

REMOTE SURVEILLANCE INTERNET CAMERA

INSTRUCTION MANUAL

English Version 3.0



MODELS:
LN SERIES



Thank you for purchasing the Lorex Remote Surveillance Internet Easy-Connect Camera.

This manual refers to the following models:

- **LNE1001, LNE1001i:** Wired, Easy Connect, Internet Camera
- **LNE3003, LNE3003i:** Wired/Wireless, Day/Night, Easy Connect, Internet Camera
- **LNZ4001, LNE4001i:** Wired/Wireless, Day/Night, Pan/Tilt, Easy Connect, Internet Camera

To learn more about this product and to learn about our complete range of accessory products, please visit our website at:

www.lorextechnology.com



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT
REMOVE COVER. NO USER SERVICABLE PARTS INSIDE.**

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products' enclosure that may be of sufficient magnitude to constitute a risk of electric shock



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT
EXPOSE THIS UNIT TO RAIN OR MOISTURE.**

**CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE
OF THE PLUG TO THE WIDE SLOT AND FULLY INSERT.**

NEED HELP?

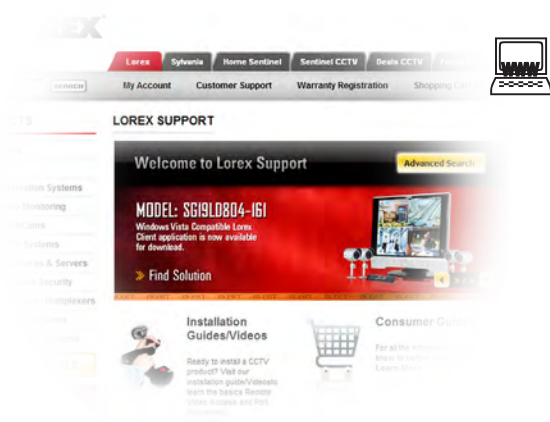


CONTACT US FIRST

DO NOT RETURN THIS PRODUCT TO THE STORE

Please make sure to register your product at www.lorextechnology.com to receive product updates and information

3 EASY WAYS TO CONTACT US:



Online:

Product Support is available 24/7 including product information, user manuals, quick start up guides and FAQ's at www.lorextechnology.com/support

To order accessories, visit www.lorextechnology.com



By Email:

Technical Support (for technical/installation issues)
support@lorexcorp.com

Customer Care (for warranty and accessory sales)
customerservice@lorexcorp.com

Customer Feedback
info@lorexcorp.com



By Phone:

NORTH AMERICA:

CUSTOMER SERVICE: 1-888-425-6739 (1-888-42-LOREX)

TECH SUPPORT: 1-877-755-6739 (1-877-75-LOREX)

MEXICO: 1-866-427-6739

INTERNATIONAL: +800-425-6739-0

(Example: From the UK, dial 00 instead of +)





NECESITA AYUDA COMUNÍQUESE PRIMERO CON NOSOTROS



VOUS AVEZ BESOIN D'AIDE? CONTACTEZ-NOUS D'ABORD

NO DEVUELVA ESTE PRODUCTO A LA TIENDA

NE RETOURNEZ PAS CE PRODUIT AU MAGASIN

Cerciórese de por favor colocar su producto en www.lorexcctv.com/registration para recibir actualizaciones y la información del producto

Veuillez veiller à enregistrer votre produit à www.lorexcctv.com/registration pour recevoir des mises à jour et l'information de produit

3 MANERAS SENCILLAS DE COMUNICARSE CON NOSOTROS:



En línea:

apoyo al producto disponible 24/7 incluyendo información del producto, manuales para el usuario, guías de inicio rápido y preguntas más frecuentes en

www.lorexcctv.com/support

Para colocar pedidos de accesorios, visite

www.lorexcctv.com



Por Correo Electrónico:

soporte técnico (para asuntos técnicos/la instalación)

support@lorexcctv.com

0

servicio al cliente (respecto a la garantía y a la venta de accesorios)

customerservice@lorexcctv.com

Comentarios de cliente

info@lorexcctv.com



Por Teléfono:

L'AMÉRIQUE DU NORD:

ATENCIÓN AL CLIENTE: 1-888-425-6739 (1-888-42-LOREX)

SOPORTE TÉCNICO: 1-877-755-6739 (1-877-75-LOREX)

MEXICO: 1-866-427-6739

INTERNACIONAL: +800-425-6739-0

(Ejemplo: Desde el Reino Unido, marque el 00 en lugar del +)

sus opiniones son bienvenidas en

info@lorexcctv.com

para colocar pedidos de accesorios, visite

www.lorexcctv.com



En ligne:

le support des produits est disponible 24 heures sur 24, 7 jours sur 7, y compris les informations sur les produits, les guides de l'utilisateur, les guides de démarrage rapide et les foires à questions

www.lorexcctv.com/support

Pour commander des accessoires, visitez

www.lorexcctv.com



Par Courriel:

support technique (pour les questions techniques et d'installation) **support@lorexcctv.com**

OU

service à la clientèle (pour les questions de garantie et les ventes d'accessoires)

customerservice@lorexcctv.com

Commentaires des clients

info@lorexcctv.com



Par Téléphone:

NORTE AMÉRICA:

SERVICE À LA CLIENTÈLE: 1-888-425-6739 (1-888-42-LOREX)

SUPPORT TECHNIQUE: 1-877-755-6739 (1-877-75-LOREX)

MEXICO: 1-866-427-6739

INTERNACIONAL: +800-425-6739-0

(Exemple: À partir du Royaume-Uni, composez 00 au lieu de +)

nous serions heureux de recevoir vos

commentaires à info@lorexcctv.com pour

commander des accessoires, visitez

www.lorexcctv.com

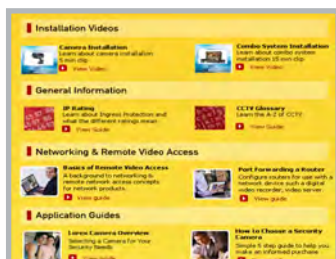
BEFORE YOU START

THIS PRODUCT MAY REQUIRE PROFESSIONAL INSTALLATION

LOREX IS COMMITTED TO FULFILLING YOUR SECURITY NEEDS



- We have developed user friendly products and documentation. Please read the Quick Start Guide and User Manual before you install this product.



- Consumer Guides and Video Tutorials are available on our web site at www.lorextechnology.com/support



- If you require further installation assistance, please visit www.lorextechnology.com/installation or contact a professional installer.



- Please refer to the “Need Help” insert for technical support and customer care information.



- Please note that once the components of this product have been unsealed, you cannot return this product directly to the store without the original packaging.

AVANT DE COMMENCER

CE PRODUIT POURRAIT EXIGER UNE INSTALLATION PROFESSIONNELLE

LOREX S'ENGAGE À SATISFAIRE VOS BESOINS SÉCURITAIRES

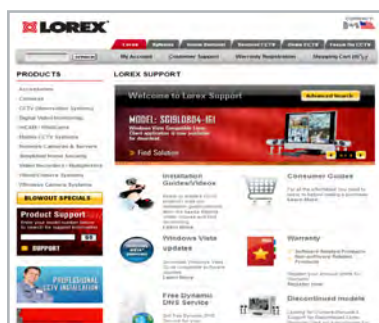
- Veuillez lire le guide de démarrage rapide et le mode d'emploi avant d'installer ce produit.
- Les guides du consommateur et les séances de tutorat vidéo sont disponibles sur l'Internet en visitant www.lorextechnology.com/support
- Si vous avez besoin de l'aide pour l'installation, veuillez visiter www.lorextechnology.com/installation ou contactez un spécialiste en installation
- Veuillez référer à l'insert "Need Help" pour obtenir de l'information sur le service à la clientèle et le support technique
- Veuillez constater qu'une fois que les composants de ce produit ont été retirés de l'emballage, vous ne pourrez plus retourner ce produit directement au magasin.

ANTES DE EMPEZAR

ESTE PRODUCTO PUEDE EXIGIR UNA INSTALACIÓN PROFESIONAL

LOREX SE COMPROMETE A SATISFACER SUS NECESIDADES EN SEGURIDAD

- Favor de leer la guía de instalación rápida y la guía del usuario antes de instalar este producto.
- Puede conseguir las guías del consumidor y los cursos en enseñanza video sobre el Internet visitando www.lorexctv.com/support
- Si necesita ayuda para la instalación, visite www.lorextechnology.com/installation o contacte un especialista en instalaciones
- Favor de referir al documento "Need Help" para obtener información acerca del servicio al cliente y al soporte técnico
- Favor de notar que una vez que los componentes de este producto han sido removidos del embalaje, no podrá devolver este producto directamente a la tienda



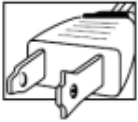
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April 27 2010 R3

Important Safeguards

In addition to the careful attention devoted to quality standards in the manufacturing process of your video product, safety is a major factor in the design of every instrument. However, safety is your responsibility too. This sheet lists important information that will help to assure your enjoyment and proper use of the video product and accessory equipment. Please read them carefully before operating and using your video product.

Installation

1. **Read and Follow Instructions** - All the safety and operating instructions should be read before the video product is operated. Follow all operating instructions.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - Comply with all warnings on the video product and in the operating instructions.
4. **Polarization** - Do not defeat the safety purpose of the polarized or grounding-type plug.

A polarized plug has two blades with one wider than the other.

A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety.
If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
5. **Power Sources** - This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your location, consult your video dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.
6. **Overloading** - Do not overload wall outlets of extension cords as this can result in the risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard. Periodically examine the cord, and if its appearance indicates damage or deteriorated insulation, have it replaced by your service technician.
7. **Power Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the video product.
8. **Ventilation** - Slots and openings in the case are provided for ventilation to ensure reliable operation of the video product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video equipment on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the video product manufacturer's instructions have been followed.
9. **Attachments** - Do not use attachments unless recommended by the video product manufacturer as they may cause a hazard.
10. **Camera Extension Cables** - Check the rating of your extension cable(s) to verify compliance with your local authority regulations prior to installation.
11. **Water and Moisture** - Do not use this video product near water. For example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, near a swimming pool and the like.
Caution: Maintain electrical safety. Powerline operated equipment or accessories connected to this unit should bear the UL listing mark of CSA certification mark on the accessory itself and should not be modified so as to defeat the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.
12. **Accessories** - Do not place this video equipment on an unstable cart, stand, tripod, or table. The video equipment may fall, causing serious damage to the video product. Use this video product only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the video product. Any mounting of the product should follow the manufacturer's instructions and use a mounting accessory recommended by the manufacturer.


Service

13. **Servicing** - Do not attempt to service this video equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
14. **Conditions Requiring Service** - Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power supply cord or plug is damaged.
 - If liquid has been spilled or objects have fallen into the video product.
 - If the video product has been exposed to rain or water.
 - If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
 - If the video product has been dropped or the cabinet has been damaged.
 - When the video product exhibits a distinct change in performance. This indicates a need for service.
15. **Replacement Parts** - When replacement parts are required, have the service technician verify that the replacements used have the same safety characteristics as the original parts. Use of replacements specified by the video product manufacturer can prevent fire, electric shock or other hazards.
16. **Safety Check** - Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the video product is in safe operating condition.
17. **Wall or Ceiling Mounting** - The cameras provided with this system should be mounted to a wall or ceiling only as instructed in this guide, using the provided mounting brackets.
18. **Heat** - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Use

19. **Cleaning** - Unplug the video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
20. **Product and Cart Combination** - Video and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the video product and car combination to overturn.
21. **Object and Liquid Entry** - Never push objects for any kind into this video product through openings as they may touch dangerous voltage points or "short-out" parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.
22. **Lightning** - For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power line surges.

General Precautions

1. All warnings and instructions in this manual should be followed.
2. Remove the plug from the outlet before cleaning. Do not use liquid aerosol detergents. Use a water dampened cloth for cleaning.
3. Do not use this unit in humid or wet places.
4. Keep enough space around the unit for ventilation. Slots and openings in the storage cabinet should not be blocked.
5. During lightning storms, or when the unit is not used for a long time, disconnect the power supply, antenna, and cables to protect the unit from electrical surge.

FCC CLASS B NOTICE

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 in-stalled and used in accordance with the instruction, 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 on and off), 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 or television technician for assistance

This equipment has been certified and found to comply with the limits regulated by FCC, EMC, and LVD. Therefore, it is designated to provide reasonable protection against interference and will not cause interference with other appliance usage.

However, it is imperative that the user follows this manuals guideline to avoid improper usage which may result in damage to the unit, electrical shock and fire hazard injury

In order to improve the feature functions and quality of this product, the specifications are subject to change without notice from time to time.

INDUSTRY CANADA STATEMENT

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This device has been designed to operate with an antenna having a maximum gain of 2.17 dBi.

Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

LNE1001 Features

- Wired connectivity
- Remote Easy Connect (Yoics™ and MSN®)
- 10x digital zoom
- Supports VGA (640x480) resolution, 30 frames per second (real time)
- Web browser support: Internet Explorer, Firefox, Safari for viewing on PC or Mac
- Supports MJPEG
- MPEG4 enhanced compression for efficient video streaming
- Motion event triggers e-mail notification with JPEG image attachment
- Two-way audio via integrated microphone and external speakers (not included)
- 6 channel surveillance application for real time viewing and recording
- Free LOREX DDNS included for remote connection
- Secure web management connectivity (password protected)
- Professional grade camera (HTTP event – camera can trigger or be triggered by other LOREX camera)
- Windows® 7 compatible
- iPhone® and iPad® connectivity



LNE3003 Features

- Wired / Wireless IEEE 802.11b/g connectivity for flexible installation
- Remote Easy Connect (Yoics and MSN)
- 10x Digital Zoom
- Superior low-light performance with night-vision LEDs
- Supports VGA (640x480) resolution, 30 frames per second (real time)
- Web browser support: Internet Explorer, Firefox, Safari, for viewing on PC or Mac
- Supports MJPEG
- MPEG4 enhanced compression for efficient video streaming
- Motion event triggers e-mail notification with JPEG image attachment
- Two-way audio via integrated microphone and external speakers (not included)
- 6 channel surveillance application for real time viewing and recording
- Free LOREX DDNS included for guaranteed connection
- Secure web management User/Password protection
- Windows® 7 compatible
- iPhone® and iPad® connectivity



LNE4001 Features

- Wired/wireless 802.11b/g connectivity for flexible installation
- Professional grade camera (HTTP Event – camera can trigger or be triggered by other LOREX camera)
- Pan tilt control via iPhone
- Preset pan tilt tour
- Night vision - 30ft (10m), IR LEDs
- Remote easy connect (Yoics and MSN)
- Secure web management connectivity (password protected)
- 10 x digital zoom
- MPEG4 enhanced compression for efficient video streaming
- 6-channel surveillance application for viewing and archiving
- Two-way audio via audio input/output (external microphone/speakers needed)
- Crystal clear video quality in VGA (640x480) resolution @ 30 frames per second
- Supports common browsers (Internet Explorer, Firefox, Safari) to be viewed using PC or Mac
- Alarm input/output (camera can be integrated with an alarm system—alarm triggers camera/motion triggers alarm)
- Motion event triggers e-mail notification with JPEG attachment
- Windows® 7 compatible
- iPhone® and iPad® connectivity



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TABLE OF CONTENTS

Getting Started	1
System Requirements	2
Additional Requirements	2
About Yoics	2
Camera Overview	3
LNE1001 Wired, Easy-Connect Internet Camera	3
LNE3003 Wired/Wireless, Day/Night, Easy-Connect Internet Camera	4
LNZ4001 Wired/Wireless, Day/Night, Pan/Tilt, Easy-Connect Internet Camera	5
Rear Panel	6
LNE1001	6
LNE3003 Series	6
LNZ4001	7
Setting Up the Camera	8
Positioning The Camera	9
Installation Warnings	9
Night Vision	9
Mounting the Camera	10
Connecting the Camera	11
Configuring the Camera	12
Opening DigiConsole	12
Finding Your Camera as an UPnP Device (optional)	13
Viewing Your Camera Using a Mac	14
Using The Camera	15
About DigiViewer	15
Setting Up Local Viewing	16
Adjusting Focus	17
Controlling PTZ	18
LNZ4001	18
Presets, Tours, and Patrols	20
A: Setting Presets	20
B: Customizing Tours	21
C: Using Patrols	23
Using Yoics	24
Registering with Yoics	24
Registering Your Camera	25
Removing a Camera from Yoics	27

Remote Viewing Using a Web Browser	29
Setting Up Wireless Connectivity	30
Remote Viewing Using MSN Messenger	31
Creating an MSN Account	31
Download and Install Messenger	31
Configuring MSN Messenger on Your Camera	32
Configuring MSN Messenger	33
Can't See the Video?	34
Remote Viewing Using iPhone, iPod touch & iPad	35
Downloading the App	35
Remote Viewing using the iPhone/ iPod Touch/ iPad	35
Adding a Camera	36
Using Lorex Live 2 / Lorex iMobile	36
Single Channel View	36
Full Screen View	37
Flip View	37
Mirror View	37
Deleting a camera	37
Quick Delete (Optional)	37
Advanced Controls	38
Controlling Multiple Cameras	38
Multiple View	38
Scroll View	38
Pan/Tilt Controls	39
Advanced Settings	39
Changing streaming protocols (Advanced)	40
Troubleshooting	41
DigiConsole	43
About DigiConsole	43
System Requirements	43
Using DigiConsole	44
Home	44
Find	45
Find Menu Options	45
Open device in browser	45
View Live Image	46
Refresh list of devices	46
Live Video Options	47
Open device in browser	47
Stop Live Video	47
Record Video Image	47
Mute Audio From Camera	47
Enable microphone	48
Full-screen Mode	48
Refresh the list of devices	48
Register	48
Installing DigiConsole	49

Uninstalling DigiConsole	50
Recording Live Video	51
Playing Recorded Video	52
DigiViewer	53
About DigiViewer	53
Opening DigiViewer	54
DigiConsole	54
Web browser	54
Surveillance	55
User	55
Main Display Screen	55
Main Menu	56
Advanced Controls Tool Panel	56
Audio	56
Still Image Capture Button	56
Advanced Controls Toolbar	57
Channel Display	57
PTZ	57
Picture	57
Rotate Image	57
Live Image	57
Recording Video (PC only, using Internet Explorer)	58
Adding Digiviewer as a Trusted Site	59
Events	61
Motion Events	61
HTTP Events	62
Discovery	63
UPnP	63
Preset	64
Home Position	65
Patrol Control	66
Alarm Input/Output	67
Alarm Input	67
Alarm Output	68
Settings	69
Preferences	70
Device Description	70
On Screen Display	70
Lighting	71
Device Setup	71
Local Network Settings	71
System Clock	72
OPTIONAL:	72
Network Configuration	73

Remote Access	74
Yoics Instant Networking	74
MSN Messenger	75
Dynamic DNS	75
Network Services	76
Outgoing Email Server	76
Network Recorder Server	77
Accounts	78
Current User Account	78
General User Accounts	79
Anonymous Guest Account	79
Wireless	80
Wireless Settings	80
Channels	81
Remote Cameras and Video Servers	81
System	82
Advanced Parameter Settings	82
Upgrading Firmware	84
System Log	85
Help	86
Appendix A: Camera Specifications	87
LNE1001	87
LNE3003	88
LNZ4001	89
Appendix B: Adding Cameras	90
Setting up Additional Cameras	90
Finding the Additional Cameras	90
Port Ranges	91
Adding Cameras to DigiViewer	92
Viewing Cameras	93
Appendix C: Network Connectivity	94
Locating the IP and MAC addresses	95
Appendix D: Router Port Forwarding	96
Appendix E: Auto Port Forwarding Wizard	97
Installation	97
Obtaining Your Router Model Number and Version	98
Example	98
Configuration	99
Initial Startup: Select language	99
Step 1: Populate the router database	99
Step 2: Enter your router settings	100
Step 3: Update the router settings	101
Step 4: Test your connection	101
Configuring multiple routers	101
Scenario A: Router/Modem combination + Router	102

Scenario B: Multiple Routers	102
Example	103
Appendix F: Setting Up DDNS Service	104
Configuring DDNS in DigiViewer	106
Appendix G: Connecting Alarm and Motion Devices	107
Appendix H: Remote Access with Internet Explorer	108
Internet Explorer Security Warnings	109
Appendix I: Setting Up HTTP Events.	110
Example	110
Positioning the Cameras	110
Setting a Preset	110
Entering HTTP Event Information	111
Result	112
Appendix J: Rebooting, Resetting, and Recalibrating the Camera	113
Rebooting the Camera	113
Restoring Factory Defaults	113
Resetting the Camera	114
Recalibrating the Camera	114
Appendix K: Registering, Removing, and Resetting Yoics Services ...	115
Registering Your Camera	115
Removing Yoics Services	118
Removing Services Using DigiViewer	119
Resetting Yoics Services	119
Troubleshooting Camera Registration	120

GETTING STARTED

The system comes with the following components:



LNE1001



LNE3003



LNZ4001



POWER SUPPLY



ETHERNET CABLE



MOUNTING STAND



MOUNTING KIT



**QUICKSTART GUIDE
DOCUMENTATION CD**



POWER SUPPLY



ETHERNET CABLE



**WIRELESS
ANTENNA**



**MOUNTING
STAND**



MOUNTING KIT



**QUICKSTART GUIDE
DOCUMENTATION CD**



POWER SUPPLY



ETHERNET CABLE



**WIRELESS
ANTENNA**



**MOUNTING
BRACKET**



MOUNTING KIT



**QUICKSTART GUIDE
DOCUMENTATION CD**

***CAMERA CONFIGURATION MAY VARY BY MODEL. PLEASE REFER TO YOUR PACKAGE FOR SPECIFIC DETAILS.
CHECK YOUR PACKAGE TO CONFIRM THAT YOU HAVE RECEIVED THE COMPLETE SYSTEM, INCLUDING ALL COMPONENTS SHOWN ABOVE.**

SYSTEM REQUIREMENTS

For setup and viewing, the camera requires the following:

- PC running Windows XP/Vista / 7
- Mac OSX 10.4 or later (Viewing only)
- Pentium 4 2.4 Ghz or above processor
- 1 GB of memory
- Internet connection
- Web browser: Internet Explorer 7 or later (with Active X), Mozilla Firefox, Safari

NOTE: If you are using a Mac, only certain functions are available on the camera. For details, see “Viewing Your Camera Using a Mac” on page 14.

Additional Requirements

To view your camera from a remote computer (remote viewing using Yoics), you may need to install the following:

- QuickTime® 7 or later: The QuickTime plug-in is required to view streaming video from your camera using Yoics. Download QuickTime at www.apple.com/quicktime/download
- QuickTime is also required for use with Web browsers other than Internet Explorer, i.e. Firefox, Safari

About Yoics

Yoics is secure, instant networking made easy. This camera is designed to work with Yoics easy-connect remote access, letting you connect to your camera anywhere, anytime. Visit www.yoics.com for more information on using Yoics.

NOTE: This manual refers to the camera operating using the Yoics Easy Connect Remote Access service. Yoics Easy Connect Remote Access service is subject to improvements and changes made by Yoics.

CAMERA OVERVIEW

LNE1001 Wired, Easy-Connect Internet Camera



1. **Focus:** Manually adjust the focus ring to sharpen the image.
2. **Lens:** 1/4" lens with a CMOS image sensor.
3. **Power LED Indicator:** Lights up solid blue when camera is powered on.
4. **Network Indicator:** Pulses blue during network access.
5. **Microphone:** Built-in microphone for listen-in audio over the network.
6. **Stand:** Assembled support stand for the camera.

LNE3003 Wired/Wireless, Day/Night, Easy-Connect Internet Camera



1. **Focus:** Manually adjust the focus ring to sharpen the image.
2. **Lens:** 1/4" lens with a CMOS image sensor.
3. **Power LED Indicator:** Lights up solid blue when camera is powered on.
4. **Network Indicator:** Pulses blue during network access.
5. **Microphone:** Built-in microphone for listen-in audio over the network.
6. **Stand:** Assembled support stand for the camera.
7. **Infrared LEDs:** 6 white-light LEDs for night vision.
8. **Wireless Antenna:** Removable wireless antenna.

LNZ4001 Wired/Wireless, Day/Night, Pan/Tilt, Easy-Connect Internet Camera



1. **Network Indicator:** Pulses blue during network access.
2. **Power LED Indicator:** Lights up solid blue when camera is powered on.
3. **Microphone:** Built-in microphone for listen-in audio over the network.
4. **Infrared LEDs:** 12 IR LEDs for night vision.
5. **Focus:** Manually adjust the focus ring to sharpen the image.
6. **Lens:** 1/4" lens with a CMOS image sensor.
7. **Wireless Antenna:** Removable wireless antenna.

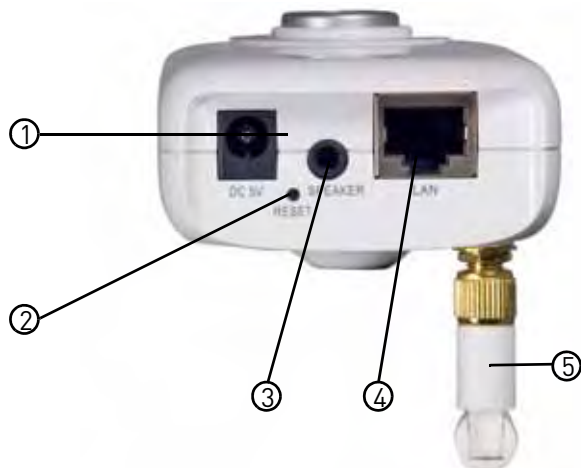
REAR PANEL

LNE1001



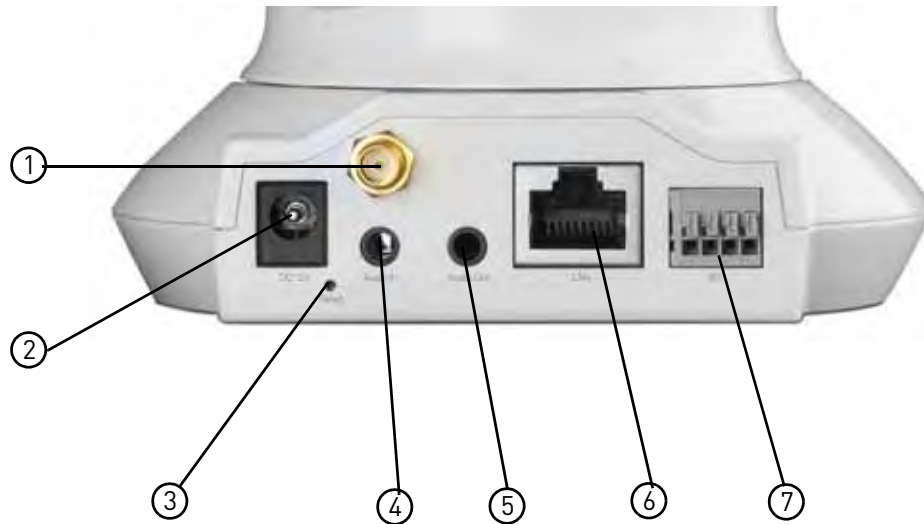
1. **Speaker:** 3.5 mm audio port for external speakers or other audio devices (not included).
2. **Reset:** Using a paper-clip, hold for 10 seconds to reset the camera to its default configuration.
3. **LAN:** Network port. Connect one end of the included network cable to this port, and then connect the other end of the network cable to a network router, switch, or active wall port.
4. **DC 5V:** Connect the 5V DC power adapter.

LNE3003 Series



1. **DC 5V:** Connect the 5V DC power adapter.
2. **Reset:** Using a paper-clip, hold for 10 seconds to reset the camera to its default configuration.
3. **Speaker:** 3.5 mm audio port for external speakers or other audio devices (not included).
4. **LAN:** Network port. Connect one end of the included network cable to this port, and then connect the other end of the network cable to a network router, switch, or active wall port.
5. **Antenna Connection (SMA):** Connect the wireless antenna—angle at 90°, 180°; rotate 360°.

LNZ4001



1. **Antenna Connection (SMA):** Connect the wireless antenna—angle at 90°, 180°; rotate 360°.
2. **12VDC:** Connect the 12V DC power adapter.
3. **Reset:** Using a paper-clip, hold for 10 seconds to reset the camera to its default configuration.
4. **Audio In:** 3.5 mm audio port for an external microphone (not included).
5. **Audio Out:** 3.5 mm audio port for external speakers or other audio devices (not included).
6. **Ethernet:** Network port. Connect one end of the included network cable to this port, and then connect the other end of the network cable to a network router, switch, or active wall port.
7. **Alarm Block:** Connection block for external alarm/motion devices (not included).

SETTING UP THE CAMERA

Basic setup for your network camera.

NOTE: Pedestal assembly refers to LNE1001 and LNE3003 series *only*.

To set up the camera:

1. Attach the stand to the base
2. Attach the mounting bracket to the stand.
3. Attach the camera to the completed pedestal. Use the thumb screws to secure the camera firmly.
4. Attach the wireless antenna to the back of the camera (LNE3003/LNZ4001 series *only*).



Figure 1.0 Assemble the pedestal



Figure 1.1 Attach pedestal to the camera

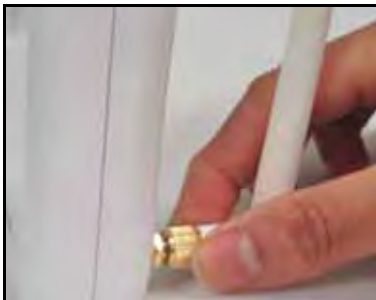


Figure 1.2 Attach the antenna to the camera (LNE3003 /LNZ4001 *only*)



Figure 1.3 Fully assembled camera (from top-right, LNE1001, LNZ4001, LNE3003)

POSITIONING THE CAMERA

Before you install the camera, carefully plan where and how it will be positioned.

Installation Warnings

- Select a location for the camera that provides a clear view of the area you want to monitor, which is free from dust, and is not in line-of-sight to a strong light source or direct sunlight.
- Route the cables so that they are not close to power or telephone lines, transformers, microwave ovens or other electrical equipment
- Select a location for the camera that has an ambient temperature between 32°F~113°F (0°C~45°C); Humidity 20-80% relative humidity (non-condensing)
- If you plan to install the camera in a location that has conditions not recommended in this manual, consult with a professional installer and consider use of a separate camera cover or housing
- Before starting permanent installation, have another person hold the camera for you while you verify its performance by observing the image on a monitor

Night Vision

The LNE3003 and LNZ4001 cameras include night vision LEDs, which provide the camera with the ability to view images in low light conditions. It is important to use the provided power adaptor when using the camera for prolonged periods in low light conditions.



MOUNTING THE CAMERA

The camera can be mounted to walls, ceilings, desks, tables, or other flat surfaces.

To mount the camera to a wall or ceiling:

1. Select a location for the camera. Make sure you are able to drive screws into the surface. If necessary, use the mounting bracket/pedestal to mark holes for drilling.
2. Use the small screws included in the mounting kit to secure the camera to the mounting bracket (LNZ4001 *only*; see figure 2.0).
3. Use the large screws and anchors to secure the camera and bracket/pedestal to the mounting surface (see figure 2.1).



Figure 2.0 Secure camera to bracket (LNZ4001 Series only)



Figure 2.1 Secure camera and bracket to wall (LNZ4001 Series)

Wall Mounting



Figure 2.2 Ceiling mounting (LNE1001/LNE3003 Series)



Figure 2.3 Secure camera and bracket to ceiling (LNZ4001 Series)

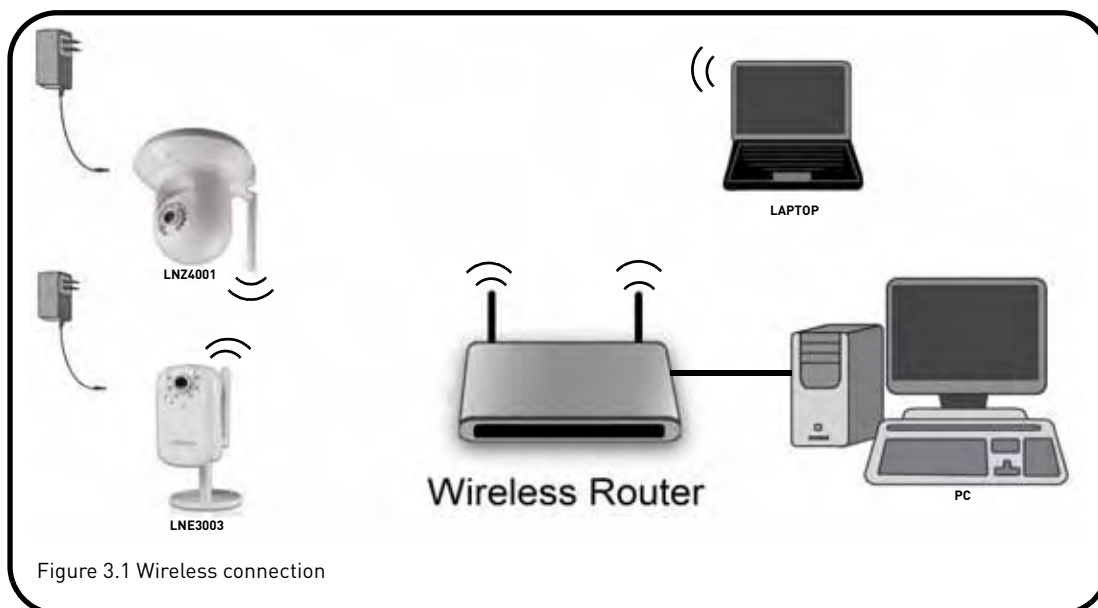
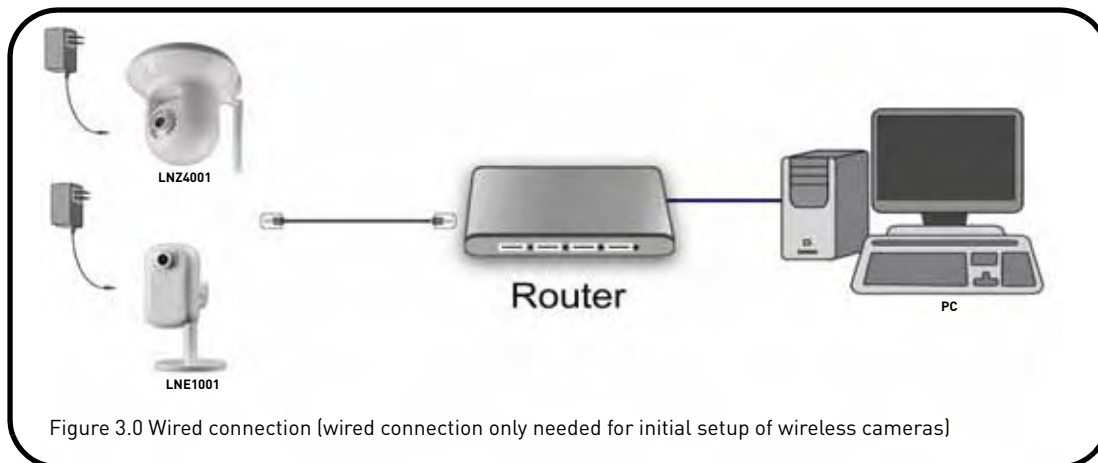
Ceiling Mounting

CONNECTING THE CAMERA

With the camera assembled, you can now connect the power and network cables.

To connect the camera:

1. Connect the included Ethernet cable to the Ethernet port on the rear panel of the camera.
2. Connect the other end of the Ethernet cable to a network router, switch, or active wall port.
NOTE: For a wireless connection, the camera only needs to be wired to your network for initial setup and configuration. Once the camera is fully setup, you can disconnect the Ethernet cable and connect to your network wirelessly.
3. Connect the power adapter to the camera.
4. Plug in the power adapter to a power outlet.



CONFIGURING THE CAMERA

With the camera setup and connected, you can now set up local viewing, remote viewing, and wireless connectivity.

ATTENTION: Before starting the installation, please ensure your computer is connected to the same local network as the camera and has access to the Internet.

NOTE: It is recommended to install the camera when your computer is wired to the local network. If you are using the wireless connection on your computer, please connect your computer to your wireless router using an Ethernet cable (not included).

NOTE: The following refers to an installation on Windows Vista. Some steps may differ in Windows XP.

Opening DigiConsole

Use DigiConsole to setup your camera.

NOTE: Prior to using DigiConsole, visit www.lorextechnology.com and check for software and firmware updates. Please refer to the DigiConsole & DigiViewer Software Manual for more information on upgrading firmware.

To open DigiConsole:

1. Insert the included DigiConsole software CD into your CD/DVD-ROM drive. DigiConsole automatically launches.



Figure 4.0 DigiConsole main window

2. If a security pop-up window appears, click **Unblock** and **Continue** to allow DigiConsole access to the Internet.

NOTE: If Autorun fails to start, go to Computer (My Computer for Windows XP users) and double-click the CD-drive to run the application. Follow step 2.

NOTE: You do not need to install DigiConsole to view live video from the camera. However, if you wish to record and playback video, you must install DigiConsole to your computer. Please refer to the DigiConsole & DigiViewer Software Manual for more information on installing DigiConsole.

- Click **Find** to discover Lorex cameras on your network.



Figure 4.1 Select your camera from the list of devices

- Double-click the selected camera to launch *DigiViewer* in your default browser.
- At the prompt, enter your **user name** and **password** (by default, **admin / admin**). For details on local viewing, see “Setting Up Local Viewing” on page 16.

Finding Your Camera as an UPnP Device (optional)

You can also discover the camera as an UPnP (Universal Plug and Play) device by opening Network in Vista (My Network Places for Windows XP users).

To discover your UPnP device:

- Turn on Network discovery and file sharing to find your camera as an UPnP device.

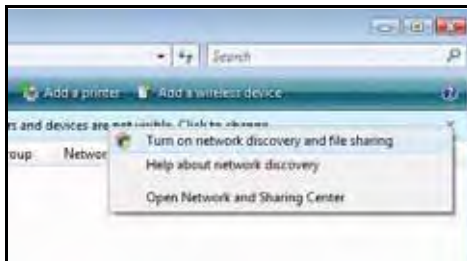


Figure 4.2 Turn on Network discovery

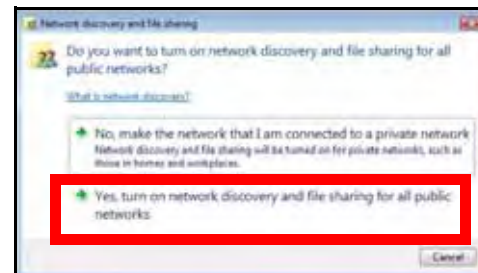


Figure 4.3 Allow Network discovery

- Double-click the selected camera icon to launch DigiViewer in your default browser.



Figure 4.4 Find your camera as a UPnP device

NOTE: If using Windows XP/Vista/7, it is highly recommended to use Internet Explorer (PC version) as your default browser.

- At the prompt, enter your **user name** and **password** (by default, **admin / admin**). For details on local viewing, see “Setting Up Local Viewing” on page 16.

Viewing Your Camera Using a Mac

If you are using one of the Lorex network cameras with a Mac, you can view your camera using the Safari web browser.

NOTE: If using a Mac, you will not be able to record live video directly to your Mac.



Figure 5.0 DigiViewer in Safari using Mac OS X

To view your camera using a Mac:

1. Open **Safari**. Click  (Bookmarks button) in the Bookmarks bar.
2. Under Collections, select **Bonjour**. The Bonjour list opens.

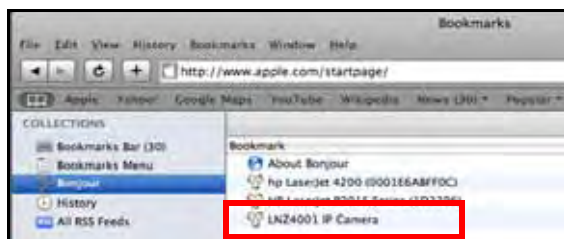
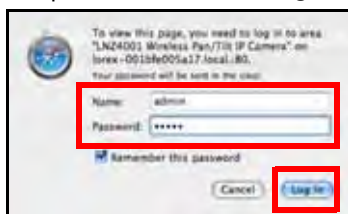


Figure 5.1 Double-click your device from the Bonjour list

3. Double-click your device from the Bonjour list.
4. Log in using your user name and password and select the box for Safari to remember your password. Click **Log In**. DigiViewer launches in the main Safari window.



Default Username: **admin**

Default Password: **admin**

Figure 5.2 Your device may need to reconnect with the new wireless settings

NOTE: Safari 4 has different security settings. To ensure login, please select this box if using Safari 4.

NOTE: For details on viewing your camera from a remote location using a Mac, see "Using Yoics" on page 24.

USING THE CAMERA

DigiConsole helps you setup and configure your camera. You will use *DigiViewer* for viewing, playback, and further camera configurations.

NOTE: For complete details on DigiViewer functions, see "DigiViewer" on page 53.

About DigiViewer

DigiViewer is a browser-based remote surveillance software that lets you view, playback, record, and configure your network camera from a remote location.

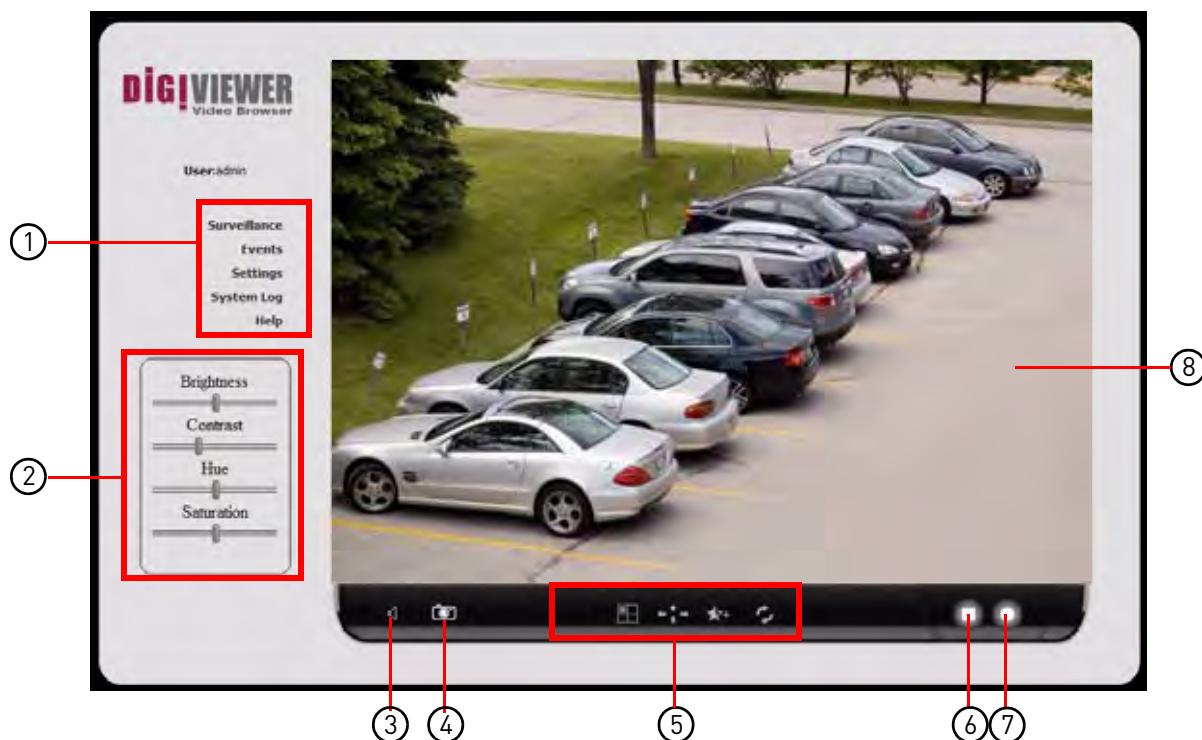


Figure 6.0 DigiViewer main screen

1. **Main Menu:** View or change configuration for Surveillance, Events, Settings, System Log, and Help.
2. **Advanced Control Panel:** Change channel displays, control PTZ cameras, or adjust picture once activated from the Advanced Controls Toolbar the bottom of the main window.
3. **Audio:** Controls the audio on the camera.
4. **Screenshot:** Click to capture the currently displayed video image as a still image in a separate browser window. This still image can be saved as a JPG file.
5. **Advanced Control Toolbar:** Adjust channel display, PTZ, Picture, and Rotate Image.
6. **Play/Stop:** Start/stop the live image.
7. **Record:** Record live video onto the local hard disk (**Internet Explorer on the PC only**).
8. **Main Display Screen:** View streaming live video from the camera in the main window.

Setting Up Local Viewing

With your camera now detected by DigiConsole, you can begin to view live images from your camera on your local network. When using Internet Explorer, you need to install ActiveX in order for DigiViewer to run properly; other supported browsers will require QuickTime.

To setup local viewing:

1. With DigiViewer open in your default browser, enter **admin** in the user name text field and **admin** in the password text field. If using Internet Explorer, you will be prompted to Install ActiveX Control.
2. Click the warning bar and select **Install Active X Control**.
3. Click **Unblock** or **Continue** in any subsequent security windows (this is only required for initial setup).
4. Click **Install** to start the installation. DigiViewer resets and live video streams in your browser.



Figure 6.1 Select ActiveX Install from the warning bar

ATTENTION: For security reasons, you should change the default username and password (admin) for the camera. For details on changing your user name and password, see "Accounts" on page 78.

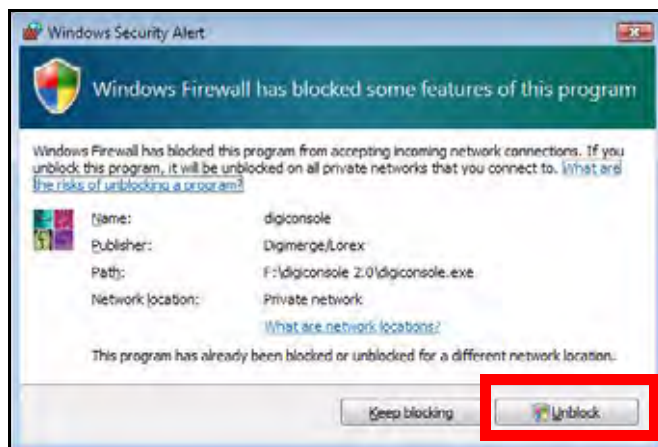


Figure 6.2 Windows Security/Firewall

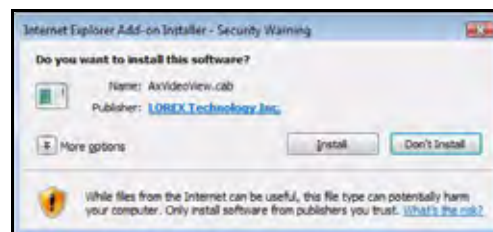


Figure 6.3 Install ActiveX

Adjusting Focus

You can manually adjust the focus of the camera.

NOTE: Make sure the camera is powered on and connected to a network before attempting to adjust the focus.

NOTE: Please remove the clear vinyl cling over the lens before using the camera.



To adjust the focus:

1. Open DigiViewer in your default browser, OR double-click the name of your camera in the Network menu (Start → Network) if you have Windows Vista/7.
NOTE: You can open DigiViewer from DigiConsole or directly in your browser using your camera's IP address.
2. Using DigiViewer as a monitor, turn the ring at the lens of the camera back and forth until image is in focus.



Figure 6.4 Manual focus ring (LNE3003 shown)

CONTROLLING PTZ

LNZ4001

ATTENTION: This section applies to LNZ4001 Series cameras only.

To use PTZ (Pan, Tilt, Zoom) functions:

1. Open DigiViewer in your default browser.
2. Log in to your camera using your **user name** and **password** (by default, admin / admin).
3. Click  at the bottom of the main display screen. The PTZ Control pane appears on the left side of the main display screen.
4. Use the navigation arrows to position the camera.

NOTE: Zoom will not be saved as part of the preset.

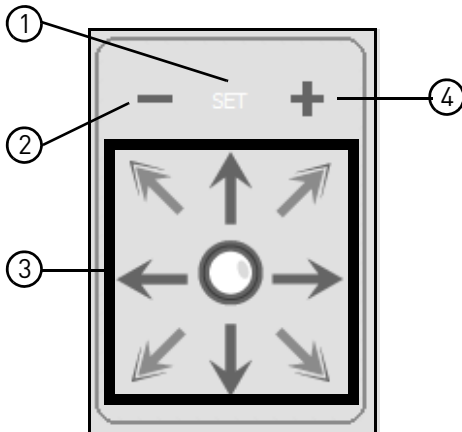


Figure 7.0 PTZ Control pane

1. **Set:** Open Preset and Patrol Control pane.
2. **-:** Zoom out.
3. **Navigation:** Pan and tilt the camera.
4. **+:** Zoom in.

4. Click **SET** to open the Preset/Patrol Control pane.

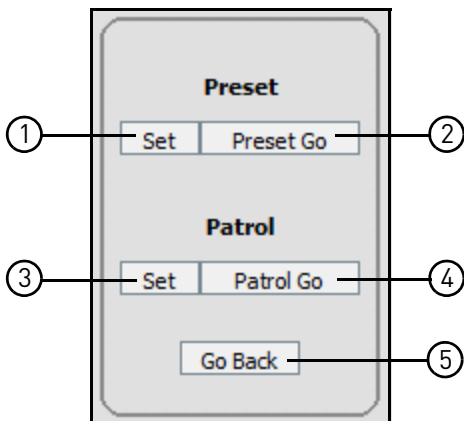


Figure 7.1 Preset / Patrol Control pane

1. **Set (Preset):** Enter a preset number for the current position of the camera (i.e. Preset 1).
2. **Preset Go:** Open the list of presets.
3. **Set (Patrol):** Open the list of tours.
4. **Patrol Go:** Activate patrol of the selected tour.
5. **Go Back:** Return to the PTZ control window.

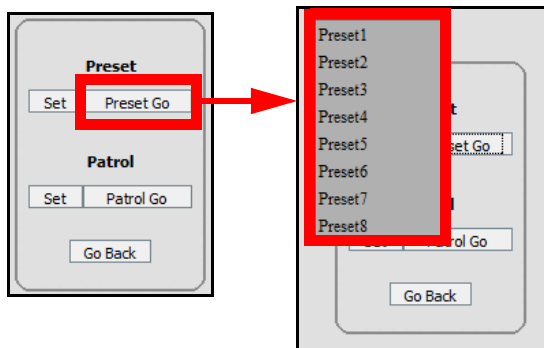


Figure 7.2 Preset List

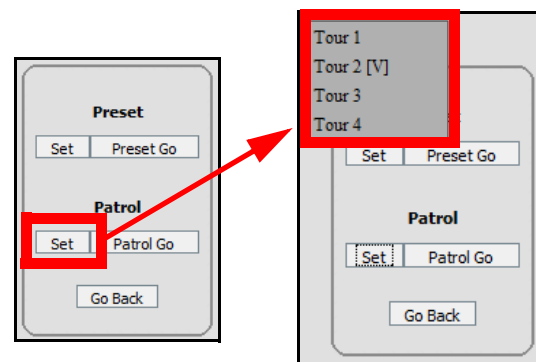


Figure 7.3 Tour List (V=default)

Presets, Tours, and Patrols

Preset, Tour, and Patrol are advanced features of a PTZ Internet camera. You can use DigiViewer to access and customized these advanced features.

A: Setting Presets

To set Presets:

1. Use the navigation arrows to position the camera at point where you want to patrol.
 - Click  to pan left and right.
 - Click  to tilt the camera up and down.
2. From the PTZ Control pane, click **SET** (see figure 7.4). The PTZ Control pane displays Preset/Patrol controls.
3. Under Preset, click **Set** (see figure 7.5).
4. From the prompt, "Applied Successfully," click **OK**.
5. Click **Go Back** to set a new position and repeat steps 1~4. You can set up to 32 positions; each Tour can have up to 8 positions.
6. *OPTIONAL*: Click **Preset Go** to view the list of set presets (i.e. Preset1, Preset2, etc.). Select a preset from the list. The camera will reposition itself to the selected preset.

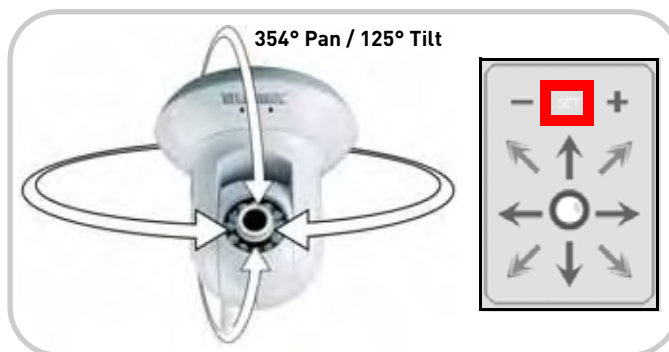


Figure 7.4 Set a position for the camera and then click Set.



Figure 7.5 In the Preset/Patrol pane, click Set to save the preset.

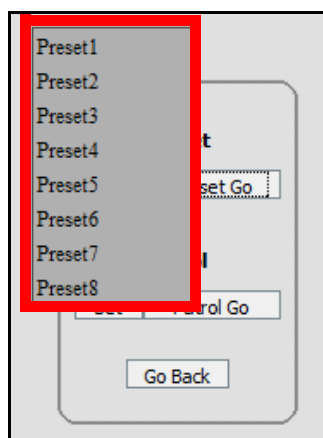


Figure 7.7 Click Preset Go to open list of presets

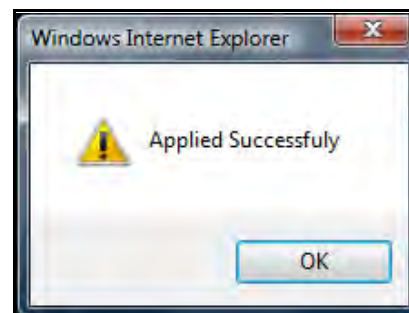


Figure 7.6 Click OK and repeat steps 1~4.

B: Customizing Tours

To customize a tour:

1. From Digiviewer, click **Events** and then click **Patrol**.
2. Select a Tour Number (e.g. Tour1).
3. Under Tour Position, click the **Order drop-down menu** and select an **Order number** (first will be the default position). Order refers to the position in the Position Number List (see figure 7.9).

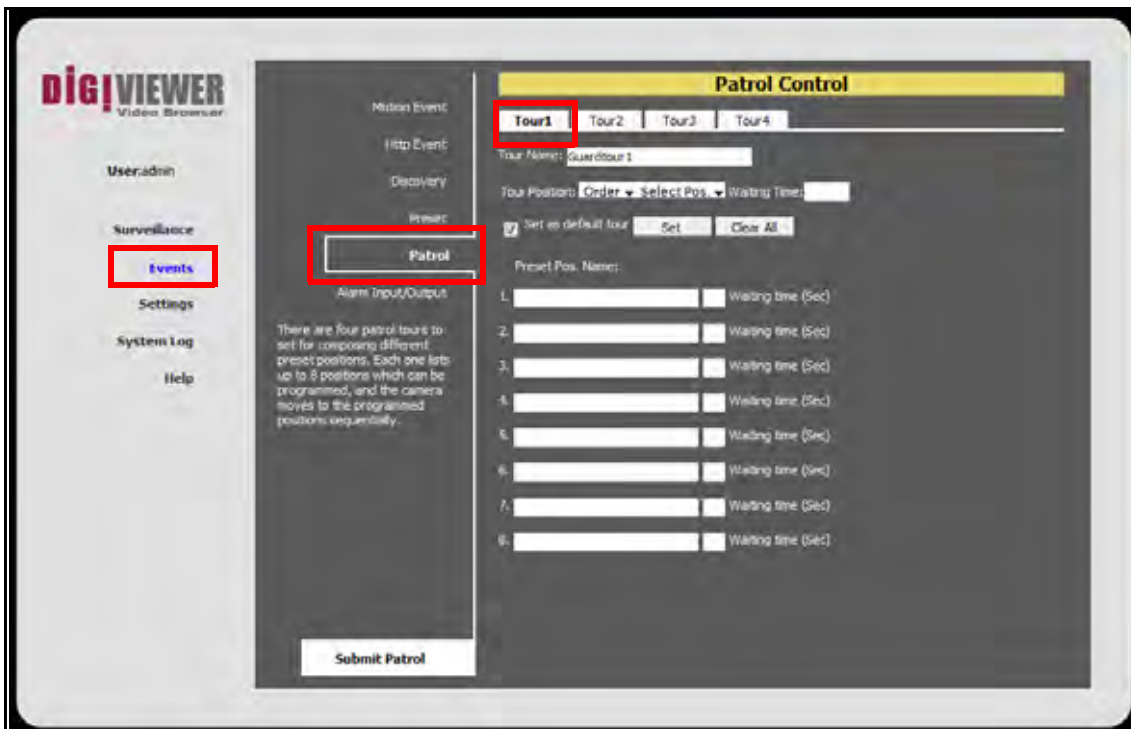


Figure 7.8 Patrol Control menu

4. Click the **Select Position drop-down menu** and select one of the positions you set in section A.
5. Under Waiting Time, enter a time (in seconds—99 seconds maximum) for the camera to pause on the position and then click **Set**. The position appears in the Preset Position List (see figure 6.9).

6. Repeat the order and position selection until you have completed the tour (each tour can have up to eight preset positions).

The figure consists of two screenshots of the 'Patrol Control' web interface, illustrating how tour positions are mapped to preset positions.

Top Screenshot: The 'Tour1' tab is selected. The 'Tour Name' is 'Guardtour1'. The 'Tour Position' dropdown is set to '1', and the 'Waiting Time' is '10'. Below, the 'Preset Pos. Name:' section shows a list of 8 preset positions. The first entry, '1. Preset1', has a waiting time of '10'. A red box highlights the '1' in the 'Tour Position' dropdown, and a red arrow points from it to the '1' in the first preset position name.

Bottom Screenshot: The 'Tour1' tab is selected. The 'Tour Name' is 'Guardtour1'. The 'Tour Position' dropdown is set to '5', and the 'Waiting Time' is '15'. Below, the 'Preset Pos. Name:' section shows a list of 8 preset positions. The fifth entry, '5. Preset1', has a waiting time of '15'. A red box highlights the '5' in the 'Tour Position' dropdown, and a red arrow points from it to the '5' in the fifth preset position name.

Figure 7.9 Tour positions—Tour position 1 appears as Preset Position 1 in the list (default). Tour position 5 appears as Preset Position 5 in the list.

7. Under Tour Name, enter a name for your tour or leave as default (Guardtour1).
8. Click **Submit Patrol**.

C: Using Patrols

Use the saved tour data to set an automatic patrol for the PTZ network camera.

To set a patrol:

1. From the DigiViewer main menu, click **Surveillance** and then click .



Figure 7.10 Click Surveillance to return to live viewing and click "Play."

2. Click , and from the PTZ Control pane click **Set** (see figure 6.11). The Preset/Patrol pane opens.

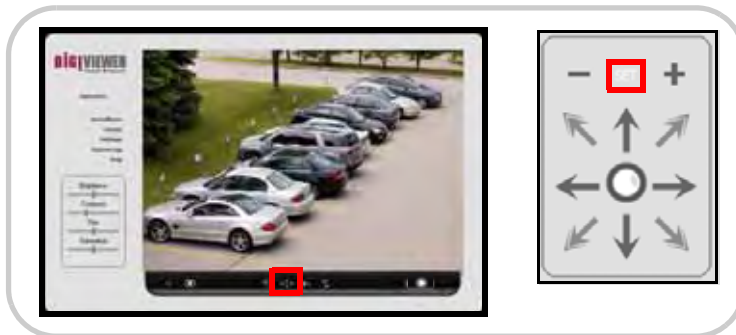


Figure 7.11 Open the PTZ Control pane and click Set.

3. Under Patrol, click **Set**, and then select the **Tour number** you saved in section B.
4. Click **Patrol Go** to start/stop the patrol tour.

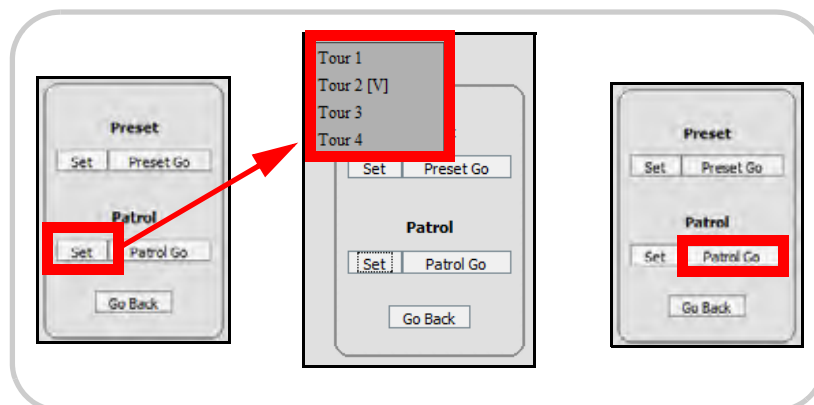


Figure 7.12 Select a Tour and click Patrol Go.

USING YOICS

The camera is designed to work with Yoics easy-connect remote access. Yoics remote viewing allows you to access your camera from a remote location without needing to configure your router.

Prerequisite: Decide whether you want your camera to connect to Yoics in wired or wireless mode. If you have a wireless camera, you must connect to your camera in wireless mode before creating a Yoics account. For details, see "Setting Up Wireless Connectivity" on page 30.

Registering with Yoics

You must connect the camera to the same local network as your computer before registration. Register for a free Yoics account to view your camera from any remote computer with an Internet connection, or from a 3G iPhone or iPod touch.

To register with Yoics:

1. From DigiViewer, click **Settings** and then click **Remote Access**.
2. Under Yoics Instant Networking, click **Register this camera**. Ensure the checkbox beside "Enable Yoics Remote Access & Sharing" is selected. The Lorex Remote Viewing page opens (<http://lorex.yoics.com>).

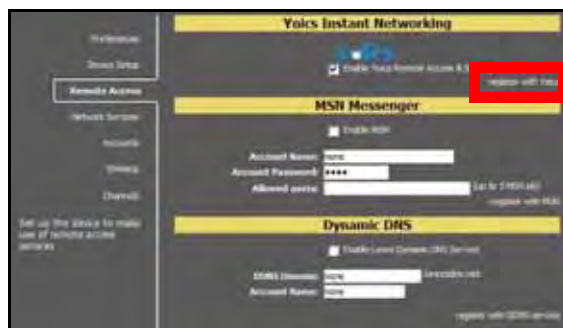
A detailed view of the registration form fields, which are highlighted with a red box in the previous image. The fields include: 'Email Address *', 'Confirm Email', 'Password *', 'Confirm Password', 'Security Question *' (with a dropdown menu showing 'Favorite Pet's Name'), 'Security Answer *', 'First Name *', 'Last Name *', 'Gender' (dropdown with 'Male' selected), 'Age Range' (dropdown with 'Under 18' selected), 'Household Income' (dropdown with 'Not specified' selected), 'Country' (dropdown with 'Not specified' selected), 'Referred By' (dropdown with 'from a friend' selected), 'Keep me posted' (checkbox checked), and 'Security Code *' (a box containing '2D319'). A 'Register' button is at the bottom right.

Figure 8.0 DigiViewer settings / registering with Yoics

3. Enter your personal information in the required fields (marked with *) and click **Register**. You will be sent an email confirming your registration. Use the email address and password you entered when registering to login to lorex.yoics.com

Registering Your Camera

Once you have created an account with Yoics, you must register your camera in order to enable Yoics Easy Connect remote viewing.

To register your camera:

1. In your browser go to <http://lorex.yoics.com> and login using your username and password (from the confirmation email). Click **Yes** in any security windows.
2. From the Lorex pop-up, click **Continue**. The Register New Devices page opens.

NOTE: Please watch for Yoics pop ups; if the pop up is does not include the LOREX logo, you can click Remind Me Later to continue with the setup.



Figure 8.1 Click "Complete Registration"

3. To register the camera for Video Stream Service, enter a name for the camera in the Yoics Device Name text field and click **Register Now**. The camera will be registered to your camera under "My Stuff."



NOTE: You will see the above camera icon for all camera models (LNE1001, LNE3003, and LN24001).

4. Your camera and will appear under "My Stuff / Cameras / [camera name]."



Figure 8.4 Completed registration



NOTE: For complete details on registering with Yoics and information on resetting or deleting services, see "Appendix K: Registering, Removing, and Resetting Yoics Services" on page 115.

5. Double-click your IP camera to view live camera images. Double-click on the camera's name to view the feed. When prompted, enter the IP Camera's **user name (admin)** and **password (admin)**.

Removing a Camera from Yoics

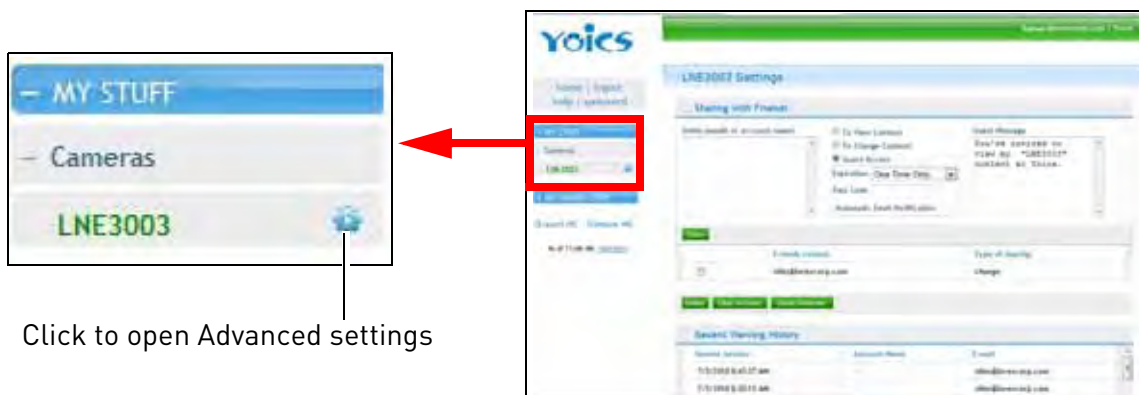
You may need to remove the camera from the Yoics service if you decide to change a wireless camera into wired camera, or vice versa. Since the wireless cameras (LNZ4001, LNE3003) are capable of connecting through a wired and wireless connection, you may want to change the way your camera connects (wired or wireless). Before you change the type of connection of your camera, you must first remove the camera from the Yoics service.

Removing a device from Yoics is a two step process. First, you must remove the device from the Yoics website. Next, you must reset Yoics within the camera.

Step 1 of 2:

To remove a camera from the Yoics service:

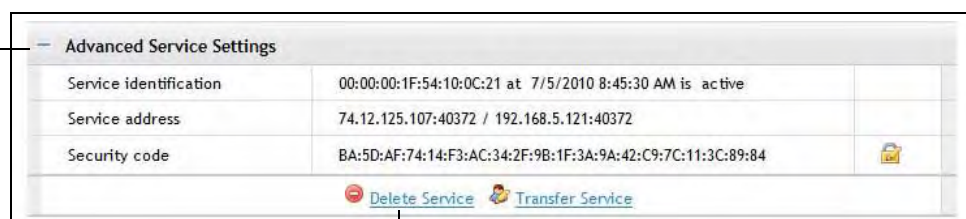
1. Log in to your Yoics account at <http://lorex.yoics.com>.
2. Under "My Stuff", click () beside the name of your camera.
 - The Advanced Settings options open.



Click to open Advanced settings

3. Scroll down and click the plus (+) symbol beside **Advanced Service Settings**.
 - The setting window opens and displays a list of connected items.

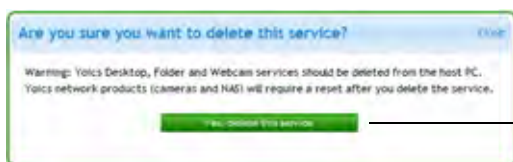
Click (+) to expand window



Click Delete Service

4. Click **Delete Service**.

- Wait until the "Are You Sure You Wish To Delete This Service" menu box appears. Click **Yes, delete service** to remove the connected device.

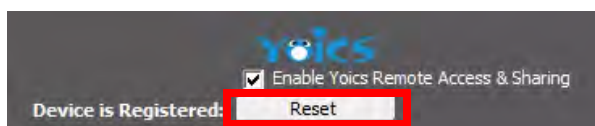


Click here to remove device

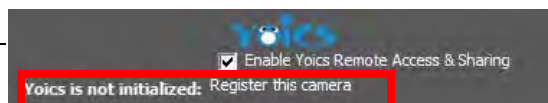
Step 2 of 2:

To reset the Yoics service in the camera:

- Log in to the camera through Digiconsole, or click on **Start→Network** (on Windows Vista/7), and double-click the name of your camera. Enter the camera's user name and password to log in (default username: **admin** ; default password: **admin**).
- Click **Settings→ Remote Access**.
- Under Yoics Instant Networking, click **Reset**. Please allow a few moments for DigiViewer to update.



- Under Yoics, a message will read "**Yoics is not initialized: Register this camera**". Your camera has now been remove from Yoics service.



Now you may reconnect to your camera in wired or wireless mode to re-register your camera with Yoics. For details on connecting to your camera wirelessly, see "Setting Up Wireless Connectivity" on page 30.

How do I tell which Mac address is wired or wireless?

Look at the 7th and 8th number of the Mac address. The smaller value will be the wired address. The larger value will be the wireless address. This applies to Lorex LN series cameras only. The wired and wireless Mac address is also printed on a sticker that is affixed to the camera.

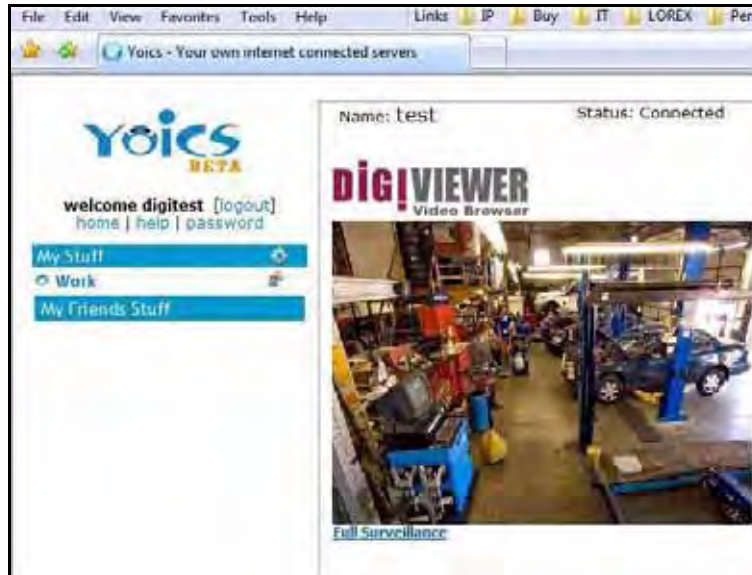


In this example, the Mac address with the "20" is the wired connection.
The Mac address with the "21" is the wireless connection.

Remote Viewing Using a Web Browser

To access your device remotely from a web browser:

1. In your browser, go to <http://lorex.yoics.com> and log in using your **user name** and **password**. Click **Yes** in the security pop-up window.
2. Under My Stuff, click the camera you want to view.
3. Enter you **user name** and **password** (by default, **admin**) to login to your camera.



ATTENTION: You will be able to view live video for 5~10 minutes then the connection will drop. To refresh the connection, click the camera icon again.

Figure 8.6 Remote viewing using a Web browser

NOTE: You may need to install QuickTime for the Yoics site. If you have not installed the QuickTime plug-in, your browser will prompt you to do so now (www.apple.com/quicktime/download).

NOTE: If you have an external (WAN) static IP address or you have registered with the free LOREX DDNS service, you can configure your router to port-forward the incoming Internet connections to the camera. Use the static IP address or your customized lorexddns.net URL in the address field of your browser to access your camera. Yoics registration is not required when using this option. For details on setting up a FREE Lorex DDNS account, see "Appendix F: Setting Up DDNS Service" on page 104. For details on port-forwarding your router, see "Appendix D: Router Port Forwarding" on page 96.

ATTENTION: As a security measure, using Yoics remote viewing (PC or mobile) from one location will disable the option to use the same Yoics ID from a different remote location for approximately 30 minutes.

NOTE: You can also use MSN's Windows Live Messenger as an alternate remote viewing option. For details, see "Remote Viewing Using MSN Messenger" on page 31.

Setting Up Wireless Connectivity

ATTENTION: This section is applicable to wireless camera models *only*.

ATTENTION: The cameras are B/G wireless devices. N wireless routers must be in "mixed B & G" mode (not in N mode) to detect the camera.

Prerequisite: Set up the camera through a wired connection. For details, see "Configuring the Camera" on page 12.

To setup wireless connectivity:

1. From DigiViewer, click **Settings** and then click **Wireless**. DigiViewer automatically scans for any wireless networks.
2. If not already enabled, select **Enabled** from the Wireless Mode drop-down menu.

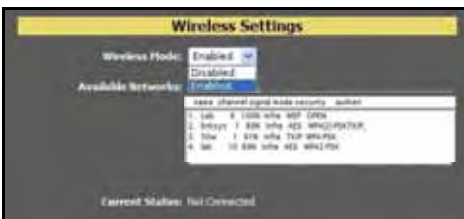


Figure 8.7 Enable a wireless connection

3. From the list of available networks, select the wireless network for the device. If protection/encryption is enabled on the wireless router, you must enter the network password.

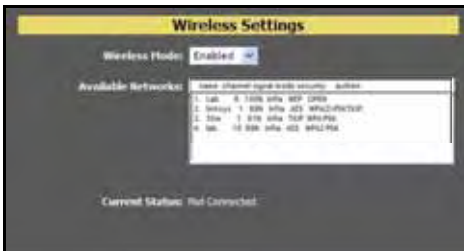


Figure 8.8 Select your wireless connection (enter password if necessary)

4. Click **Submit Wireless**. Allow DigiViewer a few moments to apply your new connection settings.

NOTE: Changing wireless settings may require devices to reconnect.



Figure 8.9 Your device may need to reconnect with the new wireless settings

5. Click on **Settings→Preferences**. Beside "Wireless IP Address", there should be a populated IP address. This means that the wireless connection has been connected.
6. Disconnect the network cable from the camera.
7. Double-click the camera in the the Windows Network menu (**Start→Network**) to launch DigiViewer in your default browser.

NOTE: If using a Mac, use Bonjour in Safari to auto-detect your camera.

REMOTE VIEWING USING MSN MESSENGER

Your Easy-Connect Remote Surveillance Internet Camera can be accessed remotely using MSN's Windows Live Messenger™. Remote Viewing through Messenger involves first creating an MSN/Windows Live account for the camera, configuring your camera in DigiViewer, and adding the camera as an MSN/Windows Live contact in Messenger.

Creating an MSN Account

The first step in accessing your camera through Messenger is to set up a new MSN account for the camera.

To create a new MSN account:

1. In your web browser, go to www.msn.com and click on **Hotmail**.

NOTE: You can also register for MSN through DigiViewer (Settings>Remote Access and click **Register with MSN**).

2. Click **Sign up** to create a new account strictly for your Internet Camera.
3. From the "Create A Windows Live ID" page, enter a **Windows Live ID (user name)** and **password** and complete the **required personal information**.

NOTE: Both @live.com and @hotmail.com will work with your Internet camera.

4. Click **I accept**. With the successful creation of your new MSN account, you will be taken to your Hotmail inbox. Use this new MSN/Windows Live account to access your Internet Camera through Messenger. For example, **Lorex_Cam_1@hotmail.com**.

NOTE: If you have more than one camera on your network (up to a maximum of 6) and want to view the cameras using Messenger, you will need to create an MSN account for **each camera**.

Download and Install Messenger

If not already installed on your PC, you can download Messenger from MSN.com or from microsoft.com.

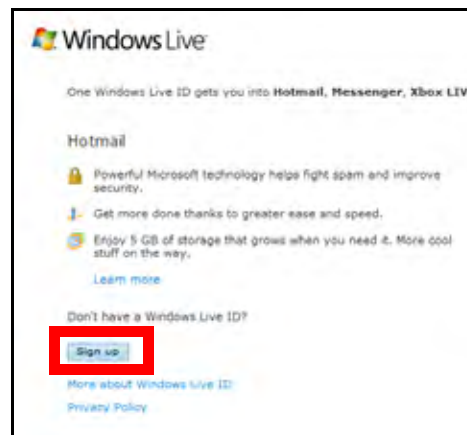


Figure 9.0 Create an MSN account for your camera

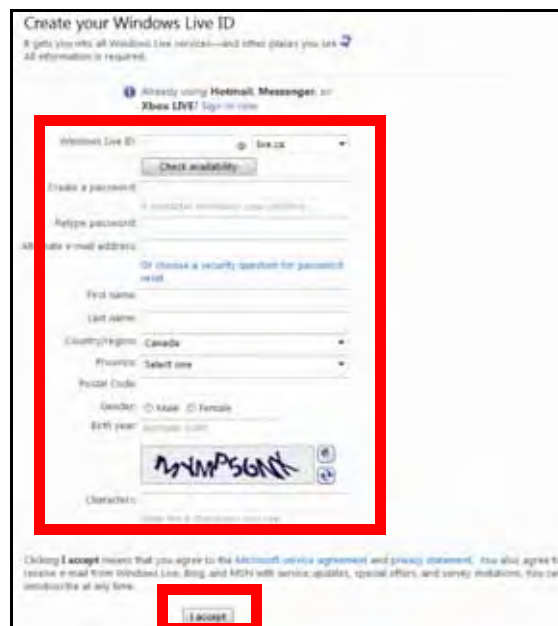


Figure 9.1 Enter required information

Configuring MSN Messenger on Your Camera

Once you have registered a new MSN account for your camera, you need to configure your camera's network settings to allow you to access it remotely using Messenger.

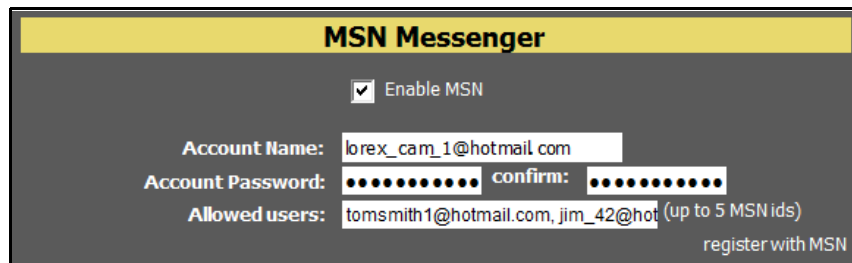


Figure 9.2 Enter the MSN address of the camera along with the MSN addresses of allowed users

To configure Messenger on your camera:

1. Open DigiViewer in your default browser.
2. Click **Settings** and then click **Remote Access**.
3. Under MSN Messenger, select **Enable MSN**.
4. Under Account Name, enter your newly created MSN/Windows Live user name. For example, **Lorex_Cam_1@hotmail.com**.
5. Under Account password, enter your **MSN account password**. Re-enter the password to confirm.
6. Under allowed users, enter up to 5 **MSN/Windows Live email addresses**. Make sure to add one of your active MSN/Hotmail addresses. Separate the addresses with a comma and a space. For example, tomsmith@hotmail.com, jim_jones@hotmail.com, etc.
7. Click **Submit Remote** to save your settings. Please allow a few moments for your camera to update.

Configuring MSN Messenger

With your camera configured for MSN in DigiViewer, you can add the camera's MSN address as one of your contacts in Windows Live Messenger.

To configure Windows Live Messenger:

1. On your PC, open Messenger (Start>Programs>Windows Live>**Windows Live Messenger**).
2. Sign in to Messenger using an **active MSN/Windows Live account**. **DO NOT** use the newly created account for your Internet camera.
3. You should immediately receive a prompt from the address of your Internet camera. Click **OK** to add the camera as a contact.
4. After a few moments, you should receive a message from the camera address. Click the prompt to view the camera's profile.

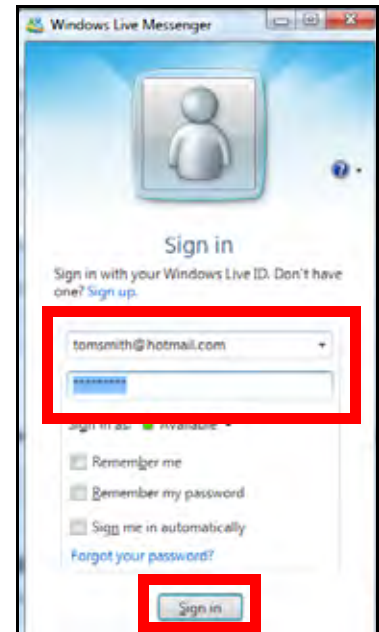


Figure 9.3 Sign in to MSN with an active account

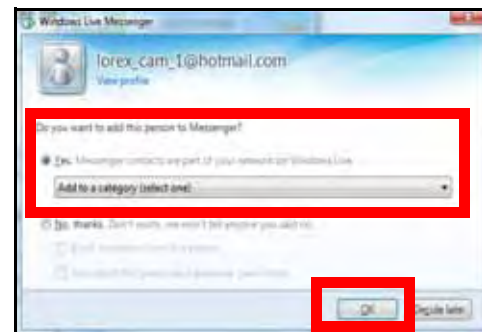


Figure 9.4 Add the camera as a contact

5. Click the web-cam icon in the top-left corner of the profile window and select **View this contact's webcam**. After a few moments you will be viewing live video from your camera.

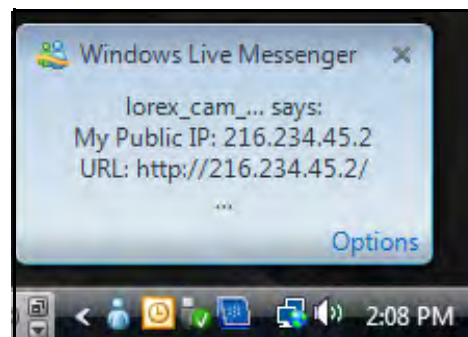


Figure 9.5 Click the prompt to view the profile

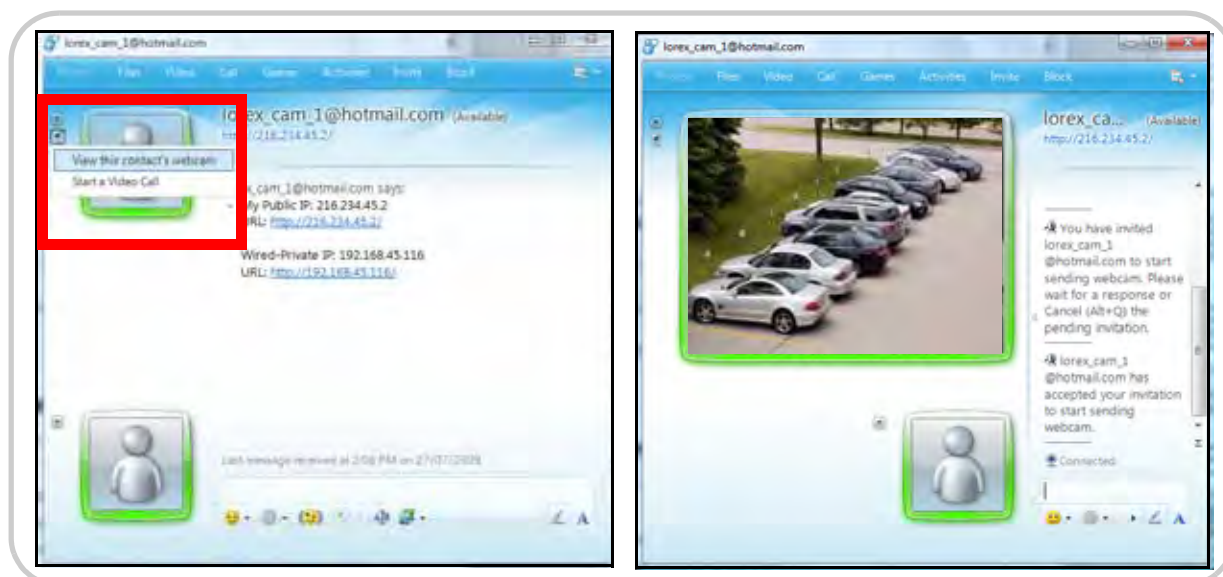


Figure 9.6 View the contact's webcam to see live video from your camera (image simulated)

Can't See the Video?

- Check the you have entered the correct MSN information in DigiViewer
- Do not select "Start a Video Call" —always select **View this contact's webcam**

REMOTE VIEWING USING IPHONE, IPOD TOUCH & IPAD

System Requirements

1. iPhone/iPod Touch users: Must have OS version 3.1.2 or greater.
2. iPad users: Must run OS version 3.2 or greater.

Compatible cameras

- Lorex LNE1001, LNE3003, and LNZ4001

The iPhone, iPod Touch and iPad are capable of remotely viewing the LN series cameras. To do this, you will need to download an App onto your device.

- iPhone, iPod Touch Users must download the **Lorex Live 2** App from the App store.
- iPad users must download the **Lorex iMobile** App from the App store.

Downloading the App

You must download the application from the Apple App Store.

NOTE: You must create an App Store account before you can download content. A valid credit card is required to create an account.

- Launch the **App Store** application from your device.
- iPod, iPod Touch users: **Search for Lorex Live 2**
- iPad users: Search for **Lorex iMobile**.

Remote Viewing using the iPhone/ iPod Touch/ iPad

Prerequisites

1. Port forward ports **80, 554 and 8070** using the Lorex Auto Port Forwarding Wizard
 - For details, see "Appendix E: Auto Port Forwarding Wizard" on page 97.
2. Create a DDNS account.
 - For details, see "Appendix F: Setting Up DDNS Service" on page 104.
3. Enter your DDNS information into your camera.
 - Navigate to **Settings→Remote Access** in Digiviewer.



Select checkbox

Enter your DDNS domain and Account name. [i.e. if your ddns name is tomsmith.lorenzddns.net, enter only tomsmith.]

Starting Lorex Live 2 / Lorex iMobile

- Touch the **Lorex Live 2** icon to run the application.

Adding a Camera

After registering for Lorex DDNS, you can add a Lorex LN Series Network Camera to Lorex Live Mobile.

To add a camera:

1. Open Lorex Live 2.
2. From the Main screen, tap the  button in the top-right corner.
3. Under ID, enter the name or location of your LN

Series Network camera and tap  .
For example, "Office," "Living Room."

4. Under General, enter the following information and

tap  :

- **URL-DDNS**: enter your complete Lorex DDNS domain name (i.e. tomsmith.lorexddns.net); you can also enter your local or external IP address
- **PORT**: By default, 80. Leave the default port as 80 unless you have manually changed the port in DigiViewer (only recommended for advanced users)
- **USERNAME**: enter the user name of your camera (by default, admin)
- **PASSWORD**: enter the password of your camera (by default, admin)
- **MODEL**: Select your camera model (LNE1001, LNE3003, or LNZ4001)

5. Tap  and then tap the  button to view your camera.



Enter a name/location of your camera.

Using Lorex Live 2 / Lorex iMobile

Single Channel View

- From the Main screen, tap the  button to view your camera.



Full Screen View

- While in Single-Channel view, rotate your iPhone sideways to change landscape orientation.

Flip View

- While in Single-Channel view, tap **Flip** at the bottom of the screen. The image flips vertically.

Mirror View

- While in Single Channel view, tap **Mirror** at the bottom of the screen. The image flips horizontally.

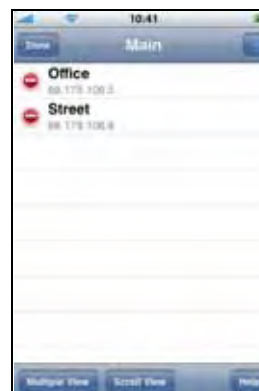


NOTE: You may need to wait a few moments for the image to adjust. Tap "Flip" or "Mirror" only once. Speed of image processing depends on the status of your network connection.

Deleting a camera

To delete a camera:

1. From the Main screen, tap the **Edit** button.
2. Tap the  button.
3. Tap the **Delete** button.
4. Tap the **Done** button.



Delete screen.

Quick Delete (Optional)

1. From the Main screen, swipe the tip of your finger to the left along one of the cameras.
2. Tap the **Delete** button.



Quick delete.

Advanced Controls

Controlling Multiple Cameras

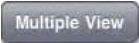
If you have added several cameras (up to 8) to Lorex Live 2/ Lorex iMobile, you can take advantage of the split-screen and scroll views built into the application.

Attention: Video streaming speed is dependant on your Wifi / 3G connection on your device. If you stream multiple camera images at once into your iPhone/ iPod Touch/iPad via WiFi / 3G connection, you may experience slow images due to WiFi/ 3G bandwidth constraints.

NOTE: The Multiple View and Scroll View buttons will only appear on the Main screen if you have two or more cameras connected to Lorex Live Mobile.

Multiple View

Use Multiple View to view your connected cameras in a quad split-screen view.

1. From the Main Screen, tap the  button. A 4-camera quad split-screen view opens.
2. Rotate your iPhone/iPod Touch/ iPad sideways. Lorex Live 2/ Lorex iMobile will adjust for landscape orientation.
3. To exit, tap the  button.



Quad View (landscape).

Scroll View

Use Scroll View to quickly view each connected camera in single channel view.

To use Scroll View:

1. From the Main screen, tap the  button.
2. Swipe your finger left/right to scroll between connected cameras.



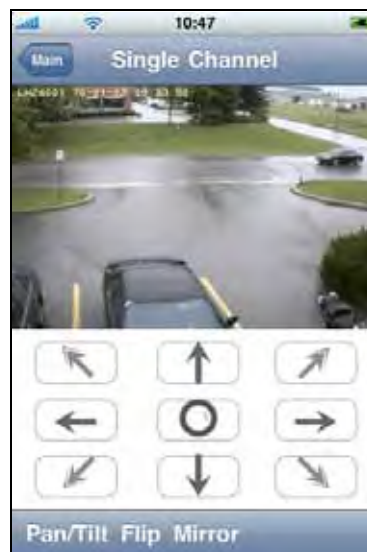
Scroll View

Pan/Tilt Controls

If you are using a Lorex LNZ4001 Network Camera, you can use the Pan/Tilt controls to use the pan and tilt functions of the LNZ4001.

To use Pan/Tilt controls:

1. From the Main screen, select your Pan/Tilt camera (i.e. LNZ4001 Network Camera).
2. From the Single Channel view, tap "Pan/Tilt" at the bottom of the screen.
3. Tap the arrows to pan the camera left/right and tilt the camera up, down, and diagonally.
4. Tap the  button to return the camera to the "Home" position. You must set the "Home" position in DigiViewer. Please refer to your camera's instruction manual for more information.



Pan/Tilt controls.

Advanced Settings

Use the advanced settings of Lorex Live 2 / Lorex iMobile to adjust the image stream and ports of your connected cameras. These settings are recommended for advanced users only.

To view advanced settings:

1. From the main screen, select your camera. If adding a new camera, tap .
2. Under ID, enter the name or location of your camera and tap .
3. Under General, select the following information and tap to save your changes:
 - **URL-DDNS:** enter your complete Lorex DDNS domain name (i.e. tomsmith.lorexddns.net); you can also enter your local or external IP address .
 - **Port:** By default, **80**. Leave the default port as 80 unless you have manually changed the port in DigiViewer (only recommended for advanced users)
 - **Username:** enter the user name of your camera (default, **admin**)
 - **Password:** enter the password of your camera (by default, **admin**)



Settings Menu.

4. Under Streaming Info, enter the following information and tap **Save** to save your changes :
 - **Format:** Select either **JPEG** or **MJPEG** (by default, JPEG) - use MJPEG for improved picture quality, but increased bandwidth consumption.

NOTE: You must also change the streaming setting on the camera to MJPEG using DigiViewer. For complete details, please refer to your camera's instruction manual.

 - **MJPEG:** The port for MJPEG streaming. By default, **8070**. If you change this port, you must also change the port in DigiViewer and forward the port on your router.
 - **RTSP:** The port for MPEG4 streaming. Currently not supported by iPhone.
5. Under Product, enter the following information and tap **Save** to save your changes:
 - **Company:** By default, **Lorex**.
 - **Product:** By default, **IP Camera**.
 - **Model:** Select either **LNE1001**, **LNE3003**, or **LNZ4001** and tap **Save**.
6. Tap **Main** to exit.

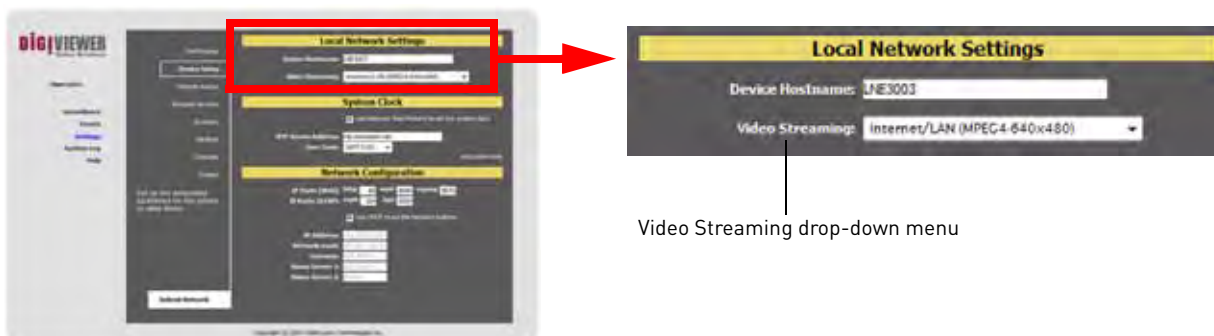
Changing streaming protocols (Advanced)

If you decide to change streaming types (i.e Jpeg to Mjpeg), you must apply the changes within the Lorex Live 2/ Lorex iMobile application AND within the camera. The image streaming types **MUST BE THE SAME** on the camera and in the Lorex Live 2/ Lorex iMobile application.

Tip: Jpeg streaming consumes less bandwidth.

To change the video streaming protocol in the camera:

1. Connect to your camera.
2. Click on **Settings→Device Setup**.
3. In the **Video Streaming** drop-down menu, select the desired video streaming protocol.
4. Click **Submit Network** to save your changes.



Troubleshooting

Q: *I can't see my cameras.*

A: You must forward the ports on your router and register for Lorex's free DDNS service. Port forwarding and DDNS allows you see your cameras from a remote computer or mobile phone from anywhere in the world.

If using a PC, please visit www.lorextechnology.com/easyconnect to register and download Lorex's Easy Connect Auto Port Forwarding software. Register for Lorex's free DDNS service (<http://lorexddns.net>).

If using a Mac, you will have to forward the ports on your router. Every router is different, please refer to your router's instruction manual for details on port forwarding or contact your ISP if using a combined modem/router.

Q: *I've forwarded the ports on my router and registered for DDNS but I still can't see my cameras.*

A: Enter the complete DDNS domain name in your camera's settings in Lorex Live 2. From the Main screen, select your camera and tap . Under URL-DDNS, enter your complete Lorex DDNS domain name. For example, tomsmith.lorexddns.net

Q: *Where do I find my DDNS domain name?*

A: Your DDNS domain name is in the Confirmation Email sent you after registering with Lorex DDNS.

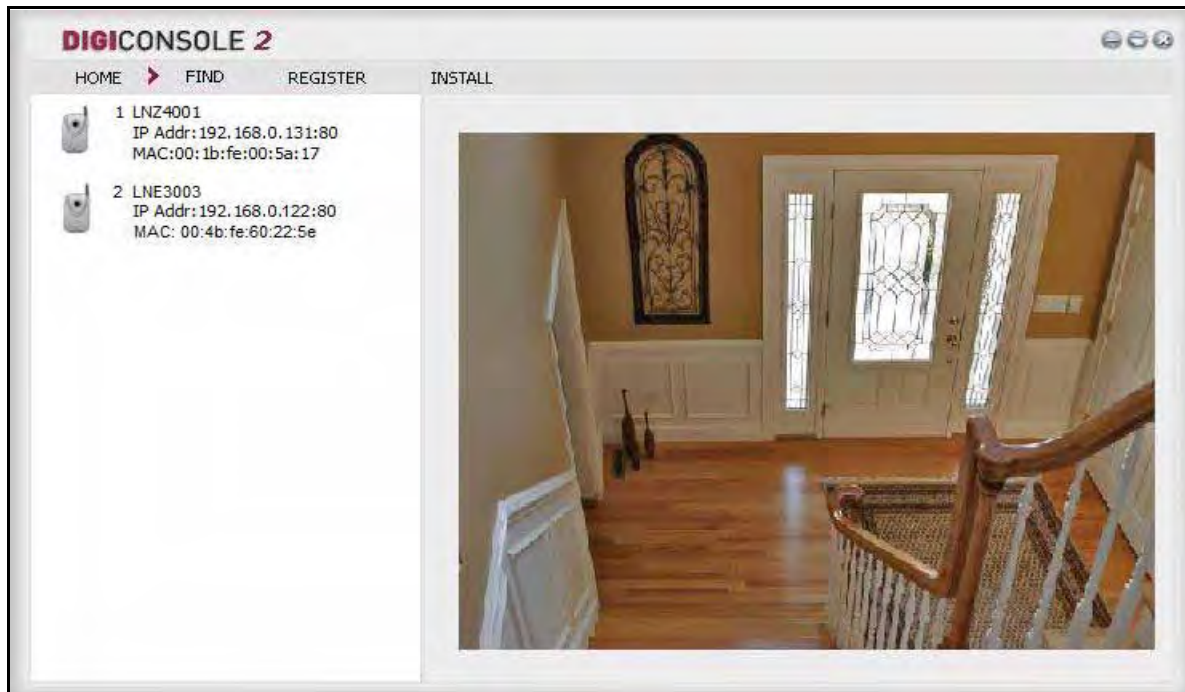
Q: *Quick Delete isn't working.*

A: Do not tap a camera then swipe. Simply swipe your finger.

Q: *Why do I not see Pan/Tilt in Single Channel view?*

A: You must have a Pan/Tilt camera - such as the LN24001 - connected to Lorex Live 2 in order to see the "Pan/Tilt" button in the single camera view interface.

DIGICONSOLE



About DigiConsole

DigiConsole is a discovery tool that lets you find Internet cameras on your local network.

System Requirements

The DigiConsole software (included with the IP device) has the following installation requirements:

Description	Requirement
CPU	Pentium® 4 2.4 GHz or above
Operating System	Windows XP®/Vista
Memory	1GB RAM
Video	16 MB of video memory
Network (LAN)	10/100 BaseT Network
Network (WAN)	384 Kbps upstream* *High-speed Internet service is recommended when using DVR Netviewer.
Hard Drive	50 MB - Installation space required * Additional Hard Drive space required for recording. Recorded file size will vary depending on recording quality settings

USING DIGICONSOLE

You can run DigiConsole from the software CD included with your product. Installing DigiConsole on your PC lets you record and view live streaming video.

NOTE: Installation necessary to record live video. Mac installation is not currently supported.

To open DigiConsole:

1. Insert your product CD in your CD/DV-ROM drive.

NOTE: If Autorun fails to start, go to Computer (My Computer in Windows XP) and double-click the CD-drive to run the application. Follow step 2.

2. Double-click the **DigiConsole icon**.



Figure 10.0 DigiConsole Main Window

The DigiConsole main window contains the following:

- Software documentation
- Discovery of all IP devices on your network
- Installation of DigiConsole on your PC
- Links to more product information on www.lorextechnology.com
- Warranty and DDNS registration

Home

DigiConsole consists of the following primary functions:

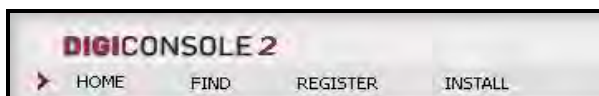


Figure 10.1 DigiConsole functions

- **HOME:** Main screen with links to software documentation and product information
- **FIND:** Locates all IP products on your network
- **REGISTER:** Lorex registration and Warranty information
- **INSTALL:** Installs DigiConsole to the local PC for easy access

Find

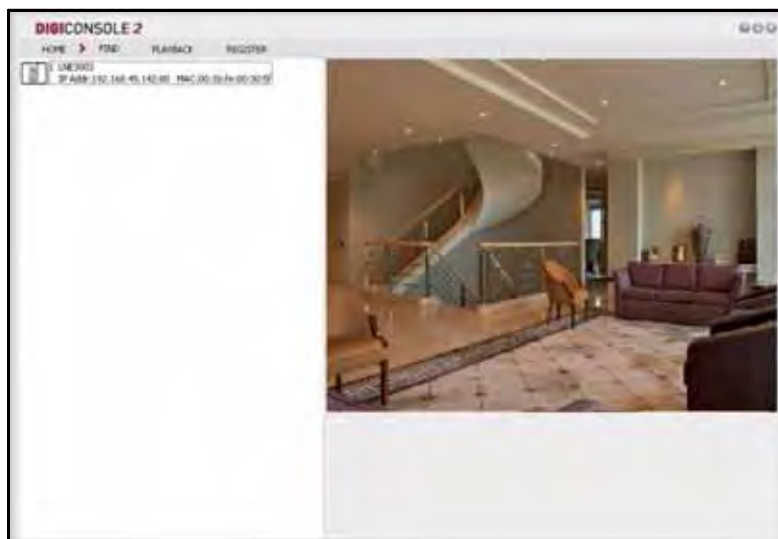


Figure 11.0 Find Menu

NOTE: You may need to grant DigiConsole access to your network. If necessary, click Unblock in any Security or Firewall windows.

The Find menu lets you discover Lorex IP devices on your network. Click Find to discover connected Lorex Internet cameras on your network.

NOTE: An IP device must be connected and networked to view live images. You may need to click Find several times to locate the device.

Find Menu Options

Once you have located a device on your network, you can access the following options for the device:

- Open device in browser
- View Live Video (only with DigiConsole installed to your PC)
- Refresh the list of devices

To access the menu, right-click the selected device.

Open device in browser

View live streaming video from the device using DigiViewer in your default web browser.

To open your device in a browser:

- Right-click the device and select **Open device in browser**. For details on using DigiViewer, see “DigiViewer” on page 53.



Figure 11.1 Open device in browser -- launch DigiViewer

View Live Image

NOTE: You must install DigiConsole to your PC in order to view live video in DigiConsole.

View Live Image displays live video from the IP device in DigiConsole.

To view live streaming video in DigiConsole:

- Right-click the device and select **View Live Image**. It make a few moments for the video stream to begin.

If you attempt to navigate away from the Find menu while viewing live video, a dialogue box will ask you if you want to cancel the video stream (see Figure 11.3).

- Click **OK** to stop the video stream, or click **Cancel** to maintain the video stream while in a different menu.

Refresh list of devices

Manually refresh the device list if you have performed firmware updates, added any new devices, or changed network settings.

To refresh the device list:

- Right-click the device and select **Refresh the list of devices**



Figure 11.2 Live streaming in DigiConsole



Figure 11.3 Stop live video warning

Live Video Options

NOTE: You must install DigiConsole to your PC in order to view live video in DigiConsole.

With live video playing in DigiConsole, you can access more options for the IP device.

To view more options, right-click the selected device and choose any of the following:

- **Open Device in Browser**
- **Stop Live Video**
- **Record Video Image**
- **Mute Audio From Camera**
- **Enable Microphone**
- **Full-screen mode**
- **Refresh the list of devices**

Open device in browser

View live, streaming video from the device using DigiViewer in your default web browser.

To open your device in a browser:

Right-click the device and select **Open device in browser**. For details on using DigiViewer, see “DigiViewer” on page 53.

Stop Live Video

Select this option to stop the live video stream in DigiConsole.

Record Video Image

Select this option to record the live video stream to your PC as an AVI file. For details, see “Recording Live Video” on page 51.

To record live video:

- Right-click the device and select **Record Video Image**

To stop recording:

- Right-click the device and select **Stop Recording**

NOTE: You can only record live video once you have installed DigiConsole to your PC. Mac installation is not supported. For more details, see “Installing DigiConsole” on page 49.

Mute Audio From Camera

Select this option to mute the audio feed from the device.

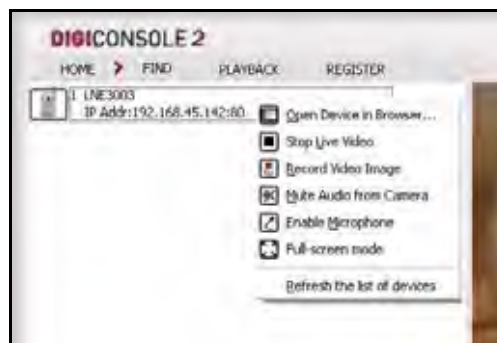


Figure 11.4 Live video options

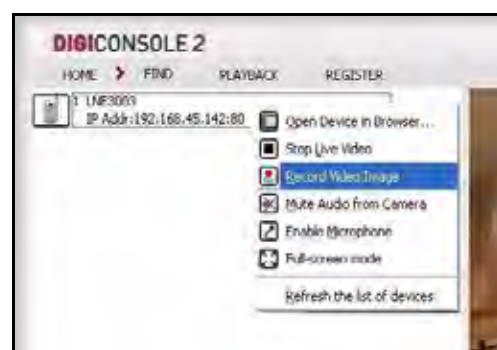


Figure 11.5 Record



Figure 11.6 Recording live video

Enable microphone

Select this option to enable two-way audio. Two-way audio requires speakers attached to a camera and a microphone enabled on your PC for microphone recording.

Full-screen Mode

Select this option to view the live video in full-screen.

Press **ESC** on your keyboard to cancel.

Refresh the list of devices

Manually refresh the device list if you have performed firmware updates, added any new devices, or changed network settings.



Figure 11.7 Full-screen video

Register

Click Register for information on how to register your camera for Lorex's FREE DDNS service; warranty information is also displayed. *For more details*, see "Appendix F: Setting Up DDNS Service" on page 104.

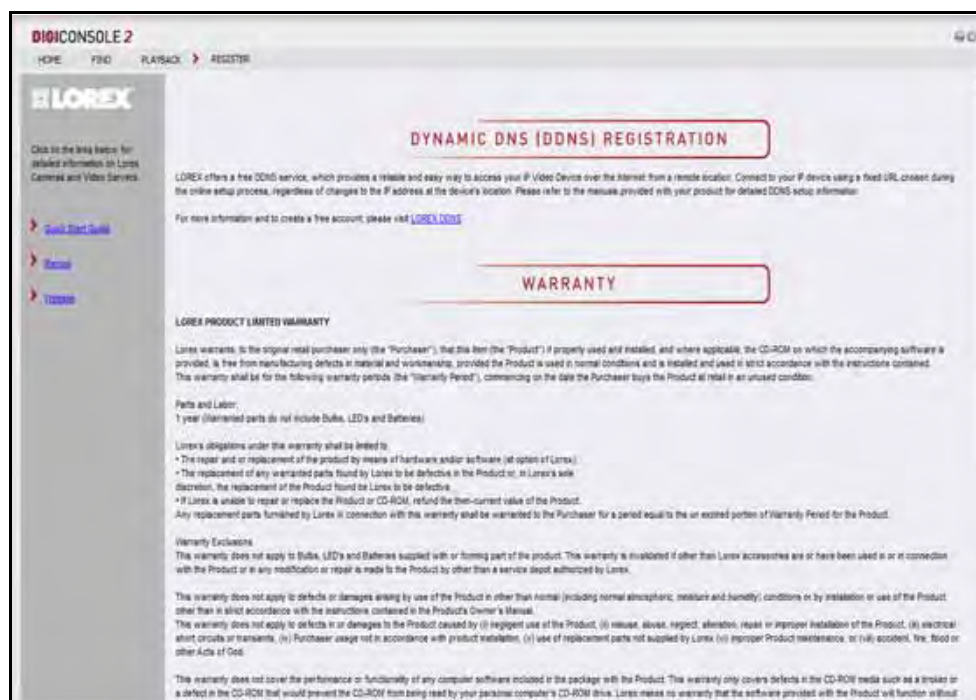


Figure 11.8 DDNS and warranty information

INSTALLING DIGICONSOLE

You can run DigiConsole from the software CD included with your product. However, you can also choose to install DigiConsole to your PC. Installing DigiConsole allows you to record and playback live video.

NOTE: Mac installation is not supported.

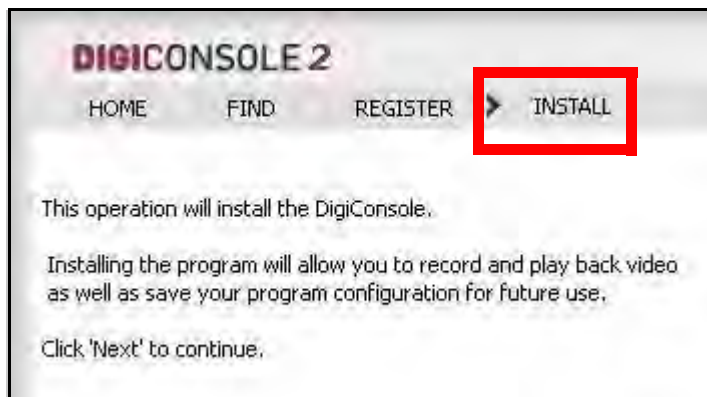


Figure 12.0 Installing DigiConsole

NOTE: External programs and components will be installed during the DigiConsole installation.

To install DigiConsole:

1. Click **INSTALL** to begin installing DigiConsole on your PC.
2. Click **Next** to continue.
3. Read the License Agreement and click **Accept License** to continue.
4. Click **Next** to install DigiConsole to the default directory.

OR

5. Click **[...]** to change the save location; you can also edit the Start Menu name. Click **Next** to continue.
6. Click **OK** in the dialogue box to finish the installation. Exit and re-open DigiConsole using the **desktop icon** before making further changes.

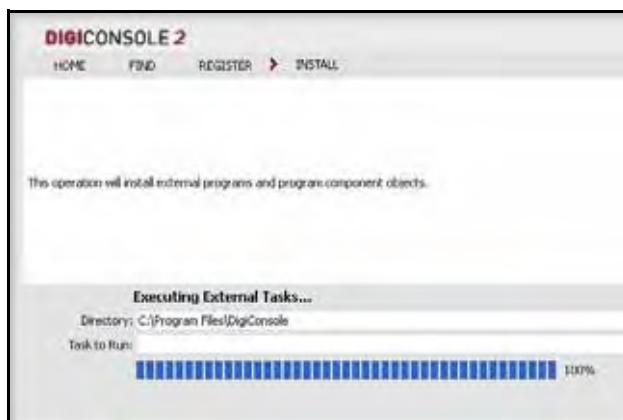


Figure 12.1 Completing the installation

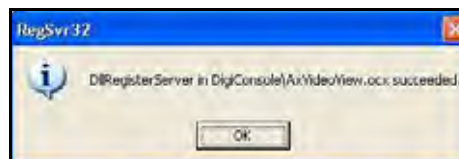


Figure 12.2 DLL Server message upon installation completion

UNINSTALLING DIGICONSOLE

To uninstall DigiConsole:

1. Select Start>Settings>Control Panel>**Add or Remove Programs**.
2. From the Add or Remove Programs list, select DigiConsole and click **Change/Remove**.



Figure 13.0 DigiConsole Uninstaller window

3. In the DigiConsole Uninstaller window, click **OK**.

NOTE: Your data files and recorded files are not removed when uninstalling DigiConsole. To remove these files manually, delete the DigiConsole folder on your hard drive.



Figure 13.1 DigiConsole removal complete

4. Close the DigiConsole Uninstaller window.

NOTE: You should restart your PC after uninstalling any application.

RECORDING LIVE VIDEO

With DigiConsole installed on your PC, you have the option to record and playback live video.

NOTE: Recording does not include audio.

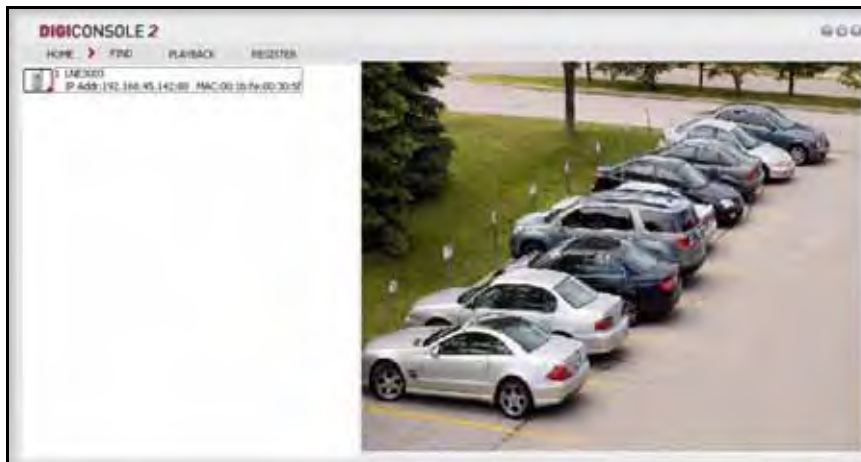


Figure 14.0 Recording live video

To record live video:

1. Click **Find**, and select your camera from the list of devices.
2. Right-click the camera and select **View Live Image**. Allow a few moments for the live video to start. You can only record video once live video is being streamed from the device.
3. Right-click the camera again, and select **Record Video**. DigiConsole begins recording immediately.

NOTE: If you navigate away from the Find menu while recording, a dialogue window asks you if you want to cancel the video stream. Click **OK** to cancel the video stream and quit recording; click **Cancel** to maintain the video stream and continue recording.

To stop recording:

- Right-click the active camera and select **Stop Recording**

NOTE: By default, recorded video is saved to C:\Documents and Settings\user\DigiConsole\Video\.

Estimated Recording Times in DigiConsole (per one camera) :

Description	Specification
Compression	MPEG4
Resolution	VGA (480x680)
Time	1 hour = 160 MB 1 day = 4 GB 1 week = 28 GB

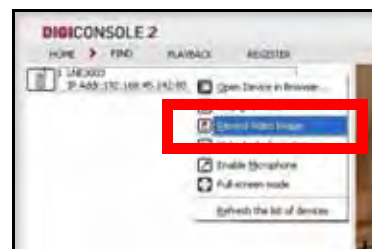


Figure 14.1 Begin live recording.



Figure 14.2 A red light next to the device icon indicates live recording.

PLAYING RECORDED VIDEO

Once you have recorded live video, you can access the video from DigiConsole.

NOTE: You must have DigiConsole installed on your PC in order to record and playback live video.

NOTE: Playback in Windows Media Player requires the Xvid codec. A link to Xvid can be found on the Home page of DigiConsole.



Figure 15.0 Playing recorded video

To playback recorded video:

1. Click **PLAYBACK** at the top of the DigiConsole window. The Playback menu opens with the columns Device, Time, and Size.
2. Under Device, expand the device trees to view the recorded video files for specific IP devices on your network. You can also expand **All Devices** to view all the recorded video files from all the devices at once.
3. Double-click a selected file to open the file in your default media player (e.g. Windows Media Player™, VLC).

OR

4. Select a file and then right-click to select one of the following:
 - **Play Back Recorded Video:** Video file plays in your default media player.
 - **Open Recorded Video Folder:** Recorded video folder opens in Windows Explorer (C:\Documents and Settings\user\DigiConsole\Video\) for you to playback or manage the file as you wish.

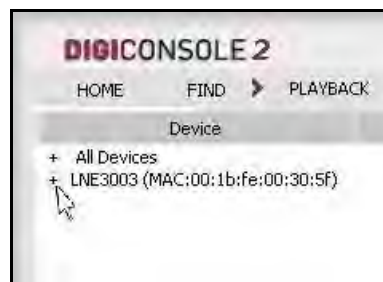


Figure 15.1 Expand the device tree

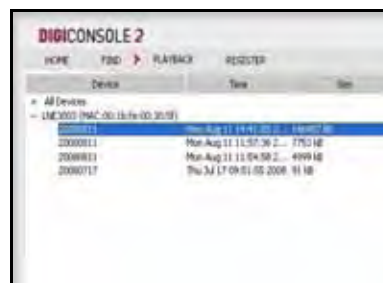
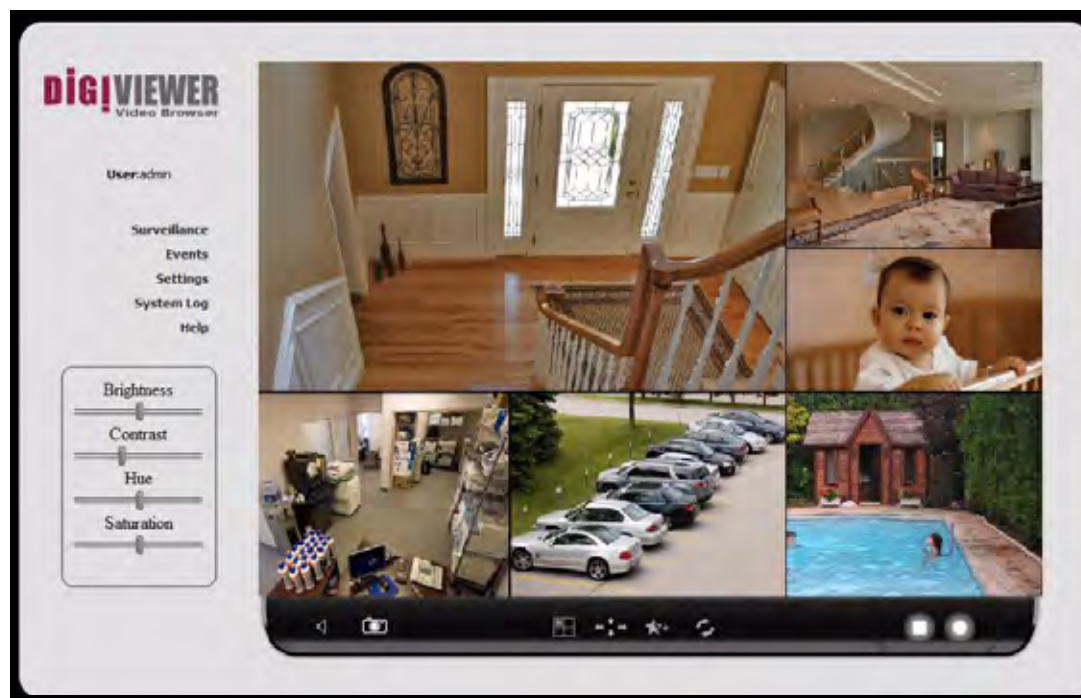


Figure 15.2 Select a file for playback

DIGIVIEWER



About DigiViewer

DigiViewer software is a browser-based application that lets you view live video, control, and configure IP devices on your network from a compatible Web browser.

NOTE: DigiViewer is not installed to the local PC.

System Requirements

Description	Requirement
CPU	2.4 GHz Pentium® 4 or above
Operating System	Windows XP/Vista; Mac OS 10.4 or greater (viewing only)
Browser	Internet Explorer 7 or greater; Firefox 2 or greater; Safari 2 or greater
Media Player	ActiveX (Internet Explorer); QuickTime (Firefox, Safari)
Memory	1 GB RAM (more than 1 GB recommended)
Video	16 MB of video memory
HDD	2 GB of free space
Network (LAN)	10/100 Base-T Network
Network (WAN)	384 Kbps upstream*

OPENING DIGIVIEWER

You can open DigiViewer by two methods: from DigiConsole or from a Web browser. For initial use, we recommend opening DigiViewer through DigiConsole.



Figure 16.0 DigiViewer main screen

To open DigiViewer:

DigiConsole

1. Launch DigiConsole from the software CD included with your product (or from the Desktop or Start Menu if installed on your local PC).
2. From the DigiConsole main window, click **Find** to discover IP devices on your network.
3. Double-click your camera from the device list. DigiViewer opens in your default browser (Internet Explorer 7 or later recommended).
4. Log in using your **user name** and **password** (by default, **admin / admin**).

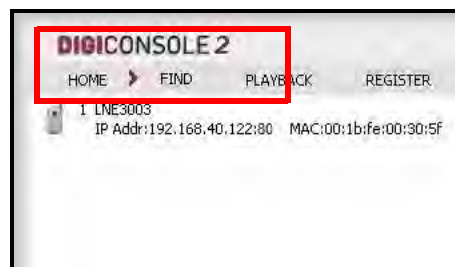


Figure 16.1 Enter the IP Address in your browser

Web browser

- Open a Web browser (Internet Explorer recommended—ActiveX required with Internet Explorer) and enter the **IP Address** of your device in the browser's address bar.
 - **Local Access:** Use DigiConsole to locate the IP Address of your device. The IP Address is next to the device name in the list of discovered items in the Find menu.
 - **Remote Access:** Use the External IP address or DDNS URL



Figure 16.2 Login to your device

SURVEILLANCE

DigiViewer streams live video in Surveillance mode. If you select other DigiViewer options, such as Settings or Events, click Surveillance to return to live viewing.

The DigiViewer main window consists of a main menu on the left panel, live video image, and advanced controls toolbar.

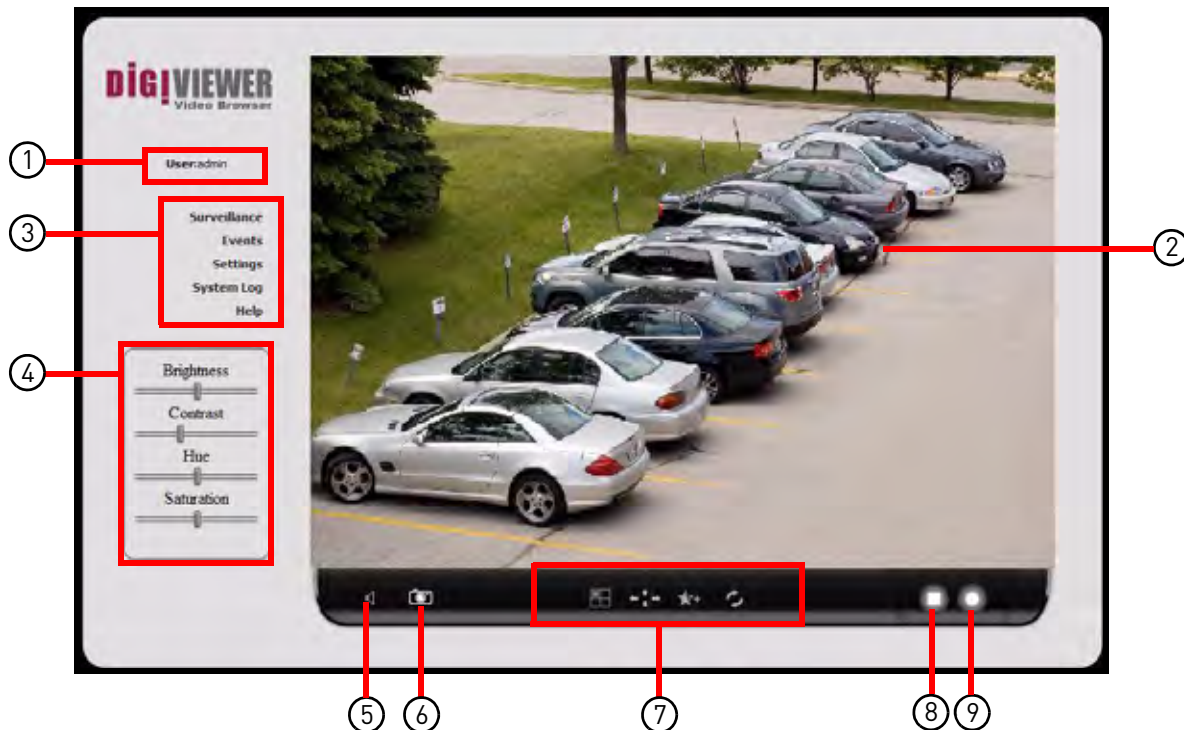


Figure 17.0 DigiViewer main window / Surveillance main window

1. **User:** The currently logged in user—admin, general, or guest.
2. **Main Display Screen:** Shows live video from connected a connected camera(s).
3. **Main Menu:** Select from Surveillance (live viewing), Events, Settings, System Log, and Help.
4. **Advanced Control Panel:** Shows Image options, channel displays, or PTZ controls.
5. **Audio:** Click to turn audio from the camera ON/OFF.
6. **Snapshot:** Click to take a screenshot of the image in the main display screen.
7. **Advanced Controls Toolbar:** Select Channel Display, PTZ, picture options, or rotate image.
8. **Live Image:** Click to start/stop the live image.
9. **Record:** Click to start/stop recording the live image (Using Internet Explorer on the PC only) .

User

There are three user levels in DigiViewer: admin [administrator], general user, and guest. For details on managing users and passwords, see “Accounts” on page 78.

Main Display Screen

Displays live streaming video from the camera as well as option menus.

Main Menu

The Main Menu consists of the following:

- **Surveillance:** Live Viewing; always click Surveillance to return to Live Viewing
- **Events:** Configuration settings for Motion Detection
- **Settings:** Configuration settings for the IP Device
- **System Log:** View the list of events, actions, operations of DigiViewer
- **Help:** Displays support and contact information

NOTE: Complete Main Menu only available when logged in as the Administrator. General users are limited to Surveillance and Help. *See Accounts for more details.*

Advanced Controls Tool Panel

Change channel displays, control PTZ cameras, or adjust picture once activated from the Advanced Controls Toolbar the bottom of the main window. *See Figures 7.4 ~ 7.6.*

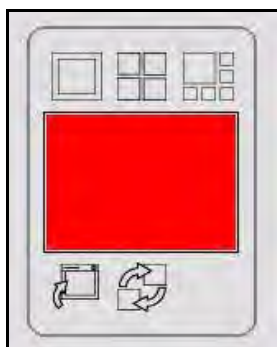


Figure 17.1 Channel Displays

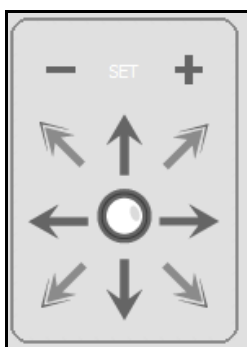


Figure 17.2 PTZ Controls

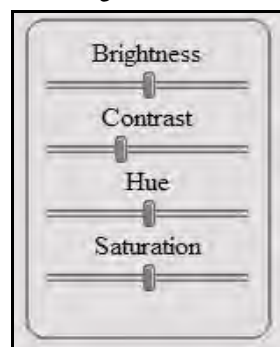


Figure 17.3 Image Sliders



Audio

Controls the Audio on the IP Device (on Audio Enabled devices only. Please refer to the Hardware Manual for the specific model).



Still Image Capture Button

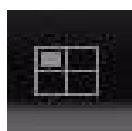
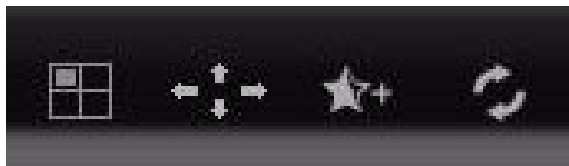
Click to capture the currently displayed video image as a still image in a separate browser window. This still image can be saved as a JPG file.

To save a still image:

1. Right-click anywhere on the image and select **Save Picture As**.
2. From the Save As window, select a save location, file name, and click **Save**.

Advanced Controls Toolbar

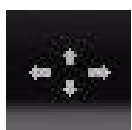
Click to activate Advanced Controls at the bottom of the main window:



Channel Display

View Single-Screen, Quad, and Six-channel displays.

Click  to view Full-Screen. Click  to change channels automatically in Sequence mode.



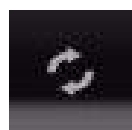
PTZ

Control movement and presets of a PTZ camera. For more details, see "Controlling PTZ" on page 18.



Picture

Use the sliders to adjust Brightness, Contrast, Hue and Saturation. Click the text to set to default (i.e. click "Brightness" to set to default)



Rotate Image

Rotates the live video in 90° clockwise increments (Internet Explorer with ActiveX only).

Live Image

Click  to start live video.

NOTE: You must click  to start live video after viewing Settings, Events, Logs, or Help.

Click  to stop live video and show a still image. Click  again to resume playback.

NOTE: When returning to Surveillance mode, you may need to click  to resume live viewing.

Recording Video (PC only, using Internet Explorer)

To record video:

1. Click the  (Record) button.
 - A Browse for Folder window opens.

NOTE: If you have configured a camera setting, you must press the  (Play) button before pressing the Record button.



Browse for Folder window



The Record button turns red during recording.

Record button

2. Select a save directory on the hard drive and click **OK**.
 - Video begins to record on your hard drive.
3. Click the  (Record) button to stop the recording.

Viewing the video

1. Double-click the folder where you have saved the video. The video is stored in a folder named by the year, month and date.



20100706

Year	Month	Date
2010	07	06

2. Double-click the desired file to play the video.



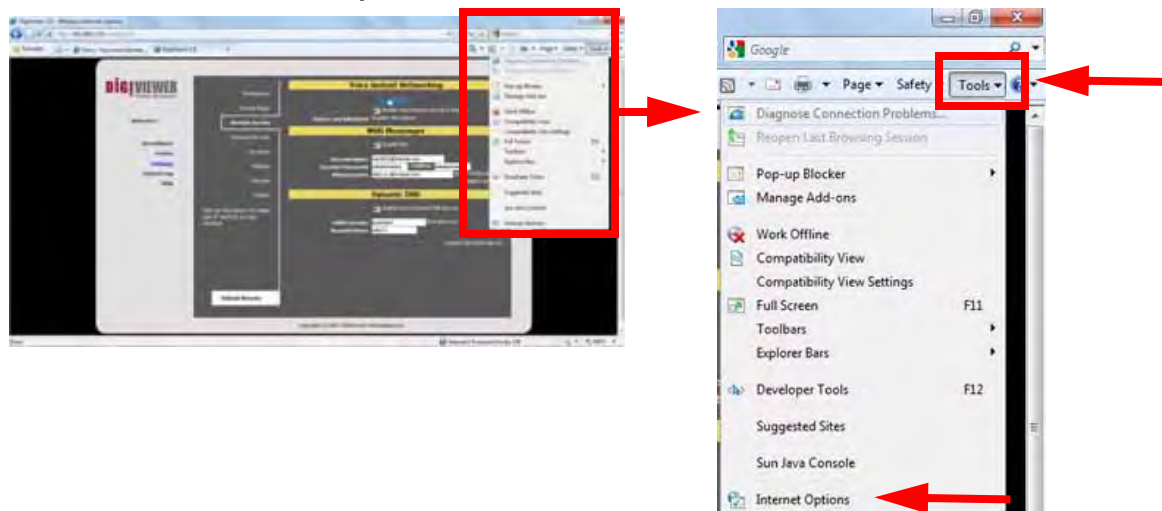
NOTE: You may need to install a DivX codec (not included) if the video does not play properly.

Adding Digiviewer as a Trusted Site

If you cannot see the recorded folder on your computer, you may have to add Digiviewer to a "Trusted Sites" list in Internet Explorer. After adding Digiviewer to the Trusted Sites list, you will be able to view the recorded file on your computer.

To add Digiviewer as a Trusted Site on Internet Explorer:

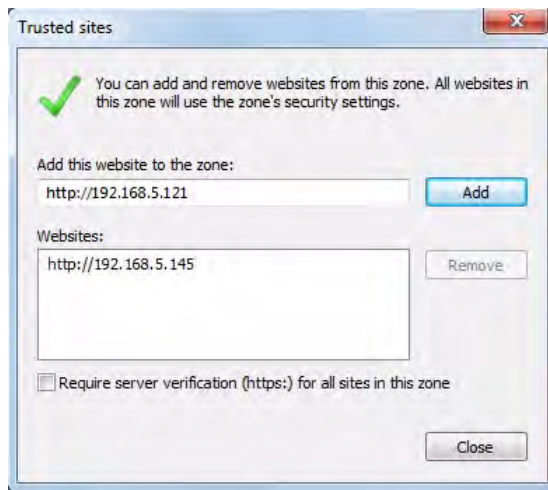
1. Connect to the camera using Internet Explorer.
2. Click **Tools**→**Internet Options**.



3. Click the **Security** tab and then click  (Trusted Sites).



- The Trusted Sites window opens.



4. Click **Add** and then click **Close** to add the website.
5. Close Internet Explorer, and re-login to your camera.

After you have added the Digiviewer address into Internet Explorer's "Trusted Site" list, you will be able to see the recorded videos on your computer.

EVENTS

Use the Events menu to configure options and settings for Motion Events, HTTP Events, PTZ options, and Alarm input/output.

NOTE: PTZ and alarm input/output is applicable to LN4001 Series models *only*.

To open the Event menu:

- Click **Events** in the DigiViewer main window.

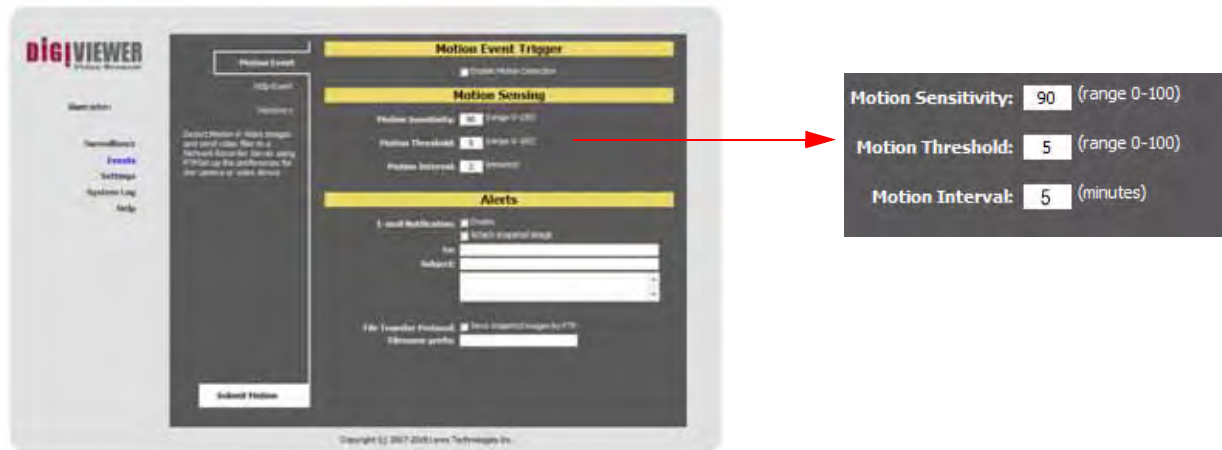


Figure 18.0 Events menu (by default, Motion Events menu)

Motion Events

Use the Motion Events menu to configure motion detection and email notification.

To enable motion detection:

1. Under Motion Event Trigger, select **Enable Motion Detection**.
2. Under Motion Sensing configure the following:
 - **Motion Sensitivity:** Enter a numeric range for motion sensitivity from 0 (no sensitivity) ~ 100 (very high sensitivity). By default, motion sensitivity is set to 90.
 - **Motion Threshold:** Enter a value to increase or decrease the threshold before motion is detected. The smaller the value, the more sensitive motion detecting.
 - **Motion Interval:** Enter how many minutes in between the camera should send out motion e-mail alerts.
3. Click **Submit Motion** to save your settings.

NOTE: You must enter SMTP information in order to send an email alert. For details, see "Outgoing Email Server" on page 76.

To enable email alerts:

1. Under E-Mail Notification, select **Enable**.
2. *Optional:* Select **Attach graphic image** if you want to attach a JPEG to the email.
3. Enter the recipient address in the "To" field; subject and body text are optional.
4. Click **Submit Motion**.

NOTE: Check the FTP box to send the snapshot image to an FTP server. Enter the filename prefix in the text field. Your FTP server needs to be setup separately. Enter the FTP server login information in Settings>Network Services>**Network Recorder Server**. For details, see “Network Recorder Server” on page 77.

HTTP Events

Use the HTTP Event menu to configure HTTP Events on your networked camera. With HTTP Events enabled, your Internet camera can be triggered by motion or a triggered 12V alarm from another camera. The camera can trigger an HTTP server, a 12 volt alarm sensor, or another camera for a pre-configured action. For more details, see “Appendix I: Setting Up HTTP Events” on page 110.

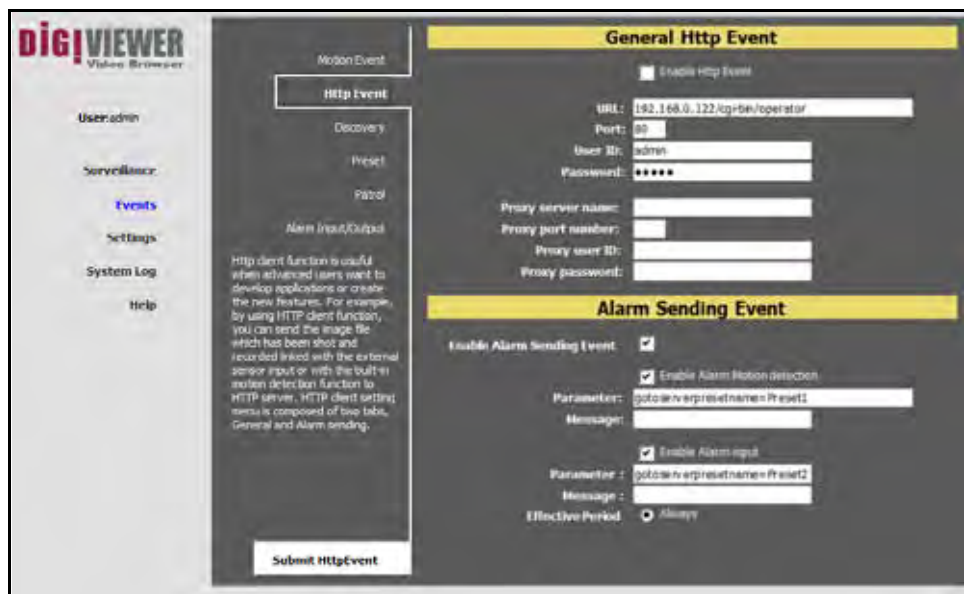


Figure 18.1 HTTP Event menu

To enable HTTP Events:

1. Under General HTTP Event, select **Enable HTTP event**.
2. Under URL, enter the **IP address/DDNS domain** of the target camera or network device followed by **/cgi-bin/operator/ptzset**. For example, 192.168.0.122:81/cgi-bin/operator/ptzset
3. Enter the **Port number, user ID** and **password** of the target camera.
4. **OPTIONAL:** If using a proxy server, enter the proxy server name, port, user name, and password in the fields.
5. Under Alarm Sending Event, select **Enable Alarm Sending Event**.
6. Select **Enable Alarm Motion Detection**.
7. Enter the following parameter: **gotoserverpresetname=[Preset#]**. For example, gotoserverpresetname=Preset1. Make sure you enter the preset name EXACTLY as it appears in the Preset list (Settings>Preset).
8. Select **Enable Alarm input**.
9. Enter the following parameter: **gotoserverpresetname=[Preset#]**. For example, gotoserverpresetname=Preset2.
10. Click **Submit HTTP Event** to save your settings.

Discovery

Use the Discovery menu to allow discovery of your network devices using Bonjour and UPnP (Universal Plug and Play). By default, Bonjour and UPnP are enabled on the camera.

If you are using one of the Lorex network cameras with a Mac, Bonjour will allow you to connect to your camera using DigiViewer in Safari. For details on detecting and viewing your camera using a Mac, see “Viewing Your Camera Using a Mac” on page 14.

NOTE: You will not be able to record live video directly to your Mac.

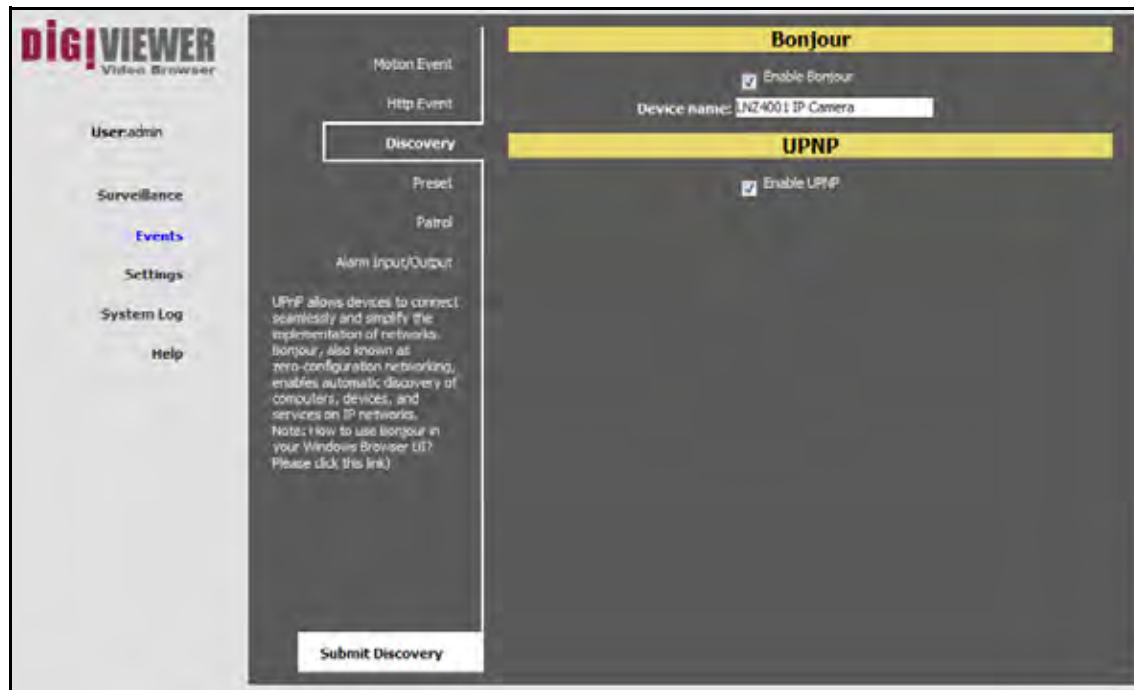


Figure 18.2 Discovery menu

To enable/disable Bonjour:

1. Under Bonjour, select **Enable Bonjour**.
2. If desired, enter a new name for your device in the Device Name field. This will be the name of your device on your network.
3. Click **Submit Discovery** to save your settings.

UPnP

By default, your network camera has UPnP enabled. This allows you to connect to your camera from the Network menu in Windows Vista / My Network Places in Windows XP.

NOTE: You must turn on Network Discovery in Windows in order to discover and connect to devices on your network. For details, see “Finding Your Camera as an UPnP Device (optional)” on page 13.

To enable/disable UPnP:

1. Under UPnP, select/deselect **Enable** (default).
2. Click **Submit Discovery** to save your settings.

NOTE: UPnP can be used instead of DigiConsole to discover your camera and launch DigiViewer.

Preset

ATTENTION: This section is applicable to LNZ4001 camera models *only*.

Use the Preset menu to configure up to 32 presets on a PTZ Internet camera.

NOTE: You must have at least one saved preset on the camera in order to use the Preset menu. For details on setting presets, see “Events” on page 61.

Preset Position control		
Home Pos. Name: Preset4		
Preset1	Preset GO	Delete All Calibration
Preset Pos. Name: Home: Set		
1. Preset1	Delete	17.
2. Preset2	Delete	18.
3. Preset3	Delete	19.
4. Preset4	Delete	20.
5. Preset5	Delete	21.
6.	Delete	22.
7.	Delete	23.
8.	Delete	24.
9.	Delete	25.
10.	Delete	26.
11.	Delete	27.
12.	Delete	28.
13.	Delete	29.
14.	Delete	30.
15.	Delete	31.
16.	Delete	32.

Figure 18.3 Preset menu

To view a preset position:

- From the drop-down menu, select one of your presets. Click **Preset GO** to position the camera to this preset

To calibrate the camera:

- Click **Calibration** to reset the camera to the default position

NOTE: For more details on resetting and calibrating the camera, see APPENDIX

To rename a preset:

1. Select a preset from the drop-down menu and click **Preset Go**.
2. In the Preset Pos. Name field, enter a new name for the preset and click **Set**. The new preset name is added sequentially to the Preset List, but the old preset is not deleted.

To delete a preset:

- Select one of the presets from the list and click **Delete**.

NOTE: The preset is immediately deleted. This step cannot be undone.

NOTE: The next preset added will replace the previously deleted preset. For example, you have 10 presets on your PTZ camera and delete Preset2. When you add another preset, that new preset will be Preset2, not Preset11.

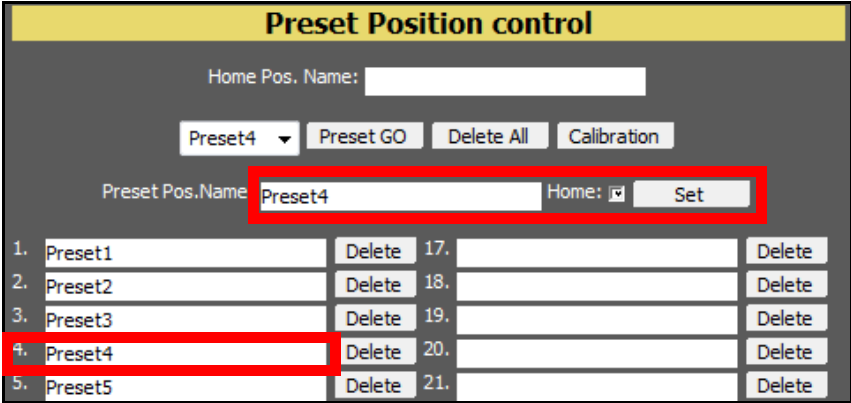
Home Position

The Home Position is the position that the camera will automatically take when the camera is powered on.

To set the Home Position:

1. Enter a preset from the list in the **Preset Pos. Name** field.
2. Select the box beside Home and click **Set**. The new Home Position will appear in the Home Pos. Name field at the top of the menu.

①



Preset Position control

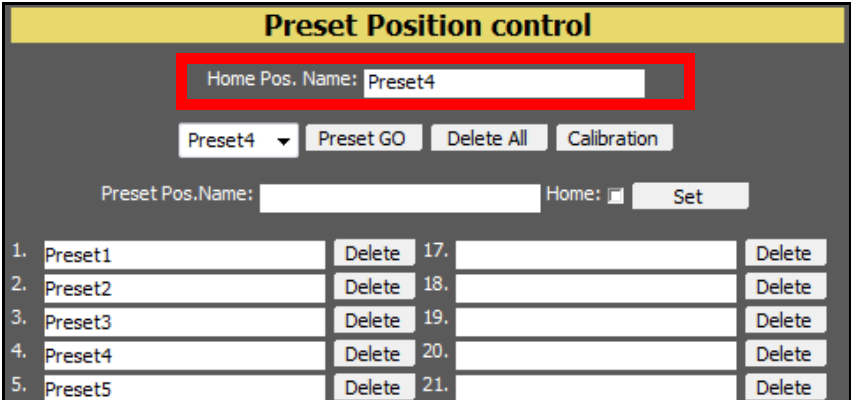
Home Pos. Name:

Preset4 Preset GO Delete All Calibration

Preset Pos. Name: Home: ☒ Set

1.	Preset1	Delete	17.		Delete
2.	Preset2	Delete	18.		Delete
3.	Preset3	Delete	19.		Delete
4.	Preset4	Delete	20.		Delete
5.	Preset5	Delete	21.		Delete

②



Preset Position control

Home Pos. Name:

Preset4 Preset GO Delete All Calibration

Preset Pos. Name: Home: ☒ Set

1.	Preset1	Delete	17.		Delete
2.	Preset2	Delete	18.		Delete
3.	Preset3	Delete	19.		Delete
4.	Preset4	Delete	20.		Delete
5.	Preset5	Delete	21.		Delete

Figure 18.4 Setting the Home Position

Patrol Control

You can set up to four patrol tours composed of up to eight preset positions. The camera will move to the programmed positions sequentially.

Figure 18.5 Patrol Control menu

To set a patrol tour:

1. Select a Tour Number (e.g. Tour1).
2. Under Tour Position, select an **Order number** from the Order drop-down menu (first will be the default position). Order refers to the position in the Position Number List (see figure 6.9).
3. Select a **preset position** from the Select Pos. drop-down menu.
4. Under Waiting Time, enter a **time** (from 1~99 seconds) for the camera to pause on the position. Select the box to make the tour your default patrol tour.
5. Click **Set**. The position appears in the Preset Position List (see figure 6.9).
6. Repeat steps 1~5 until you have completed the tour (each tour can have up to 8 positions).
7. Under Tour Name, enter a name for your tour or leave as default (Guard Tour 1).
8. Click **Submit Patrol**. Please allow a few moments for the PTZ camera to update with the new patrol tour.

Figure 18.6 Saved Patrol Tour

Alarm Input/Output

ATTENTION: This section is applicable to LNZ4001 camera models *only*.

Configure Alarm Input settings for an external alarm/sensor (not included) and Alarm Output settings for an external alarm light/siren (not included).

Alarm Input

To configure alarm input settings:

1. Connect a 12V external alarm sensor (i.e. motion sensor), to the Input ports of the alarm block on the rear panel of the camera.
2. Open DigiViewer and click Events>**Alarm Input/Output**.
3. Under Alarm Input, select the box, **Enable Sensor Input 1**.
4. Under Trigger Condition, select **High** for a Normally Open circuit (NO) or **Low**, for a Normally Closed circuit (NC).
5. Under Camera Move, select a **preset** from the Select Pos. drop-down menu. When an external alarm or sensor is triggered, the PTZ camera will turn to the position of the selected preset.

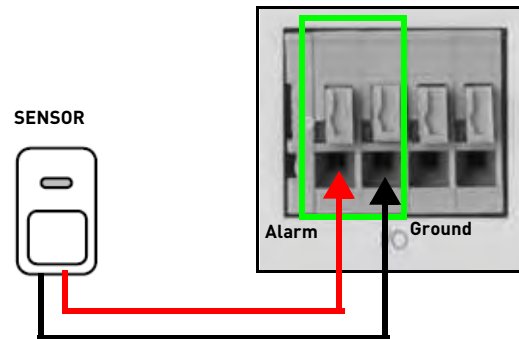


Figure 18.7 Alarm input

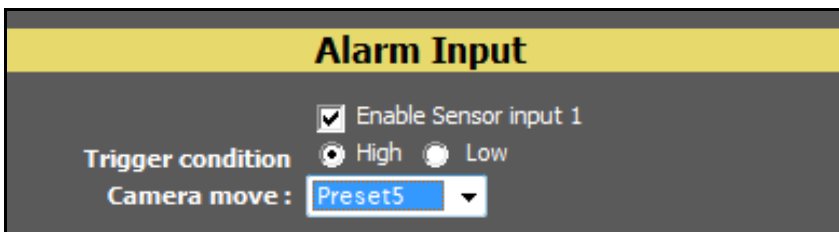


Figure 18.8 Alarm input

6. Click **Submit In/Output** to save your settings.

Alarm Output

To configure alarm output settings:

1. Connect an external alarm, such as light or siren, to the two right ports of the alarm block on the rear panel of the camera.
2. Open DigiViewer and click Events>**Alarm Input/Output**.
3. Under Alarm Output, select the box, **Alarm output**.
4. Under Digital Output, select **High** for a Normally Open circuit (NO) or **Low**, for a Normally Closed circuit (NC).

NOTE: Trigger Condition will always be Alarm.

5. Under alarm, select the following:
 - **Motion detection:** the external alarm (light, siren) will be triggered when motion is detected by the camera
 - **Alarm input:** the external alarm (light, siren) will be triggered when the connected alarm sensor is triggered
 - Select both if desired
6. Under Alarm duration, select **1~60 seconds**, or **OFF**. The longer the duration, the longer the light/siren will be active.

NOTE: Effective period is set to always by default.

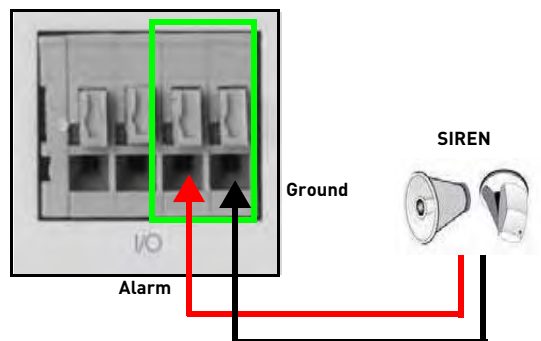


Figure 18.9 Alarm output

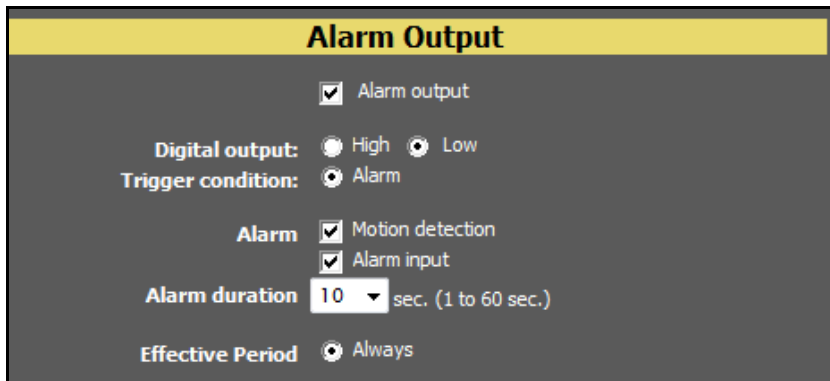


Figure 18.10 Alarm output

7. Click **Submit In/Output** to save your settings.

SETTINGS

The Settings Screen controls the options and configurations for the camera.

To open the Settings menu:

- Click **Settings** in the DigiViewer main window

The screenshot shows the Settings menu with a sidebar on the left and a main content area on the right. The sidebar contains the following options: Preferences (highlighted), Device Setup, Remote Access, Network Services, Accounts, Wireless, Channels, and System. Below the sidebar is a button labeled 'Submit Preference'. The main content area is divided into three sections, each with a yellow header:

- Device Description:**
 - Description: LN24001 Wireless Pan/Tilt IP Camera
 - MAC Address: 00:1B:FE:00:5A:17
 - IP Address: 192.168.45.131
 - Wireless IP Address: 0.0.0.0
 - Firmware: LM.1.6.16.03P3_sign3
- On Screen Display:**
 - ☒ Enable OSD
 - ☒ Show Date/Time
 - OSD Display Text: LN24001
- Lighting:**
 - Illuminator control: auto
 - Mode: Indoor (60Hz)

Figure 19.0 Settings menu

The Settings menu consists of the following options (click to open the related sub-menu):

- **Preferences:** View device network information, configure On Screen display, and configure IR Sensor (by default, the Settings menu is also the Preferences menu)
- **Device Setup:** Configure network settings and adjust the system clock
- **Remote Access:** Configure settings for remote viewing through DDNS, MSN, or Yoics
- **Network Services:** Configure the Outgoing Email Server and the FTP recording server
- **Accounts:** Enter user names and passwords for five users and one guest user for the device
- **Wireless:** Configure settings for wireless networking (LNE3003 and LN24001 Series *only*)
- **Channels:** Configure settings for up to 6 Internet cameras and video servers
- **System:** Advanced parameter settings including camera restart, factory defaults, and firmware upgrade

Preferences

Open the Preferences sub-menu to view network information for your device, as well as settings for the on-screen display and lighting.

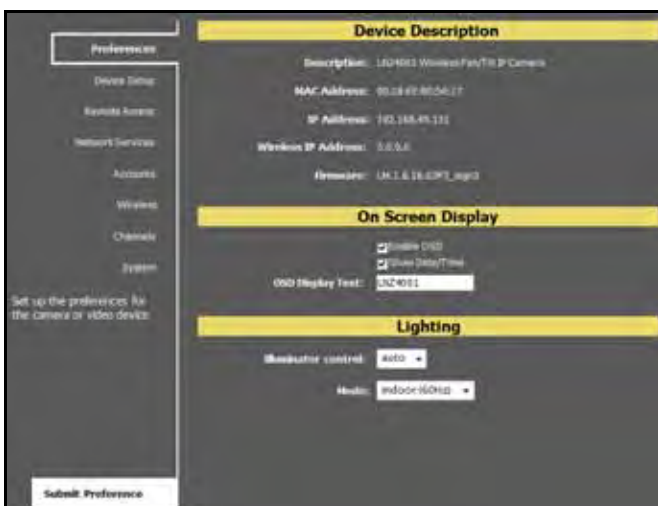


Figure 19.1 Preferences menu

Device Description

The Device Description menu lists the following important information about your camera:

- **Description:** IP Device name
- **MAC Address:** The physical address of your camera on your local network
- **IP Address:** The network address of your camera
- **Wireless IP Address:** The wireless network address of your camera (LNE3003/LNZ4001 only)
- **Firmware:** The firmware number presently on your camera

On Screen Display

To configure OSD options:

1. Select **Enable OSD**. If selected, the OSD will appear on the Surveillance main screen during live viewing.
2. Select **Show Time**. If selected, the time will appear on the Surveillance main screen during live viewing. The date and time appear in the following format: YY-MM-DD; HH:MM:SS.
3. Under OSD Display Text, enter an 8-character **text/title/name** to be displayed on the Video Display screen. For example, Cam 1, PTZ 2, Hall, Door 3, etc.

NOTE: Make sure the On-Screen Display is disabled before entering new OSD Display Text.

4. Click **Submit Preferences**. Please allow a few moments for your camera to update.



Figure 19.2 OSD with text and time

Lighting

To configure lighting settings:

1. Under Illuminator control, select **AUTO**, **ON**, or **OFF** from the drop-down menu. This option control the night vision LEDs around the lens. By default, the camera is set to Auto.
2. Under Mode, select **Outdoor**, **Indoor 50 Hz**, or **Indoor 60 Hz**. This option controls the mode of the night vision LEDs. By default, the camera is set to Indoor 60 Hz.
NOTE: With the IR Sensor set to auto, you can still set the mode to Outdoor, Indoor 50 Hz, or Indoor 60 Hz.
3. Click **Submit Preferences**. Please allow a few moments for your camera to update.

Device Setup

The Device Setup menu controls the Internal Networking Information for the IP Device.

To open the Device Setup menu:

- Click Settings>Device Setup

The screenshot shows the 'Device Setup' menu with a sidebar on the left containing links: Preferences, Device Setup (selected), Remote Access, Network Services, Accounts, Wireless, Channels, and System. The main content area has three sections:

- Local Network Settings:** Device Hostname: 'LH24001', Video Streaming: 'Internet/LAN (MPEG4-640x480)'.
- System Clock:** 'Use Network Time Protocol to set the system clock' is checked. HTTP Server Address: 'ntp.broadcom.net', Time Zone: 'CMT-5:00'. A 'set system time' link is present.
- Network Configuration:** IP Ports (Web): 80, mjpg: 8070, IP Ports (RTSP): 354, MJPG: 8054. 'Use DHCP to set the Network Address' is checked. IP Address: 192.168.1.14, Network mask: 255.255.255.0, Gateway: 192.168.1.1, Name Server 1: 192.168.1.1, Name Server 2: 192.168.1.1. A 'Submit Network' button is at the bottom left.

Figure 20.0 Device setup menu

Local Network Settings

To configure local network settings:

1. Under Device Hostname, enter a name for your device. This will be the name of your device on your local network.
2. Under Video Streaming, select the video quality for your network configuration:
 - **Local Area Network (MPEG4-640x480)**
 - **Internet/LAN (MPEG 4-640x480) [default]**
 - **High Speed (MPEG 4-640x480-CBR)**
 - **Slow Internet (MPEG 4-320x240)Internet/LAN (MJPEG-640x480)**
 - **High Speed (MJPEG - 320x240)**
 - **Slow Internet (MJPEG - 160x120)**
3. Click **Submit Network**. Please allow a few moments for your camera to update.

System Clock

You may need to change the time zone depending on your region, and daylight savings (DST) settings. You must manually configure your camera when your daylight savings settings change.

To configure the system clock:

1. Select the box to enable/disable Network Time Protocol (NTP). NTP automatically sets the system clock using a Network Time Server. By default, the NTP server is enabled.
NOTE: The Network Time Protocol (NTP) is a protocol for synchronizing the clocks of computer systems to a central time server.
2. Under NTP Server Address, enter the address of the NTP Server. The default setting is **ntp.lorexddns.net**, however any other NTP server can be used if desired.
3. Under Time Zone, select the time zone to the local time from the drop down menu (**GMT -12 ~ GMT+0 ~ GMT +12**).
4. De-select the checkbox beside "Use Network Time Protocol to set the system Clock." and then re-select the checkbox to save your settings.

OPTIONAL:

1. Click **Set System Time**, to set the time on the camera to the local time on your PC. This will disable the NTP server.
2. Click **OK** in the confirmation window. Please allow a few moments for your camera to update.

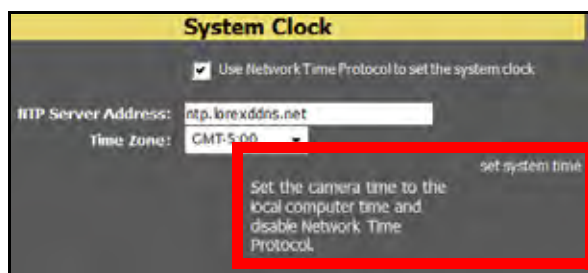


Figure 20.1 Set time on the device to the local time on your PC

Network Configuration

The screenshot shows a 'Network Configuration' window with a yellow title bar. It contains several input fields for network settings:

- IP Ports (Web):** http: 80, mp4: 8090, mjpeg: 8070
- IP Ports (RTSP):** mp4: 554, 3gp: 8554
- ☒ Use DHCP to set the Network Address
- IP Address:** 192.168.0.102
- Network mask:** 255.255.255.0
- Gateway:** 192.168.0.1
- Name Server 1:** 192.168.0.1
- Name Server 2:** 0.0.0.0

Figure 20.2 Network Configuration menu

To configure network options:

1. If desired, change the following ports:
 - **IP Port (Web):** The Web Port used for web browser access (HTTP) (by default, 80)
 - **IP Port (RTSP):** The IP Port used for live video streaming (RTSP) from the IP Device (by default, 554)
 - **mjpeg:** The network port for MJPEG transmission (by default, 8070)
 - **3gp:** Not in use.
 - **Mp4 :** Not in use.

ATTENTION: If using multiple cameras, each camera must have a unique Web port and an RTSP port. You **MUST** forward (open) the new ports on your router. For more details, see "Appendix D: Router Port Forwarding" on page 96.

Use the Lorex Auto Port Forwarding Wizard to simplify the port forwarding process. For details, see "Appendix E: Auto Port Forwarding Wizard" on page 97.

2. By default, your camera is set to use DHCP to set a network address. Leave the box selected to use DHCP—go to **step 4**. If you deselect the box to enter static network information, go to **step 3**.
3. OPTIONAL—enter your network information in the following fields:
 - **IP Address:** The numeric address assigned to the IP Device.
 - **Network Mask & Gateway:** The numeric addresses assigned to the Network Router.
 - **Name Server 1 & 2:** The external IP address of the Name Server. The Name Server is a machine on a network that enables a hostname to be resolved into an IP address. (i.e. www.lorextechnology.com translates to IP Address 207.97.199.227)

NOTE: Contact your Internet Service Provider for the IP address of your DNS server.
4. Click **Submit Network** to save your settings. Please allow a few moments for your camera to update.

NOTE: Incorrect changes to the network settings will prevent the device from communicating, and may require a Hardware Reset to resolve. For details, see "Appendix J: Rebooting, Resetting, and Recalibrating the Camera" on page 113.

Remote Access

Use the Remote Access Menu to configure remote viewing settings for your device through Yoics, MSN, or Lorex DDNS.

To open the Remote Access menu:

- Click Settings>**Remote Access**

The screenshot shows the 'Remote Access' configuration page. The left sidebar contains a menu with the following items: Preferences, Device Setup, Remote Access (highlighted), Network Services, Accounts, Wireless, Channels, and System. The main content area is divided into three sections, each with a yellow header:

- Yoics Instant Networking:** Includes a 'Yoics' logo, a checkbox for 'Enable Yoics Remote Access & Sharing' (checked), and a link 'Register this camera' with the text 'Yoics is not initialized:'.
- MSN Messenger:** Includes a checkbox for 'Enable MSN' (checked), input fields for 'Account Name' (LorexCam1) and 'Account Password' (masked with dots), a 'confirm' field, and a list of 'Allowed users' (to.msmith@hotmail.com, j.msmith@hotmail.com) with a note '(up to 5 MSN ids)'. A 'register with MSN' link is also present.
- Dynamic DNS:** Includes a checkbox for 'Enable Lorex Dynamic DNS Service' (checked), input fields for 'DDNS Domain' (to.msmith.net) and 'Account Name' (to.msmith), and a 'register with DDNS service' link.

A 'Submit Remote' button is located at the bottom left of the main content area.

Figure 21.0 Remote Access menu

Yoics Instant Networking

By default, your Internet camera is enabled with Yoics Easy-Connect Remote Viewing.

To configure Yoics Instant Networking:

1. Select **Enable Yoics Remote Access & Sharing**.
2. If you have not yet registered your camera, click **Register this camera**. For details on registering your camera with Yoics, see
3. Click **Submit Remote** to save your settings. Please allow a few moments for your camera to update.

NOTE: For more information on Yoics Easy Connect Remote Viewing, see "Using Yoics" on page 24.

NOTE: You can also remove Yoics remote access service from this menu. For details, see "Appendix K: Registering, Removing, and Resetting Yoics Services" on page 115.

MSN Messenger

Your Easy-Connect Remote Surveillance Internet Camera can be accessed remotely using Windows Live Messenger.

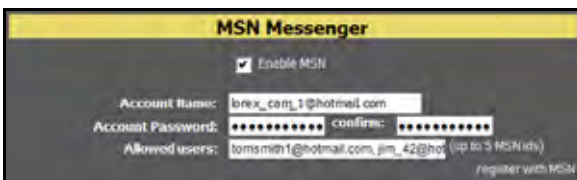


Figure 21.1 Enter the MSN address of the camera along with the MSN addresses of allowed users

To configure your camera for remote viewing with MSN:

- Under MSN Messenger, select the box, **Enable MSN**.
- Under Account Name, enter your newly created MSN/Windows Live user name. For example, **Lorex_Cam_1@hotmail.com**.
- Under Account password, enter your **MSN account password**. Re-enter the password to confirm.
- Under allowed users, enter up to 5 **MSN/Windows Live email addresses**. Make sure to add one of your active MSN/Hotmail addresses. Separate the addresses with a comma and a space. For example, tomsmith@hotmail.com, jim_jones@hotmail.com, etc.
- Click **Submit Remote** to save your settings. Please allow a few moments for your camera to update.

NOTE: For complete details on setting up remote viewing through MSN, see “Remote Viewing Using MSN Messenger” on page 31.

Dynamic DNS

You can also access your camera remotely using Lorex’s free DDNS service.

NOTE: If you have yet registered for Lorex DDNS, click **Register with DDNS Service** at the bottom of the Remote Access screen.

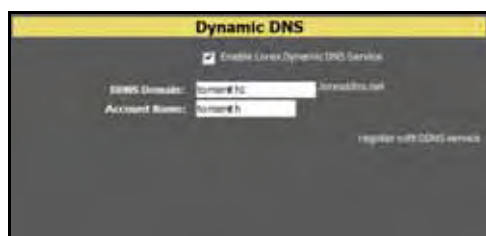


Figure 21.2 Enter DDNS information

Port forward ports **80, 554, 8070** before configuring Dynamic DNS (DDNS) settings. For details, see “Appendix D: Router Port Forwarding” on page 96.

To configure DDNS settings:

- Select the box, **Enable Lorex Dynamic DNS service**.
- Under DDNS Domain, enter your **domain name** for the free Lorex DDNS service. This information can be found in the email received after a successful registration.
- Under account name, enter the **user name** you need to login at <http://lorexddns.net>—This information can be found in the email received after a successful registration.
- Click **Submit Remote** to save your settings.

NOTE: For more details, see “Appendix F: Setting Up DDNS Service” on page 104.

Network Services

The Network Services Menu controls the External Networking Information for the camera (used for Remote Access).

To open the Network Services menu:

- Click Settings>**Network Services**.

The screenshot displays the 'Network Services' menu with two main sections: 'Outgoing E-mail Server' and 'Network Recorder Server'. The 'Outgoing E-mail Server' section has a checked box for 'Enable outgoing e-mail messages'. Below this are fields for 'SMTP Server' (myurlp.lorexddns.net), 'Port' (25), 'From Address' (lorenzmlh1@yahoo.com), 'Account Name' (lorenzmlh1), and 'Account Password' (*****). There is a 'confirm' field for the password and a 'send test e-mail' button. The 'Network Recorder Server' section has an unchecked box for 'Enable sending images using FTP'. Below this are fields for 'FTP Server Address' (ftp://), 'Path' (empty), 'Account Name' (empty), and 'Account Password' (empty). There is a 'confirm' field for the password and a 'send test file' button.

Figure 22.0 Network Services menu

Outgoing Email Server

Configure the Outgoing Email Server to receive Motion notifications through email.

Prerequisites:

1. Create a DDNS account, and enter the DDNS information into the camera's DDNS window (Settings→Remote Access).
 - For details on creating a DDNS account, see "Appendix F: Setting Up DDNS Service" on page 104.
2. Configure motion sensing, and enter the designated email address that receives the motion notification, see "Motion Events" on page 61.

To configure email server options:

1. Select the box **Enable outgoing email messages**. This will send an email notification whenever motion is detected by the camera(s) or an external sensor is triggered. If using Lorex DDNS, go to **step 4**. If using your own email server, go to **step 2**.
2. Under SMTP Server, enter the SMTP server address for the outgoing email account.
3. Under Port, enter the outgoing email port.

NOTE: The port may have to be forwarded on your router.
4. Under From Address, enter the sender's email address for the outgoing email notification. If using Lorex DDNS, go to **step 7**.
5. Under Account Name, enter the user name/ID required for the email server.
6. Under Account Password, enter the password for the email server. Re-enter the password to confirm.
7. Click **Submit Services** to save your settings. Please allow a few moments for your camera to update.
8. Click **Send test email** to verify you have entered the correct network information.

Network Recorder Server

NOTE: This section is for advanced user. Knowledge of FTP servers is required.

NOTE: Your FTP server must be set up separately.

You can also send snapshots of triggered events to an FTP server.

Network Recorder Server

☐ Enable sending images using FTP

FTP Server Address: ftp:// Path: To create a folder, insert a back slash "\". For example, enter: \video to create a folder called "video".

Account Name:

Account Password: confirm:

send test file

Figure 22.1 FTP server information

To configure network recorder server options:

1. Select the box **Enable sending images using FTP**.
2. Under FTP server address and path, enter the URL or IP address of the FTP server.
3. Under Account Name, enter the **user name** to access the FTP server.
4. Under Account Password, enter the **password** to access the FTP server.

This setting must be configured in conjunction with enabling e-mail notification. This allows e-mail notifications to send motion-triggered images to the FTP server. For details on configuring motion events, see "Motion Events" on page 61.

Accounts

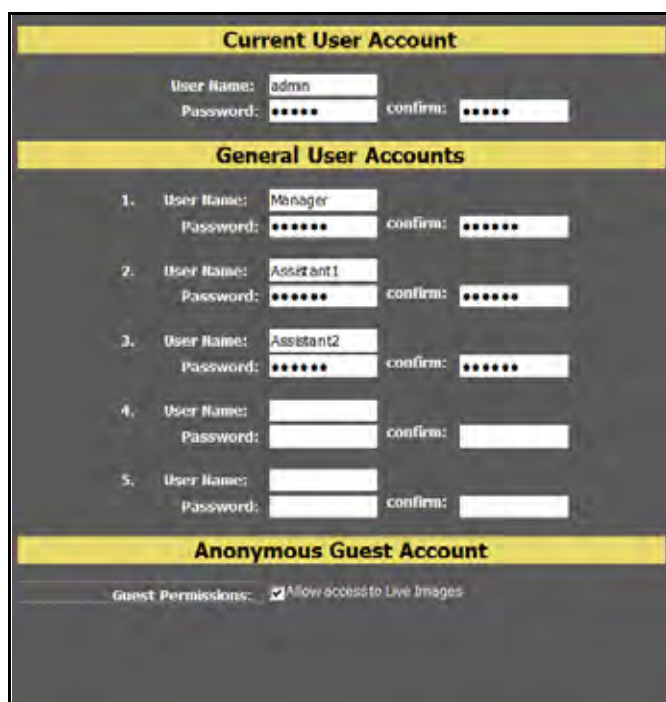
Use the Accounts Menu to control user accounts and access to the camera.

There are three user authorities on the camera:

- **Admin:** Unrestricted access to the device including all settings and options; default user name and password: **admin/admin**
- **General:** Access to basic operations, including display controls and settings in Surveillance mode and Help; user name and password are customizable
- **Guest:** Access to basic Surveillance (starting/stopping live video) and Help; default user name and password: **guest/guest**

To open the Accounts menu:

- Click Settings>**Accounts**



The screenshot displays the 'Accounts' configuration menu. It is divided into three main sections, each with a yellow header bar. The first section, 'Current User Account', shows fields for 'User Name' (containing 'admin') and 'Password' (masked with dots), followed by a 'confirm' field. The second section, 'General User Accounts', lists five entries. The first two are 'Manager' and 'Assistant1', both with masked passwords and confirm fields. The next two are 'Assistant2' and an empty entry, also with masked passwords and confirm fields. The fifth entry is empty. The third section, 'Anonymous Guest Account', contains a 'Guest Permissions' checkbox labeled 'Allow access to Live Images', which is currently checked.

Figure 23.0 Accounts menu

Current User Account

Current User Account shows the user name and password of the currently logged-in user. By default, the administrator (admin) has unrestricted access to all the settings of the device.

NOTE: You can only have *one* administrator account.

To configure administrator options:

1. Under User Name, enter the **new name** for the administrator (by default, admin).
2. Under Password, enter the **new password** for the administrator (by default, admin). Enter the password again to confirm.
3. Click **Submit Accounts** to save your changes. Please allow a few moments for your camera to update.

General User Accounts

The General user has limited access to the settings of the server. You can only create five General User accounts.

To configure general user options:

1. Under User Name, enter the **new name** for [General User 1].
2. Under Password, enter the **new password** for [General User 1]. Enter the password again to confirm.
3. Repeat steps 1~2 for the other four general users (if necessary).
4. Click **Submit Accounts** to save your changes. Please allow a few moments for your camera to update.

Anonymous Guest Account

Use the Guest account for users that you do not want to access the settings and options of your camera.

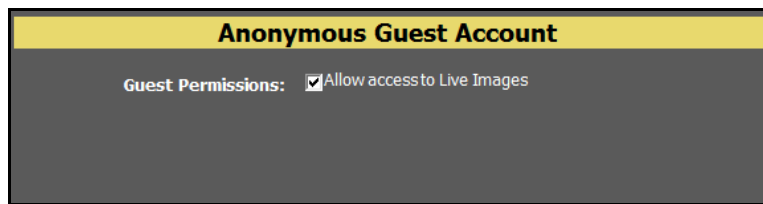


Figure 23.1 Anonymous Guest Account menu

To configure guest options:

1. Under Guest Permissions, select **Allow access to live images**. This will allow the guest to view live video from the camera. The guest cannot configure viewing or display options and does not have access to camera settings and configurations.
NOTE: Any user can access the system if the Guest Account is on.
2. Click **Submit Accounts** to save your changes. Please allow a few moments for your camera to update.

Wireless

ATTENTION: This section is applicable to LNE3003 and LNZ4001 camera models *only*. The LNE3003 & LNZ4001 are B/G wireless devices. N wireless routers must be in "mixed B/G" mode (not in N mode) to detect the camera.

Use the Wireless menu to configure wireless networking options for your wireless cameras. DigiViewer supports OPEN, WEP, WPA, and WPA2 encryptions.

To open the Wireless menu:

- Click Settings>**Wireless**

Wireless Settings

To configure wireless settings:

1. Under Wireless Mode, select **Enabled** from the drop-down menu. DigiViewer will scan for available wireless networks.
2. Select a network from the list. Options will vary depending your wireless network—these options are automatically filled in.
 - **Network Name (ESSID):** The name of the selected wireless network
 - **Current Status:** Displays Connect/Not Connected
 - **Mode:** Displays Managed or Unmanaged depending on your network
 - **Authentication:** Will display OPEN or WPA depending on your network
 - **Encryption:** Displays encryption styles
3. Under WPA/WEP Password, enter the **password** required to access your network.
4. Leave the box selected to use DHCP to set the Network Address (default). Go to **step 5**. If you want to set your own static wireless network information, deselect this box and go to **step 4**.
5. **OPTIONAL**—enter your static wireless networking information in the following fields:
 - **IP Address:** The wireless IP address for your wireless device
 - **Network Mask & Gateway:** The numeric addresses assigned to the Network Router
 - **Name Server 1 & 2:** The external IP address of the Name Server. The Name Server is a machine on a network that enables a hostname to be resolved into an IP address. (i.e. www.lorex.com translates to IP Address 207.97.199.227)
6. Click **Submit Wireless** to save your settings. Please allow a few moments for your camera to update.

The screenshot shows the 'Wireless Settings' interface. At the top, 'Wireless Mode' is set to 'Enabled'. Below is a table of detected networks:

	name	channel	signal	mode	security	authen
1.	Lab	6	100%	Infra	WEP	OPEN
2.	linksys	1	89%	Infra	AES	WPA(2)-PSK/TKIP
3.	50w	1	91%	Infra	TKIP	WPA-PSK
4.	lab	10	89%	Infra	AES	WPA2-PSK

Below the table, the configuration for the selected 'linksys' network is shown:

- Network Name(ESSID): linksys
- Current Status: Not Connected
- Mode: Managed
- Authentication: WPA-PSK
- Encryption: TKIP
- WPA Password: (empty field)
- (64 HEX chars or 8 to 63 ASCII chars)
- ☒ Use DHCP to set the Network Address
- IP Address: 192.168.45.45
- Network mask: 255.255.255.0
- Gateway: 192.168.45.45
- Name Server 1: (empty field)
- Name Server 2: (empty field)

Figure 24.0 Wireless menu

For more details, see "Setting Up Wireless Connectivity" on page 30.

Channels

Use the Channels menu to enter information about other cameras on your network. You can connect up to six network cameras and video servers for unified, simultaneous viewing.

NOTE: For better security do not access these remote cameras using administrator accounts, use general operator accounts instead.

To open the Channels menu:

- Click Settings>**Channels**

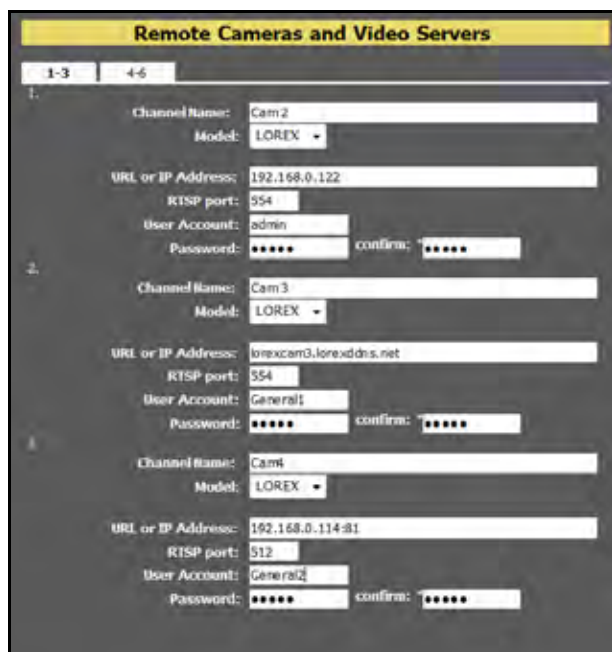


Figure 25.0 Channels menu

ATTENTION: If you change the Web or RTSP ports on any additional cameras, you must enter that new port information in the respective fields of the Channel menu. Also, you must port forward these ports on your router.

Remote Cameras and Video Servers

To configure channel options:

1. Under Channel Name, enter a **name** for the channel.
2. Under Model, select **LOREX** (default).
3. Under URL or IP Address, enter the **IP Address** or **DDNS domain** of the remote/additional camera.
NOTE: Use the DDNS domain of the camera is accessing the camera remotely, or if the camera is on a different network.
4. Under RTSP Port, enter the **streaming video port** for the streaming video port for the camera (by default, 554).
5. Under User Account, enter the **user name** for the camera.
6. Under password, enter the corresponding **password** to access the camera. Re-enter the password to confirm.
7. Repeat steps 1~6 for any additional cameras. Click the tabs at the top of the screen to switch between groups of cameras.
8. Click **Submit Channels** to save your settings. Please allow a few moments for all the cameras on the network to update.

System

Use the System menu to access Advanced Parameter Settings to perform camera maintenance and firmware upgrades.

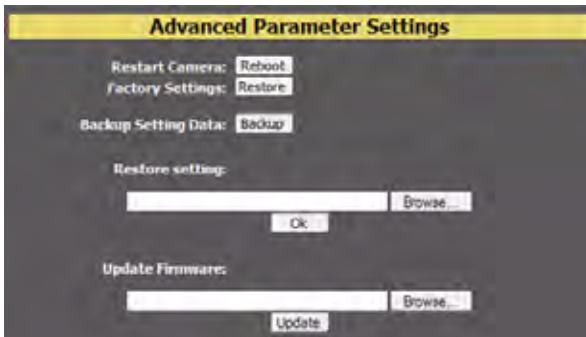
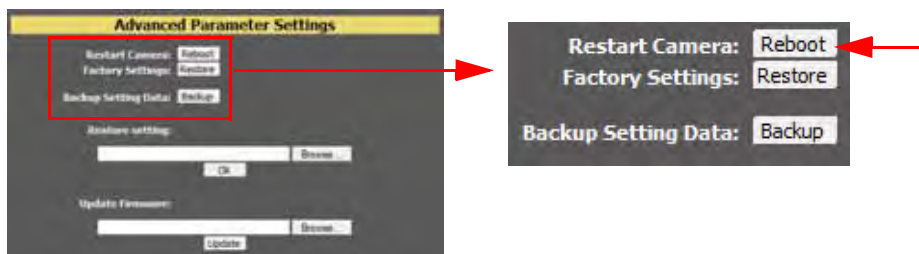


Figure 26.0 Advanced Parameters menu—Maintenance and upgrades

Advanced Parameter Settings

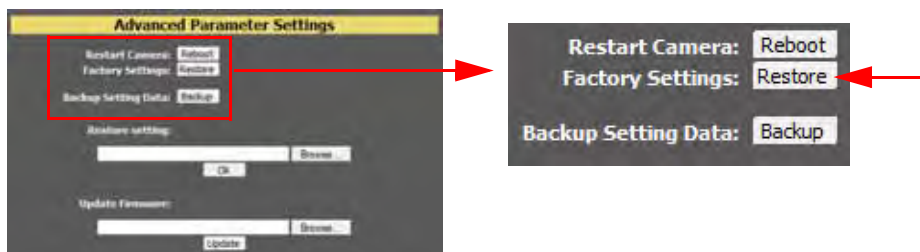
The restart your camera:

1. Click **Reboot** to restart your camera.
2. Wait for 5 seconds, and then close the browser.
3. Re-connect to the camera.



To restore factory defaults:

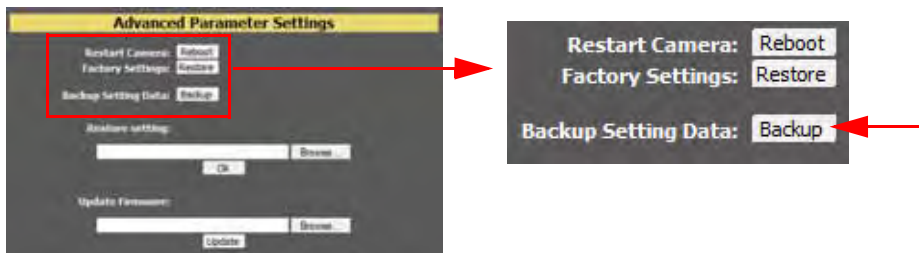
1. Click **Restore**.
2. Wait for 5 seconds, and then close the browser.
3. Re-connect to the camera.



NOTE: Closing the browser after 5 seconds speeds up the reboot and restore progress. The reboot / restart status bar will indicate that it is still in progress when you shut down the browser. This is normal.

To backup your camera settings:

1. Under Backup Setting Data, click the **Backup** button.



- A file security window opens.

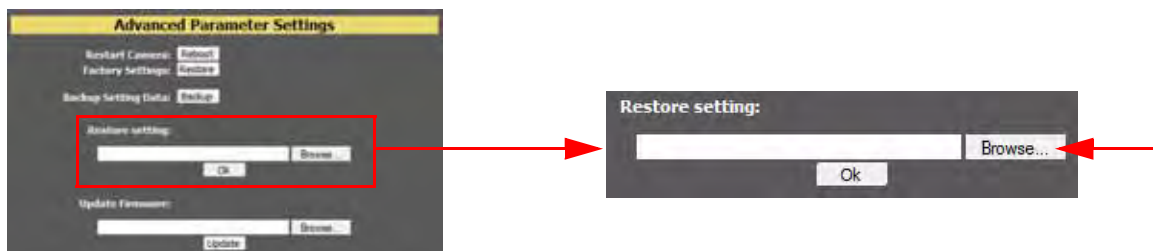


2. Click **Save** and then select the directory that you wish to save the "backup" file (default file name is **backup**). Keep this file in a safe place.

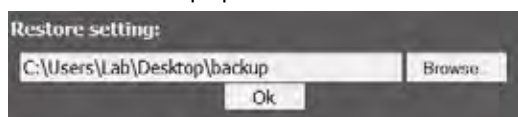
To restore your camera settings:

Prerequisite: Backup your camera settings (see above).

1. Under Restore Setting, click the **Browse** button. Locate and select the "backup" file and then click Open.



- The file name populates in the blank field.



2. Click **OK** to begin restoring the camera settings.
 - The Rebooting progress bar appears.
3. Wait for 5 seconds, then close your browser. (The rebooting status bar will remain on screen if you do not close the browser).
4. Re-connect to your camera for the changes to take effect.

Upgrading Firmware

When new firmware becomes available for your product, you can use DigiViewer to upgrade the device.

NOTE: Ensure your device is connected to your network prior to performing a firmware upgrade.

To upgrade firmware:

1. Visit www.lorextechnology.com and download the latest firmware for your camera from its product page.
2. Open DigiViewer.
3. Click **Settings** and then click **System**.
4. From the System menu click **Browse** to locate the firmware file on your PC and then click **Update**.



Figure 26.1 Select the file and click Open.



Update button

5. Click **OK** in the dialogue box to confirm the file transfer.
6. Wait until the OK window opens.



7. Click **OK**.

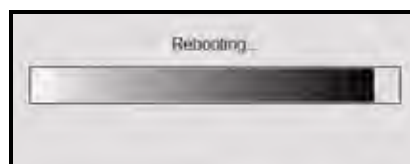


Figure 26.2 Upgrade progress.

- The rebooting window appears.

8. Wait for 5 seconds, and then close the browser.
9. Reconnect to the camera for the changes to take effect.

SYSTEM LOG

Open the System Log to view all the activity related to the devices on your network. Changes to settings or configurations are listed in the System log.

To open the System Log:

- Click Settings>**System Log**

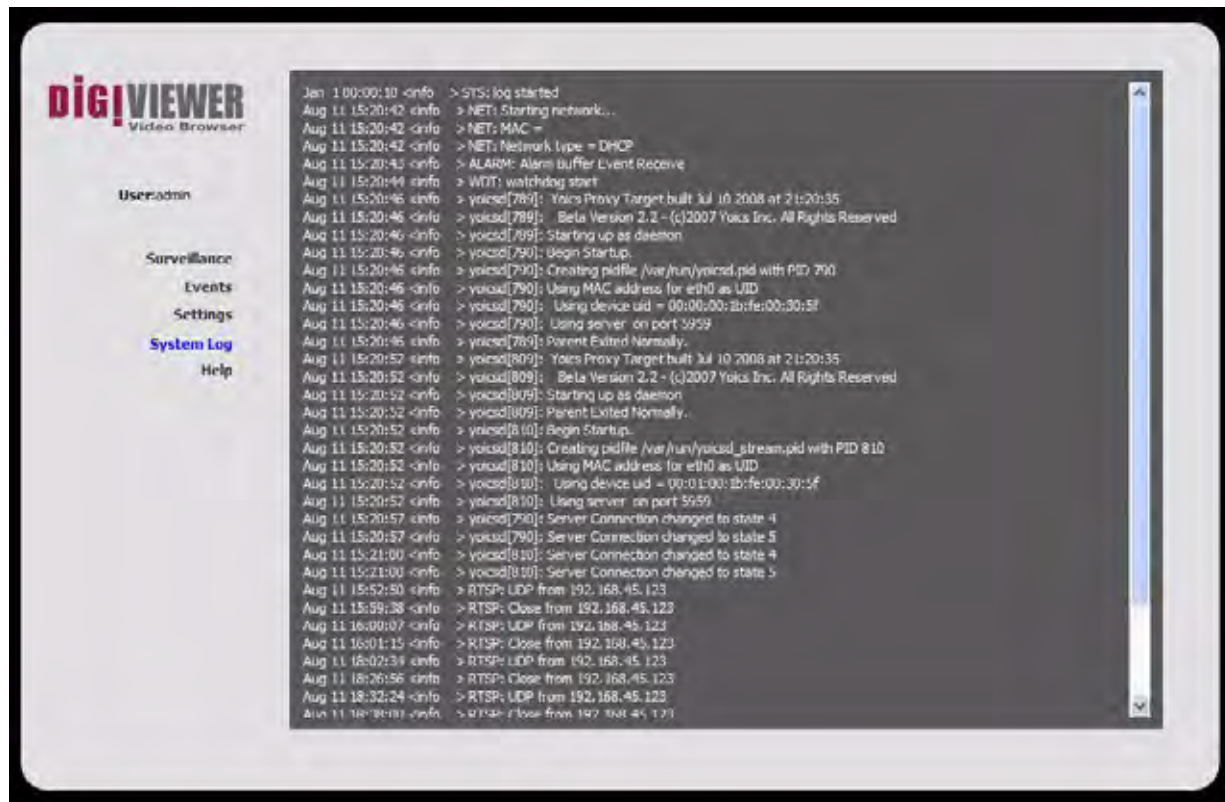


Figure 27.0 System Log menu

HELP

Open the Help screen to view support and contact information for DigiViewer.

To open the Help screen:

- Click Settings>Help



Figure 28.0 Help screen

The Help menu also displays DigiViewer information, system and software requirements, and a link to contact Lorex Customer Support.

APPENDIX A: CAMERA SPECIFICATIONS

LNE1001

SPECIFICATIONS

Models:	LNE1001
Image Sensor:	1/4" Progressive Color CMOS Sensor
Video Format:	VGA
Effective Pixels:	VGA: 640H x 480V
Scan System:	Progressive CMOS
Sync System:	Internal
S/N Ratio:	50Db
Iris:	AES (Shutter Speed: VGA : 1/7.5 ~ 1/120 sec.)
Zoom:	10x Digital
Minimum Illumination:	0.5 LUX
Lens/Focal Length/Type:	4.0 mm Fixed
Lens Mount Type:	Fixed
Aperture:	F2.0
FOV (Diagonal):	49 degree
Unit Weight:	77.4 g / 0.2 lb
Unit Dimensions:	3.7" / 96mm x 2.7" / 58mm x 1.2" / 31mm (W x D x H)
Video Compression:	Motion JPEG & MPEG-4
Max Resolution:	640 x 480 (VGA)
Frame Rate:	Motion JPEG: Up to 30 fps in all resolutions MPEG-4: Up to 30 fps in all resolutions
Video Streaming:	RTSP MPEG-4, HTTP Motion JPEG and MPEG-4 Controllable frame rate and bandwidth 3GPP/ISMA RTSP compatible
Audio:	Two-way (full duplex) Built-in microphone
Alarm and Event Management:	Motion event triggers e-mail notification with JPEG image attachment or upload to FTP
Connectors:	Ethernet RJ-45, audio line out, Power
Processors and Memory:	ARM9 based 32-bit RISC CPU 32MB RAM, 4MB Flash
Operation System:	Linux 2.4
Power:	5V DC, 1 A ; Max 5W
Operating Conditions:	0-50 °C (32 - 113 °F) Humidity 20-80% RH (no condensing)
Browser Support:	Internet Explorer, Firefox, Safari
PC Desktop Application Support:	Windows XP, Windows Vista
Remote Viewing Support:	Voics (Easy Connect) , MSN, DDNS
Mobile Support:	3GPP, Wi-Fi (iPhone™ / iPod touch™, supported 3GPP Mobile Phone)
Supported Protocols:	TCP/IP, DHCP, ARP, ICMP, FTP, SMTP, DNS, NTP, Bonjour, UPnP, RTSP, RTP, HTTP, TCP, UDP, 3GPP/ ISMA RTSP
Video Surveillance Software:	PC based DigiConsole surveillance application for viewing, recording and archiving up to 6 cameras included (Compatible with 16 camera DigiPlayer software)
Approvals:	CE, FCC, RoHS



LNE3003

SPECIFICATIONS

Models:	LNE3003
Image Sensor:	1/4" Progressive CMOS Sensor
Video Format:	VGA
Effective Pixels:	VGA: 640H x 480V(307 K)
Scan System:	Progressive
Sync System:	Internal
S/N Ratio:	More than 50Db without AGC
Iris:	AES
Zoom:	10x Digital
Minimum Illumination:	0.5 LUX without LEDs, 0 LUX with Night Vision LED
Lens/ Focal Length/Type:	4.0 mm Fixed
Lens Mount Type:	Fixed
Aperture:	F2.0
FOV (Diagonal):	58 degree
LED/Qty/LED Type (nm)/ Night Vision Range:	white LED / 6 pieces / 5m / 17 Ft
Unit Weight:	0.12 kg/0.26 Lbs
Unit Dimensions:	4.1" / 104mm X 2.5"/63mm X 1.4"/35mm (W X D X H)
Video Compression:	Motion JPEG & MPEG-4
Max Resolution:	640 x 480(VGA)
Frame Rate:	Motion JPEG: Up to 30 fps in all resolutions MPEG-4: Up to 30 fps in all resolutions
Video Streaming:	RTSP MPEG-4, HTTP Motion JPEG and MPEG-4 Controllable frame rate and bandwidth 3GPP/ISMA RTSP compatible
Audio:	Two-way (full duplex) Built-in microphone
Alarm and Event Management:	Built-in motion detection triggers e-mail notification with picture attached Image upload via FTP
Connectors:	Ethernet RJ-45, audio line out, Power
Processors and Memory:	ARM9 based 32-bit RISC CPU 32MB RAM, 4MB Flash
Operation System:	Linux 2.4
Power:	5V DC,max 4.5 W
Operating Conditions:	0-45 °C (32-113 °F) Humidity 20-80% RH (non-condensing)
Browser Support:	Internet Explorer, Firefox, Safari
PC Desktop Application Support:	Windows XP, Windows Vista
Remote Viewing Support:	Voics (Easy Connect) , MSN, DDNS
Mobile Support:	3GPP, Wi-Fi (iPhone™ / iPad touch™, supported 3GPP Mobile Phone)
Supported Protocols:	TCP/IP, DHCP, ARP, ICMP, FTP, SMTP, DNS, NTP, UPnP,RTSP, RTP, HTTP, TCP, UDP, 3GPP/ ISMA RTSP
Video Surveillance Software:	PC based surveillance application for viewing, recording and archiving up to 8 cameras
Approvals:	CE,FCC,RoHS



LNZ4001

SPECIFICATIONS

Models:	LNZ4001	PC Desktop Application Support:	Windows XP, Windows Vista
Image Sensor:	1/4" Progressive Color ; CMOS Sensor	Remote Viewing Support:	Yoics (Easy Connect) , MSN, DDNS
Video Format:	VGA	Mobile Support:	3GPP, Wi-Fi (iPhone™ / iPod touch™, supported 3GPP Mobile Phone)
Effective Pixels:	VGA : 640 H x 480 V	Supported Protocols:	TCP/IP, DHCP, ARP, ICMP, FTP, SMTP, DNS, NTP, Bonjour, UPnP, RTSP, RTP, HTTP, TCP, UDP, 3GPP/ ISMA RTSP
Max Resolution:	640 x 480(VGA)	Video Surveillance Software:	PC based DigiConsole surveillance application for viewing, recording and archiving up to 6 cameras included with 16 camera DigiPlayer software)
Scan System:	Progressive CMOS	(Compatible	
Sync System:	Internal	Approvals:	CE, FCC, RoHS
S/N Ration	50 dB		
Iris:	AES (Shutter Speed: VGA : 1/7.5 ~ 1/120 sec.)		
Zoom:	10x Digital		
Pan/Tilt:	354° pan range, 60°/sec pan speed 125° tilt range, 80°/sec tilt speed		
Minimum Illumination:	0.5 LUX without IR LED , 0 LUX with IR LEDs on		
IR LED/Qty/LED Type:	5 IR LEDs x 12 (850nm)		
Night Vision Range:	10M		
Day/Night Function:	Mechanical IR cut filter		
Video Compression:	Motion JPEG & MPEG-4		
Lens/Focal Length/Type:	4.3 mm Fixed		
Lens Mount Type:	Fixed		
Aperture:	F2.0		
FOV (Diagonal):	55 degree		
Unit Weight:	0.281 Kg/0.6 Lbs		
Unit Dimensions:	112 x 114 x 114 mm (4.4"x 4.4" x 4.4") (W X D X H)		
Video Compression:	Motion JPEG & MPEG-4		
Max Resolution:	640 x 480(VGA)		
Frame Rate:	Motion JPEG: Up to 30 fps in all resolutions MPEG-4: Up to 30 fps in all resolutions		
Video Streaming:	Video Streaming: RTSP MPEG-4, HTTP Motion JPEG and MPEG-4 Controllable frame rate and bandwidth 3GPP/ISMA RTSP compatible		
Audio:	Two-way (full duplex) Built-in microphone		
Alarm and Event Management:	Motion event triggers e-mail notification with JPEG image attachment or upload to FTP		
Connectors:	RJ-45 for Ethernet 10/100 Base-T, DC power jack, Terminal blocks for 1 alarm input, 1 output, Reset push switch, 3.5 mm jack for Mic/Line, 3.5 mm jack for line out		
Termination:	1 port DI , 1 port DO		
Input / Output:	Alarm input 5V/12V DC / Alarm output Max 30W		
Processors and Memory:	ARM9 based 32-bit RISC CPU 32MB RAM, 4MB Flash		
Operation System:	Linux 2.4		
Power:	12V DC, 1A, Max 5W		
Operating Conditions:	0-50 °C (32 - 113 °F) Humidity 20-80% RH (no condensing)		
Browser Support:	Internet Explorer, Firefox, Safari		

354° PAN/125° TILT



APPENDIX B: ADDING CAMERAS

DigiViewer can let you view and control up to six Internet cameras simultaneously. To purchase additional LNE Series Internet cameras, please visit www.lorextechnology.com.

Setting up Additional Cameras

Following your camera's quick start guide and instruction manual, set up the additional camera(s). Make sure you have performed the following:

- Properly assembled the camera
- Mounted the camera to a desired location (optional)
- Connected the camera to your router
- Connected the camera to a power outlet

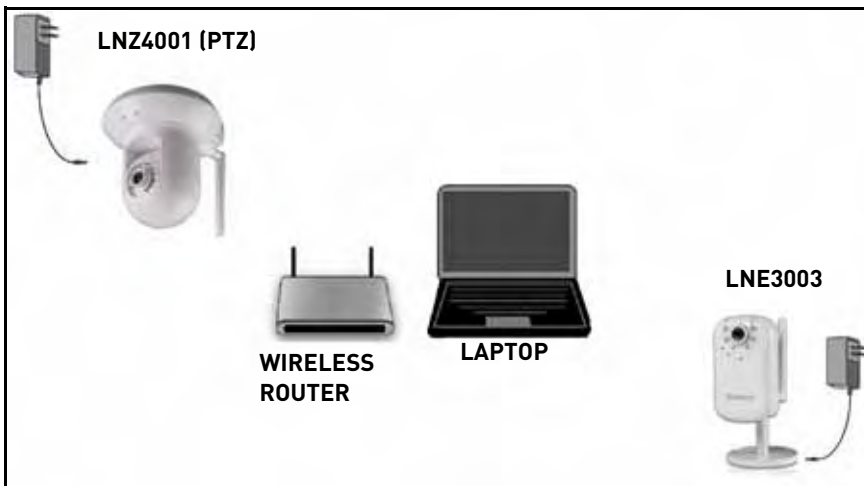


Figure 29.0 Assemble and setup an additional camera

Finding the Additional Cameras

To find the additional camera(s):

1. Launch DigiConsole (insert the software CD or if you have installed DigiConsole to your PC, select Start>Programs>**DigiConsole**).
2. Click **Find**. Your camera should appear in the list of device.
NOTE: If you have added the new camera to your existing network, your new camera and your original camera should both appear in the device list. If you are adding the new camera to a different network...
3. Using DigiViewer, click Settings and then **Device Setup**.

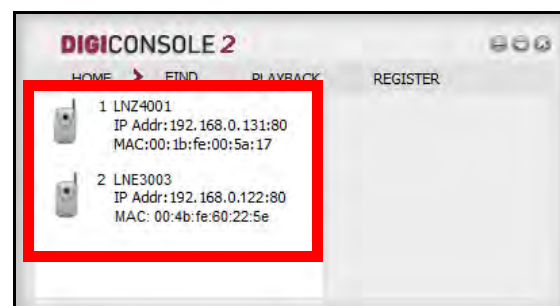


Figure 29.1 Find your new camera using DigiConsole

- Under Network Configuration, enter a new Web port for the additional camera. By default, the Web port is 80. The new Web port must be different from that of the original camera. For example, change the Web port of the additional camera to **81**.

Network Configuration

IP Ports (Web): mjpeg:
 IP Ports (RTSP): 3gp:
☒ Use DHCP to set the Network Address

IP Address:
 Network mask:
 Gateway:
 Name Server 1:
 Name Server 2:

Figure 29.2 Change the Web port and streaming video port on your additional camera(s).

- Enter a new RTSP port for live video streaming. By default, the streaming video port is 554. The new streaming port must be different from that of the original camera. For example, change the port to **553**.
- Click **Submit Network** to save your settings.
- Continue configuring your camera as desired.

ATTENTION: You must port forward the new Web ports and streaming video port for each additional camera in your router. In this example, we would need to port forward ports 81 and 553. For tips on port forwarding, see “Appendix D: Router Port Forwarding” on page 96. For complete information on forwarding ports on your router, please refer to your router’s instruction manual or visit your router manufacturer’s website.

Port Ranges

You can set a range of ports in Network Configuration. This sets one port forwarding rule in your router instead of four. For example:

Port Name	Port	Change To:
IP Port (Web)	80	8000
IP Port (RTSP)	554	8003
mjpeg Port	8070	8005

Note: Port numbers cannot be consecutive (i.e 8001, 8002).

NOTE: Any changes will make the camera restart. Please allow a few moments for the camera to update.

Adding Cameras to DigiViewer

NOTE: Make sure additional cameras are setup and configured individually before entering their network information in the Channel menu of the original camera.

The screenshot shows the 'Remote Cameras and Video Servers' configuration window. It has a yellow title bar and a dark grey background. There are three numbered sections (1, 2, 3) for adding cameras. Section 1 is highlighted with a red rectangle. Each section contains the following fields:

- Channel Name: Text input field
- Model: Dropdown menu (LOREX is selected)
- URL or IP Address: Text input field (192.168.0.122:81)
- RTSP port: Text input field (553)
- User Account: Text input field (admin)
- Password: Text input field (masked with dots)
- confirm: Text input field (masked with dots)

Figure 29.3 Enter the IP and login information of the additional camera in the Channels menu of the original camera

To add additional cameras to DigiViewer:

1. Double-click your original camera to launch DigiViewer in your default browser.
2. Log in to your original camera.
3. From DigiViewer, click **Settings** and then click **Channels**. You will add information about your new camera to the list of Remote Cameras and Video servers.
4. Under Channel Name, enter a **name** for the channel.
5. Under Model, select **LOREX** (default).
6. Under URL or IP Address, enter the **IP Address or DDNS domain name** of the additional camera combined with the new Web port. For example, **192.168.0.122:81**
NOTE: If your additional camera will be on a different network than your original camera, you will need to enter the DDNS domain of the additional camera in the URL field combined with a new Web port. You will need to register the additional camera for Lorex's FREE DDNS service prior to entering any DDNS information in the Channels menu.
7. Under RTSP Port, enter the **streaming video port** for the streaming video port for the camera. For example, **553**.
8. Under User Account, enter the **user name** for the camera (by default, admin).
9. Under password, enter the corresponding **password** to access the camera. Re-enter the password to confirm (by default, admin).
10. Click **Submit Channels** to save your settings. Please allow a few moments for all the cameras on the network to update.

Viewing Cameras

Once your new cameras have been entered in the Channels menu, you can view them simultaneously in DigiViewer.

To view cameras simultaneously:

1. Log in to your original camera using DigiViewer in your default browser.

2. Click Surveillance. If necessary, click  to resume live viewing.

3. Click  to open the Channel Display menu.

4. Use the Channel Display menu to view channels in full-screen, quad, and 6-channel split-screen. Click the red squares to view the selected channel in single-channel.

5. Click  to view the selected channel in full-screen.

6. Click  to begin auto-sequence. DigiViewer will switch between the channels in single-channel view.

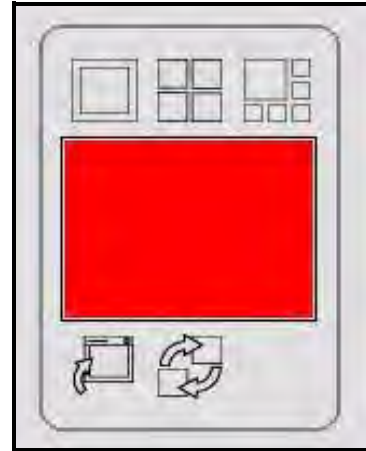


Figure 29.4 Channel Display menu



Figure 29.5 Multi-camera display in DigiViewer (images simulated)

APPENDIX C: NETWORK CONNECTIVITY

Your IP Device is designed to be controlled using your existing local network and the provided DigiConsole and DigiViewer software. You can also view your device remotely using Yoics Remote Access.

1. Connect the device to the router or switch using an Ethernet cable, and power on the device.
NOTE: The device must be connected to the router prior to connecting power to the IP device.
2. Locate the MAC and IP address of your device using DigiConsole. For details, see “Locating the IP and MAC addresses” on page 95.
3. Run DigiConsole from the provided software CD (optional installation to PC), and configure DigiViewer to allow DDNS connectivity. For details, see “Appendix F: Setting Up DDNS Service” on page 104.



Figure 30.0 Network connectivity diagram

Locating the IP and MAC addresses

To find your IP and MAC addresses using DigiConsole:

1. Run DigiConsole from the software CD included with the product.
2. From the main menu, click **Find** to open the list of devices. DigiConsole automatically locates all available Internet cameras on the network.
3. Locate the IP and MAC addresses next to the device icon.
4. Record the MAC address. This information is necessary for the DDNS Registration process.

NOTE: The IP Devices must be on the same local network as the PC for discovery and initial setup. Once the device is properly configured, you may access it remotely over the Internet.

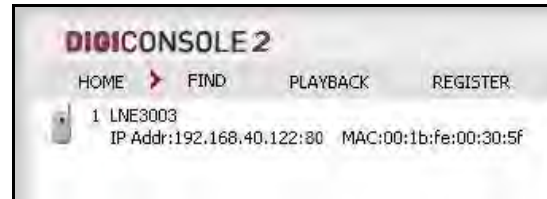


Figure 30.1 IP and MAC addresses in DigiConsole

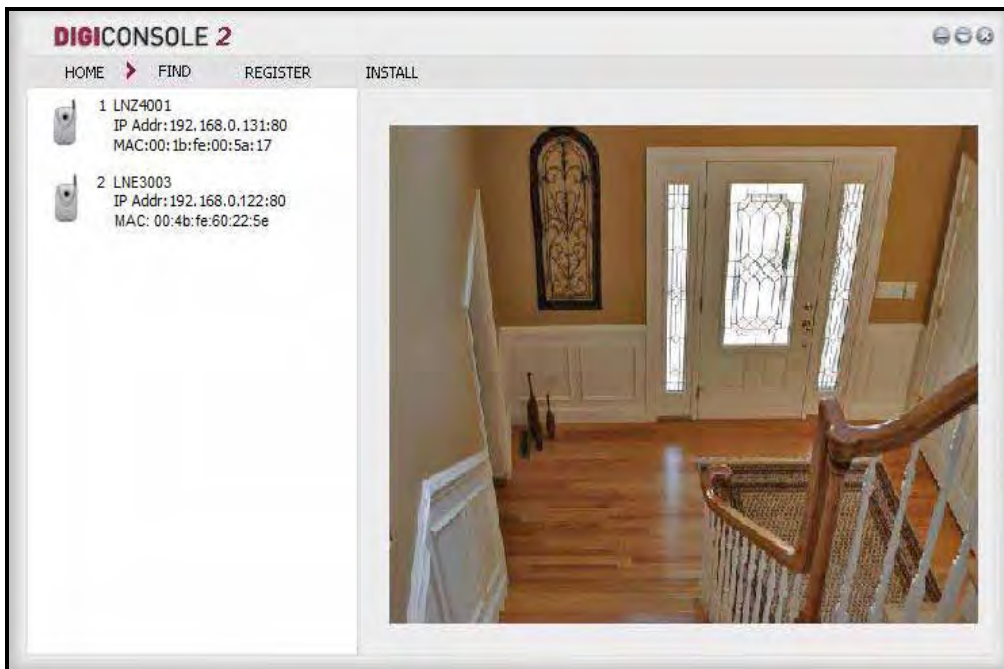


Figure 30.2 IP and MAC address are immediately visible in the device list

APPENDIX D: ROUTER PORT FORWARDING

In order to view the device remotely (over the Internet), follow the steps outlined on the following pages to setup a free DDNS Remote Access account.

You will need to enable port forwarding on your router to allow for external communications with your device. The following ports will need to be forwarded to remotely connect to your device:

- Video Port **554**
- Web Port **80**

Computers, IP cameras, and other devices inside your network can only communicate directly with each other within the internal network. Computers and systems outside your network cannot directly communicate with these devices. When a system on the internal network needs to send or receive information from a system outside the network (i.e. from the Internet), the information is sent to the router.

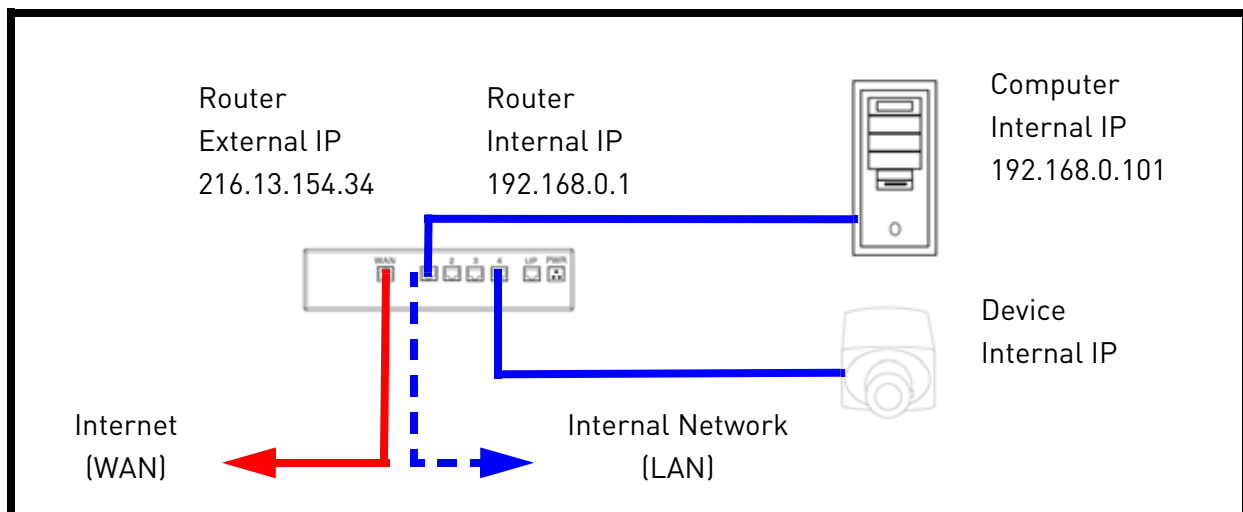


Figure 31.0 Network example with port forwarding

When a computer on the Internet needs to send data to your internal network, it sends this data to the external IP address of the router. The router then needs to decide where to send this data. This is when Port Forwarding becomes important.

Port Forwarding tells the router to which device on the internal network to send the data. When you set up port forwarding on your router, it takes the data from the external IP address:port number and sends that data to an internal IP address:port number (i.e Router External IP 216.13.154.34:554 to IP Device Internal IP 192.168.0.3:554).

NOTE: If using multiple IP Devices on the same network, you need to assign a different remote access port for each device.

The instructions found online in the Router Configuration Guides will assist you in the port forwarding configurations for a selection of different router models. Visit our Consumer Guides Support website at <http://www.lorextechnology.com/support> for more details.

APPENDIX E: AUTO PORT FORWARDING WIZARD

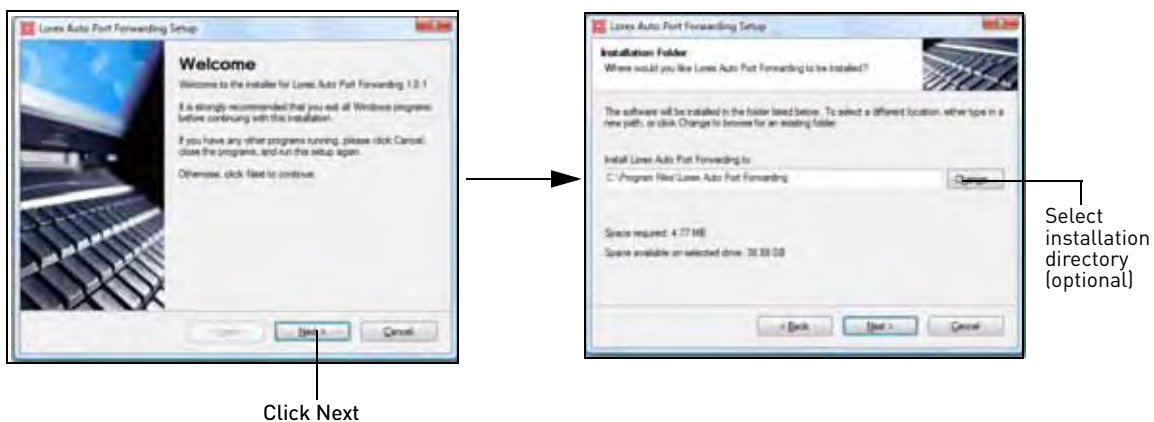
The Lorex Auto Port Forwarding Wizard is an exclusive software that easily automates router port forwarding. Before setting up a DDNS account, it is recommended to run the Auto Port Forwarding Wizard to port forward the required ports.

You can download the Lorex Auto Port Forwarding Wizard and online at <http://www.lorextechnology.com/easyconnect/> (warranty and DDNS registration required). A video tutorial is also available on that page.

Installation

To install the Lorex Auto Port Forwarding Wizard:

1. Insert the system's software CD, and follow the instructions to launch the Lorex Auto Port Forwarding Wizard software.
 - The installation window opens.
2. Click **Next** to continue.



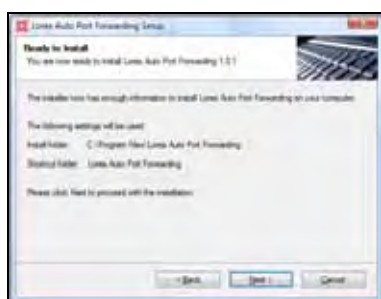
3. Click the **Change** button to change the default installation directory (optional). Click the **Next** button to continue.

4. Select the users who can see the Auto Port Forwarding shortcut (Optional). Click the **Next** button to continue.

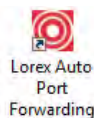


Select the users who can see the software shortcut (optional)

5. Click the **Next** button and then click **Finish** to complete the software installation.



Finish button

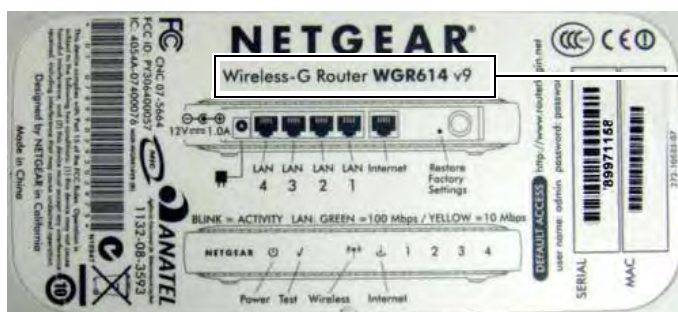


6. Double-click the Lorex Auto Port Forwarding shortcut ([Lorex Auto Port Forwarding]) from your desktop to start the program.

Obtaining Your Router Model Number and Version

On most routers, the model and version number can be found underneath the router, printed on a sticker.

Example



Wireless-G Router WGR614 v9

- WGR614 refers to the model number
- v9 refers to the version number

Figure 25.7 X Finding your router model and version.

Configuration



You must have the following before you configure the software:

1. Your router's model number and version number
2. Your router's user name and password
3. Your Lorex device's IP address
4. Your Lorex device's port numbers that require port forwarding

Initial Startup: Select language

1. Click the Language drop-down menu and select a language (English, French, Spanish). Click the **Start** button to continue.



Language drop-down menu

Software update section

Start button



Download Now button

A software update includes an updated list of routers compatible with the Auto Port forwarding Wizard.

2. If software updates are available, click the **Download Now** button in the top-right corner.
 - Run the update file and install the latest version of the software.

Step 1: Populate the router database

The Auto Port Forwarding Wizard automatically populates a list of current routers, and detects the number of connected routers.

1. Click the **Next** button after the software detects your router configuration.



Click to update router database

Click to check for multiple routers



If more than one router is detected, you may need to contact your ISP (Internet Service Provider) to port forward.

For details on configuring multiple routers, see "Configuring multiple routers" on page 101.

Step 2: Enter your router settings

1. Under the Router drop-down list, select the model of your router.

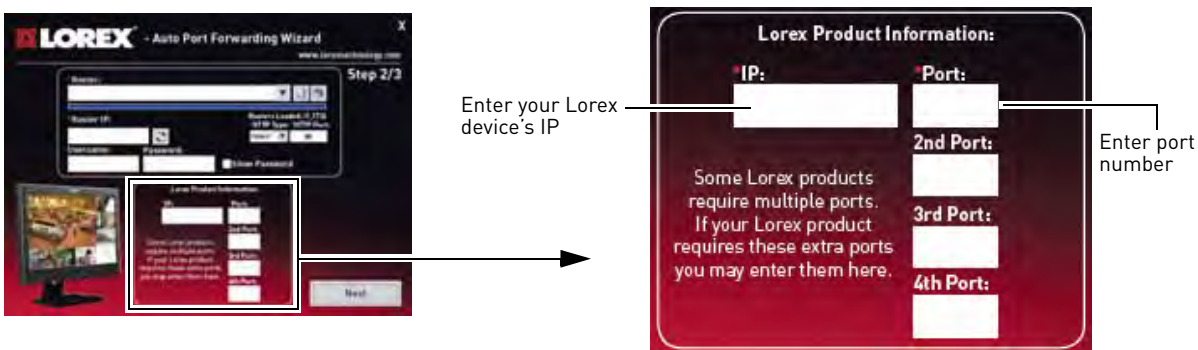
OR

- Click the **Search** button () to enter the name of your router model.

NOTE: Click the **Auto Detect** button () if you have a Linksys or Netgear router (works with most Linksys or Netgear models).



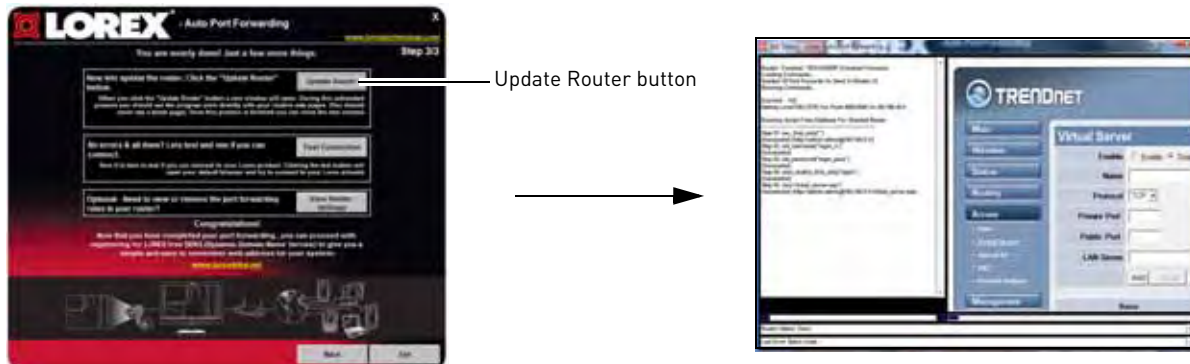
2. Under Router IP, click the **Detect Router IP** button ().
 - The router's IP populates in the blank field. Click **OK** to exit the prompt.
3. Under Username and Password, enter **the router's** username and password.
 - Optional: Under HTTP Type (default http://) and HTTP Port (default, 80), you may have to change the values depending on your router model. Consult your router manual for details.



4. Under IP, enter the IP address of your Lorex device.
 - To find your system IP, exit to the main viewing mode, and then press the **INFO** button on your remote, or press the **RETURN** button on the front panel of the system.
5. Under **Port**, enter the Web Port (**80**). Under **2nd Port**, enter the RTSP port (**554**).
6. Click **Next** to continue.

Step 3: Update the router settings

1. Click the **Update Router** button.
 - You will see your router window open. The Auto Port Forwarding Wizard automatically populates your router with the relevant information. This will take a few moments.



2. Close the update window when the update finishes.

Step 4: Test your connection

1. Click the **Test Your Connection** button.
 - Your system's default browser opens and connects to your **Lorex device**.

NOTE: Ensure that Internet Explorer is your system's default internet browser.

NOTE: You will be prompted to enter your **IP device's** user name and password (do not enter your DDNS log in information).

NOTE: ActiveX warnings may appear. Accept all ActiveX installation warnings to connect to your system.

Configuring multiple routers

Your network may have two or more connected routers. During the initial launch of the auto port forwarding wizard, the program scans the network to detect the number of connected routers.

To check for multiple routers:

1. Click the **Detect Multiple Routers** button ().
 - A list of connected router populates in the window.



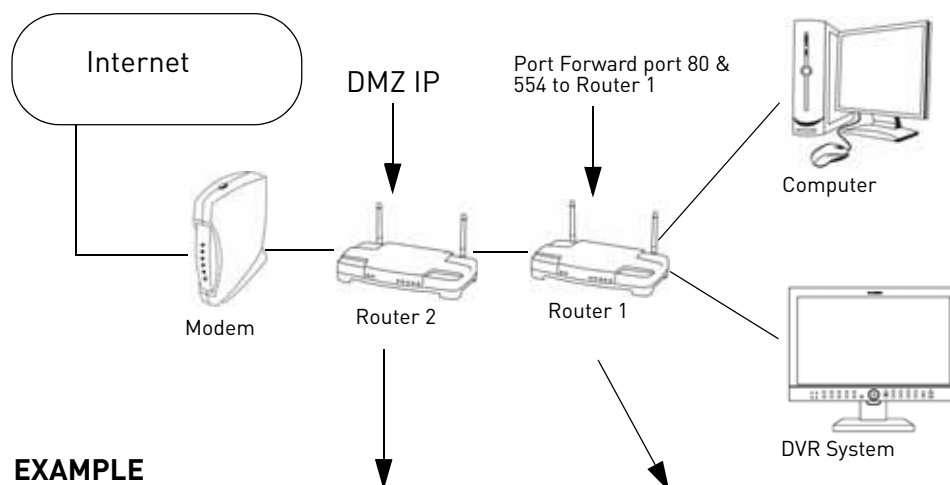
- The "Possible 1st Router" refers to the router directly connected to your system. This is the router that requires the port forward information.
- The "Possible 2nd Router" refers to the router immediate to the internet connection. This is the router that requires you to configure a DMZ host connection.

Scenario A: Router/Modem combination + Router

- You may have a router/modem combination, with a second router in your network.

Scenario B: Multiple Routers

- You may have two routers in your network.



EXAMPLE



Enter 192.168.1.100 into the DMZ Host IP section into Router 2



IP Address: 192.168.1.100
(Assigned by Router 2)

In both scenarios, the router that is immediate to the internet connection (Router 2 in illustration) must act as a "bridge" to another router (Router 1 in illustration). The Auto Port Forwarding Wizard must connect to Router 1.

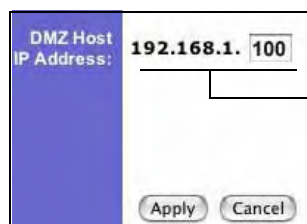
A proper DMZ configuration in Router 2 allows all incoming traffic going through Router 2 to automatically pass to Router 1. Router 2 acts as a "dummy" router and passes all the incoming data onto Router 1. Router 1 is the router that needs the port forwarding information.

Configuring a DMZ host connection

- Connect to "Router 1" on your network (referred to as "Possible 1st Router" in the Auto Port Forwarding Wizard). Obtain the IP address of Router 1. Usually this can be found in the "Status" section of your router menu. The IP should begin with "192.168...." This IP address is your DMZ IP.
- Enter the IP address obtained from Router 1 into the DMZ section of Router 2.
- Once you have configured Router 2 with a DMZ connection, run the Auto Port Forwarding Wizard to begin auto port forwarding to Router 1.
- Consult your router's owner's manual for details on configuring DMZ settings.

Example

DMZ stands for Demilitarized Zone. Enabling a DMZ IP on your router enables one of the routers to pass information onto the second router.

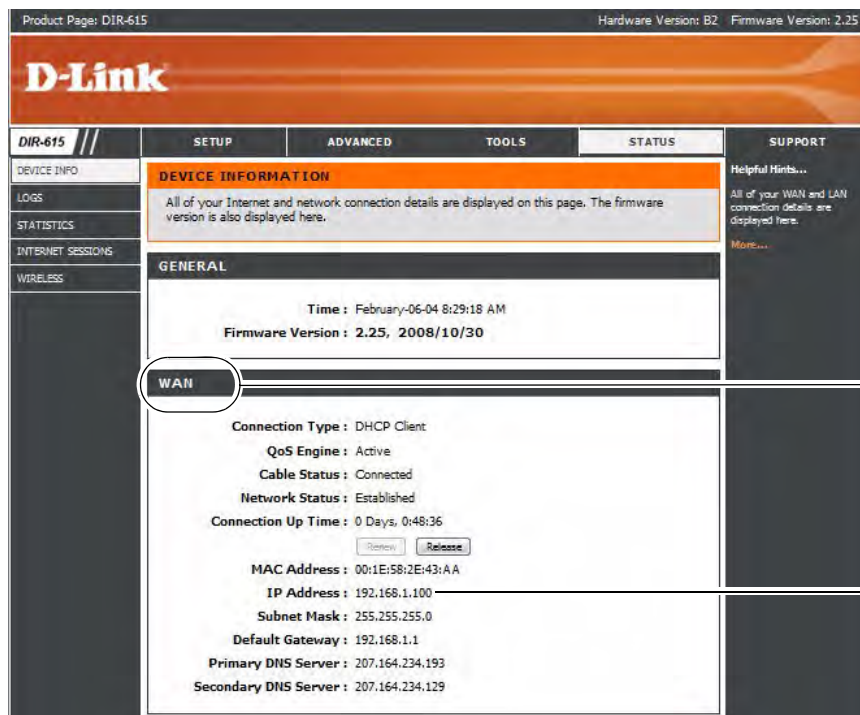


DMZ IP address assigned by a secondary router

Locating your Router IP - The Status Page

The "Status Page" of a router normally includes the router's vital information such as the IP address.

EXAMPLE



The IP information is normally under a header called "WAN" or "Internet Port". Each router has different terminology.

Router IP assigned by the main router. Enter this IP into the DMZ section of the primary router.

APPENDIX F: SETTING UP DDNS SERVICE

Lorex offers a free DDNS server for use with your Internet camera. A DDNS account creates a website address that allows you to access your camera from a remote location.

To setup your free Lorex DDNS account:

1. In your browser go to <http://lorexddns.net> and click **Create Account**.
2. Complete the Account Information fields with your personal information. Complete the Warranty Information with your purchase details (optional).
3. Complete the System Information fields:
 - **Product License:** Select your product model from the Product License drop down menu
 - **←Product Code→ - ←MAC Address→:** Locate the MAC address of your (recorded while loading the System)
 - **URL Request:** Choose a URL for your DDNS connection (i.e. your name, your company or business name, or anything of your choice.)
4. Once you have entered the information, click **Create New Account**. The email will be sent to the address you entered in step 2.

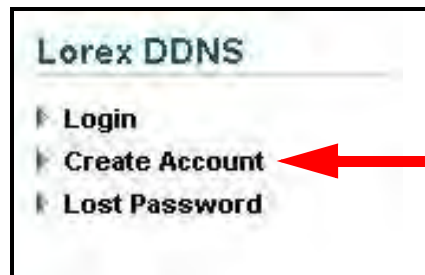


Figure 32.0 Lorex DDNS login

Figure 32.1 Complete personal information fields

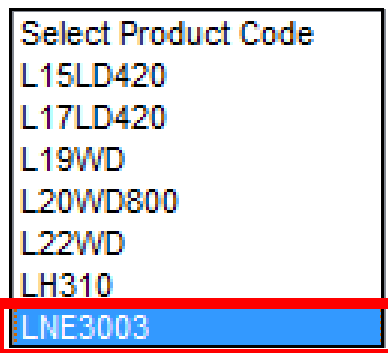


Figure 32.2 Select your model number

Figure 32.3 Click Create New Account

You will need this information for remote access to your system. Record your information below:

Username: _ _ _ _ _

Domain name*: _ _ _ _ _

Password: _ _ _ _ _

* Only the first part of the Domain Name is required for setup on the system. For example, if the full domain sent is *tomsmith.lorexddns.net*, you only need to enter **tomsmith** on the system.

Configuring DDNS in DigiViewer

Use the information from the DDNS confirmation email to configure DigiViewer to connect remotely to your device using DDNS.

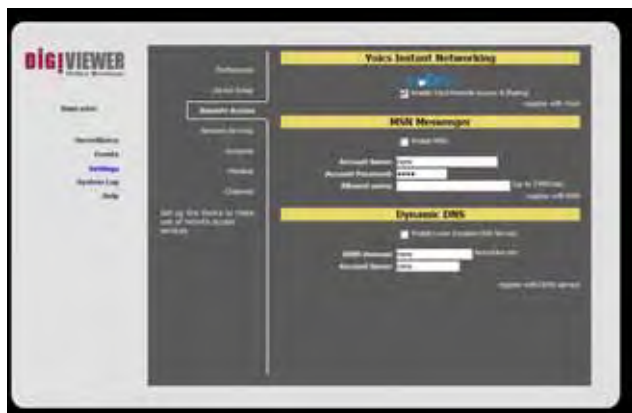


Figure 34.0 Remote Access menu in DigiViewer

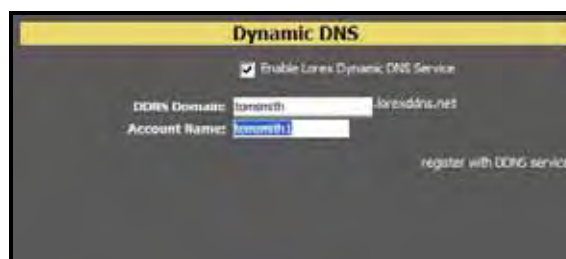


Figure 34.1 Enter DDNS information confirmation email

To configure DDNS in DigiViewer:

1. Open DigiViewer:

- Open directly in your web browser using your device's IP address

OR

- From DigiConsole. From the Find menu, right-click the device and select **Open Device in Browser**

2. Enter the **user name** and **password** to login to the device (default: admin / admin).

3. From the DigiViewer main window, click **Settings** and then click **Remote Access**.

4. Under Dynamic DNS, select **Enable Lorex Dynamic DNS Service**.

5. Enter the **domain name** and **user name** from your DDNS confirmation email. (Enter the first portion of your DDNS address i.e if your DDNS address is tomsmith.lorexddns.net, only enter **tomsmith**. DigiViewer will automatically update with your newly entered DDNS information).

6. Click **Submit Remote** save your changes.

NOTE: If you have not already registered for free Lorex DDNS Service, click **Register with DDNS Service** at the bottom of the remote access window to go to the Lorex DDNS website.

7. Click **System Log**. Scroll to the bottom of the log to confirm that DDNS has been successfully registered. Look for a message that starts with " DDNS: successful update...."



Figure 34.2 Allow DigiViewer to update before closing browser window



```
Jul 29 10:45:57 <info> > DDNS: started for interface auto host Ine1.lorexddns.net using server ddns.lorexddns.net and service lorex
Jul 29 10:47:01 <info> > DDNS: eth0 ip initial get => 192.168.5.103
Jul 29 10:47:01 <info> > DDNS: Public ip initial get => 74.12.124.88
Jul 29 10:47:01 <info> > DDNS: address initial update = 74.12.124.88
Jul 29 10:48:13 <info> > DDNS: successful update for eth0(192.168.5.103):74.12.124.88 -> ( Ine1.lorexddns.net)
```


APPENDIX G: CONNECTING ALARM AND MOTION DEVICES

This section is applicable to LNZ4001 Series models *only*.

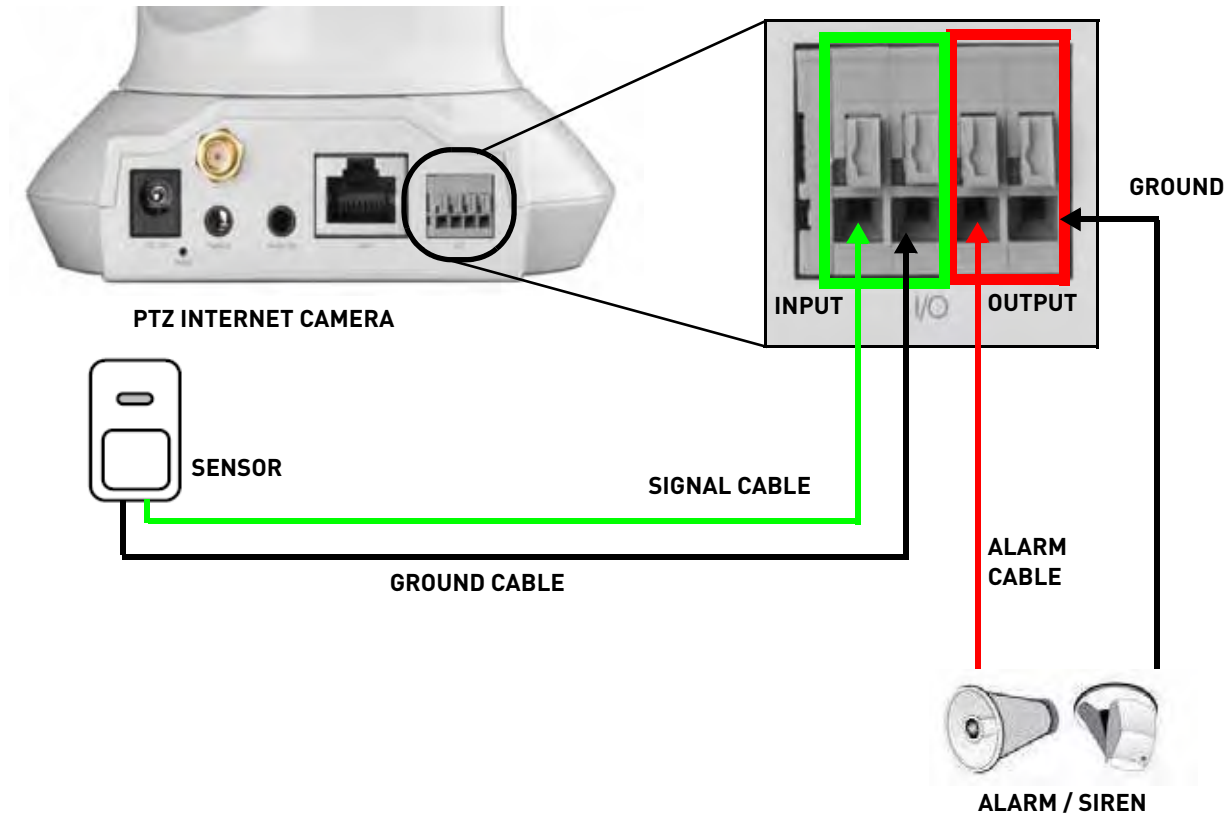


Figure 35.0 Alarm block on rear panel of LNZ4001 cameras

You can connect 12V alarm and motion devices to an LNZ4001 Series camera. When an alarm is triggered, the PTZ Internet camera can be set to automatically turn towards the triggered area.

To connect an external alarm sensor to the system:

1. Connect the Signal Cable to the desired **left-most port** on the rear panel.
2. Connect the Ground Cable to the port (second from left) on the rear panel.
3. If desired, connect an alarm or siren to the output ports on the rear panel.
4. Enable Alarm Input and Output in DigiViewer>Events>**Alarm Input/Output**. For complete details, see "Alarm Input/Output" on page 67.

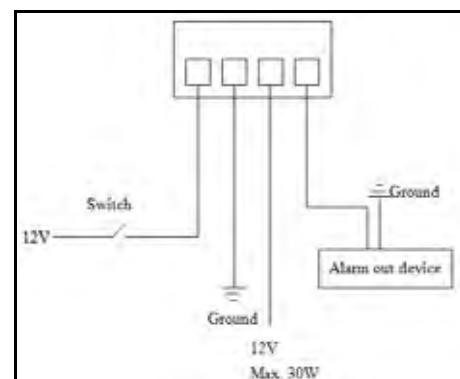


Figure 35.1 Alarm block connections

APPENDIX H: REMOTE ACCESS WITH INTERNET EXPLORER

You can access your device from a remote location without using DigiConsole.



Figure 36.0 Access your device remotely using Internet Explorer

To access your device remotely using Internet Explorer:

- Open Internet Explorer, and enter the Local IP address of the camera (i.e. <http://192.168.0.104> if inside the Local Network), or the Remote IP address of the camera (i.e. <http://72.154.89.164>) or the DDNS domain of the camera (<http://myurl.lorexddns.net>)

Internet Explorer Security Warnings

Several security warnings may appear (based on your Internet Explorer settings) when launching DigiViewer in Internet Explorer. If not already installed on your system, you need to install ActiveX. You also need to grant DigiViewer and other related components or applications access to the Internet.

To install ActiveX:

1. Click the warning bar (it turns from yellow to blue) and select **Install ActiveX Control**.

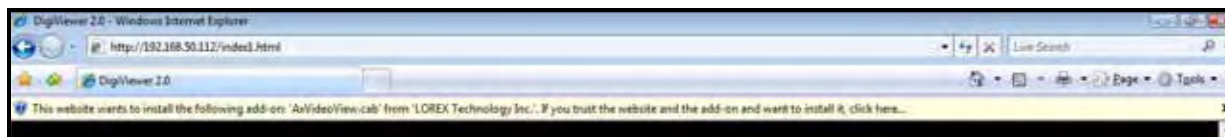


Figure 36.1 Right-click the warning bar in Internet Explorer

2. Click **Unblock** or **Continue** in any subsequent security windows. Some IP devices require connectivity across the network, and may be flagged by the Windows Firewall when a connection to your PC is made.
3. Click **Install** to start the installation. DigiViewer resets and live video streams in your browser.



Figure 36.2 You must install ActiveX for DigiViewer to function properly

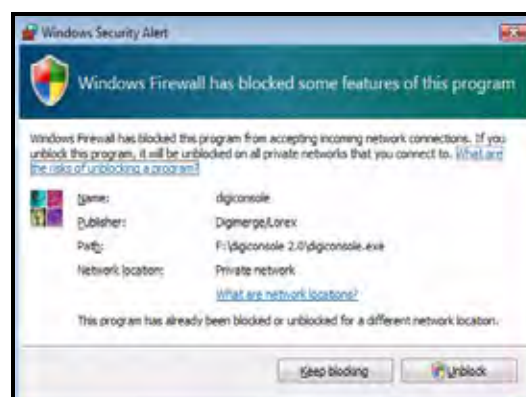


Figure 36.3 Unblock applications to allow access to the Internet

APPENDIX I: SETTING UP HTTP EVENTS

Your Lorex Internet camera includes an advanced feature that allows you to enable HTTP Events.

NOTE: HTTP Events require at least two cameras on the same network.

HTTP Event means that if motion is detected, or an alarm is triggered on one camera, an event notification can be sent to another camera. A PTZ Internet camera can be programmed to automatically turn towards the target area.

Example

Positioning the Cameras

Camera A, an LNZ4001 PTZ camera, is mounted to the ceiling in one corner of an office. Camera B, an LNE3003, has been placed to monitor the door at the opposite end of the room.

ATTENTION: Make sure you can view each camera in DigiViewer before setting up an HTTP Event Trigger. Multiple cameras on your network require their own Web ports and RTSP ports. You can configure the ports of each camera from DigiViewer>Settings>Device Setup>**Network Configuration**.

Setting a Preset

You must set a preset location for the PTZ prior to configuring HTTP triggering. In this example, you want the PTZ camera to turn towards Camera B when an HTTP event is triggered.

To set a preset:

1. Open DigiViewer.
2. Click  at the bottom of the main display screen. The PTZ Control pane appears on the left side of the main display screen.
3. Click the navigation arrows to position the camera to face Camera A.

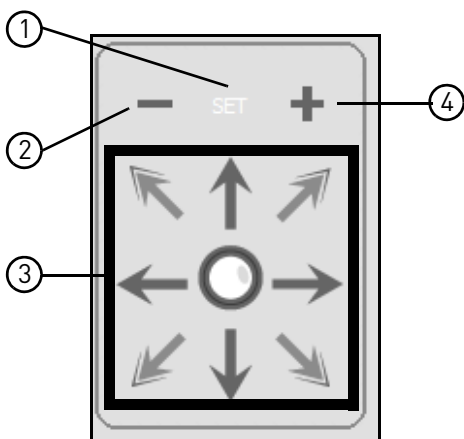


Figure 37.0 PTZ Control pane

1. **Set:** Open Preset and Patrol Control pane.
2. **-:** Zoom out.
3. **Navigation:** Pan and tilt the camera.
4. **+:** Zoom in.

- Click **SET** to open the Preset/Patrol Control pane.

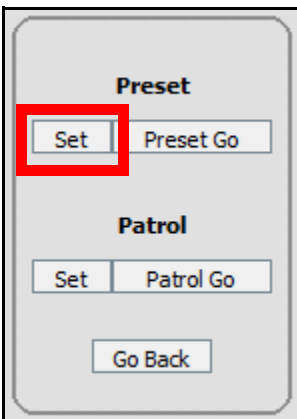


Figure 37.1 Click Set

- Click **Set** to save the position as a preset.

Entering HTTP Event Information

With your preset saved, you must now enter the network information for Camera A as an HTTP Event.

To set an HTTP event:

- From DigiViewer, click **Events** and then click **HTTP Event**.
- Under General HTTP Event, select **Enable HTTP event**.
- Under URL, enter the **URL/DDNS domain** of Camera A followed by **/cgi-bin/operator/ptzset**. For example, 192.168.0.122:81/cgi-bin/operator/ptzset
- Enter the **Port number**, **user ID** and **password** of Camera A.
- Optional:* If using a proxy server, enter the proxy server name, port, user name, and password in the fields.
- Under Alarm Sending Event, select **Enable Alarm Sending Event**.
- Select **Enable Alarm Motion Detection**.
- Enter the following parameter: **gotoserverpresetname=[Preset#]**. For example, **gotoserverpresetname=Preset1**. Make sure you enter the preset name EXACTLY as it appears in the Preset list (Settings>Preset).
- Select **Enable Alarm input**.
- Enter the following parameter: **gotoserverpresetname=[Preset#]**. For example, **gotoserverpresetname=Preset2**.
- Click **Submit HTTP Event** to save your settings.

Figure 37.2 Completed HTTP Event and Alarm Sending Event fields

Result

Camera A will now turn to face Camera B when motion is detected by Camera B.

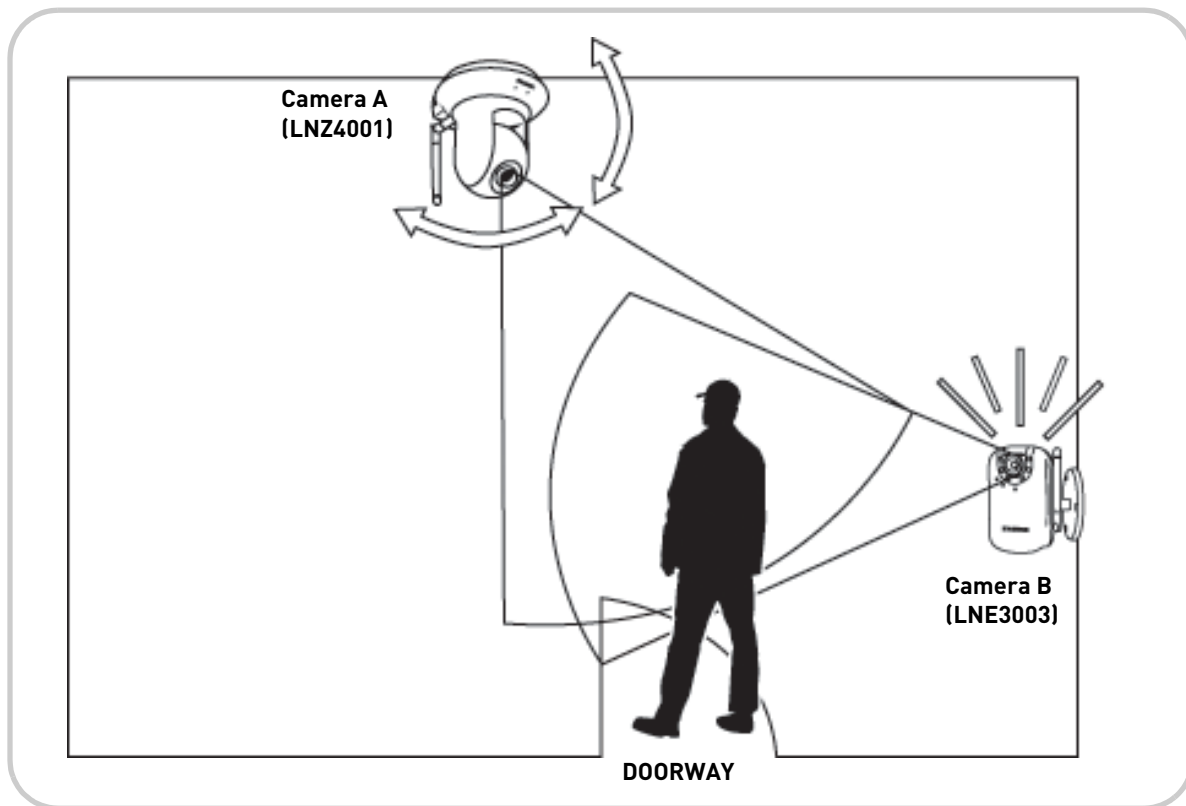


Figure 37.3 HTTP Event trigger diagram

When Camera B detects motion, such as an intruder, Camera A will immediately turn to face the doorway.

If desired, you can also program an external alarm to trigger the movement of Camera A. For instance, you could set an alarm sensor on the door. When the door is opened, this would trigger Camera A to face towards the doorway.

APPENDIX J: REBOOTING, RESETTNG, AND RECALIBRATING THE CAMERA

If you experience problems or errors with your camera, you may simply need to reset the camera. Your camera features both a software reboot and hardware reset, and can be restored to factory defaults. PTZ Internet cameras can also be calibrated to resolve any positional issues.

Rebooting the Camera

If your camera freezes, or experiences other technical errors, please try rebooting the camera from DigiViewer. Rebooting should solve most common freezes and hang-ups.

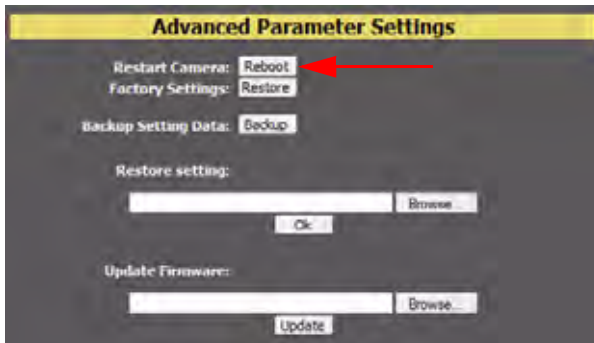


Figure 38.0 Click Reboot

To reboot the camera:

1. From DigiViewer, click Settings and then click **System**.
2. Under Advanced Parameter Settings, click **Reboot**. Please allow a few moments for your camera to reboot. When rebooting is finished, your camera will return to Surveillance mode.
3. Click  to resume live viewing.

Restoring Factory Defaults

If necessary, you can also restore your camera to factory defaults.

To restore factory defaults:

1. From DigiViewer, click Settings and then click **System**.
2. Under Advanced Parameter Settings, click **Restore**. Please allow a few moments for your camera to reboot. When rebooting is finished, your camera will return to Surveillance mode.
3. Click  to resume live viewing.

Resetting the Camera

If you are still experiencing problems with your camera, you can perform a hardware reset.

To reset your camera:

1. Make sure the camera is powered on and connected to your network.
2. Using a pin, press and hold the Reset button on the rear panel of the camera for 10~15 seconds.
3. Release the button. After a few moments you should hear a couple of "clicks" from the lens and the image in DigiViewer will go black. The lens of the PTZ camera will spin and recalibrate.
4. Wait for DigiViewer to return to Surveillance mode and



then click to resume live viewing.

NOTE: If you are using a PTZ Internet Camera, you may need to recalibrate the camera after performing a hardware reset.

NOTE: Performing a hard reset will remove all Yoics remote viewing services registered to your camera. You will need to register for Yoics services [Video Stream, Camera Viewer] again at www.yoics.com. For complete details on registering and removing Yoics services, see "Appendix K: Registering, Removing, and Resetting Yoics Services" on page 115.



Figure 38.1 Hold Reset for 10~15 sec.

Recalibrating the Camera

NOTE: This section is applicable to LNZ4001 camera model only.

Your PTZ Internet camera may need to be recalibrated if you ever reposition the camera or perform a hardware reset.

To recalibrate the camera:

1. From DigiViewer, click Events and then click **Preset**.
2. Click **Calibration**. The lens will spin and re-orient itself to the position of the camera.



Figure 38.2 Click Calibration



3. Click **Surveillance** and then click to resume live viewing.



4. Click to open PTZ controls.
5. Use the PTZ navigation arrows to verify that the camera has been calibrated properly. If not, repeat steps 1~2.

APPENDIX K: REGISTERING, REMOVING, AND RESETTING YOICS SERVICES

The camera is designed to work with Yoics easy-connect remote access. Register with Yoics to view your camera from a remote location anywhere, anytime.

NOTE: QuickTime is required for Yoics Remote Viewing. Download at www.apple.com/quicktime/download

NOTE: Yoics Easy Connect Remote Access service is subject to improvements and changes made by Yoics.

Registering Your Camera

Once you have created an account with Yoics, you must register your camera in order to enable Yoics Easy Connect remote viewing.

You will be asked to register more than once. This is to register the camera for a **Video Stream service** (when using a Web browser), and a **Camera Viewer service** (when viewing from an iPhone or iPod touch).

To register you camera:

1. In your browser go to <http://lorex.yoics.com> and login using your username and password (from the confirmation email). Click **Yes** in any security windows.
2. From the Lorex pop-up, click **Continue**. The Register New Devices page opens.

NOTE: Please watch for Yoics pop ups; if the pop up is does not include the LOREX logo, you can click Remind Me Later to continue with the setup.



Figure 39.0 Register your camera with Yoics

- To register the camera for Video Stream Service, enter a name for the camera in the Yoics Device Name text field and click **Register Now**. Video Stream will both be registered to your camera under "My Stuff."

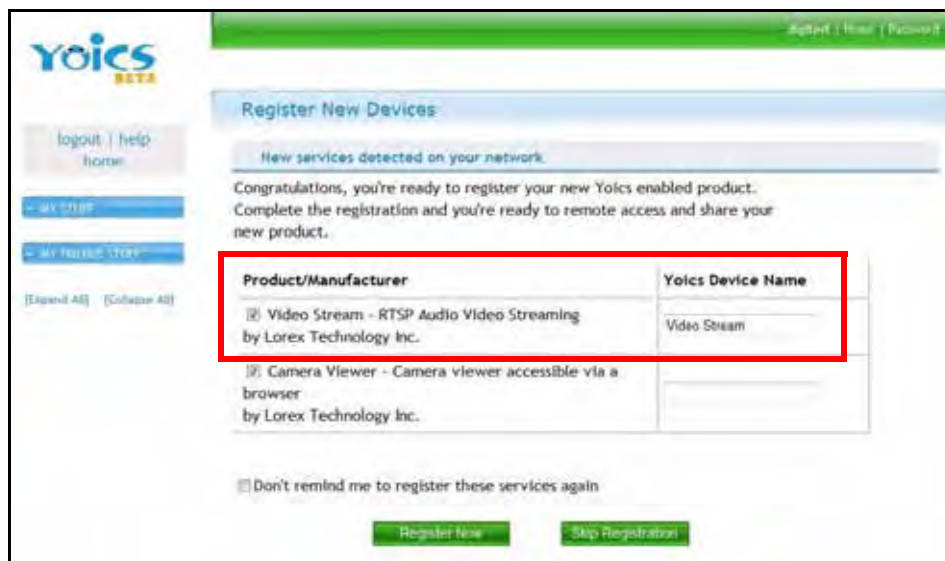


Figure 39.1 Register camera for Video Stream Service

- Following the prompt, click **Complete Registration** to register the camera for Camera Viewer service.



The Video Stream service appears under "My Stuff," but you need to click **Complete Registration** again and register your camera for the Camera Viwer Service.

Figure 39.2 Click Complete Registration for Camera Viewer service

5. Enter a name for the camera in the Yoics Device name field and click **Register Now**.

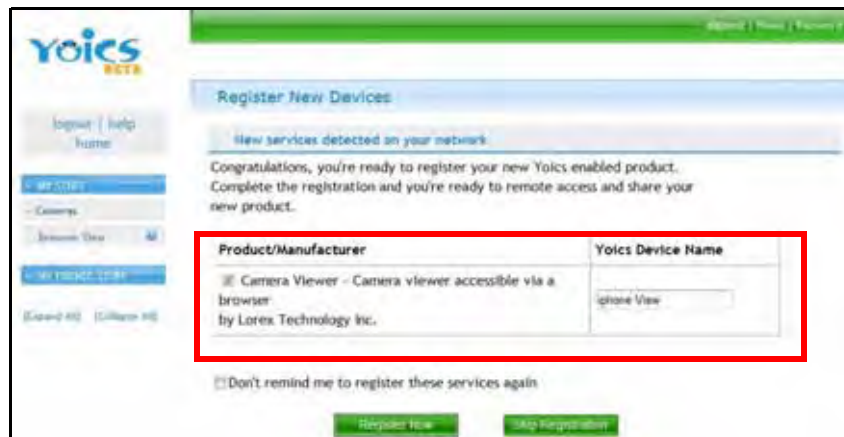


Figure 39.3 Register for Camera Viewer service

Both Video Stream and Camera Viewer services are now registered to your camera and will appear under "My Stuff."



Figure 39.4 Completed registration



TIP!

If your camera does not appear in the under "My Stuff," press F5 on your keyboard to refresh the page.

6. Double-click your IP camera to view live camera images. Double-click on the camera's name to view the feed. When prompted, enter the IP Camera's **user name (admin)** and **password (admin)**.

Removing Yoics Services

If desired, you can remove Yoics services (Video Stream, Camera Viewer) from your camera.

To remove Yoics services:

1. Log in to the Yoics website using your Yoics ID and password.
2. Under My Stuff, expand "**Cameras**". Click the **icon** next to the service you wish to remove. The Settings page for the selected service opens.
3. Under Service Details, click **Advance Service Settings**.

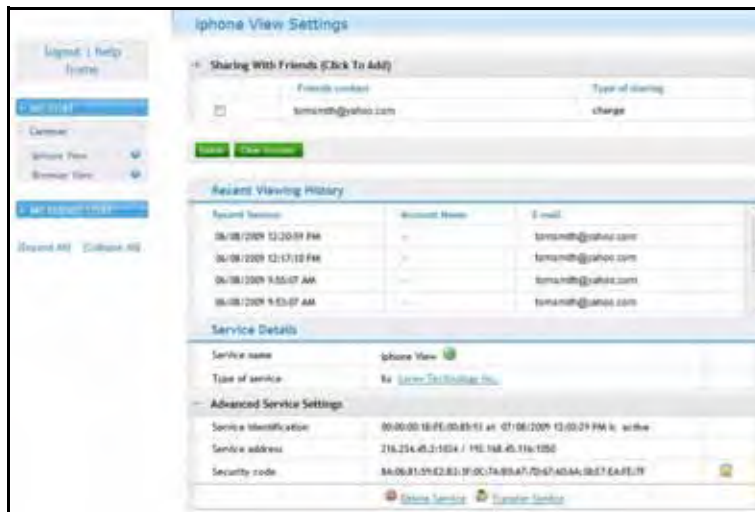


Figure 39.5 Service Settings—click Delete Service

4. Click **Delete Service** and approve the deletion.

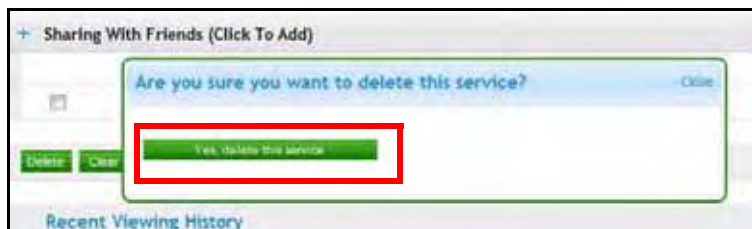


Figure 39.6 Approve the deletion

5. Repeat steps 2~4 for other services you wish to remove.

Removing Services Using DigiViewer

You can also remove all Yoics services registered to your camera using DigiViewer.

To remove Yoics services using DigiViewer:

1. Log in to the camera through Digiconsole, or click on **Start→Network** (on Windows Vista/7), and double-click the name of your camera. Enter the camera's user name and password to log in (default username: **admin** ; default password: **admin**).
2. Click **Settings→ Remote Access**.
3. Under Yoics Instant Networking, click **Reset**. Please allow a few moments for DigiViewer to update, then refresh the browser.



- Under Yoics, a message will read "**Yoics is not initialized**: Register this camera". Your camera has now been removed from Yoics service.

NOTE: Press F5 on your keyboard to refresh the page.

NOTE: Performing a hard reset of your camera will also remove all Yoics services registered to your camera. For details, see "Appendix J: Rebooting, Resetting, and Recalibrating the Camera" on page 113.

Resetting Yoics Services

If you remove Yoics services using DigiViewer or due to a hardware reset, you can quickly reset the services from the Yoics website.

To reset Yoics services:

1. In your browser, go to www.yoics.com and log in using your Yoics ID and password.
2. A pop-up will alert you to the fact that Yoics remote viewing services have been removed from your camera. Click Reset Service.



Figure 39.9 Reset Yoics service

3. Repeat step 2 for remaining Yoics services.

Troubleshooting Camera Registration

If you still cannot see your camera after registering for Yoics services, use the Unregister and Enable check mark to retry renewing the connection to registration.

1. Open DigiViewer in your default browser using DigiConsole or through the camera's IP address/DDNS domain name.
2. Log in to your camera using your user name and password (by default, admin/admin).
3. Click **Settings** and then click **Remote Access**.
4. Under Yoics Instant Networking, click **Unregister**.
5. Deselect **Enable Yoics Remote Access** and click **Submit**.
6. Refresh the browser page (press F5 on your keyboard).
7. Select Enable Yoics Remote Access and click Submit.
8. Refresh the browser page.
9. Repeat the registration process at the Yoics website.



Revision 3.0

LOREX PRODUCT LIMITED WARRANTY

LOrex warrants, to the original retail purchaser only, (the "Purchaser"), that this item (the "Product") if properly used and installed, and where applicable, the CD-ROM on which the accompanying software is provided, is free from manufacturing defects in material and workmanship, provided the Product is used in normal conditions and is installed and used in strict accordance with the instructions contained.

This warranty shall be for the following warranty periods (the "Warranty Period"), commencing on the date the Purchaser buys the Product at retail in an unused condition.

Parts and Labor: 1 Year (Warranted parts do not include Bulbs, LED's and Batteries)

- LOrex's obligations under this warranty shall be limited to
- The repair and/or replacement of the product by means of hardware and/or software (at option of LOrex);
 - The replacement of any warranted parts found by LOrex to be defective in the Product or, in LOrex's sole discretion, the replacement of the Product found to be defective.
 - If LOrex is unable to repair or replace the Product or CD-ROM, LOrex will refund the then-current value of the Product.
- Any replacement parts furnished by LOrex in connection with this warranty shall be warranted to the Purchaser for a period equal to the unexpired portion of Warranty Period for the Product.

Warranty Exclusions

This warranty does not apply to Bulbs, LED's and Batteries supplied with or forming part of the product.

This warranty is invalidated if other than LOrex accessories are or have been used in or in connection with the Product or in any modification or repair is made to the Product by other than a service depot authorized by LOrex.

This warranty does not apply to defects or damages arising by use of the Product in other than normal (including normal atmospheric, moisture and humidity) conditions or by installation or use of the Product other than in strict accordance with the instructions contained in the Product's Owner's Manual.

This warranty does not apply to defects in or damages to the Product caused by (i) negligent use of the Product, (ii) misuse, abuse, neglect, alteration, repair or improper installation of the Product, (iii) electrical short circuits or transients, (iv) Purchaser usage not in accordance with product installation, (v) use of replacement parts not supplied by LOrex (vi) improper Product maintenance, or (viii) accident, fire, flood or other Acts of God.

This warranty does not cover the performance or functionality of any computer software included in the package with the Product. This warranty only covers defects in the CD-ROM media such as a broken or a defect in the CD-ROM that would prevent the CD-ROM from being read by your personal computer's CD-ROM drive. LOrex makes no warranty that the software provided with the Product will function without interruption or otherwise be free of anomalies, errors or "Bugs". LOrex makes no warranty with regard to any software provided with the Product unless specifically set forth otherwise in a license agreement accompanying such software. This warranty does not cover any costs relating to removal or replacement of any Product, CD-ROM, or software installed on your computer.

LOrex reserves the right to make changes in design or to make additions to or improvements in its products without incurring any obligation to modify any product which has already been manufactured. LOrex will make every effort to provide updates and fixes to its software via its website. This warranty does not cover any alteration or damage to any other software that may be or may become resident on the user's system as a result of installing the software provided. This warranty is in lieu of other warranties, express or implied, and LOrex neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the sale or service of the Product. In no event shall LOrex be liable for any special or consequential damages arising from the use of the Product or arising from the malfunctioning or non-functioning of the Product, or for any delay in the performance of this warranty due to any cause beyond its control.

This warranty shall not apply to the appearance or accessory items including, but not limited to cabinets, cabinet parts, knobs etc., and the uncatalog, setup, installation or the removal and reinstallation of products after repair.

LOrex does not make any claims or warranties of any kind whatsoever regarding the Product's potential, ability or effectiveness to prevent minimize, or in any way affect personal or property damage or injury. LOrex is not responsible for any personal damage, loss or theft related to the Product or to its use for any harm, whether physical or mental related thereto. Any and all claims or statements, whether written or verbal, by salespeople, retailers, dealers or distributors to the contrary are not authorized by LOrex, and do not affect this provision of this warranty.

LOrex's responsibility under this, or any other warranty, implied or expressed, is limited to repair, replacement or refund, as set forth above. These remedies are the sole and exclusive remedies for any breach of warranty. LOrex is not responsible for direct, special, incidental, or consequential damages resulting from any breach of warranty or under any other legal theory including but not limited to, loss profits, downtime, goodwill, damage to or replacement of equipment and property and any costs of recovering, reprogramming or reproducing any program or data stored in or used with a system containing the Product CD-ROM or accompanying software.

LOrex does not warrant that the software will operate with any other software except that which is indicated. LOrex cannot be responsible for characteristics of third party hardware or software which may effect the operation of the software included.

The purchaser may have other rights under state, provincial, or federal laws and where the whole or part of any item of this warranty is prohibited by such laws, it shall be deemed null and void, but the remainder of the warranty shall remain in effect.

All expressed and implied warranties are limited in duration to the limited warranty period. No warranties apply after that period. Some states do not allow limitation on how long an implied warranty lasts, so this limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above warranty may not apply to you. This limited warranty gives you specific legal rights and you may also have other rights that vary from state to state.

Obtaining Service

In order to obtain service, please make sure that you have registered your product on-line (www.lorexctv.com) in the warranty registration section. Should the Product require service under this warranty, the Purchaser must provide LOrex with a copy of his/ her original, dated bill of sale, receipt or invoice, failing which LOrex will not perform any of its obligations under this warranty. If you return the Product and/or CD-ROM to LOrex, you must assume the risk of damage or loss during shipment. You must use the original packaging or the equivalent, and you must pay postage.

To claim on this warranty, proceed with the following steps.

- 1 Pack the Product in a well-padded sturdy carton.
2.
 - i). If the unit was purchased in the United States proceed as follows:
 - a. Please contact our customer service department to obtain a return authorization number.
 - b. Return the unit to:

LOrex Returns
c/o Russell Farrow
15 Lawrence Bell Drive, Amherst, NY 14221
 - ii). If the unit was purchased in Canada proceed as follows:
 - a. Please contact our customer service department to obtain a return authorization number.
 - b. Return the unit to:

LOrex Service Center,
250 Royal Crest Court, Markham, Ont. L3R 3S1
 - iii) If the unit was purchased in Europe please visit:

www.lorexinternational.com for return instructions.

TOLL FREE CUSTOMER SUPPORT
North America: 1-888-42-LOREX (1-888-425-6739)

Local: 905-940-5355
International: 800-42-LOREX 0 (800-425-67390)
www.lorexctv.com

Always use discretion when installing video and/or audio surveillance equipment especially when there is perceived privacy. Inquire regarding federal, state and/or local regulations applicable to the lawful installation of video and/or audio recording or surveillance. Party consent may be required.

GARANTEE LIMITEE DES PRODUITS LOREX

LOrex garantit à l'acheteur original (ci-après désigné comme étant "l'acheteur") dans un magasin au détail (seulement), et que ce produit (ci-après désigné comme étant le "produit"), s'il est installé correctement et - s'il y a lieu - utilisé conformément aux instructions ci-incluses, et le disque CD-ROM qui comporte le logiciel, seront libres de tout défaut de fabrication, tant dans les pièces que la main-d'œuvre, pourvu que le produit soit utilisé dans des conditions normales et installé et utilisé strictement selon les instructions incluses dans le guide qui l'accompagne.

Cette garantie couvrira la période mentionnée ci-dessous (ci-après désignée comme étant la "période de garantie"), commençant le jour où l'acheteur se procure le produit à l'état neuf dans un magasin au détail.

Pièces et main-d'œuvre :

1 année (les pièces couvertes ~~n'incluent pas les ampoules, voyants à DEL ni les piles~~).

Les obligations de LOrex selon les termes de cette garantie se limitent exclusivement aux points suivants :

- LOrex se réserve le droit de réparer ou de remplacer, sa seule discrétion, le logiciel et/ou le matériel.
- Le remplacement des pièces sous garantie que LOrex estime être défectueuses dans le produit ou le disque CD-ROM ou, à sa seule discrétion, le remplacement du produit jugé défectueux.
- Si LOrex ne peut réparer ni remplacer le produit ou le disque CD-ROM, rembourser la valeur monétaire du produit ou du disque CD-ROM en cours au moment de l'achat.

Toutes les pièces remplacées par LOrex seront couvertes pendant la période résiduelle de la garantie dudit produit.

Exclusions de la garantie

Pour obtenir du service, veuillez vous assurer que vous avez inscrit votre produit en ligne (www.lorexctv.com) dans la section d'abonnement à la garantie. Cette garantie ne couvre pas les ampoules, voyants à DEL, ni les piles incluses avec le produit ou faisant partie de celui-ci.

Cette garantie deviendra nulle si des accessoires autres que ceux vendus ou distribués par LOrex sont utilisés ou ont été utilisés conjointement avec le produit ou si des modifications ou des réparations ont été effectuées au produit par une entité autre qu'un centre de service autorisé par LOrex.

Cette garantie ne s'applique pas aux défauts ni aux dommages survenus suite à une utilisation anormale du produit (incluant des conditions atmosphériques et des taux d'humidité anormaux) ou suite à une installation ou une utilisation du produit autre que celle décrite dans le guide accompagnant le produit.

Cette garantie ne s'applique pas aux défauts ni aux dommages causés au produit suite à (i) une utilisation insouciante du produit, (ii) mauvaise utilisation, abus, négligence, modification ou mauvaise installation du produit, (iii) court-circuits ou transitoires électriques, (iv) tout usage de l'acheteur qui ne correspond pas à l'installation prescrite du produit, (v) l'utilisation de pièces non fournies par LOrex, (vi) un entretien inadéquat du produit, ou (vii) tout accident, incendie, inondation ou autres désastres naturels.

Cette garantie ne couvre pas la performance ni la fonctionnalité de tout logiciel informatique inclus avec le produit. Cette garantie ne couvre pas les défauts que pourrait contenir le support optique (disque CD-ROM) ou magnétique (disquette), tel qu'un CD-ROM brisé ou comportant un défaut qui l'empêcherait d'être lu adéquatement par le lecteur de disque de votre ordinateur. LOrex ne garantit pas que le logiciel fourni avec le produit fonctionnera sans interruption ni qu'il sera libre de tout défaut, d'erreurs ou de bogues. LOrex ne garantit pas le logiciel inclus à moins que cela ne le soit mentionné spécifiquement dans l'entente de la licence incluse avec le produit. Cette garantie ne couvre pas les frais se rapportant à l'enlèvement ni à la réinsertion de tout produit, logiciel, périphérique ou disque CD-ROM installé sur votre ordinateur.

LOrex se réserve le droit de modifier la conception ou d'apporter des ajouts ou des améliorations à ses produits, sans obligation de sa part de modifier les produits déjà fabriqués. LOrex fera tout en son pouvoir pour fournir des améliorations et des réparations à son logiciel via son site web.

Cette garantie ne couvre pas les altérations ni les dommages effectués tout autre logiciel, ni les bogues pouvant résider de la on permanente sur le système de l'utilisateur suite l'installation du logiciel ci-inclus.



Cette garantie a présance sur toutes les autres garanties tacites ou explicites, incluant la garantie en qualité loyale et marchande et les aptitudes visant toute autre obligation ou responsabilité de la part de Lorex, et par les présentes, Lorex n'autorise aucune personne ni entité à assumer pour elle nulle autre responsabilité en rapport avec la vente de ce produit. Lorex ne sera pas tenue responsable, en aucune circonstance, des dommages-intérêts directs ou indirects survenant de l'utilisation du produit ou suite au mauvais fonctionnement ou à l'absence de fonctionnement dudit produit, ainsi que pour tout délai dans l'exécution de cette garantie suite à des circonstances hors du contrôle de Lorex.

Lorex ne garantit d'aucune manière l'apparence extérieure du produit, ni les pièces ou accessoires incluant, mais ne s'y limitant pas, le boîtier, les pièces du boîtier, les boutons, etc., ainsi que le déballage, l'installation, l'enlèvement et la réinstallation du produit après une réparation.

Lorex ne garantit pas et ne fait aucune revendication en ce qui a trait au potentiel, à la capacité ou l'efficacité de prévenir, réduire ou d'une façon quelconque, d'influer sur les dommages à la propriété privée ou sur les blessures corporelles. Lorex ne sera pas tenue responsable des blessures corporelles, dommages à la propriété personnelle, perte ni au vol se rapportant de près ou de loin au produit ou son usage dans un cadre malveillant, qu'il soit physique ou mental. Lorex n'autorise aucunement les représentants, détaillants ou grossistes, à faire des revendications ou des annonces de la part de Lorex, tant par voie écrite que verbale et ces annonces n'influent d'aucune manière sur les clauses de cette garantie.

La seule responsabilité de Lorex, selon les termes de cette garantie, qu'ils soient tacites ou explicites, se limite à une réparation, un remplacement ou un remboursement, selon les clauses décrites dans les présentes. Ces recours constitueront les seuls auxquels a droit l'acheteur pour les bris des clauses de la garantie. Lorex ne sera pas responsable des dommages-intérêts spéciaux, directs ou indirects, qui résulteraient d'un bris des clauses de cette garantie ou de toute autre convention législative, incluant mais ne s'y limitant pas, les pertes de profits, pertes de courants immobilisant des équipements, la valeur ajoutée des biens incorporels, les dommages effectués au produit courant à la propriété ou les coûts reliés à leur remplacement, ainsi que les frais de recouvrement, reprogrammation ou reproduction d'un programme ou des données stockées dans un système contenant le disque CD-ROM du produit ou le logiciel qui accompagne celui-ci.

L'acheteur peut bénéficier de certains droits provinciaux ou fédéraux additionnels et toute clause de cette garantie qui soit prohibée par de telles lois sera jugée nulle et sans effet mais les autres clauses demeureront en vigueur.

Lorex ne garantit pas que ce logiciel fonctionnera conjointement avec tout autre logiciel ou suite logicielle, moins que cela ne soit indiqué. Lorex ne sera pas tenue responsable des caractéristiques ni des fonctions du matériel ou des logiciels d'un tiers pouvant entrer en conflit avec le fonctionnement du logiciel ci-inclus.

Toutes les garanties tacites ou explicites se limitent à la durée de la garantie limitée. Aucune garantie ne sera applicable après cette période de temps. Certains états ou provinces ne permettent pas de restrictions en ce qui a trait aux termes d'une garantie tacite, ni d'exclusions aux dommages-intérêts directs ou indirects et il se peut que ces restrictions ne s'appliquent pas à vous. Cette garantie donne à l'acheteur original des droits spécifiques et il se peut que d'autres droits, variant d'un état ou d'une province à l'autre, puissent lui être conférés.

Obtention du service

Si l'acheteur a besoin de service pour son produit, selon les termes de cette garantie limitée, il doit fournir à Lorex une copie de la facture d'achat affichant clairement la date et l'endroit où le produit a été acheté. Sans cette preuve d'achat, Lorex ne sera pas dans l'obligation de remplir ses obligations envers l'acheteur. Si vous retournez le produit et/ou le disque CD-ROM à Lorex, vous devez assumer le risque que ceux-ci soient endommagés ou perdus au cours de l'expédition. Vous devez emballer le produit dans sa boîte originale ou un emballage adéquat et vous devez défrayer les coûts d'expédition à l'une des adresses mentionnées ci-dessous.

Pour bénéficier du service sous garantie, vous devez suivre les étapes ci-dessous :

- Emballer le produit dans une boîte solide et remplie de matériau d'expédition.
- i) Si l'appareil a été acheté aux États-Unis, suivez ces étapes-ci :
 - Veillez contacter notre département de service à la clientèle pour obtenir un numéro d'autorisation pour le retour.
 - Retournez le produit à :

Lorex Returns
c/o Russell Farrow
15 Lawrence Bell Drive, Amherst, NY 14221
- Si l'appareil a été acheté au Canada, suivez ces étapes-ci :
 - Veillez contacter notre département de service à la clientèle pour obtenir un numéro d'autorisation pour le retour.
 - Retournez le produit à :

Lorex Customer Service
250 Royal Crest Court, Markham, ON L3R 3S1
- Si l'unité a été achetée dans Europe veuillez visiter : www.lorexinternational.com pour les instructions de retour

COMPOSEZ LA LIGNE D'ASSISTANCE SANS FRAIS AUS CONOMMATEURS:

L'Amérique du nord: 1-888-42-LOREX (1-888-425-6739)

Local : 905-940-5355

International : 800-42-LOREX 0 (800-425-67390)

Soyez toujours très discret lorsque vous installez des systèmes de surveillance, surtout dans les endroits plus retirés. Informez-vous au sujet des lois et règlements municipaux, provinciaux ou fédéraux qui s'appliquent à l'installation d'appareils de surveillance audio et vidéo. Il se peut que le consentement de la partie surveillée soit exigé.

GARANTIE LIMITADA DEL PRODUCTO LOREX

Lorex garantiza, sólo al comprador original al por menor (el "Comprador") que este artículo (el "Producto"), si se usa e instala debidamente, y – si hay lugar – el CD-ROM en el que se proporciona el software asociado, está libre de defectos de fabricación en materiales y mano de obra, sujeto a que el Producto sea usado en condiciones normales y que sea instalado y usado estrictamente de acuerdo con las instrucciones contenidas.

Esta garantía será para los siguientes periodos de garantía (el "Período de Garantía"), a partir de la fecha en que el Comprador adquiere el Producto al por menor en la condición de no haber sido usado previamente.

Repuestos y Mano de Obra: 1 año (Las piezas garantizadas no incluyen bombillas, LEDs y baterías)
Las obligaciones de Lorex bajo esta garantía estarán limitadas a:

- la reparación o el reemplazo del producto por medio de hardware y/o software (a opción de Lorex).
- el reemplazo de cualquier parte garantizada que Lorex determine que está defectuosa en el Producto o CD-ROM o, por decisión única de Lorex, al reemplazo del Producto que Lorex encuentre defectuoso.
- Si a Lorex no le es posible reparar o reemplazar el Producto o el CD-ROM, se devolverá el valor vigente en ese momento del Producto o CD-ROM.

Se garantizará al Comprador cualquier pieza de repuesto provista por Lorex en conexión con esta garantía por un período igual a la vida no vencida del Período de Garantía del Producto.

Exclusiones de la garantía

Esta garantía no se aplica a las bombillas, LEDs y baterías suministradas con el producto o que formen parte del mismo.

Esta garantía quedará nula si se han usado accesorios que no son Lorex en el Producto o en relación con el mismo o si se hace alguna modificación o reparación al Producto en algún taller que no sea un local de servicio autorizado por Lorex.

Esta garantía no se aplica a defectos o daños resultantes del uso del producto en condiciones diferentes a las normales (incluyendo condiciones atmosféricas o de humedad normales) o por la instalación o uso del Producto en forma distinta a seguir estrictamente las instrucciones contenidas en el Manual del Propietario del Producto.

Exclusiones de la garantía

Esta garantía no se aplica a las bombillas, LEDs y baterías suministradas con el producto o que formen parte del mismo.

Esta garantía quedará nula si se han usado accesorios que no son Lorex en el Producto o en relación con el mismo o si se hace alguna modificación o reparación al Producto en algún taller que no sea un local de servicio autorizado por Lorex.

Esta garantía no se aplica a defectos o daños resultantes del uso del producto en condiciones diferentes a las normales (incluyendo condiciones atmosféricas o de humedad normales) o por la instalación o uso del Producto en forma distinta a seguir estrictamente las instrucciones contenidas en el Manual del Propietario del Producto.

Esta garantía no se aplica a defectos o daños al Producto causados por (i) uso negligente del Producto, (ii) mal uso, abuso, negligencia, alteración, reparación o instalación incorrecta del Producto, (iii) cortocircuitos o corrientes eléctricas transitorias, (iv) uso por el Comprador que no está de acuerdo con la instalación del producto, (v) uso de piezas de repuesto no suplidas por Lorex (vi) inadecuado mantenimiento del Producto, o (vii) accidente, incendio, inundación u otros accidentes naturales.

Esta garantía no cubre el rendimiento o funcionalidad de ningún software de computadora incluido en el paquete con el Producto. Esta garantía sólo cubre defectos en el material de CD-ROM, tal como roturas o defectos en el CD-ROM que impida que sea leído por la unidad de CD-ROM de su computadora personal. Lorex no garantiza que el software provisto con el Producto funcione sin interrupción o que de otra forma esté libre de anomalías, errores o "bugs". Lorex no ofrece ninguna garantía con respecto a algún software provisto con el equipo a menos que específicamente se establezca de otra forma en un acuerdo de licencia que acompañe a dicho software.

Esta garantía no cubre ningún costo relativo a la remoción o reemplazo de algún Producto, CD-ROM, o software instalado en su computadora.

Lorex se reserva el derecho de hacer cambios en el diseño o hacer adiciones o mejoras a sus productos sin incurrir en ninguna obligación de modificar algún producto que ya haya sido fabricado.

Lorex tratará en lo posible de proporcionar actualizaciones y arreglos a su software por medio de su página en la red.

Esta garantía no cubre ninguna alteración ni daño a algún otro software que pueda ser instalado o pueda quedar instalado en el sistema del usuario como resultado de la instalación del software provisto.

Esta garantía es el reemplazo de otras garantías, expresas o implícitas, y Lorex no asume ni autoriza a ninguna persona a asumir por ella ninguna obligación en relación con la venta o servicio del producto. En ningún caso Lorex será responsable por ningún daño o perjuicio especial o consecuencia resultante del uso del Producto o de su mal funcionamiento o incapacidad de funcionar, o por cualquier demora en la atención de esta garantía debida a causas fuera de su control.

Esta garantía no se aplicará a la apariencia o artículos accesorios incluyendo, sin estar limitado a ellos, gabinetes, piezas de gabinetes, perillas, etc., y el desmontaje, instalación, configuración, o remoción y reinstalación del producto después de ser reparado.

Lorex no hace ninguna de cada declaración ni garantía de ninguna clase con respecto al potencial, capacidad o eficacia del Producto para evitar, minimizar o en alguna forma atectar a los daños o lesiones personales o a la propiedad. Lorex no es responsable por ningún daño personal, siniestro o robo relacionado con el Producto o a su uso para cualquier daño, sea físico o mental relacionado con el mismo. Cu cualquier afirmación o declaración, sea escrita o verbal, hecha por vendedores, minoristas o distribuidores en sentido contrario no es autorizada por Lorex y no afecta esta disposición de esta garantía.

La responsabilidad de Lorex según esta o cualquier otra garantía, implícita o explícita, está limitada a la reparación, reemplazo o reembolso, como se establece anteriormente. Estas compensaciones son el único y exclusivo remedio por cualquier incumplimiento de garantía. Lorex no es responsable por daños y perjuicios directos, especiales, incidentes, o consecuentes resultantes de algún incumplimiento de garantía o bajo cualquier otra teoría legal, incluyendo pero sin estar limitada a: pérdida de utilidades, paralización, plusvalía, daños o reemplazo de equipos y propiedad y cualquier costo de recuperar, reprogramar o reproducir cualquier programa o datos almacenados o usados con un sistema que contenga el CD-ROM del Producto o el software que lo acompaña.

Lorex no garantiza que el software operará con ningún otro software excepto con el que se indica. Lorex no puede ser responsable de las características de hardware o software de terceras personas que puedan atectar la operación del software incluido.

El comprador puede tener otros derechos de acuerdo con las leyes federales, provinciales o estatales y cuando toda esta garantía o parte de la misma sea prohibida por dichas leyes, será considerada nula, pero el resto de la garantía permanecerá vigente.

Todas las garantías expresadas e implícitas están limitadas en duración al periodo de garantía limitada. Ninguna garantía se aplicará después de dicho periodo. Algunos estados no permiten limitación a la duración de una garantía implícita, de modo que esta limitación puede no ser de aplicación. Algunos estados no permiten la exclusión o limitación de daños y perjuicios incidentes o consecuentes, por lo que la garantía anterior puede no ser de aplicación. Esta garantía limitada le otorga derechos legales específicos y usted puede también tener otros derechos que varía de un estado a otro.

Cómo obtener servicio

Con el fin de obtener servicio, por favor asegúrese de registrar haber registrado su producto en nuestra página web www.lorexctv.com en la sección de registro de garantía. Si el Producto necesitase servicio bajo esta garantía, el Comprador debe hacer llegar a Lorex una copia del recibo o factura de compra, con su fecha respectiva, sin lo cual Lorex no estará obligada a cumplir con ninguna de sus obligaciones bajo esta garantía. Si devuelve el Producto y/o el CD-ROM a Lorex, debe usted asumir el riesgo de daño o pérdida durante el envío. Debe usar el envase original o equivalente y debe pagar el flete.

Para hacer un reclamo bajo esta garantía, proceda con los siguientes pasos.

- Empaque el Producto en una caja robusta bien acolchada.
- i). Si la unidad fue comprada en Estados Unidos proceda en la siguiente forma:
 - Para devoluciones por favor contacte nuestro departamento de servicio para obtener un número de autorización
 - Devuelva la unidad a:

Lorex Returns
c/o Russell Farrow
15 Lawrence Bell Drive, Amherst, NY 14221
- ii). Si la unidad fue comprada en Canadá proceda en la siguiente forma:
 - Para devoluciones por favor contacte nuestro departamento de servicio para obtener un número de autorización.
 - Devuelva la unidad a:

Lorex Customer Service,
250 Royal Crest Court, Markham, Ont. L3R 3S1
- iii) Si la unidad fue adquirida en Europa y desea devolver el producto por favor visite:
www.lorexinternational.com para obtener instrucciones.

NUMERO GRATUITO DE SERVICIO A CLIENTES:

Norteamérica: 1-888-42-LOREX (1-888-425-6739)

Internacional: 800-42-LOREX 0 (800-425-67390)

Local : 905-940-5355

www.lorexctv.com

Use siempre discreción cuando instale equipo de vigilancia por video y/o audio especialmente cuando se percibe privacidad. Consulte acerca de las regulaciones federales, estatales y /o locales aplicables a la instalación legal de equipos de grabación o vigilancia por video y/o audio. Puede requerirse el consentimiento de las partes.

CONNECT . PROTECT



Enhance your security with genuine Lorex Cameras, Digital Video Recorders, Integrated Systems and Accessories. Order whatever you need at www.lorextechnology.com or call 1-888-42-LOREX (1-888-425-6739)

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Add wired or wireless cameras to expand the "Envelope of Protection" for your business, your home and your family

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SG7540

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LW2301

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LW2201