **256x192** and **512x384** pixels while the **Quality** set offers **160x120**, **320x240** and **640x480** pixels. As the name indicated, the **Speed** set will increase the Network Camera's video performance in speed while the **Quality** set in quality. You can only have one set being active during the Network Camera's day-to-day operation. This setting should be configured during the installation of the Network Camera. For ideal performance in speed, please choose the **Speed** option.

Note that you cannot set the video performance at the client side software (i.e. WRS3-AD) which is used to monitor the site through the Network Camera. Instead, you can only do so while configuring the Network Camera.

- **Built-in Web Server**

In order to let you view live video anywhere, at anytime, in the most convenient way, you can enable the Built-in Web Server so that any PCs connecting to the Internet can view your remote site without installing or configuring any software. In this case, when you go traveling or on trips, you can also view the site by just using web browser! No additional procedures or settings are needed and you can just enter your site address (e.g. <http://www.hkoffice.teleeye.teleeye.net>) at the web browser and view the site immediately. To see how to use this, please read section 5.

The above items are recommended to be configured before the first time you use the Network Camera no matter which connection method you use. The steps to set the above items will be discussed in **Network Camera Configuration** of different configuration under **System Configuration and Installation** section.

General Terms Discussion

- **Site Monitoring Method**

There are mainly three methods to link up with the Network Camera to see videos:

- TCP/IP in LAN
- TCP/IP on the Internet using Broadband and Internet Router
- TCP/IP on the Internet using Broadband with Dial-up Software

You have to choose one of the **System Configuration Methods** in earlier section to configure **TeleEye III+**'s Network Camera before use so as to make it function properly.

The Network Camera configuration program contains all the settings for different remote video monitoring method. Different connection methods may have different settings, and some of the setting configured in one connection method is not applicable to other method. In this case, you can refer to one of the configuration procedures from the preceding section for the connection method you use.

SECTION A

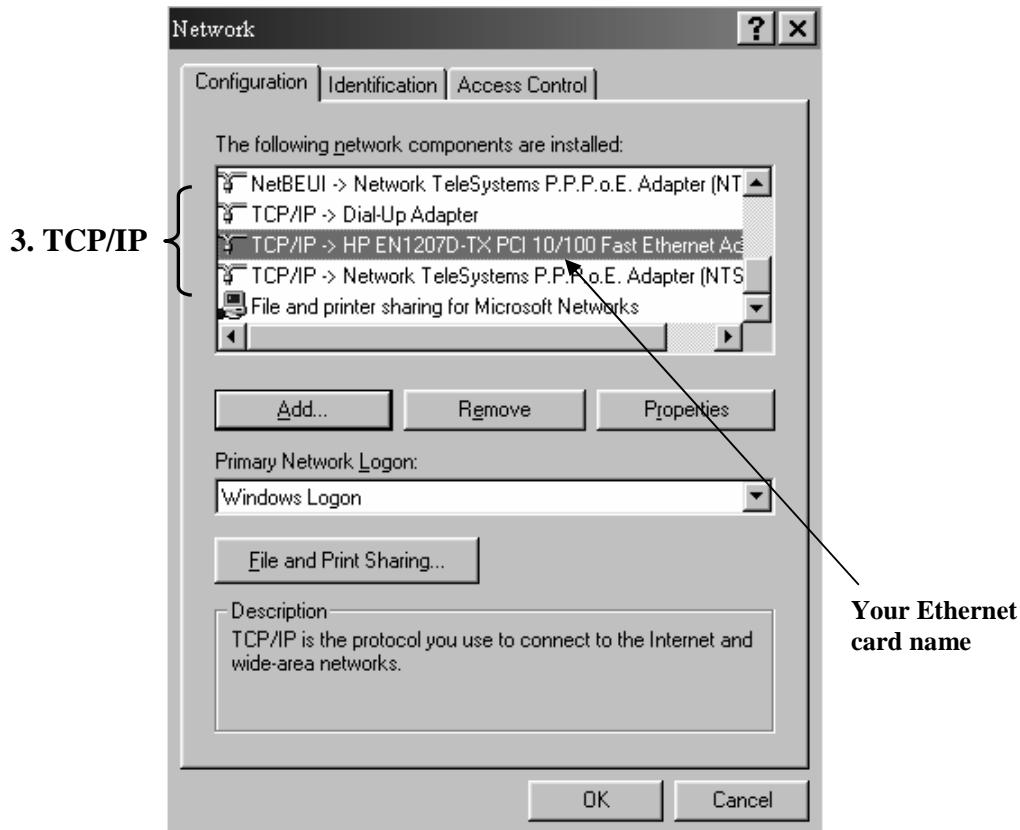
APPENDIX

IP Address Setup for Windows 98/ME

The follow procedures will set your Ethernet Card IP address manually for your local LAN purpose. Note that these procedures will NOT affect your PC to get on the Internet. If you discover that you cannot be able to access on the Internet after applying the settings, you have to undo the settings or re-install the software provided by your ISP and retry the steps again.

Step 1: In Windows 98/ME desktop, select **Start > Settings > Control Panel**

Step 2: Double click **Network > Configuration**, you will find that there are at least 2 fields (usually 3 fields) started with “*TCP/IP ->*”.

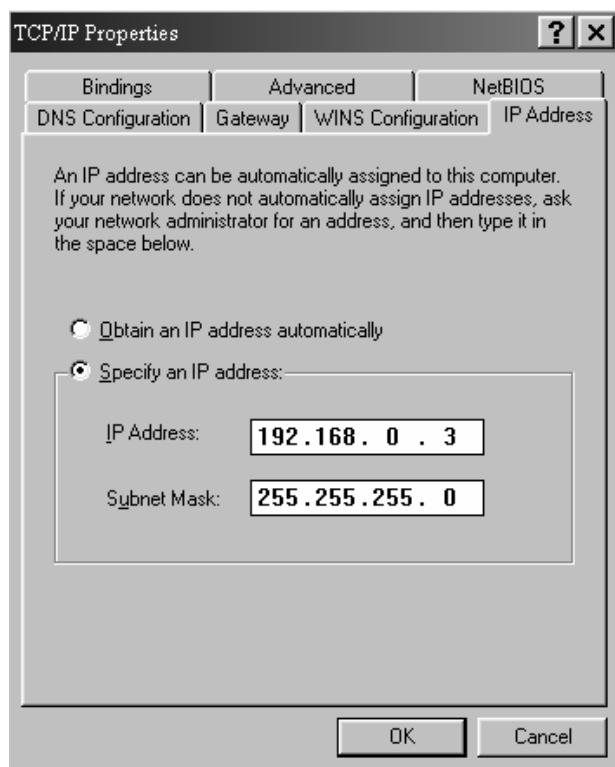


Two of them are very important for setup. One of them is used for your local intranet (the field may contain the name of your Ethernet card), the other one is used for your broadband Internet connection. An example is shown in the following figure.

TCP/IP-> HP EN1207D-TX PCI 10/100 Fast Ethernet Adaptor	Used for Intranet (local network)
TCP/IP-> Network TeleSystems P.P.P.o.E Adaptor	Broadband Internet Access (Point-to-Point Protocol over Ethernet)

Note that the name of these two TCP/IP adaptors may be different on your computer. You have to identify the purpose of each corresponding adaptor.

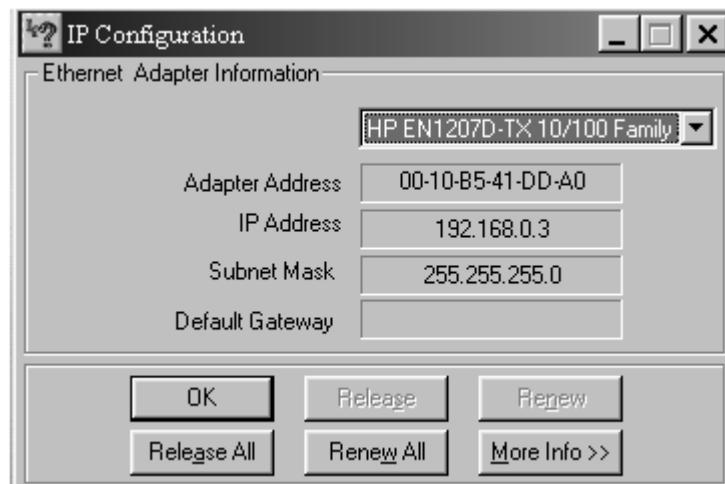
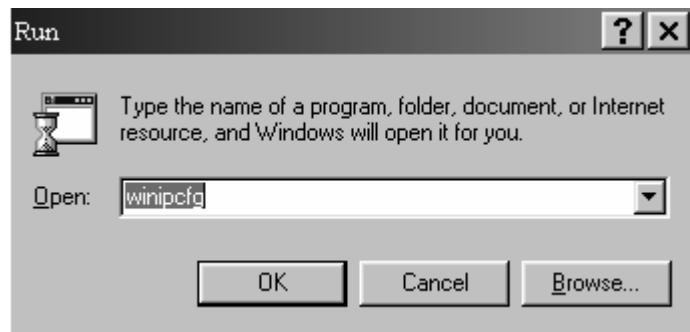
Step 3: Choose **TCP/IP->[Your Ethernet card name]** > Click **Properties** > **IP address**, enter an IP address “192.168.0.3” and subnet mask “255.255.255.0”



Step 4: Click **OK** and **OK** and reboot the computer.

Step 5: After booting, ensure that the computer can still be connected to the Internet.

Step 6: You have to confirm the IP address has been correctly set on your computer. On your windows, click **start > run**, type “**winipcfg**” at Open field and pressed **OK** button, then you will see a **IP Configuration** program shown as figure.



Step 7: Select your Ethernet card name on the field, you will see a IP address on the field. Ensure that that is the same as you have set before (i.e. 192.168.0.3). If it is not so, please repeat step 12. Click OK to close the program.

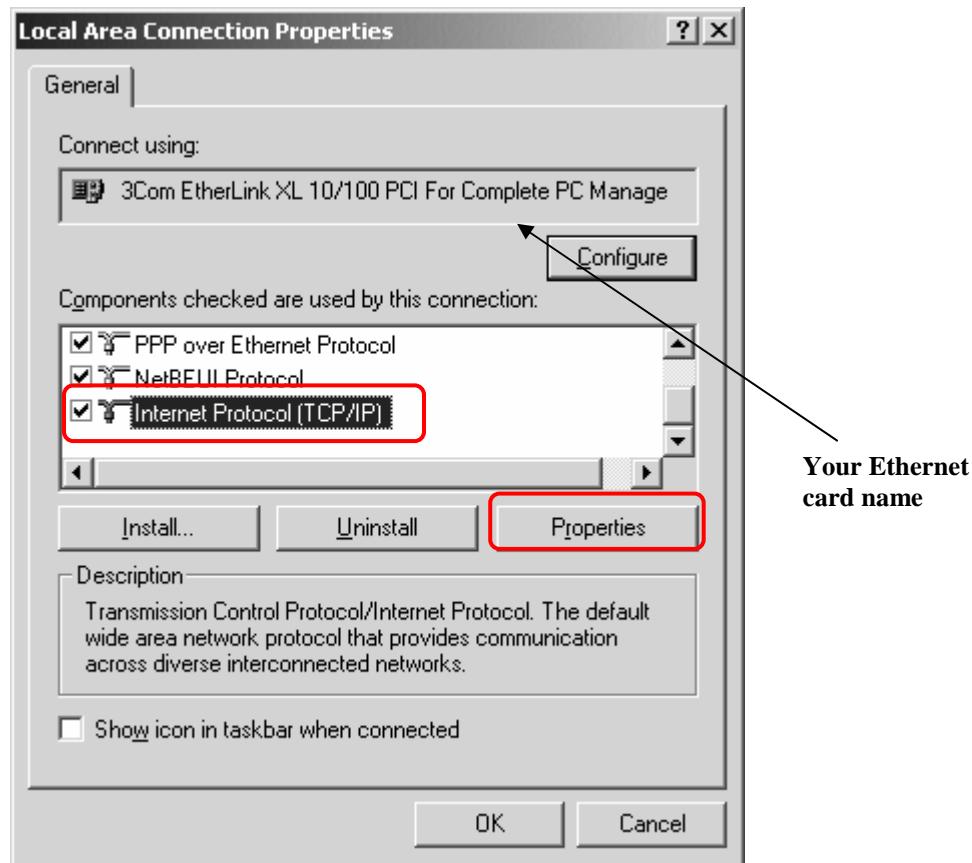
IP Address Setup for Windows NT/2000/XP

The follow procedures will set your Ethernet Card IP address manually for your local LAN purpose. Note that these procedures will **NOT** affect your PC to get on the Internet. If you discover that you cannot be able to access to the Internet after applying the settings, you have to undo the settings or re-install the software provided by your ISP and retry the steps again.

Step 1: In Windows NT/2000/XP desktop, select **Start > Settings > Control Panel**

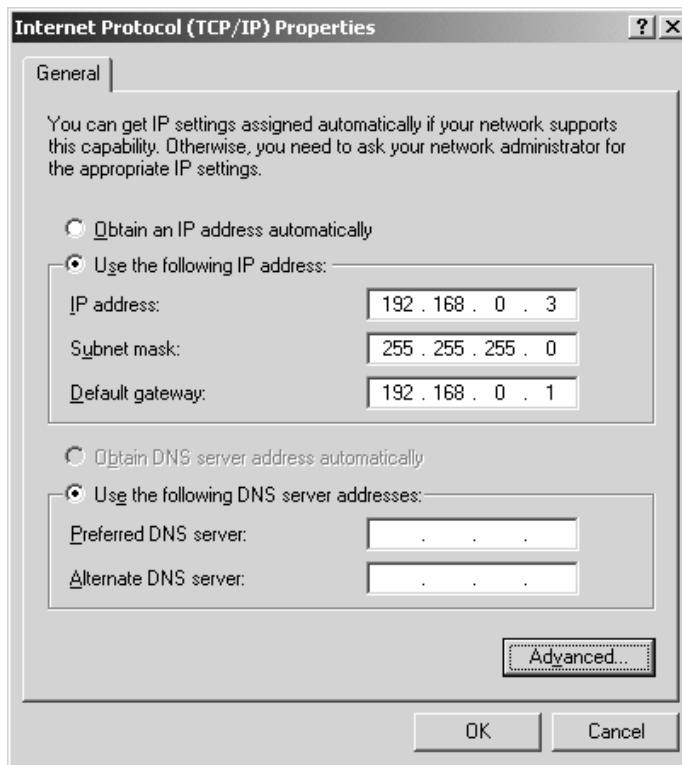
Step 2: Double click **Network and Dial-up Connections** > right click **Local Area Connections** and choose **Properties**.

Step 3: Choose **Internet Protocol (TCP/IP)** and click **Properties**



Step 4: Enter an **IP address**, **subnet mask** and **Default gateway**.

Step 5: Enter the **Preferred** and **Alternate DNS server**, if necessary.



Step 6: Click **OK** to activate the new IP.

Step 7: You have to confirm the IP address has been correctly set on your computer. On your windows, click **start > run**, type “**cmd**” at Open field and pressed **OK** button, then type “**ipconfig**” on the DOS prompt, you will see a IP set on your computer.

Router Configuration

Port Mapping in your Router

For PLANET Internet SOHO Router XRT-101 / XRT-711, please refer to its menu

6.1 Advanced Internet Features →

Virtual Servers (Define servers on your LAN, so Internet users can access them) →

E.3 User-defined Virtual Servers

Suggested Data for router:

Name	TeleEye
IP Address	192.168.0.2 (Your Network Camera IP address)
Protocol	TCP
Internal Port No.	1024
External Port No.	1024

Appendix

SECTION B

SPECIFICATIONS

MODEL	NF610
IMAGE SENSOR	
Type	1/3" CCD, 16M colour, interlace
Minimum Illumination	1.0 Lux at F/1.2
Electronic shutter	(P): 1/50-1/100,000 second
	(N): 1/60-1/100,000 second
	on/off switchable
Back Light Compensation	on/off switchable
White Balance	automatic
Resolution	Quality Mode: 640x480, 320x240, 160x120
	Speed Mode: 512x384, 256x192, 128x96
Video Output	(P): PAL/CCIR, 625 lines, 50 fields per second
	(N): NTSC/EIA, 525 lines, 60 fields per second
	composite video, 1Vp-p, BNC
LENS	
Mounting	CS mount (C mount adaptor option)
CONNECTION	
Network	RJ-45, 10/100 Base-T Ethernet
No. of Concurrent Users	4
Web Server	built-in web server
sureLINK	supports Internet connection assigned with dynamic IP address
RS - 485	N/A
PCMCIA	N/A
EVENT HANDLING	
Event	external alarm, system failure
Action	dial back, relay control, email notification
External Input	1, NC/NO
RELAY SWITCH	
Channel	1 channel, latched/momentary
Max. Rating	24V AC 1000 mA
POWER	
Voltage	12V DC
Max. Rating	800 mA
OPERATING ENVIRONMENT	
Ambient Temperature	0 °C - 50 °C
Relative Humidity	< 90% (no condensation)
MECHANICAL DESIGN	
W x D x H	85 x 153 x 775 (mm x mm x mm)
Net Weight	0.9 kg