BEFORE YOU START

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

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

FEB 16 2012 - R6
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.lorexcctv.com/support

• Si necesita ayuda para la instalación, visite www.lorexcctv.com/installation o contacte a un especialista en instalaciones

• 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

www.lorextechnology.com
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 technical support.

2 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

For all other matters, visit www.lorextechnology.com

**By Phone:**
North America:
Tech Support (for technical/installation issues): 1-877-755-6739 (1-877-75-LOREX)

Mexico: 001-800-514-6739

International: +800-425-6739-0 [Example: From the UK, dial 00 instead of +]
NECESITA AYUDA
COMUNÍQUESE PRIMERO CON NOSOTROS

2 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.lorextechnology.com/support

Por Teléfono:
Norte América:
Atención al cliente (en materia de garantía):
1-888-425-6739 (1-888-42-LOREX)
Soporte técnico (para asuntos técnicos/la instalación):
1-877-755-6739 (1-877-75-LOREX)

Mexico: 001-800-514-6739

Internacional: +800-425-6739-0
(Ejemplo: Desde el Reino Unido, marque el 00 en lugar del +)

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

2 façons faciles de nous contacter:

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.lorextechnology.com/support

Par Téléphone:
L’Amérique du Nord:
Service à la clientèle (pour les questions de garantie):
1-888-425-6739 (1-888-42-LOREX)
Support technique (pour les questions techniques et ‘installation):
1-877-755-6739 (1-877-75-LOREX)

Mexico: 001-800-514-6739

International: +800-425-6739-0
(Exemple: À partir du Royaume-Uni, composez 00 au lieu de +)
Welcome!
Thank you for purchasing this Lorex wireless network camera. This user’s guide refers to the following models:

• LNC104

Contents
Before you start, make sure you have the contents listed below.

• 1 x Camera
• 1 x Camera power adapter and USB power cable
• 1 x Ethernet cable
• 1 x Mounting kit
• 1 x Quick Start Guide
• 1 x Software/documentation CD
Safety Instructions

• Read this guide carefully and keep it for future reference.

• **Camera is rated for indoor use only.**

• Do not use in wet or humid areas.

• Use the camera within given temperature, humidity, and voltage levels noted in the Technical Specifications.

• Do not use the camera near a heat source, such as a radiator.

• Do not point the camera directly towards the sun or a source of intense light.

• Do not disassemble the camera.

• Periodic cleaning may be required. Use a damp cloth only. Do not use harsh cleaners or aerosol cleaners.

• Do not cover the camera with a towel or blanket.

• Keep all power and network cables out of reach of children.

• Use only the included power adapter or USB power adapters rated for 1A or higher.
Features

- iOS, Android, PC and Mac compatible
- Wi-Fi & wired internet connectivity
- Easy connection to Wi-Fi networks with WPS
- Night vision up to 30ft with single high-power IR LED
- microSD recording & playback supported
- Dual motion detection: PIR & video
- Sound activated alerts
- Push notification of events & email alerts with snap shot attachment
- Bandwidth-efficient VGA (640x480) resolution
- H.264 video compression
- Supports up to 20 simultaneous users
- Two-way audio supported
- Flexible indoor mounting (counter, wall, ceiling)

As our product is subject to continuous improvement, Lorex Technology & subsidiaries reserve the right to modify product design, specifications & prices without notice and without incurring any obligation.

1. Up to 4 simultaneous camera views available on PC, Mac and tablets. Selectable single camera viewing on smartphones.
2. Connection speed may vary depending internet bandwidth.
3. Compatible with WPS enabled routers [not included].
4. Infrared illumination range under ideal conditions. Actual range and clarity may vary depending on scene/object reflection and camera application.
5. microSD Card not included [supports up to 32GB].
6. External speaker required, not included.
# TABLE OF CONTENTS

1. Camera Overview .................................................. 1
2. Getting Started .................................................. 3
   2.1 Basic Setup .................................................. 3
   2.2 Connecting to your Camera .................................. 5
      2.2.1 Connecting to Your Camera using a PC .............. 5
      2.2.2 Connecting to your Camera on iPhone ............... 9
      2.2.3 Connecting to your Camera on iPad ................. 12
      2.2.4 Connecting to your Camera on Android ............. 15
   2.3 WiFi Setup .................................................. 18
      2.3.1 PC WiFi Setup ........................................ 18
      2.3.2 iPhone WiFi Setup .................................. 20
      2.3.3 iPad WiFi Setup .................................... 22
      2.3.4 Android WiFi Setup ................................ 23
3. L-View 104 Software ............................................ 26
   3.1 System Requirements ........................................ 26
   3.2 L-View Interface ............................................ 27
      3.2.1 Display Sub-Menu .................................... 29
      3.2.2 All Camera Action ................................... 30
   3.3 Camera List (Managing Cameras) ......................... 31
      3.3.1 Adding Cameras to Camera List ....................... 31
      3.3.2 Saving Camera Passwords ............................ 32
      3.3.3 Deleting Cameras .................................... 32
      3.3.4 Configuring Mobile Streaming Settings ............ 33
      3.3.5 Configuring Night Mode Control .................... 34
   3.4 Playing Back Recordings on the microSD card with L-View . 36
   3.5 Configuring Camera Video Settings ....................... 37
      3.5.1 Quality Tab [Configuring Resolution, Frame Rate, and Bandwidth] ... 38
      3.5.2 Video Tab [Configure General Video Settings] ........ 39
      3.5.3 Control Tab [Configure Status LEDs and Motion Detection Sensitivity] 41
      3.5.4 Camera Info Tab ...................................... 42
   3.6 Configuring L-View .......................................... 42
      3.6.1 Directories [Opening or Changing the Snapshot Folder] ........ 43
4. iPhone App ................................................. 48

4.1 Live Viewing with Lorex Ping for iPhone ................. 48
  4.1.1 Using 2-Way-Audio (Intercom) ....................... 49
  4.1.2 Taking Snapshots ..................................... 49
  4.1.3 Recording Video to iPhone .......................... 49
4.2 Playing Back Video Recorded on iPhone .................. 50
  4.2.1 Using Playback ....................................... 50
4.3 Playing Back Video Recorded on microSD on iPhone ...... 50
4.4 Using Camera List to Edit Camera Settings ............... 51
  4.4.1 Editing Camera Connection Settings ................. 52
  4.4.2 Deleting Cameras from Camera List .................. 53
  4.4.3 Editing Alarm Notification Settings (Push Notifications) 54
  4.4.4 Editing Camera Mobile Streaming Settings .......... 55
  4.4.5 Editing Camera Video Settings ....................... 56
  4.4.6 Configuring LED Control and Motion Detection Sensitivity 57
  4.4.7 Configuring Night Mode Settings .................... 58
  4.4.8 Editing Camera Wired Network Settings ............. 60
  4.4.9 Editing Camera WiFi Network Settings ............... 61
  4.4.10 Enabling Email Notifications ....................... 62
  4.4.11 Enabling Speaker Alarms ............................ 63
  4.4.12 Configuring microSD Recording ..................... 64
  4.4.13 Configuring the Camera Recording and Alarm Schedule 66
  4.4.14 Configuring the Camera Date and Time ............. 68
  4.4.15 Rebooting the Camera ............................... 69
4.5 Using Local Search to Add Cameras ....................... 69

5. iPad App ................................................. 71

5.1 Live Viewing with Lorex Ping iPad .......................... 71
  5.1.1 Using 2-Way Audio (Intercom) ....................... 72
  5.1.2 Taking Snapshots ..................................... 72
  5.1.3 Recording Video to Ipad ............................. 72
5.2 Playing Back Video Recorded to iPad ..................... 72
5.3 Playing Back Video Recorded to microSD on iPad .......... 73
6.3.15 Rebooting the Camera ................................................. 112
6.4 Using Local Search to Add Cameras ............................... 113

7. Configuring Camera Settings using a Web Browser 114

7.1 Web Configure Overview .............................................. 115
7.2 Network ........................................................................ 115
  7.2.1 Wired Network (DHCP or Fixed IP) .......................... 115
  7.2.2 WiFi Security (Configuring WiFi settings) .............. 116
7.3 Video ............................................................................ 117
  7.3.1 Display ................................................................. 117
  7.3.2 Video Settings ....................................................... 118
  7.3.3 Mobile Video .......................................................... 120
  7.3.4 Night Mode ............................................................ 121
7.4 Schedule ......................................................................... 123
  7.4.1 Email/FTP Alarm Settings (Configuring Email Alarms) ... 123
  7.4.2 Speaker Alarm (Configuring Audio Alarms) ............. 124
  7.4.3 SD Card (Configuring microSD Recording) .............. 125
  7.4.4 Scheduling (Configuring Recording and Alarm Schedules) ...... 126
7.5 Admin ........................................................................... 128
  7.5.1 Admin Login ............................................................. 128
  7.5.2 Led Control ............................................................. 130
  7.5.3 Date/Time ................................................................ 131
  7.5.4 Upgrade ................................................................. 131
  7.5.5 Reboot ................................................................. 133

8. Technical Specifications .................................................. 134

9. Cleaning and Disposal ..................................................... 135

10. Notices ............................................................................ 136

11. Wall or Ceiling Mounting .............................................. 137
  11.1 Installation Tips and Warnings .................................... 137
  11.2 Installation ............................................................... 137

12. Troubleshooting ............................................................ 139
1. **Camera Lens**: The camera has separate lenses for day/night use.
2. **Microphone**
3. **WPS Button**: Used to connect the camera to a wireless router (not included) with a WPS button.
4. **Indicator Lights**:
   - **SD**: Glows when a microSD card (not included) is inserted. Flash during recording.
   - **/ Network**: Glows when connected to an ethernet or WiFi network. Flash when sending or receiving data.
   - **/ Status**: Glows when camera is connected to the Internet. Flash when there is a connection problem.
5. **PIR Motion Sensor**: Allows the camera to detect motion by tracking body heat.
6. **Infrared LED**: Allows the camera to see in the dark.
7. **DC/IN**: Connect the included power adapter.
8. **NET:** Connect an Ethernet cable and connect the other end to your router (not included).

9. **MicroSD Card Slot:** Insert a microSD card (not included) to enable recording on the camera. Camera supports microSD cards up to a maximum size of 32GB.

10. **Audio Out:** Connect to an external speaker (not included) using a 3.5mm headphone jack to enable 2-way audio and alarms.

11. **Mounting Stand:** For mounting instructions, see “Wall or Ceiling Mounting” on page 137.

12. **Reset Button:** While the camera is powered on, press with a pin or small object for at least 4 seconds to reset the camera to factory defaults. This is useful if you have forgotten the password for the camera.
2. GETTING STARTED

2.1 BASIC SETUP

1. Connect the power adapter cable to the power adapter using the USB connector.

2. Connect the power adapter to a surge protector or power outlet. Connect the power adapter cable to the **DC/IN** port on the camera. The camera LEDs will begin flashing.
3. **A:** Connect an Ethernet cable (included) to the **NET** port on the camera and connect the other end to an available LAN port (usually numbered 1~4) on your router (not included). The blue Network LED on the camera will glow blue when the camera is connected to your network.

• **OR:**

**B:** If your router supports WPS, press and hold the **WPS** button on your router until the WPS light turns on. Then, press the **WPS** button on the camera within 1 minute. The camera will automatically connect to your WiFi network and the blue Network LED on the camera will turn on.

**NOTE:** Not all routers support WPS, and the location of the WPS button on your router depends on your router model. Check your router’s instruction manual for details, or see “WiFi Setup” on page 18 for instructions on manually setting your camera up for WiFi.
2.2 CONNECTING TO YOUR CAMERA

Once your camera is connected to your wired or wireless network, you can connect to your camera using your PC, Mac, iPhone, iPad, or Android phone or tablet.

**NOTE:** For Mac software and instructions, please visit www.lorextechnology.com.

2.2.1 CONNECTING TO YOUR CAMERA USING A PC

To connect to your cameras using a PC, you must install the L-View software provided on the CD or as a free download at www.lorextechnology.com. The steps to connect to cameras depends on if you are connecting to a camera on a local network (i.e. your computer is connected to the same router as the camera) or over the Internet.

**NOTE:** For PC system requirements, see “System Requirements” on page 26.

**To install L-View:**
1. Insert the CD into your computer. The Autorun screen will appear. Click **Run Lorex.exe**.

2. Click **Software**, then **L-View for PC** to begin the installation. Follow the on-screen instructions to install the software.

**To connect to your camera on a local network:**

1. Double-click the L-View icon to run L-View. L-View opens and scans the local network for connected cameras. Connected cameras are shown under Auto Search.
2. Double-click the camera under Auto Search or click and drag the camera to a desired screen on the display grid to connect to the camera.

3. Enter the camera password. If this is the first time connecting to the camera, the password is lorex. Click OK.

4. If you have connected to this camera before, L-View connects to the camera. If this is the first time connecting to the camera, L-View will prompt you to create your own password for the camera. Click OK.
5. Under **New Password**, enter a password that will be used for the camera. Under **Confirm Password**, enter the password again. Click **OK**.

6. Double-click the camera again under Auto Search to connect. Enter the new password for the camera then click **OK** to connect. L-View connects to the camera. If you would like to save the camera password in L-View, see “Saving Camera Passwords” on page 32.

**Connecting to a Camera Over the Internet**

1. Double-click the L-View icon to run L-View.
2. Click + next to Camera List.
3. Under **Name**, enter a camera name of your choice.
4. Under **CamID**, enter the Cam ID number printed on the camera.
5. Under **Password**, enter the camera password. If this is the first time connecting to the camera, the password is *lorex*. Click **OK**.

6. Double-click the camera or drag the camera to a display screen to connect to the camera.

7. If you have connected to this camera before, L-View connects to the camera. If this is the first time connecting to the camera, L-View will prompt you to create your own password for the camera. Click **OK**.

8. Under **New Password**, enter a password that will be used for the camera. Under **Confirm Password**, enter the password again. Click **OK**.

9. Double-click the camera again under Camera List to connect. For detailed instructions on using L-View, see “L-View 104 Software” on page 26.
2.2.2 CONNECTING TO YOUR CAMERA ON IPHONE

The app for iPhone is called **Lorex Ping iPhone**.

**To connect to your camera using an iPhone:**

1. Download **Lorex Ping iPhone** from the App Store.

**NOTE:** Lorex Ping is a free application, but it requires a valid iTunes account to download. Lorex Ping requires iOS v4.0 and higher.

2. Tap the Lorex Ping icon from the home screen to open Lorex Ping. Lorex Ping opens to the Camera List.

3. Tap + to add a camera.

4. Under **Name**, enter a name for your camera. This can be anything of your choice.
5. Under **ID**, press the QR code button ( ) and line up the QR code printed on the back of the camera using the camera on the phone. The CamID will automatically be entered.

- **OR:** Manually enter the **CamID** printed on the camera.

6. Under **Password**, enter the camera password. If this is the first time connecting to the camera, enter **lorex**. Press **Done**.
7. Tap the name of the camera in the Camera List to connect to the camera. Lorex Ping connects to the camera.

8. If this is the first time connecting to the camera, you will be prompted to create your own password. Tap OK.

9. Under New password, enter a new password for the camera and repeat the password under Confirm password. Tap OK.

10. Tap the name of the camera in Camera List again to connect to the camera. For details on using the iPhone app, see “iPhone App” on page 48.
2.2.3 CONNECTING TO YOUR CAMERA ON IPAD

The app for iPad is called Lorex Ping iPad.

To connect to your camera using iPad:
1. Download the Lorex Ping iPad app from the App Store.

**NOTE:** Lorex Ping is a free application, but it requires a valid iTunes account to download. Lorex Ping requires iOS v4.0 and higher.

2. Tap the Lorex Ping icon ( ) from the home screen to open Lorex Ping. Lorex Ping opens to the Camera List.
3. Tap + to add a camera.
4. Under **Name**, enter a name for your camera. This can be anything of your choice.

5. Under **ID**, press the QR code button ( ) and line up the QR code printed on the back of the camera using the camera on the iPad. The CamID will automatically be entered.

- **OR:** Manually enter the **CamID** printed on the camera.

**NOTE:** QR code setup is not compatible with 1st generation iPads. If you have a 1st generation iPad, manually enter the CamID printed on the camera into ID.
6. Under **Password**, enter the camera password. If this is the first time connecting to the camera, enter **lorex**. Press **Done**.

7. Tap the name of the camera in the Camera List to connect to the camera. Lorex Ping connects to the camera.

8. If this is the first time connecting to the camera, you will be prompted to create your own password. Tap **OK**.
9. Under **New password**, enter a new password for the camera and repeat the password under **Confirm password**. Tap **Done**.

10. Tap the name of the camera in Camera List again to connect to the camera. For details on using the iPad app, see “iPad App” on page 71.

**2.2.4 CONNECTING TO YOUR CAMERA ON ANDROID**

The app for Android is called **Lorex Ping**.

**To connect to your camera using Android:**

1. Download the **Lorex Ping** app from the Google Play store.
   **NOTE:** Lorex Ping requires Android v.2.3 or higher.

2. Tap the Lorex Ping icon ( ) from the home screen or app list to open Lorex Ping. Lorex Ping opens to the Camera List.

3. Tap + to add a camera.
Getting Started

4. Under **Camera Name**, enter a name for your camera. This can be anything of your choice.

5. Under **ID**, press the QR code button and line up the QR code printed on the back of the camera using the camera on the Android phone or tablet. The CamID will automatically be entered.

   • **OR:** Manually enter the CamID printed on the camera.
6. Under **Password**, enter the camera password. If this is the first time connecting to the camera, enter **lorex**. Press **OK**.

7. Tap the name of the camera in the Camera List to connect to the camera. Lorex Ping connects to the camera.

8. If this is the first time connecting to the camera, you will be prompted to create your own password. Tap **OK**.

9. Under **New password**, enter a new password for the camera and repeat the password under **Confirm password**. Tap **OK**.

10. Tap the name of the camera in Camera List again to connect to the camera. For details on using the Android app, see “Android App” on page 93.
2.3 WIFI SETUP

You can setup the camera to use WiFi using your PC, iPhone, iPad, or Android phone or tablet. You can also quickly connect the camera to a WiFi network using WPS [WPS compatible router required; see step 3B on page 4 for instructions].

2.3.1 PC WIFI SETUP

**NOTE:** The camera must be connected to your router using an Ethernet cable before you can set it up to use WiFi.

1. Install L-View on a PC in your local network (must be connected to the same router as the camera) and connect to the camera. For details, see “Connecting to Your Camera using a PC” on page 5.
2. Right-click on the camera ID in the Auto Search area and click **Web Configure**.
3. Enter the camera admin user name and password. By default, the admin user name is **admin** and the admin password field is **left blank**. Click **Log in**. The Web Configure interface opens in your default web browser.
   **NOTE:** Your camera admin user name and password differs from the password used to connect to your camera to view video.
4. Click on **Network** and then **WiFi Security**.
5. Click **WiFi Scan** and select your WiFi network from the list.

6. Under **WPA-PSK Key** or **WEP Key**, enter the WiFi password. Click **Save and Apply**.
7. Click **WiFi Security** again and click **WiFi Test** (this may take up to 60 seconds).

8. When successful, **Status** will say **Test Success**. If unsuccessful, double check your wireless password and make sure your camera is close enough to the wireless router to get a good signal.

9. Remove the Ethernet cable from the camera wait 60 seconds and then reconnect to your camera in L-View.

**2.3.2 IPHONE WIFI SETUP**

**NOTE:** The camera must be connected to your router using an Ethernet cable before you can set it up to use WiFi.

1. Connect to your camera using Lorex Ping iPhone. For details, see “Connecting to your Camera on iPad” on page 12. **Your iPhone must be connected to your WiFi, not your 3G/mobile network.**

2. Tap ➔ to open the edit camera screen.
3. Tap **Camera Settings**. Enter the camera’s admin username and password. By default, the admin username is **admin** and the password is **left blank**. Tap **OK**.

4. Tap **Network** then **WiFi Network**.
5. Slide Wi-Fi to **ON**. The camera scans for available networks in range.
6. Tap the name of your WiFi network, enter the password, and tap **OK**.

7. Wait for the update to complete.
8. Remove the Ethernet cable from the camera. It will connect to the wireless network. When it is connected, the blue Network LED will be on or flashing.
9. Press **Camera Settings**, **ID/Password**, and then **Back** to exit the edit camera screen.
10. Tap the camera in the Camera List to connect. If you cannot connect, check to make sure you have entered the correct wireless password and that the camera is in signal range of your wireless router.

### 2.3.3 IPAD WIFI SETUP

**NOTE:** The camera must be connected to your router using an Ethernet cable before you can set it up to use WiFi.

1. Connect to your camera using Lorex Ping iPad. For details, see “Connecting to your Camera on iPad” on page 12. *Your iPad must be connected to your WiFi, not your 3G/mobile network.*

2. Press to open the edit camera screen.

3. Tap **Camera Settings**. Enter the camera’s admin username and password. By default, the admin username is **admin** and the password is **left blank**. Tap **OK**.

4. Tap **Network** then **WiFi Network**.

5. Slide **Wi-Fi** to **ON**. The camera will scan for available networks.
6. Tap the name of your WiFi network, enter the password, and tap **OK**. Wait for the update to complete.

7. Remove the Ethernet cable from the camera. It will connect to the wireless network. When it is connected, the blue Network LED will be on or flashing.

8. Press 🔄 next to the camera name to exit the edit camera screen.

9. Tap the camera in the Camera List to connect. If you cannot connect, check to make sure you have entered the correct wireless password and that the camera is in signal range of your wireless router.

### 2.3.4 ANDROID WIFI SETUP

**NOTE:** The camera must be connected to your router using an Ethernet cable before you can set it up to use WiFi.

1. Connect to your camera using Lorex Ping. For details, see “Connecting to your Camera on Android” on page 15. **Your phone or tablet must be connected to your WiFi, not your 3G/mobile network.**

2. Tap 🔄 to open the edit camera screen.
3. Tap **Camera Settings**. Enter the admin user name and password. By default, the admin user name is **admin** and the password is **left blank**. Tap **OK**.

4. Tap **Network** then **WiFi Network**.

5. Check the **WiFi** checkbox. The camera will scan for available networks.

6. Tap the name of your WiFi network, enter the password, then tap **OK**. Wait for the update to complete.
7. Remove the Ethernet cable from the camera. It will connect to the WiFi network. When it is connected, the blue Network LED will be on or flashing.
8. Press **Camera Settings** then **Camera List** to exit the edit camera screen.
9. Tap the camera in the Camera List to connect. If you cannot connect, check to make sure you have entered the correct wireless password and that the camera is in signal range of your wireless router.
3. L-VIEW 104 SOFTWARE

L-View is a PC/Mac client software that supports up to 4 cameras. L-View is provided on the CD or available as a free download from www.lorextechnology.com.

For instructions on installing and connecting to your camera using L-View, see “Connecting to Your Camera using a PC” on page 5.

3.1 SYSTEM REQUIREMENTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum System Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>2.0 GHz (dual-core recommended)</td>
</tr>
<tr>
<td>Memory</td>
<td>2GB</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows: Windows XP SP 2 and higher</td>
</tr>
<tr>
<td></td>
<td>Windows 7 Basic, Home Premium, Ultimate</td>
</tr>
<tr>
<td></td>
<td>Mac: OS X 10.6.8 Snow Leopard (Intel Processors only)</td>
</tr>
<tr>
<td>Hard Drive</td>
<td>Minimum 5~10 GB free for recordings and snapshots</td>
</tr>
</tbody>
</table>

**NOTE:** For Mac software and instructions, please visit www.lorextechnology.com.
3.2 L-VIEW INTERFACE

1. **Display:** Shows live or recorded video from your camera(s).
   - Click to select a camera and scroll up/down to zoom in/out. When the camera is zoomed in, click and drag the camera image to pan the camera.
   - Double-click to open the display area in full-screen. Double-click again to exit full-screen.
   - Right-click to open the display sub-menu. See “Display Sub-Menu” on page 29.

2. **Image/Recording Controls:**
   - **Video Settings:** Click to edit the camera’s video settings. See “Configuring Camera Video Settings” on page 37.
L-View 104 Software

- **microSD**: Click to open a list of recordings saved on the camera’s microSD card (not included). See “Playing Back Recordings on the microSD card with L-View” on page 36.

- **Snapshot**: Click to save a still image screenshot of the camera. To access Snapshots, see “Directories (Opening or Changing the Snapshot Folder)” on page 43. Snapshots are saved in .png format.

3. **Time and Date**: Show the current time and date on the computer. Note that the camera time and date may differ. For instructions on setting the time and date on the camera, see “Date/Time” on page 131.

4. **Minimize/Restore**

5. **Maximize/Revert to Window**

6. **Exit**

7. **Camera List**: Shows list of saved cameras. Available cameras are in blue. Cameras in red are not available. If a camera appears in red, check the network connection. For more details, see “Camera List (Managing Cameras)” on page 31.

**NOTE**: Cameras may appear in red before you have connected to them the first time.

8. **Auto Search**: Auto Search shows cameras located on your local network (LAN).
   - Double-click the camera name or click and drag the camera to the display area to view the camera.
   - Drag the camera to the Camera List to save the camera.
   - Right-click and select Web Configure to configure the camera settings using a browser. See “Configuring Camera Settings using a Web Browser” on page 114.

9. **Pan/Tilt/Zoom Controls**: Controls for compatible PTZ cameras (not included).

10. **Volume Controls**:
    - Click to activate 2-way-audio (intercom) feature and click again to deactivate 2-way-audio. Camera speaker required (not included). Note that turning on 2-way-audio will mute audio from the camera.
    - Click to mute audio from the camera. Click again to unmute audio from the camera.
    - Use the top volume slider to control the volume for the camera speaker (not included) when the 2-way-audio is activated.
    - Use the bottom volume slider to control the volume of audio coming from the camera.
11. L-View Controls:

- **L-View Settings**: Click to open settings for L-View. See “Configuring L-View” on page 42.

- **Language Selector**: Click to select the language for L-View.

12. **All Camera Action**: Click to perform an action on all cameras.

13. **Split-Screen Selectors**: Click to select single camera view or to select 4-camera view.

14. **Full Screen**: Click to open the camera display area in full-screen. Press ESC to exit full-screen.

### 3.2.1 DISPLAY SUB-MENU

The Display sub-menu opens when you right-click on a camera’s display area. It contains additional camera controls.

The Display sub-menu contains the following controls:

- **Full window**: Open the camera in single camera view.
L-View 104 Software

- **Auto reconnect:** L-View will attempt to reconnect to the camera if it becomes disconnected.
- **Stop:** Disconnect from the camera.
- **Pause:** Pause the video. Click again to un-pause the video.
- **Properties:** Click to view video properties.

![Video Properties](image)

### 3.2.2 ALL CAMERA ACTION

Press 🎥 to open the All Camera Action menu.

![All Camera Action Menu](image)

The All Camera Action Menu contains the following controls:

- **Snapshot all:** Take a snapshot from all connected cameras.
- **Play all:** Connect to all cameras selected in display grid.
- **Pause all:** Pause video for all connected cameras. Click **Pause all** again to resume video.
- **Disconnect all:** Disconnect from all connected cameras.
- **Clear all connection info:** Remove all cameras from the display grid.
3.3 CAMERA LIST (MANAGING CAMERAS)

The Camera List is used to save connection information for your cameras, so you don’t have to re-enter the ID or password to connect. The Camera List also allows you to configure certain camera settings.

Cameras connected to the Internet or local network are shown in blue in the camera list. Cameras not connected are shown in red. If your camera is red, check the network connection.

**NOTE:** Cameras may appear in red before you have connected to them the first time.

3.3.1 ADDING CAMERAS TO CAMERA LIST

- If the camera is on the local network, click and drag a camera from the Auto Search list to Camera List to add it.

- If the camera is not on the local network (i.e. you are connecting over the Internet), see “Connecting to a Camera Over the Internet” on page 7 to add the camera to the Camera List.
- Right-click on your camera to open the Camera List sub-menu. See below for instructions.

### 3.3.2 SAVING CAMERA PASSWORDS

You can use the Camera List sub-menu to save the camera’s password in L-View, so you don’t have to enter the password to connect to the camera.

**To save the camera password:**
1. Right-click on the camera in Camera List and click **ID/Password settings**.
2. Under **Name**, enter a name for the camera that will appear in Camera List. This can be anything of your choice.
3. Under **Password**, enter the camera password to save the password in L-View.
4. Click **OK**.

### 3.3.3 DELETING CAMERAS

1. Right-click on the camera in Camera List and click **Delete Camera**
2. Click **Delete** to confirm.
3.3.4 CONFIGURING MOBILE STREAMING SETTINGS

Configure streaming settings when connecting using a smartphone or tablet to connect.

To configure mobile streaming settings:
1. Right-click on the camera you want to configure and click **Mobile settings**.
2. Under **Bandwidth**, select your available mobile bandwidth. If you are primarily connecting using WiFi, you may set this setting higher.
3. Check **Select resolution and frame rate automatically** to have the camera automatically select the resolution and frame rate based on available bandwidth. If you leave this unchecked, configure the following:
   - Under **Resolution**, select the resolution that will be used when connecting to the camera using a smart phone or tablet: 640x480 (VGA), 320x240 (QVGA), or 160x120 (QQVGA).
   - Under **Frame rate**, select the frame rate that will be used when connecting to the camera using a smart phone or tablet between 30fps (highest) and 1fps (lowest).
4. Under **Microphone**, select **Enable** to enable audio streaming to smart phones and tablets or **Disable** to disable audio streaming to smart phones and tablets.
5. Click **Update** to apply changes to your camera. Enter the admin username (default: **admin**) and password (default: **left blank**) for the camera and click **OK**.
6. The camera will disconnect when the setting is changed. Double-click the camera in Camera List to reconnect.


3.3.5 CONFIGURING NIGHT MODE CONTROL

Configure when the camera uses day or night mode. When day mode is on, the camera sees in color. When night mode is on, the camera sees in black and white, and the Infrared LED turns on to enable night vision.

To configure night mode settings:
1. Right-click on the camera you want to configure and select Night mode control.
2. Select one of the following:
   - **Automatic day and night mode switch**: Camera will automatically switch between day mode or night mode, based on the amount of light in the room.
   - **Scheduled time of night mode**: Camera will switch between day mode and night mode at a scheduled time each day. If using this option, use the first set of drop-down menus to select (in 24-hour time) what time the camera will switch to night mode.
and the second set of drop-down menus to select when the camera will return to day mode.

- **Manual night mode control:** Manually select day mode or night mode. If using this option, under Mode, select **Day** for day mode or **Night** for night mode.

3. Click **Update** to apply changes to your camera. Enter the admin username (default: **admin**) and password (default: **left blank**) for the camera and click **OK**.
4. The camera will disconnect when the setting is changed. Double-click the camera in Camera List to reconnect.
3.4 PLAYING BACK RECORDINGS ON THE MICROSD CARD WITH L-VIEW

You can use L-View to playback recorded video on the camera’s microSD card (required; not included). For instructions on setting up recording on the microSD card, see “SD Card (Configuring microSD Recording)” on page 125.

To playback recorded video on the microSD card:
1. Connect to the camera you would like to playback recordings from.
2. Click the microSD button ( ) on top of the camera display area. Enter the camera password if required.
3. A list is created of all days with recordings available in the format yyyyMMdd (for example, 20120730 is July 30, 2012.
4. Click the + next to a day to view recordings from that day. Recordings from that day are shown from earliest to latest. Recordings are named according to the time they were recorded with the format hhmmss (for example, 115553 is 11:55:53 AM).
5. Click a recording from the list and then click **Playback** to view it.

6. The recording plays back in the camera display area.
   - To return to a live view of your camera, wait for the recording to finish, then right-click and select **Play**.
   - OR, while the recording is still playing, right-click in the display area and select **Stop**, then right-click again and select **Play**.

### 3.5 CONFIGURING CAMERA VIDEO SETTINGS

The Video Settings menu allows you to adjust the quality of the camera video.

**To open the Video Settings menu:**

- Click 📊 on the top of the display area for the camera you would like to configure.

**NOTE:** The camera will disconnect after making changes to video settings. Wait about 15 seconds after clicking **Update** and double-click the camera in Camera List or Auto Search to reconnect to the camera.

**TIP:** Change only one camera image quality setting at a time before clicking **Update** so you can judge the effects.
3.5.1 QUALITY TAB (CONFIGURING RESOLUTION, FRAME RATE, AND BANDWIDTH)

The Quality tab allows you to configure image quality settings such as the camera resolution, frame rate, and bandwidth settings.

To configure image quality settings:

1. Under Bandwidth, select the speed of your Internet connection. If your Internet connection is faster than 1.5Mbps, select 1.5Mbps.
2. Check Select the best resolution and frame rate automatically to have the camera automatically adjust the resolution and frame rate based on bandwidth. Or, uncheck it to manually configure the resolution and frame rate. If you are manually configuring the resolution and frame rate, configure the following:
   • Resolution: Manually select either VGA (640x480) or QVGA (320x240) resolution. VGA resolution will give you a better, more detailed picture, but requires more bandwidth. QVGA allows the camera to maintain a higher frame rate when available bandwidth is low.
   • Frame rate: Manually select the frame rate between 30fps (highest) and 1fps (lowest). 30fps is real time video, meaning that movement in the image will appear smooth, with no choppiness.
3. Under Preference, select your quality preference when bandwidth increases or decreases:
• Select **Video Motion** to have the camera maintain the frame rate and reduce image quality when bandwidth is insufficient.

• Select **Image Quality** to have the camera maintain image quality and reduce frame rate when bandwidth is insufficient.

• Select **Better Quality** to have the camera maintain frame rate and increase quality when bandwidth is sufficient.

• Select **Best Quality** to have the camera maintain the frame rate and increase quality to the maximum speed of the connection.

4. Click **Update** to save changes. Enter the camera admin user name (default: **admin**) and password (default: **left blank**) and click **OK**. The camera will disconnect. Wait about 15 seconds and then double-click the camera in Camera List or Auto Search to reconnect to the camera.

### 3.5.2 VIDEO TAB (CONFIGURE GENERAL VIDEO SETTINGS)

The Video tab allows you to configure general video settings, such as color and brightness settings.

To configure general video settings:

1. Under **Video Color**, select **Color** or **Black & White**.

2. Under **Sharpness**, select the sharpness of the image between **10** (highest) and **1** (lowest).
3. Under **Place**, select **Outdoor video** if the area with the camera is brightly lit. Select **Indoor Video** if you notice strip lines in the image or if the picture is too dark on the Outdoor video setting. Select **Indoor video + Sunlight** if the picture is too bright on the Indoor Video setting.

   • If you select Indoor Video or Indoor Video + Sunlight, select **60Hz** or **50Hz** to adjust the camera for the frequency of your indoor lighting.

4. Under **Video Flip**, select **Video Flip** to flip the camera image vertically and horizontally or select **Normal** for normal orientation.

5. Under **Brightness**, select the brightness of the image between **10** (highest) and **1** (lowest).

6. Under **Low Light Sensitivity**, set the camera’s sensitivity in low light environments between **Very High** (highest), **High**, and **Normal** (lowest).

7. Check **Enable time display on video** to turn on video time stamps or uncheck it to disable video time stamps.

8. Under **Microphone**, select **Enabled** to enable the built-in microphone on the camera or select **Disabled** to disable the built-in microphone on the camera.

9. Click **Update** to save changes. Enter the camera admin user name (default: **admin**) and password (default: **left blank**) and click **OK**. The camera will disconnect. Wait about 15 seconds and then double-click the camera in Camera List or Auto Search to reconnect to the camera.
3.5.3 CONTROL TAB (CONFIGURE STATUS LEDS AND MOTION DETECTION SENSITIVITY)

The Control tab allows you to configure the camera status and network LEDs to make the camera harder to spot at night. It also allows you to configure the motion detection sensitivity when using video motion detection.

NOTE: These settings do not affect the SD LED. Removing the microSD card will turn off the SD LED, but it will also disable microSD recording.

To configure the camera status LEDs:
1. Select one of the following:
   - **Normal**: Status and network LED’s will function as normal. For details on LED functions, see “Camera Overview” on page 1.
   - **Always turn off**: Status and network LED’s are turned off at all times.
   - **Turn off after connected**: Status and network LED’s turn on when the camera is powered on and turn off once a network connection is made.
2. Click **Update** to save changes. Enter the camera admin user name (default: **admin**) and password (default: **left blank**) and click **OK**. The camera will disconnect. Wait about 15 seconds and then double-click the camera in Camera List or Auto Search to reconnect to the camera.

To configure motion detection sensitivity:

Configure status and network LEDs

Configure motion detection sensitivity from 1 (High) to 10 (Low)
NOTE: The following method works when using video motion detection. It does not work when using PIR motion detection. For details on enabling motion detection and selecting video motion detection or PIR, see “Schedule” on page 123.

1. Under **Motion Detection Sensitivity**, select the motion detection sensitivity between 1 (High) and 10 (Low). If Motion Detection Sensitivity is set to 1, motion detection will be triggered if a moving object is larger than 1% of the video area. If it is set to 10, a moving object must be larger than 10% of the video area to trigger motion detection.

2. Click **Update** to save changes. Enter the camera admin User Name (default: **admin**) and Password (default: **left blank**) and click **OK**. The camera will disconnect. Wait about 15 seconds and then double-click the camera in Camera List or Auto Search to reconnect to the camera.

### 3.5.4 CAMERA INFO TAB

The camera info tab shows system information about the camera.

![Camera Info Tab](image)

### 3.6 CONFIGURING L-VIEW

To configure settings for L-View, click the settings button ( ).
3.6.1 DIRECTORIES (OPENING OR CHANGING THE SNAPSHOT FOLDER)

The Directories menu shows you the folder where Snapshots are saved. It allows you to open or change the Snapshot folder.

To open the Snapshot folder:
- Click Open.

To change the Snapshot folder:
1. Click Change.
2. Select a new Snapshot folder and click OK to save changes.

3.6.2 STARTUP OPTIONS

The Startup options menu allows you to configure startup options for L-View.
To configure startup options:

1. Check **Automatically start L-View when Windows starts** to have L-View open when your computer is turned on.
2. Check **Restore the last time playing/running state when L-View starts** to set L-View to restore the camera layout and connect to all the previously open cameras when L-View opens.
3. Click **OK** to save changes.

### 3.6.3 FIXED IP ACCESS

The Fixed IP Access menu is for advanced users only. It must be used if you have assigned your camera a fixed IP address on your router.
To configure your camera to use a fixed IP address:
1. Check **Connect to the camera with a fixed IP address** to enable cameras to use fixed IP addresses.
2. Click **OK** to save changes.
3. In the camera list, right-click the camera you would like to configure and select **Assign IP Address**.
4. Enter the camera’s internal IP address and click **OK**.

### 3.6.4 LOGIN (ENABLING PASSWORD TO ACCESS L-VIEW)

The Login menu allows you to enable a password to open L-View.

To enable a password for L-View:
1. Select **Enable**.
2. Under **User Name** and **Password**, enter the desired user name and password that must be used when you open L-View.

3. Click **OK** to save changes. The next time you exit L-View and re-open it, it will ask your for a password to log in.

### 3.6.5 IMAGE RATIO

The Image Ratio menu allows you to configure L-View to preserve the original aspect ratio of the video, or to allow the video to stretch to fill the display area.

To configure Image Ratio:

1. Check **Keep Image Ratio** to not allow any stretching of the image (bars may appear on the sides of the image). Uncheck **Keep Image Ratio** to stretch the image to the entire size of the display.

2. Click **OK** to save changes.
3.6.6 SOFTWARE UPDATE

The Software Update menu allows you to enable automatic updates of L-View or the camera firmware. It also allows you to manually check for updates.

To enable automatic upgrades:
1. Check **Automatically Check Software Update**.
2. Click **OK**. L-View will check online for an software updates when it opens. If an update is available, follow the on-screen instructions to install the update.
   - It will also check for camera updates when a new firmware is available. If a new camera firmware is available, click **OK** and enter the admin user name (default: **admin**) and password (default: **left blank**). Then, wait for the upgrade to complete.
   - **Do not unplug the camera power cable or Ethernet cable during firmware updates**. The camera will reboot during the firmware upgrade process.

To manually check for an update:
1. Click **Check for latest version now**. If an update is available, follow the on-screen instructions to install the update.
4. IPHONE APP

The app for iPhone is called **Lorex Ping iPhone**.
For instructions on connecting to your camera using an iPhone, see “Connecting to your Camera on iPhone” on page 9.

4.1 LIVE VIEWING WITH LOREX PING FOR IPHONE

You can use Lorex Ping in portrait or landscape mode. Tilt the phone to switch between portrait or landscape.

- **Disconnect button (only shown in portrait mode)**
- **Save a snapshot of the camera on your phone**
- **Record video to phone memory; press again to stop recording**
- **Video information**
- **Play an audio alarm on the camera (speaker required; not included)**
- **Activate 2-way-audio (intercom) using the phone microphone (speaker required; not included)**
4.1.1 USING 2-WAY-AUDIO (INTERCOM)

1. While viewing, touch 📞 to activate 2-way-audio (intercom) using the phone microphone (speaker required; not included).
   • A volume slider appears that allows you to adjust the speaker volume.
   • Touch 📞 again to turn off 2-way audio.

1. While viewing, touch 📞 to take a snapshot from the camera. You can view snapshots using the Camera app or save photos to your computer by connecting your iPhone to your computer using a USB cable.

4.1.3 RECORDING VIDEO TO IPHONE

You can manually record video from your camera directly to your iPhone’s built in memory.

To record video to your iPhone’s memory:

1. While viewing, tap 📀 to start recording.
2. Tap  again to stop recording. To view the recorded video, see “Playing Back Video Recorded on iPhone” on page 50.

4.2 PLAYING BACK VIDEO RECORDED ON IPHONE

After using the record button to record video to your iPhone, you can playback video on iPhone or convert the video files to .avi files for sharing.

4.2.1 USING PLAYBACK

1. From the Camera List, tap Playback ( ).

**NOTE:** If you are still connected to the camera, tap Disconnect to return to the Camera List. Disconnect only appears when holding the phone in portrait mode.

2. Tap the name of the camera you would like to select.

3. Tap the date of the video recording you would like to playback. Then tap the desired video file to start playback.

4. Use the on-screen video controls to control playback. Tap Stop to return to the file list.

4.3 PLAYING BACK VIDEO RECORDED ON MICROSD ON IPHONE

You can playback video recorded on the camera microSD card (not included) on your iPhone. For details on setting up microSD recording, see “Configuring microSD Recording” on page 64.
NOTE: You must be connected to the same WiFi network or router as the camera to access microSD recordings.

To play back video recorded on the camera microSD card:

1. From the Camera List, tap ☐ to open the camera settings page.
2. Scroll down and tap **SD card playback**.
3. Select the camera you would like to playback from.

4. The camera scans for recorded video files and shows a list of days with recorded video. Tap a day to view recordings created on that day.

5. Tap a recording to play it.
6. Tap **Disconnect** to return to the recordings list.

### 4.4 USING CAMERA LIST TO EDIT CAMERA SETTINGS

You can use the Camera List to adjust the connections settings or other settings for your camera.

**To access Camera Settings:**

1. Tap Camera List ☐. Then tap ☐ next to the camera you would like to edit.
2. For certain menus, you will need to enter the camera admin user name and password before you may change settings. By default, the admin user name is `admin` and the password is `left blank`.

![Camera settings menu](image)

**IMPORTANT:** Some menus below are only available if your device is on the same local network as the camera. If menus are missing, connect to the same WiFi network or router as the camera using your phone.

### 4.4.1 Editing Camera Connection Settings

You can edit your camera connection information. This is useful if you change the password of the camera or if you want to save the admin user name and password, so you don’t have to enter it to make settings changes.

**To edit camera connection settings:**

![Setting menu](image)
1. In Camera List, tap next to the camera you would like to edit.

2. Change the **Name** and **Password** as needed.

3. Under **Dynamic icon update**, select **ON** to have the camera icon automatically update every time you connect to the camera, or select **OFF** to keep the icon as is.

4. Under **Save admin password**, select **ON** to have Lorex Ping save the admin user name and password the next time you enter it, or **OFF** to require the admin user name and password whenever settings changes are made.

5. Tap **Back** to save changes and return to camera list.

### 4.4.2 Deleting Cameras From Camera List

1. In Camera List, tap **Move**.
2. Tap ⬅ next to the camera you would like to delete then tap **Delete** to confirm.

3. Tap **Done**.

### 4.4.3 Editing Alarm Notification Settings (Push Notifications)

Push Alarm Notifications can be set up to create a notification straight to your iPhone when motion or sound is detected by the camera. Push Alarm Notifications go directly to the notifications area on your device.

To enable Push Alarm Notifications:
1. In Camera List, tap ⬅ next to the camera.
2. Tap **Alarm notification**.

   - Enable/disable push notifications for video motion detection
   - Enable/disable push notifications for sound
   - Select sensitivity for sound push notifications
   - Enable/disable push notifications for PIR motion detection
3. Under **Motion**, select **ON** to enable Push Alarm Notifications when motion is detected using video motion detection or **OFF** to disable.

4. Under **PIR**, select **ON** to enable Push Alarm Notifications when motion is detected using the PIR motion sensor or **OFF** to disable.

5. Under **Sound**, select **ON** to enable Push Alarm Notifications when sound is detected by the camera or **OFF** to disable. Under **Sound Sensitivity**, select a sensitivity for Sound Push Alarm Notifications between 1 (lowest) and 10 (highest).

6. Tap **Update** to save your settings

### 4.4.4 Editing Camera Mobile Streaming Settings

Configure the camera image quality settings for streaming to mobile devices (i.e. smartphones and tablets). Please note that less bandwidth is generally available over mobile networks than over WiFi or Ethernet.

**To edit mobile streaming settings:**

1. In Camera List, tap next to the camera.

2. Tap **Stream Settings**.

3. Under **Bandwidth**, select the bandwidth for your mobile connection. If you are mainly connecting using WiFi, you may set this setting higher.
4. Under **Auto**, select **ON** to have the camera automatically select the resolution and frame rate based on available bandwidth. Or, select **OFF** to manually select the resolution and frame rate. If you select **OFF**, configure the following:

- Under **Resolution**, select the resolution that will be used when connecting to the camera using a smart phone or tablet: **320x240** (QVGA) or **640x480** (VGA).
- Under **Frame rate**, select the frame rate that will be used when connecting to the camera using a smart phone or tablet between 30fps (highest) and 1fps (lowest).

5. Under **Microphone**, select **OFF** to turn off audio streaming to your mobile device or tap to select **ON** to turn on audio streaming to your mobile device.

6. Tap **Update** to save your settings.

### 4.4.5 Editing Camera Video Settings

1. In Camera List, tap  next to the camera.

2. Tap **Video Settings**.

3. Tap **Video**.

![Video Settings Menu]

- Select Color or Black & White
- Select Brightness
- Select Sharpness
- Select Low light sensitivity
- Select environment settings
- Select quality preference
- Enable/disable time stamps
- Enable/disable video flip

4. Configure the following:
• **Video color:** Select *Colored* to view the camera in color or select *Black & white*. Tap *Video* to return to Video settings.

• **Brightness:** Manually adjust the brightness of the image between 10 (highest) and 1 (lowest). Tap *Video* to return to Video settings.

• **Sharpness:** Manually adjust the sharpness of the image between 10 (highest) and 1 (lowest). Tap *Video* to return to Video settings.

• **Low Light Sensitivity:** Set the camera’s sensitivity in low light environments between *Very High* (highest), *High*, and *Normal* (lowest). Tap *Video* to return to Video settings.

• **Place:** Select *Outdoor* for well lit environments. Select *Indoor* if you notice strip lines in the image or if the picture is too dark on the Outdoor video setting. Select *Indoor + Sunlight* if the picture is too bright on the Indoor Video setting. If you select an indoor setting, select *60Hz* or *50Hz* to adjust the camera for the frequency of your indoor lighting. Tap *Video* to return to Video settings.

• **Preference:** Select whether you would like the camera to reduce the image quality or the frame rate when bandwidth increases or decreases. Select *Video Motion* to have the camera maintain the frame rate and reduce image quality when bandwidth is insufficient. Select *Image Quality* to have the camera maintain image quality and reduce frame rate when bandwidth is insufficient. Select *Better Quality* to have the camera maintain frame rate and increase quality when bandwidth is sufficient. Select *Best Quality* to have the camera maintain the frame rate and increase quality to the maximum speed of the connection. Tap *Video* to return to Video settings.

• **Time Display on Video:** Select *ON* to enable time stamps on video or *OFF* to disable time stamps.

• **Video flip:** Select *ON* to flip the camera image vertically and horizontally or select *OFF* for the normal orientation. This is useful if the camera has been mounted to a wall or ceiling upside down.

5. Tap *Video Settings* when finished making changes, then tap *Update* to save your settings.

### 4.4.6 Configuring LED Control and Motion Detection Sensitivity

Configure the behavior of the camera status and network LED’s. This is useful if you want the camera to be harder to spot at night. You can also configure the sensitivity for video motion detection.
To configure LEDs and motion detection sensitivity:

1. In Camera List, tap next to the camera.
2. Tap Video Settings. Then tap Control.

3. Under Status LED, select one of the following:
   - Normal: Status and network LED’s will function as normal. For details on LED functions, see “Camera Overview” on page 1.
   - Always turn off: Status and network LED’s are turned off at all times.
   - Turn off after network connected: Status and Network LED’s turn on when the camera is powered on and turn off once a network connection is made.

   NOTE: This does not affect the SD LED. Removing the microSD card will turn off the SD LED, but it will also disable microSD recording.

6. Tap Control to return to the Control menu.
7. Under Motion Sensitivity, select the motion detection sensitivity between 1 (High) and 10 (Low). If Motion Detection Sensitivity is set to 1, motion detection will be triggered if a moving object is larger than 1% of the video area. If it is set to 10, a moving object must be larger than 10% of the video area to trigger motion detection.

   Tap Control to return to the Control menu.

   NOTE: This setting does not affect the PIR motion detector.

5. Tap Video Settings when finished making changes, then tap Update to save your settings.

4.4.7 CONFIGURING NIGHT MODE SETTINGS

Configure when the camera uses day or night mode. When day mode is on, the camera sees in color. When night mode is on, the camera sees in black and white, and the Infrared LED turns on to enable night vision.

To configure Day/Night mode:
1. In Camera List, tap next to the camera you would like to edit.

2. Tap **Video Settings**. Then tap **Night Mode Control**.

3. Select one of the following:
   - **Auto**: Camera will automatically switch between day mode or night mode, based on the amount of light in the room.
   - **Schedule**: Camera will switch between day mode and night mode at a scheduled times each day. If using this option, tap under **Schedule time of night mode**, use the sliders to set the **Start** time (when night mode begins each day) and **End** time (when night mode ends each day), then tap **OK**.
- **Manual**: Manually select day mode or night mode. If using this option, select **Day** for day mode or **Night** for night mode.

4. Tap **Update** to save your changes.

4.4.8 Editing Camera Wired Network Settings

Configure the camera IP address when connected using Ethernet. Select DHCP or Fixed IP.

**To edit camera wired network settings:**

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Network** then **Wired Network**.

   - Select **DHCP** or **Static**
   - If Static, configure IP address information
4. Select **DHCP** (recommended) to allow the camera to automatically obtain an IP address from the router or **Static** to use fixed IP address settings. If you select Static, configure your **IP Address**, **Subnet mask**, **Default gateway**, **DNS1**, and **DNS2**.

5. Tap **Update** to save your settings.

### 4.4.9 Editing Camera WiFi Network Settings

Configure WiFi network settings for the camera. To setup the camera with a WiFi network, see "iPhone WiFi Setup" on page 20.

**To edit camera WiFi settings:**

1. In Camera List, tap next to the camera you would like to edit.

2. Tap **Camera Settings**.

3. Tap **Network** then **WiFi Network**.

4. Slide WiFi to **ON** to enable WiFi on the camera and scan for available networks.

5. Tap a WiFi network and enter the password to connect.

   - To connect to a hidden WiFi network, tap **Other**. Enter the SSID and select the security type and tap Add. Tap the network name from the list and enter the password.

6. Wait for the update to complete.

7. Remove the Ethernet cable from the camera. It will connect to the WiFi network. When it is connected, the blue Network LED will be on or flashing.

8. Press **Camera Settings** then **Camera List** to exit the edit camera screen.
9. Tap the camera in the Camera List to connect. If you cannot connect, check to make sure you have entered the correct wireless password and that the camera is in signal range of your wireless router.

### 4.4.10 ENABLING EMAIL NOTIFICATIONS

Configure email alarms. The camera can be set up to send email alerts when motion is detected. Email alarms include a .jpg attachment.

**To enable email notifications:**

1. In Camera List, tap 🔄 next to the camera.
2. Tap **Camera Settings**.
3. Tap **Schedule** then **Email Alarm**.

![Email Alarm Settings](image)

- Enable/disable email notifications
- Select motion sensitivity for video motion
- Select email triggers

4. Under **Email trigger**, select **ON** to enable email notifications or **OFF** to disable. Then under **Send Email**, select **ON** to enable email notifications.
5. Under **Motion sensitivity**, select the motion detection sensitivity between 1 (High) and 10 (Low). If Motion Detection Sensitivity is set to 1, motion detection will be triggered if a moving object is larger than 1% of the video area. If it is set to 10, a moving object must be larger than 10% of the video area to trigger motion detection. Tap **Email alarm** to return to the Email Alarm menu.

**NOTE:** This setting does not affect the PIR motion detector.
6. Check the following trigger options for email alarms:
   - **Motion**: Use Video motion detection to trigger email alarms. Video motion detection looks for movement in the image to determine if there is motion. This means that there may be false alarms caused by changes in lighting, trees moving in the wind, etc.
   - **PIR**: Use the PIR motion detector to trigger email alarms. The PIR motion detector uses changes in temperatures (e.g. from a person moving around in front of the camera) to determine if there is motion. PIR motion detection is less effective at higher temperatures.

   **NOTE**: You may also select both PIR and Motion to receive alarms from both motion triggers.
   - **Schedule**: Send email alarms based on the settings configured in the Scheduling menu.
   - **Disable**: Disable email alarms.

7. Enter up to 3 email addresses under **Recipient1~3** that will receive email alarms.

8. Tap **Update** to save your changes.

   **NOTE**: If you want to use a custom SMTP server to send Email messages, click **SMTP Settings**, enter your SMTP server information, and tap **OK**.

### 4.4.11 ENABLING SPEAKER ALARMS

Configure audio alarms using a speaker (not included) connected to the camera. Audio alarms can be set up to go off when the camera detects motion. This is helpful if you want to scare off intruders.

**To configure speaker alarms:**

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Schedule** then **Speaker Alarm**.

4. Under **Speaker Alarm Trigger**, check the triggers that will cause speaker alarms:
   - **Motion**: Use Video motion detection to trigger audio alarms. Video motion detection looks for movement in the image to determine if there is motion. This means that there may be false alarms caused by changes in lighting, trees moving in the wind, etc.
   - **PIR**: Use the PIR motion detector to trigger audio alarms. The PIR motion detector uses changes in temperatures (e.g. from a person moving around in front of the camera) to determine if there is motion. PIR motion detection is less effective at higher temperatures.
   - **Schedule**: Create audio alarms based on the settings set in the Scheduling menu.
   - **Disable**: Disable speaker alarms.

5. Under **Alarm Loop Times**, select the number of times you would like the speaker alarm to repeat when alarms occur.
6. Tap **Alarm Test** to sound a test alarm.
7. Tap **Update** to save your settings.

### 4.4.12 Configuring MicroSD Recording

Configure video recording to the microSD card (required; not included). To playback
recordings saved on the microSD card, use L-View or the iPhone, iPad, or Android apps.

**To configure microSD card recording:**
1. Make sure a microSD card (not included) is inserted into the camera. It is recommended to format the microSD card before using it with the camera.
2. In Camera List, tap next to the camera you would like to edit.
3. Tap **Camera Settings**.
4. Tap **Schedule then SD-Card**.
5. Under **Recording**, select **ON** to enable microSD recording or **OFF** to disable.
6. Check one of the following recording options:
   - **Always Recording**: Camera will record continuously at all times.
   - **Schedule Recording**: Camera will record according to settings set in the recording schedule.

**NOTE:** To enable Motion detection recording using iPhone, you must used Schedule recording. Then, create a schedule in the Scheduling menu with Motion trigger, PIR trigger, or both Motion trigger and PIR trigger selected.

7. Under **When disk space full** check **Overwrite** to set the camera to overwrite the oldest recordings when the microSD card is full or select **Stop recording** to set the camera to stop recording when the microSD card is full.
8. Tap **Update** to save your settings.
4.4.13 CONFIGURING THE CAMERA RECORDING AND ALARM SCHEDULE

Configure schedules for recording and alarms. Schedules can be configured separately for alarms and recording. You can configure up to 12 schedules.

To create a schedule for alarms or recording:
1. First, you must enable alarms or recording to use the schedule.
2. In Camera List, tap next to the camera you would like to edit.
3. Tap Camera Settings.
4. Tap Schedule then Scheduling.
5. Tap Add Schedule.
6. Under Email Alarm, check Motion trigger to send an email alarm based on video motion, select PIR trigger to use the PIR motion sensor, or select both Motion Trigger and PIR trigger.
7. Under Speaker Alarm, check Motion trigger to create an audio alarm based on video motion, check PIR trigger to use the PIR motion sensor, or select both Motion trigger and PIR trigger.
8. Under **SD card record**, check **Continuous** for the camera to record to microSD continuously during the scheduled time. Check **Motion trigger** to record when video motion is triggered during the scheduled time, select **PIR trigger** to record when the PIR motion sensor is triggered during the scheduled time, or select both.

![Configure triggers for microSD recording in this schedule]

9. Under **Time period**, select one of the following:

- **Every week**: Create a weekly recording schedule. Tap ➔ and check the days you would like the schedule to apply to. Tap Start and End and use the sliders to configure the start and end time for the schedule. Tap **OK**.

- **Every day**: Create a daily recording schedule. Tap ➔ then tap **Start** and **End** and use the sliders to configure the start and end time for the schedule. Tap **OK**.

- **Fixed time**: Create a one time schedule (for example, if you are going on vacation, and would like to record all the time). Tap ➔ then tap **Start** and **End** and use the sliders to configure the exact date and time when you would like the schedule to start and end. Tap **OK**.

![Configure schedule times]

9. Tap **OK** to save the schedule. Tap **Update** to save your settings.

**To delete a Schedule:**
1. From the Scheduling menu, swipe the schedule you would like to delete from left to right.

   ![Swipe from left to right and then tap delete to delete a schedule](image)

2. Tap **Delete**.
3. Tap **Update** to save your changes.

### 4.4.14 Configuring the Camera Date and Time

Configure the camera date and time. The camera syncs with an Internet NTP time server to automatically provide the correct time, once you have configured your time zone and daylight savings time settings.

**To set the camera date and time:**

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Admin** then **Date/Time**.

   ![Tap Time zone](image)

4. Tap **Time Zone**.
5. Use the slider to select your time zone.

- If your region observes Daylight Savings Time, check **Daylight Savings Time**. Tap **Start Time** and **End Time**, use the sliders to configure the start and end time for Daylight Savings Time and then tap **OK**. Tap **Back** to return.

6. Tap **Update** to save your changes. Tap **OK**. The camera will reboot to apply the new time zone.

### 4.4.15 REBOOTING THE CAMERA

1. In Camera List, tap ➔ next to the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Admin** then **Reboot**.
4. Tap **OK** to confirm.

### 4.5 USING LOCAL SEARCH TO ADD CAMERAS

You can use the Local Search Menu to automatically add the ID’s for cameras on your local network.

To add cameras using local search:
1. Tap the Local Search button ( ).

2. Lorex Ping automatically scans for cameras on your local network. Tap **Search** to re-scan.

3. Tap a camera from the list. The Add camera screen comes on with the camera ID already entered.

4. Enter a **Name** of your choice and enter the camera **Password**. If you have not connected to your camera before, the password is lorex.

5. Tap **Done**. The camera is now added to camera list. Tap the camera name in camera list to connect to the camera.
5. IPAD APP

The app for iPad is called **Lorex Ping iPad**.
For instructions on connecting to your camera using iPad, see “Connecting to your Camera on iPhone” on page 9.

5.1 LIVE VIEWING WITH LOREX PING IPAD

![Live Viewing Example]

- **Perform action to all cameras**
- **View selected camera in single-channel view**
- **4-camera view**
- **6-camera view**
- **Full-screen**
- **Mute Audio**
- **Disconnect/connect to camera**
- **Information**
- **Record to iPad**
- **Snapshot**
- **Adjust volume**
- **Activate 2-way-audio**
5.1.1 USING 2-WAY AUDIO (INTERCOM)

1. While viewing, touch 🅱️ to activate 2-way-audio (intercom) using the phone microphone (speaker required; not included).
2. Tap 🅱️ again to deactivate 2-way-audio.

5.1.2 TAKING SNAPSHOTs

• While viewing, tap 📷 to take a snapshot from the camera. You can view snapshots using the Camera app or save photos to your computer by connecting your iPad to your computer using a USB cable.

NOTE: There is no Camera app on 1st generation iPads. To view your snapshots, you must connect the iPad to your computer using a USB cable.

5.1.3 RECORDING VIDEO TO IPAD

You can manually record video from your camera directly to your iPad’s built in memory.

To record video to your iPhone’s memory:

1. While viewing, tap 📹 to start recording.
2. Tap 📹 again to stop recording. To view the recorded video, see “Playing Back Video Recorded to iPad” on page 72.

5.2 PLAYING BACK VIDEO RECORDED TO IPAD

After using the record button to record video to your iPad, you can playback video on iPad.

To playback video recorded to iPad:

1. Tap the Playback button ( ⏯️ ) then tap iPad.
2. Select the camera you would like to playback video from. A list of days with recorded video appears.
3. Tap a day to see recordings from that day. Tap a recording to start playback.
4. During playback, tap in the display area to bring up playback controls.

5.3 PLAYING BACK VIDEO RECORDED TO MICROSD ON IPAD

You can playback video recorded on the camera microSD card (not included) on your iPad. For details on setting up microSD recording, see “Configuring MicroSD Recording” on page 87.

**NOTE:** You must be connected to the same WiFi network or router as the camera to access microSD recordings.

To play back video recorded on the camera microSD card:
1. Tap the Playback button ( ) then tap **SD Card**.
2. Select the camera you would like to playback from.
3. The camera scans for recorded video files and shows a list of days with recorded video. Tap a day to view recordings created on that day.
4. Tap a recording to play it.

5. Tap the Camera List button ( ) to exit playback.

### 5.4 USING CAMERA LIST TO EDIT CAMERA SETTINGS

You can use the Camera List to adjust the connections settings or other settings for your camera.
To access Camera Settings:

1. Tap Camera List. Then tap next to the camera you would like to edit.
2. For certain menus, you will need to enter the camera admin user name and password before you may change settings. By default, the admin user name is admin and the password is left blank.

IMPORTANT: Some menus below are only available if your device is on the same local network as the camera. If menus are missing, connect to the same WiFi network or router as the camera using your phone.

5.4.1 EDITING CAMERA CONNECTION SETTINGS

You can edit your camera connection information. This is useful if you change the password of the camera or if you want to save the admin user name and password, so you don’t have to enter it to make settings changes.

To edit camera connection settings:

1. In Camera List, tap next to the camera you would like to edit.
2. Change the Name and Password as needed.
3. Under **Dynamic icon update**, select **ON** to have the camera icon automatically update every time you connect to the camera, or select **OFF** to keep the icon as is.

4. Under **Save admin password**, select **ON** to have Lorex Ping save the admin user name and password the next time you enter it, or **OFF** to require the admin user name and password whenever settings changes are made.

5. Tap **Done** to save changes.

### 5.4.2 DELETING CAMERAS FROM CAMERA LIST

1. In Camera List, tap **Move**.

2. Tap 🚶 next to the camera you would like to delete then tap **Delete** to confirm. Tap **Done**.

### 5.4.3 EDITING ALARM NOTIFICATIONS SETTINGS (PUSH NOTIFICATIONS)

Push Alarm Notifications can be set up to create a notification straight to your iPhone when motion or sound is detected by the camera. Push Alarm Notifications go directly to
the notifications area on your device.

Example of Push Notification

To enable Push Alarm Notifications:
1. In Camera List, tap next to the camera.
2. Tap Alarm notification.
3. Under Motion, select ON to enable Push Alarm Notifications when motion is detected using video motion detection or OFF to disable.
4. Under PIR, select ON to enable Push Alarm Notifications when motion is detected using the PIR motion sensor or OFF to disable.
5. Under **Sound**, select **ON** to enable Push Alarm Notifications when sound is detected by the camera or **OFF** to disable. Under Sound Sensitivity, select a sensitivity for Sound Push Alarm Notifications between 1 (lowest) and 10 (highest).

6. Tap **Update** to save your settings.

### 5.4.4 Editing Camera Mobile Streaming Settings

Configure the camera image quality settings for streaming to mobile devices (i.e. smartphones and tablets). Please note that less bandwidth is generally available over mobile networks than over WiFi or Ethernet.

**To edit mobile streaming settings:**

1. In Camera List, tap ✖️ next to the camera.

2. Tap **Stream Settings**.

3. Under **Bandwidth**, select the bandwidth for your mobile connection. If you are mainly connecting using WiFi, you may set this setting higher.

4. Under **Auto**, select **ON** to have the camera automatically select the resolution and frame rate based on available bandwidth. Or, select **OFF** to manually select the resolution and frame rate. If you select OFF, configure the following:

   - Under **Resolution**, select the resolution that will be used when connecting to the camera using a smart phone or tablet: **320x240 (QVGA)** or **640x480 (VGA)**. Tap **Done** to confirm.
• Under **Frame rate**, select the frame rate that will be used when connecting to the camera using a smart phone or tablet between **30fps** (highest) and **1fps** (lowest). Tap **Done** to confirm.

5. Under **Microphone**, select **OFF** to turn off audio streaming to your mobile device or tap to select **ON** to turn on audio streaming to your mobile device.

6. Tap **Update** to save your settings.

### 5.4.5 EDITING CAMERA VIDEO SETTINGS

1. In Camera List, tap 📹 next to the camera.

2. Tap **Video Settings**.

3. Tap **Video**.

4. Configure the following:

   • **Video color**: Select **Colored** to view the camera in color or select **Black & white**. Tap **Done** to return to Video settings.
   
   • **Brightness**: Manually adjust the brightness of the image between **10** (highest) and **1** (lowest). Tap **Done** to return to Video settings.
   
   • **Sharpness**: Manually adjust the sharpness of the image between **10** (highest) and **1** (lowest). Tap **Done** to return to Video settings.
   
   • **Low Light Sensitivity**: Set the camera’s sensitivity in low light environments between **Very High** (highest), **High**, and **Normal** (lowest). Tap **Done** to return to Video settings.
   
   • **Place**: Select **Outdoor** for well lit environments. Select **Indoor** if you notice strip lines in the image or if the picture is too dark on the **Outdoor** video setting. Select **Indoor**
+ Sunlight if the picture is too bright on the Indoor Video setting. If you select an indoor setting, select 60Hz or 50Hz to adjust the camera for the frequency of your indoor lighting. Tap Done to return to Video settings.

- Preference: Select whether you would like the camera to reduce the image quality or the frame rate when bandwidth increases or decreases. Select Video Motion to have the camera maintain the frame rate and reduce image quality when bandwidth is insufficient. Select Image Quality to have the camera maintain image quality and reduce frame rate when bandwidth is insufficient. Select Better Quality to have the camera maintain frame rate and increase quality when bandwidth is sufficient. Select Best Quality to have the camera maintain the frame rate and increase quality to the maximum speed of the connection. Tap Done to return to Video settings.

- Time Display on Video: Select ON to enable time stamps on video or OFF to disable time stamps.

- Video flip: Select ON to flip the camera image vertically and horizontally or select OFF for the normal orientation. This is useful if the camera has been mounted to a wall or ceiling upside down.

5. Tap Update to save your settings.

5.4.6 CONFIGURING LED CONTROL AND MOTION DETECTION SENSITIVITY

Configure the behavior of the camera status and network LED’s. This is useful if you want the camera to be harder to spot at night. You can also configure the sensitivity for video motion detection.

To configure LEDs and motion detection sensitivity:

1. In Camera List, tap next to the camera.

2. Tap Video Settings. Then tap Control.
3. Under **Status LED**, select one of the following:
   - **Normal**: Status and network LED’s will function as normal. For details on LED functions, see “Camera Overview” on page 1.
   - **Always turn off**: Status and network LED’s are turned off at all times.
   - **Turn off after network connected**: Status and Network LED’s turn on when the camera is powered on and turn off once a network connection is made.
   
   **NOTE**: This does not affect the SD LED. Removing the microSD card will turn off the SD LED, but it will also disable microSD recording.

4. Tap **Done** to return to the Control menu.

5. Under **Motion Sensitivity**, select the motion detection sensitivity between 1 (High) and 10 (Low). If Motion Detection Sensitivity is set to 1, motion detection will be triggered if a moving object is larger than 1% of the video area. If it is set to 10, a moving object must be larger than 10% of the video area to trigger motion detection. Tap Control to return to the Control menu.

   **NOTE**: This setting does not affect the PIR motion detector.

6. Tap **Update** to save your settings.

### 5.4.7 Configuring Night Mode Settings

Configure when the camera uses day or night mode. When day mode is on, the camera sees in color. When night mode is on, the camera sees in black and white, and the Infrared LED turns on to enable night vision.

**To configure Day/Night mode:**

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Video Settings**. Then tap **Night Mode Control**.

3. Select one of the following:
   - **Auto**: Camera will automatically switch between day mode or night mode, based on the amount of light in the room.
   - **Schedule**: Camera will switch between day mode and night mode at a scheduled times each day. If using this option, tap under Schedule time of night mode, use the sliders to set the **Start** time (when night mode begins each day) and **End** time (when night mode ends each day), then tap **Done**.
   - **Manual**: Manually select day mode or night mode. If using this option, select **Day** for day mode or **Night** for night mode.

4. Tap **Update** to save your changes.

**5.4.8 Editing Camera Wired Network Settings**

Configure the camera IP address when connected using Ethernet. Select DHCP or Fixed IP.

**To edit camera wired network settings:**

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Camera Settings**.

3. Tap **Network** then **Wired Network**.

4. Select **DHCP** (recommended) to allow the camera to automatically obtain an IP address from the router or **Static** to use fixed IP address settings. If you select Static, configure your **IP Address**, **Subnet mask**, **Default gateway**, **DNS1**, and **DNS2**.

5. Tap **Update** to save your settings.

### 5.4.9 EDITING CAMERA WIFI NETWORK SETTINGS

Configure WiFi network settings for the camera. To setup the camera with a WiFi network, see “iPad WiFi Setup” on page 22.

**To edit camera WiFi settings:**

1. In Camera List, tap ![next to the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Network** then **WiFi Network**.

   ![WiFi Network Settings](image)

   - Slide Wi-Fi to **ON**
   - Tap your WiFi network
   - Tap Other to connect to a hidden network

4. Slide **WiFi** to **ON** to enable WiFi on the camera and scan for available networks.
5. Tap a WiFi network and enter the password to connect.
   - To connect to a hidden WiFi network, tap **Other**. Enter the SSID and select the security type and tap **Done**. Tap the network name from the list and enter the password.
6. Wait for the update to complete.
7. Remove the Ethernet cable from the camera. It will connect to the WiFi network. When it is connected, the blue Network LED will be on or flashing.
8. Tap next to the camera to exit the edit camera screen.
9. Tap the camera in the Camera List to connect. If you cannot connect, check to make sure you have entered the correct wireless password and that the camera is in signal range of your wireless router.

### 5.4.10 Enabling Email Notifications

Configure email alarms. The camera can be set up to send email alerts when motion is detected. Email alarms include a .jpg attachment.

**To enable email notifications:**

1. In Camera List, tap next to the camera.
2. Tap **Camera Settings**.

![Camera Settings Screen]

- Enable/disable email notifications
- Select motion sensitivity for video motion
- Select email triggers
- Enable/disable email notifications
- Add up to 3 email recipients

3. Tap **Schedule** then **Email Alarm**.

4. Under **Email trigger**, select **ON** to enable email notifications or **OFF** to disable. Then under **Send Email**, select **ON** to enable email notifications.

5. Under **Motion sensitivity**, select the motion detection sensitivity between 1 (High) and 10 (Low). If Motion Detection Sensitivity is set to 1, motion detection will be triggered if a moving object is larger than 1% of the video area. If it is set to 10, a moving object must be larger than 10% of the video area to trigger motion detection. Tap Email alarm to return to the Email Alarm menu.

**NOTE:** This setting does not affect the PIR motion detector.

6. Check the following trigger options for email alarms:
   - **Motion:** Use Video motion detection to trigger email alarms. Video motion detection looks for movement in the image to determine if there is motion. This means that there may be false alarms caused by changes in lighting, trees moving in the wind, etc.
• **PIR**: Use the PIR motion detector to trigger email alarms. The PIR motion detector uses changes in temperatures (e.g. from a person moving around in front of the camera) to determine if there is motion. PIR motion detection is less effective at higher temperatures.

**NOTE**: You may also select both PIR and Motion to receive alarms from both motion triggers.

• **Schedule**: Send email alarms based on the settings configured in the Scheduling menu.

7. Enter up to 3 email addresses under **Recipient1~3** that will receive email alarms.
8. Tap **Update** to save your changes.

**NOTE**: If you want to use a custom SMTP server to send Email messages, click **SMTP Settings**, enter your SMTP server information, and tap **OK**.

### 5.4.11 ENABLING SPEAKER ALARMS

Configure audio alarms using a speaker (not included) connected to the camera. Audio alarms can be set up to go off when the camera detects motion. This is helpful if you want to scare off intruders.

**To configure speaker alarms:**

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Schedule** then **Speaker Alarm**.

![Image of speaker alarm settings]

- Select speaker alarm triggers
- Select number of times speaker alarm will repeat
- Test speaker alarm
4. Under Speaker Alarm Trigger, check the triggers that will cause speaker alarms:
   • **Motion**: Use Video motion detection to trigger audio alarms. Video motion detection looks for movement in the image to determine if there is motion. This means that there may be false alarms caused by changes in lighting, trees moving in the wind, etc.
   • **PIR**: Use the PIR motion detector to trigger audio alarms. The PIR motion detector uses changes in temperatures (e.g. from a person moving around in front of the camera) to determine if there is motion. PIR motion detection is less effective at higher temperatures.

   **NOTE**: You may also select both PIR and Motion to receive alarms from both motion triggers.

   • **Schedule**: Create audio alarms based on the settings set in the Scheduling menu.
   • **Disable**: Disable speaker alarms.

5. Under **Alarm Loop Times**, select the number of times you would like the speaker alarm to repeat when alarms occur. Tap **Done**.
6. Tap **Alarm Test** to sound a test alarm.
7. Tap **Update** to save your settings.

### 5.4.12 CONFIGURING MICROSD RECORDING

Configure video recording to the microSD card (required; not included). To playback recordings saved on the microSD card, use L-View or the iPhone, iPad, or Android apps.

**To configure microSD card recording:**
1. Make sure a microSD card (not included) is inserted into the camera. It is recommended to format the microSD card before using it with the camera.
2. In Camera List, tap next to the camera you would like to edit.
3. Tap **Camera Settings**.
iPod App

4. Tap Schedule then SD-Card.

5. Under Recording, select ON to enable microSD recording or OFF to disable.

6. Check one of the following recording options:
   - **Always Recording**: Camera will record continuously at all times.
   - **Schedule Recording**: Camera will record according to settings set in the recording schedule.

**NOTE**: To enable Motion detection recording using iPad, you must use Schedule recording. Then, create a schedule in the Scheduling menu with Motion trigger, PIR trigger, or both Motion trigger and PIR trigger selected.

7. Check Circular recording to set the camera to overwrite the oldest recordings when the microSD card is full or select Stop recording to set the camera to stop recording when the microSD card is full.

8. Tap Update to save your settings.

**5.4.13 CONFIGURING THE CAMERA RECORDING AND ALARM SCHEDULE**

Configure schedules for recording and alarms. Schedules can be configured separately for alarms and recording. You can configure up to 12 schedules.

To create a schedule for alarms or recording:
1. First, you must enable alarms or recording to use the schedule.
2. In Camera List, tap \( \) next to the camera you would like to edit.
3. Tap **Camera Settings**.
4. Tap **Schedule** then **Scheduling**.
5. Tap **Add Schedule**.

6. Under **Email Alarm**, check **Motion trigger** to send an email alarm based on video motion, check **PIR trigger** to use the PIR motion sensor, or select both.
7. Under **Speaker Alarm**, check **Motion trigger** to create an audio alarm based on video motion, check **PIR trigger** to use the PIR motion sensor, or select both.
8. Under **SD card record**, check **Continuous** for the camera to record to microSD continuously during the scheduled time. Check **Motion trigger** to record when video motion is triggered during the scheduled time, select **PIR trigger** to record when the PIR motion sensor is triggered during the scheduled time, or select both.
9. Under **Time period**, select one of the following:

- **Every week**: Create a weekly recording schedule. Tap ➡️ and check the days you would like the schedule to apply to. Tap **Start** and **End** and use the sliders to configure the start and end time for the schedule. Tap **Done**.

- **Every day**: Create a daily recording schedule. Tap ➡️ then tap **Start** and **End** and use the sliders to configure the start and end time for the schedule. Tap **Done**.

- **Fixed time**: Create a one time schedule (for example, if you are going on vacation, and would like to record all the time). Tap ➡️ then set the **Start** and **End** using the sliders to configure the exact date and time when you would like the schedule to start and end. Tap **Done**.

10. Tap **Done** to save the schedule. Tap **Update** to save your settings.

**To delete a Schedule:**
1. From the Scheduling menu, swipe the schedule you would like to delete from left to right.
2. Tap **Delete**.
3. Tap **Update** to save your changes.

---

**5.4.14 CONFIGURING THE CAMERA DATE AND TIME**

Configure the camera date and time. The camera syncs with an Internet NTP time server to automatically provide the correct time, once you have configured your time zone and daylight savings time settings.

**To set the camera date and time:**
1. In Camera List, tap ➡️ next to the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Admin** then **Date/Time**.

4. Tap **Time Zone**.

5. Use the slider to select your time zone.
   - If your region observes Daylight Savings Time, check **Daylight Savings Time**. Tap **Start Time** and **End Time**, use the sliders to configure the start and end time for Daylight Savings Time and then tap **Done**.

6. Tap **Update** to save your changes. Tap **OK**. The camera will reboot to apply the new time zone.

### 5.4.15 REBOOTING THE CAMERA

1. In Camera List, tap the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Admin** then **Reboot**.
4. Tap **OK** to confirm.

**5.5 USING LOCAL SEARCH TO ADD CAMERAS**

You can use the Local Search Menu to automatically add the ID’s for cameras on your local network.

**To add cameras using local search:**

1. Tap the Local Search button ( )
2. Lorex Ping automatically scans for cameras on your local network. Tap **Search** to re-scan.
3. Tap a camera from the list. The Add camera screen comes on with the camera ID already entered.
4. Enter a **Name** of your choice and enter the camera **Password**. If you have not connected to your camera before, the password is **lorex**.
5. Tap **Done**. The camera is now added to camera list. Tap the Camera List button ( ), and then tap the camera name in Camera List to connect to the camera.
6. ANDROID APP

The app for Android is called **Lorex Ping**.
For instructions on connecting to your camera using Android, see “Connecting to your Camera on Android” on page 15.

6.1 LIVE VIEWING WITH LOREX PING FOR ANDROID

You can use Lorex Ping in portrait or landscape mode. Tilt the phone to switch between portrait or landscape.

- Disconnect button (only shown in portrait mode)
- Video information
- Save Snapshot
- Activate 2-way audio (intercom) using the phone microphone
6.1.1 USING 2-WAY AUDIO (INTERCOM)

1. Touch 🎤 to activate 2-way-audio (intercom) using the phone microphone (speaker required; not included).

2. Touch 🎤 again to turn off 2-way audio.

6.1.2 SAVING SNAPSHOTS

• Touch 📸 to take a snapshot from the camera. Snapshots are saved in .png format to the DCIM/Lorex Ping folder on your device. To view or copy Snapshots to your computer, connect your device to your computer using a USB cable. See your Android device’s Instruction Manual for details.

6.2 PLAYING BACK VIDEO RECORDED ON MICROSD ON ANDROID

You can playback video recorded on the camera microSD card (not included) on your Android phone or tablet. For details on setting up microSD recording, see “Enabling microSD Recording” on page 108.

**NOTE:** You must be connected to the same WiFi network or router as the camera to access microSD recordings.

To play back video recorded on the camera microSD card:

1. From the Camera List, tap 🎥.
2. Tap **SD card playback**.

3. The camera scans for available video files. Files are shown in a list according to the date they were recorded.

4. Tap a day to view recordings for that day. Tap a recording to view it.

5. Tap **Disconnect** to return to the recording list.
6.3 USING CAMERA LIST TO EDIT CAMERA SETTINGS

You can use the Camera List to adjust the connection or other settings for your camera.

**IMPORTANT:** Some menus below are only available if your device is on the same local network as the camera. If menus are missing, connect to the same WiFi network or router as the camera using your phone.

**To access Camera Settings:**

1. Tap Camera List. Then tap next to the camera you would like to edit. The Camera List Settings Menu appears.

2. For certain menus, you will need to enter the camera admin user name and password before you may change settings. By default, the admin user name is **admin** and the password is **left blank**.
6.3.1 EDITING CAMERA CONNECTION SETTINGS

You can edit your camera connection information. This is useful if you change the password of the camera or if you want to save the admin user name and password, so you don’t have to enter it to make settings changes.

To edit camera connection settings:

1. In Camera List, tap next to the camera you would like to edit.
2. Tap Edit ID/Password.
3. Edit the Camera Name and Password as needed.
4. Under Update icon, select ON for the camera to update the icon shown in camera list every time you connect to it or OFF for the icon to remain as is.
5. Under Save Admin Account, select ON to save the admin user name and password, so you do not have to enter it when making setting changes. Or, select OFF to not save the admin user name and password. The admin user name and password will be saved the next time you enter it to make a setting change.
6. Tap OK to save changes.

6.3.2 DELETING CAMERAS FROM CAMERA LIST

1. In Camera List, tap next to the camera you would like to delete.
2. Tap Delete.

6.3.3 EDITING CAMERA MOBILE STREAMING SETTINGS

Configure the camera image quality settings for streaming to mobile devices (i.e. smart phones and tablets). Please note that less bandwidth is generally available over mobile
networks than over WiFi or Ethernet.

**To edit mobile streaming settings:**

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Stream Settings**.

![Stream Settings](image)

3. Under **Bandwidth**, select the bandwidth for your mobile connection. If you are mainly connecting using WiFi, you may set this setting higher.
4. Under **Auto**, tap to select **ON** to have the camera automatically select the resolution and frame rate based on available bandwidth. Or, select **OFF** to manually select the resolution and frame rate. If you select **OFF**, configure the following:
   - Under **Resolution**, select the resolution that will be used when connecting to the camera using a smart phone or tablet: **160x120 (Q2WGA)**, **320x240 (QVGA)**, or **640x480 (VGA)**.
   - Under **Frame rate**, select the frame rate that will be used when connecting to the camera using a smart phone or tablet between **30fps** (highest) and **1fps** (lowest).
5. Under **Microphone**, tap to select **OFF** to turn off audio streaming to your mobile device or tap to select **ON** to turn on audio streaming to your mobile device.
6. Tap **Update** to save your settings.

**6.3.4 EDITING CAMERA VIDEO SETTINGS**

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Video Settings**. Then tap **Video**.

- Select Color or Black & White
- Select Brightness
- Select Sharpness
- Select Low light sensitivity
- Select environment settings
- Select quality preference
- Enable/disable time stamps
- Enable/disable video flip

3. Configure the following:

- **Video color**: Select **Color** to view the camera in color or select **Black & white**.
- **Brightness**: Manually adjust the brightness of the image between 10 (highest) and 1 (lowest).
- **Sharpness**: Manually adjust the sharpness of the image between 10 (highest) and 1 (lowest).
- **Low Light Sensitivity**: Set the camera’s sensitivity in low light environments between Very High (highest), High, and Normal (lowest).
- **Place**: Select **Outdoor video** for well lit environments. Select **Indoor Video** if you notice strip lines in the image or if the picture is too dark on the Outdoor video setting. Select **Indoor video + sunlight** if the picture is too bright on the Indoor Video setting. If you select an indoor settings, select **60Hz light freq** or **50Hz light freq** to adjust the camera for the frequency of your indoor lighting.
- **Favor/Preference**: Select whether you would like the camera to reduce the image quality or the frame rate when bandwidth increases or decreases. Select **Video Motion** to have the camera maintain the frame rate and reduce image quality when bandwidth is insufficient. Select **Image Quality** to have the camera maintain image quality and reduce frame rate when bandwidth is insufficient. Select **Better Quality** to have the camera maintain frame rate and increase quality when bandwidth is sufficient. Select **Best Quality** to have the camera maintain the frame rate and increase quality to the maximum speed of the connection.
Android App

- **Time Display on Video:** Tap to select **ON** to enable time stamps on video or **OFF** to disable time stamps.

- **Video flip:** Tap to select **Video Flip** to flip the camera image vertically and horizontally or select **Normal** for the normal orientation. This is useful if the camera has been mounted to a wall or ceiling upside down.

4. Tap **Video Settings** when finished making changes, then tap **Update** to save your settings.

### 6.3.5 CONFIGURING LED CONTROL AND MOTION DETECTION SENSITIVITY

Configure the behavior of the camera status and network LED’s. This is useful if you want the camera to be harder to spot at night. You can also configure the sensitivity for video motion detection.

**To configure LEDs and motion detection sensitivity:**

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Video Settings.** Then tap **Control.**

   ![Video settings screen](image)

   - Select Network and Status LED behavior
   - Select Video motion detection sensitivity

3. Under **Status LED,** select one of the following:
   - **Normal:** Status and network LED’s will function as normal. For details on LED functions, see “Camera Overview” on page 1.
   - **Always turn off:** Status and network LED’s are turned off at all times.
   - **Turn off after network connected:** Status and Network LED’s turn on when the camera is powered on and turn off once a network connection is made.

   **NOTE:** This does not affect the SD LED. Removing the microSD card will turn off the SD LED, but it will also disable microSD recording.

4. Under **Motion Sensitivity,** select the motion detection sensitivity between 1 (High) and 10 (Low). If Motion Detection Sensitivity is set to 1, motion detection will be
triggered if a moving object is larger than 1% of the video area. If it is set to 10, a moving object must be larger than 10% of the video area to trigger motion detection. **NOTE:** This setting does not affect the PIR motion detector.

5. Tap **Video Settings** when finished making changes, then tap **Update** to save your settings.

### 6.3.6 CONFIGURING NIGHT MODE SETTINGS

Configure when the camera uses day or night mode. When day mode is on, the camera sees in color. When night mode is on, the camera sees in black and white, and the Infrared LED turns on to enable night vision.

**To configure Day/Night mode:**

1. In Camera List, tap next to the camera you would like to edit.

2. Tap **Video Settings**. Then tap **Night Mode Control**.

![Select Night Mode control option](image)

3. Select one of the following:
   - **Auto:** Camera will automatically switch between day mode or night mode, based on the amount of light in the room.
   - **Schedule:** Camera will switch between day mode and night mode at a scheduled times each day. If using this option, tap under Schedule time of night mode, use the
sliders to set the **Start** time (when night mode begins each day) and **End** time (when night mode ends each day), then tap **OK**.

- **Manual:** Manually select day mode or night mode. If using this option, select **Day** for day mode or **Night** for night mode.

4. Tap **Update** to save your changes.

### 6.3.7 ENABLING PUSH ALARM NOTIFICATIONS

Push Alarm Notifications can be set up to create a notification straight to your Android device when motion or sound is detected by the camera. Push Alarm Notifications go
To enable Push Alarm Notifications:

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Alarm Notification**.
3. Under **Motion**, tap to select **ON** to enable Push Alarm Notifications when motion is detected using video motion detection or **OFF** to disable.
4. Under **PIR**, tap to select **ON** to enable Push Alarm Notifications when motion is detected using the PIR motion sensor or **OFF** to disable.
5. Under **Sound**, tap to select **ON** to enable Push Alarm Notifications when sound is detected by the camera or **OFF** to disable. Under Sound Sensitivity, select a sensitivity for Sound Push Alarm Notifications between 1 (lowest) and 10 (highest).
6. Tap **Update** to save your settings.

**6.3.8 EDITING CAMERA WIRED NETWORK SETTINGS**

Configure the camera IP address when connected using Ethernet. Select DHCP or Fixed IP.

**To edit camera wired network settings:**
1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Network** then **Wired Network**.

4. Select **DHCP** (recommended) or **Static** for a fixed IP address. If Static, configure your **IP Address**, **Subnet mask**, **Default gateway**, **DNS1**, and **DNS2**.
5. Tap **Update** to save your settings.

### 6.3.9 Editing Camera WiFi Network Settings

Configure WiFi network settings for the camera. To setup the camera with a WiFi network, see “Android WiFi Setup” on page 23.

**To edit camera WiFi settings:**

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Network** then **WiFi Network**.

4. Check WiFi to enable WiFi on the camera and scan for available networks.

5. Tap a WiFi network and enter the password to connect.
   - To connect to a hidden WiFi network, tap **Other**. Enter the **SSID** and select the security type and tap **Add**. Tap the network name from the list and enter the password.

6. Wait for the update to complete.

7. Remove the Ethernet cable from the camera. It will connect to the WiFi network. When it is connected, the blue Network LED will be on or flashing.

8. Press **Camera Settings** then **Camera List** to exit the edit camera screen.

9. Tap the camera in the Camera List to connect. If you cannot connect, check to make sure you have entered the correct wireless password and that the camera is in signal range of your wireless router.

### 6.3.10 ENABLING EMAIL NOTIFICATIONS

Configure email alarms. The camera can be set up to send email alerts when motion is detected. Email alarms include a .jpg attachment.

**To enable email notifications:**

1. In Camera List, tap next to the camera you would like to edit.

2. Tap **Camera Settings**.
3. Tap **Schedule** then **Email Alarm**.

4. Under **Email trigger**, tap to select **ON** to enable email notifications or **OFF** to disable. Then under **Send Email**, tap to select **ON** to enable email notifications.

5. Under **Motion sensitivity**, select the motion detection sensitivity between **1** (High) and **10** (Low). If Motion Detection Sensitivity is set to 1, motion detection will be triggered if a moving object is larger than 1% of the video area. If it is set to 10, a moving object must be larger than 10% of the video area to trigger motion detection. **NOTE:** This setting does not affect the PIR motion detector.

6. Select from the following trigger options for email alarms:
   - **Motion**: Use Video motion detection to trigger email alarms. Video motion detection looks for movement in the image to determine if there is motion. This means that there may be false alarms caused by changes in lighting, trees moving in the wind, etc.
   - **PIR**: Use the PIR motion detector to trigger email alarms. The PIR motion detector uses changes in temperatures (e.g. from a person moving around in front of the camera) to determine if there is motion. PIR motion detection is less effective at higher temperatures. **NOTE:** You may also select both PIR and Motion to receive alarms from both motion triggers.
   - **Scheduling**: Send email alarms based on the settings configured under Schedule.

7. Enter up to 3 email addresses under **Recipient1~3** that will receive email alarms.

8. Tap **Update** to save your changes.
NOTE: If you want to use a custom SMTP server to send Email messages, click **SMTP Settings**, enter your SMTP server information, and tap **OK**.

### 6.3.11 ENABLING SPEAKER ALARMS

Configure audio alarms using a speaker (not included) connected to the camera. Audio alarms can be set up to go off when the camera detects motion. This is helpful if you want to scare off intruders.

**To configure speaker alarms:**

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Schedule** then **Speaker Alarm**.
4. Under **Speaker Alarm Trigger**, tap to select **ON** to enable speaker alarms or **OFF** to disable.
5. Under **Alarm Loop Times**, select the number of times you would like the speaker alarm to repeat when alarms occur.
6. Select from the following speaker alarm triggers:
   - **Motion**: Use Video motion detection to trigger audio alarms. Video motion detection looks for movement in the image to determine if there is motion. This means that there may be false alarms caused by changes in lighting, trees moving in the wind, etc.
   - **PIR**: Use the PIR motion detector to trigger audio alarms. The PIR motion detector uses changes in temperatures (e.g. from a person moving around in front of the camera) to determine if there is motion. PIR motion detection is less effective at higher temperatures.

**NOTE**: You may also select both PIR and Motion to receive alarms from both motion triggers.
• **Scheduling:** Create audio alarms based on the settings set in the Schedule.
7. Tap **Alarm Test** to sound a test alarm.
8. Tap **Update** to save your settings.

### 6.3.12 ENABLING MICROSD RECORDING

Configure video recording to the microSD card (required; not included). To playback recordings saved on the microSD card, use L-View or the iPhone, iPad, or Android apps.

**To configure microSD card recording:**
1. Make sure a microSD card (not included) is inserted into the camera. It is recommended to format the microSD card before using it with the camera.
2. In Camera List, tap next to the camera you would like to edit.
3. Tap **Camera Settings**.
4. Tap **Schedule** then **SD-Card**.

5. Under Recording, tap to select **ON** to enable microSD recording or **OFF** to disable.
6. Select one of the following recording options:
   - **Always Recording:** Camera will record continuously at all times.
• **Schedule Recording**: Camera will record according to settings set in the recording schedule.

**NOTE**: To enable Motion detection recording using Android, you must use Schedule recording. Then, create a schedule in the Scheduling menu with **Motion trigger**, **PIR trigger**, or both Motion trigger and PIR trigger selected.

7. Under **When disk space full** select **Circular** recording to set the camera to overwrite the oldest recordings when the microSD card is full or select **Stop recording** to set the camera to stop recording when the microSD card is full.

8. Tap **Update** to save your settings.

### 6.3.13 CONFIGURING THE RECORDING AND ALARM SCHEDULE

Configure schedules for recording and alarms. Schedules can be configured separately for alarms and recording. You can configure up to 12 schedules.

**To create a schedule for alarms or recording:**

1. First, you must enable alarms or recording to use the schedule.
2. In Camera List, tap next to the camera you would like to edit.
3. Tap **Camera Settings**.
4. Tap **Schedule** then **Scheduling**.
5. Tap **Add Schedule**.

6. Under **Email Alarm**, check **Motion trigger** to send an email alarm based on video motion, select **PIR trigger** to use the PIR motion sensor, or select both.
7. Under **Speaker Alarm**, check **Motion trigger** to create an audio alarm based on video motion, check **PIR trigger** to use the PIR motion sensor, or select both.

8. Under **SD card record**, check **Continuous** for the camera to record to microSD continuously during the scheduled time. Check **Motion trigger** to record when video motion is triggered during the scheduled time, select **PIR trigger** to record when the PIR motion sensor is triggered during the scheduled time or select both.

9. Under **Time period**, select one of the following:

   - **Every week**: Create a weekly recording schedule. Tap and check the days you would like the schedule to apply to. Tap **Start** and **End** and use the sliders to configure the start and end time for the schedule. Tap **OK**.

   - **Every day**: Create a daily recording schedule. Tap then tap **Start** and **End** and use the sliders to configure the start and end time for the schedule. Tap **OK**.

   - **Fixed time**: Create a one time schedule (for example, if you are going on vacation, and would like to record all the time). Tap **Start** and **End** and use the sliders to configure the exact date and time when you would like the schedule to start and end. Tap **OK**.

10. Tap **OK** to save the schedule. Tap **Update** to save your settings.

To delete a Schedule:
1. From the Scheduling menu, press the Android menu button and tap **Delete**.

2. Select the schedule you want to delete and tap **Delete**.

3. Tap **Update** to save your changes.

### 6.3.14 CONFIGURING THE CAMERA DATE AND TIME

Configure the camera date and time. The camera syncs with an Internet NTP time server to automatically provide the correct time, once you have configured your time zone and daylight savings time settings.

**To set the camera date and time:**

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Admin** then **Date/Time**.
Android App

4. Tap **Time Zone**.

5. Use the slider to select your time zone.
6. If your region observes Daylight Savings Time, check **Daylight Savings Time**. Tap **Start Time** and **End Time**, use the sliders to configure the start and end time for Daylight Savings Time and then tap **OK**.

7. Tap **Update** to save your changes.

### 6.3.15 REBOOTING THE CAMERA

1. In Camera List, tap next to the camera you would like to edit.
2. Tap **Camera Settings**.
3. Tap **Admin** then **Reboot**.
4. Tap **OK** to confirm.
6.4 USING LOCAL SEARCH TO ADD CAMERAS

You can use the Local Search Menu to automatically add the ID’s for cameras on your local network.

**To add cameras using local search:**

1. Tap the Local Search button ( ).

2. Lorex Ping automatically scans for cameras on your local network. Tap **Search** to re-scan.

3. Tap a camera from the list. The Add camera screen comes on with the camera ID already entered.

4. Enter a **Camera Name** of your choice and enter the camera **Password**. If you have not connected to your camera before, the password is **lorex**.

5. Tap **OK**. The camera is now added to camera list. Tap the camera name in camera list to connect to the camera.
7. CONFIGURING CAMERA SETTINGS USING A WEB BROWSER

Web Configure lets you modify camera settings using a web browser.

To access Web Configure:
1. Open L-View, right-click on the camera ID under Auto Search, and click Web Configure.

   Right-click the camera under Auto Search and click Web Configure

   NOTE: Your computer must be on the same network as the camera to use Web Configure.

2. Enter the camera admin user name and password. By default, the admin user name is admin and the admin password field is left blank. Click Log in. The Web Configure interface opens in your default web browser.  

   NOTE: Your camera admin user name and password differs from the password used to connect to your camera to view video.
7.1 WEB CONFIGURE OVERVIEW

1. **Information**: View information about the camera and camera settings.
2. **Network**: Configure wired/wireless network settings. Connect to a wireless network.
3. **Video**: Configure camera video and streaming settings. Watch live video from the camera (Internet Explorer only).
4. **Schedule**: Configure recording settings and schedules. Configure email and audio alarms (speaker required; not included).
5. **Admin**: Configure the camera date and time, passwords, and LEDs. Restart the camera. Perform system upgrades.
6. **Language**: Select the language for the Web Configure interface.

7.2 NETWORK

Configure networking settings for WiFi or Ethernet connection.

**7.2.1 WIRED NETWORK (DHCP OR FIXED IP)**

Configure the camera IP address when connected using Ethernet. Select DHCP or Fixed
To configure the camera to use DHCP or fixed IP:

1. Select one of the following:
   - **Obtain an IP address automatically (recommended):** Use DHCP and allow the camera to obtain an IP address from the router automatically.
   - **Use the following IP address:** Use a fixed IP address and manually enter the IP address information.

2. If you selected Use the following IP address, configure the following:
   - **IP address:** Enter the IP address the camera will use. Make sure it is available on your network.
   - **Subnet mask:** Enter the Subnet Mask.
   - **Default Gateway:** Enter the Default Gateway address.
   - **Obtain DNS server address automatically:** Select to have the camera automatically select a DNS server.
   - **Use the following DNS server address:** Select and then manually enter DNS server information.

3. Click **Save & Apply**.

### 7.2.2 WIFI SECURITY (CONFIGURING WIFI SETTINGS)

Configure the camera to connect to a WiFi network and configure WiFi settings.
To configure WiFi Settings:
NOTE: For instructions on connecting your camera to a WiFi network, see “WiFi Setup” on page 18.
1. Perform one of the following:

- To Scan available WiFi networks, click WiFi Scan.
- To connect to a hidden WiFi network, select Enable Wifi function, and manually fill out the SSID, Security mode (i.e. encryption type), and the WEP or WPA-PSK Key. Click Save & Apply. Refresh the page and select WiFi test. When the test is successful, disconnect the camera from Ethernet.
- To configure a fixed IP address for the camera when connected over WiFi, click IP address, configure the settings as needed, and click Save & Apply.
- To test configured WiFi settings, click WiFi test.

7.3 VIDEO
Configure camera video and streaming settings. Watch live video from the camera (Internet Explorer only).

7.3.1 DISPLAY
Watch live video from the camera (only compatible with Internet Explorer).
You must install ActiveX controls to view live video using Internet Explorer. An
attention bar will appear to prompt you to install ActiveX controls. Click **Install** or click inside the attention bar and select **Install ActiveX for all users on this computer** and follow the prompts to install ActiveX controls.

Once ActiveX controls are installed, you can view live video from the camera. Double-click inside the video area to open the video in full-screen. Double-click again to exit full screen.

### 7.3.2 VIDEO SETTINGS

Adjust the video quality settings. Set the password to access camera video through L-View or apps.
To configure camera video quality settings:

**TIP:** Change only one camera image quality setting at a time before clicking **Save & Apply** so you can judge the effects.

1. Configure the following, as needed:
   - **Internet speed:** Select the speed of your Internet connection. If your Internet connection is faster than 1.5Mbps, select 1.5Mbps.
   - **Adjust resolution and frame rate automatically:** Select to allow the camera to adjust the video resolution and frame rate based on available bandwidth.

**NOTE:** Resolution is the number of pixels (dots) used to make up the video image. A higher resolution means that more detail can be expressed in the video, but it increases the amount of bandwidth required to stream the video.

Frame rate is the number of frames (images) per second (FPS) shown in a video. A higher frame rate means that movement in the image appears smoother, but it also increases the amount of bandwidth required to stream the video.

- **Use the following values:** Select to manually select the video resolution and frame rate for the camera. Note that the image quality may decrease if there is not enough bandwidth for your selected settings.
- **Resolution:** Manually select either **VGA** (640x480) or **QVGA** (320x240) resolution. VGA resolution will give you a better, more detailed picture, but requires more bandwidth. QVGA allows the camera to maintain a higher frame rate when available bandwidth is low.
- **Frame rate:** Manually select the frame rate between **30fps** (highest) and **1fps** (lowest). 30fps is real time video, meaning that movement in the image will appear smooth, with no choppiness.
- **Favor/Preference:** Select whether you would like the camera to reduce the image quality or the frame rate when bandwidth increases or decreases. Select **Video Motion** to have the camera maintain the frame rate and reduce image quality when bandwidth is insufficient. Select **Image Quality** to have the camera maintain image quality and reduce frame rate when bandwidth is insufficient. Select **Better Quality** to have the camera maintain frame rate and increase quality when bandwidth is sufficient. Select **Best Quality** to have the camera maintain the frame rate and increase quality to the maximum speed of the connection.
 Configuring Camera Settings using a Web Browser

- **Brightness:** Manually adjust the brightness of the image between 10 (highest) and 1 (lowest).
- **Sharpness:** Manually adjust the sharpness of the image between 10 (highest) and 1 (lowest).
- **Low Light Sensitivity:** Set the camera’s sensitivity in low light environments between Very High (highest), High, and Normal (lowest).
- **Video color:** Select Colored to view the camera in color or select Black & white.
- **Video flip:** Select Video Flip to flip the camera image vertically and horizontally or select Normal for the normal orientation. This is useful if the camera has been mounted to a wall or ceiling upside down.
- **Outdoor video/Indoor video/Indoor video + sun light:** Select Outdoor video for well lit environments. Select Indoor Video if you notice strip lines in the image or if the picture is too dark on the Outdoor video setting. Select Indoor video + sunlight if the picture is too bright on the Indoor Video setting.
- **60Hz light freq/50Hz light freq:** If necessary, select 60Hz light freq or 50Hz light freq to adjust the camera for the frequency of your indoor lighting. These settings are not available when the camera is set to Outdoor video.
- **Enable audio microphone/Disable audio microphone:** Select Disable audio microphone to disable the built-in microphone in the camera or select Enable audio microphone to enable it.
- **Enable time display/Disable time display:** Select Disable time display to turn off video time stamps or Enable time display to turn on video time stamps.

2. Click **Save & Apply** to apply the settings to the camera. You may need to reconnect to the camera after making settings changes.

To set the camera password for accessing video through L-View or apps:

1. Under Password (play video), enter a password to access the camera video using L-View or smart phone and tablet apps.
2. Click **Save & Apply** to save the new password.

### 7.3.3 MOBILE VIDEO

Set streaming settings for connecting using a smart phone or tablet. Note that less bandwidth is generally available when connecting to the camera over a mobile cellular
network than when connecting using broadband Internet.

To configure mobile streaming settings:
1. Under Mobile bandwidth, select your available mobile bandwidth. If you are primarily connecting using WiFi, you may set this setting higher.
2. Select either Select resolution & frame rate automatically to have the camera automatically select the resolution and frame rate based on available bandwidth or select Use the following values to manually select the resolution and frame rate.
3. Under Resolution, select the resolution that will be used when connecting to the camera using a smart phone or tablet: VGA (640x480) or QVGA (320x240).
4. Under Frame rate, select the frame rate that will be used when connecting to the camera using a smart phone or tablet between 30fps (highest) and 1fps (lowest).
5. Select Enable audio to enable audio streaming to smart phones and tablets or Disable audio to disable audio streaming to smart phones and tablets.
6. Click Save & Apply to apply changes to your camera.

7.3.4 NIGHT MODE

Configure when the camera uses day or night mode. When day mode is on, the camera sees in color. When night mode is on, the camera sees in black and white, and the
Infrared LED turns on to enable night vision.

To configure Day/Night mode:
1. Select one of the following:
   - **Automatic day and night mode switch**: Camera will automatically switch between day mode or night mode, based on the amount of light in the room.
   - **Scheduled time of night mode**: Camera will switch between day mode and night mode at a scheduled times each day. If using this option, use the first set of drop-down menus to select (in 24-hour time) what time the camera will switch to night mode and the second set of drop-down menus to select when the camera will return to day mode.

   ![Scheduled time of night mode](image.png)

   **Start of night mode** (8:00 PM)  **Return to day mode** (6:00 AM)

   - **Manual night mode control**: Manually select day mode or night mode. If using this option, under Mode, select **Day** for day mode or **Night** for night mode.

   ![Manual night mode control](image.png)

   Select day or night mode
2. Click **Save & Apply** to apply your settings to the camera.

### 7.4 SCHEDULE

Configure recording to microSD card, configure email or speaker alarms, and setup the recording/alarm schedule.

#### 7.4.1 EMAIL/FTP ALARM SETTINGS (CONFIGURING EMAIL ALARMS)

Configure email alarms. The camera can be set up to send email alerts when motion is detected. Email alarms include a .jpg attachment.

**To configure Email Alarms:**

1. Under **Email/FTP Trigger**, select one of the following alarm triggers:
   - **Motion**: Use Video motion detection to trigger email alarms. Video motion detection looks for movement in the image to determine if there is motion. This means that there may be false alarms caused by changes in lighting, trees moving in the wind, etc.
**PIR:** Use the PIR motion detector to trigger email alarms. The PIR motion detector uses changes in temperatures (e.g. from a person moving around in front of the camera) to determine if there is motion. PIR motion detection is less effective at higher temperatures.

**NOTE:** You may also select both PIR and Motion to receive alarms from both motion triggers.

- **Schedule:** Send email alarms based on the settings configured under Schedule. see “Scheduling (Configuring Recording and Alarm Schedules)” on page 126.
- **Disable:** Disable email alarms.

2. If you have selected Motion, under Motion Sensitivity, select the motion detection sensitivity between 1 (High) and 10 (Low). If Motion Detection Sensitivity is set to 1, motion detection will be triggered if a moving object is larger than 1% of the video area. If it is set to 10, a moving object must be larger than 10% of the video area to trigger motion detection.

**NOTE:** This setting does not affect the PIR motion detector.

3. Under **Trigger Interval**, enter the minimum time (in seconds) the camera will wait in between email alarms. If this Interval is set too low, you may receive a lot of messages.

4. Under **Email Recipient**, enter up to 3 email addresses that will receive email alarms.

5. Click **Save & Apply** to Save email alarm settings.

**NOTE:** If you want to use a custom SMTP server to send Email messages, click Advanced, enter your SMTP server information, and click Save & Apply.

### 7.4.2 SPEAKER ALARM (CONFIGURING AUDIO ALARMS)

Configure audio alarms using a speaker (not included) connected to the camera. Audio alarms can be set up to go off when the camera detects motion. This is helpful if you want...
To configure speaker alarms:

1. Under **Speaker Alarm Trigger**, select one of the following alarm triggers:
   - **Motion**: Use Video motion detection to trigger audio alarms. Video motion detection looks for movement in the image to determine if there is motion. This means that there may be false alarms caused by changes in lighting, trees moving in the wind, etc.
   - **PIR**: Use the PIR motion detector to trigger audio alarms. The PIR motion detector uses changes in temperatures (e.g. from a person moving around in front of the camera) to determine if there is motion. PIR motion detection is less effective at higher temperatures.

   **NOTE**: You may also select both PIR and Motion to receive alarms from both motion triggers.

   - **Schedule**: Create audio alarms based on the settings set in the Schedule. see “Scheduling [Configuring Recording and Alarm Schedules]” on page 126.
   - **Disable**: Disable audio alarms.

2. Under **Alarm loop times**, select the number of times the alarm will repeat.
3. Click **Alarm Test** to sound a test alarm.
4. Click **Save & Apply**.

### 7.4.3 SD CARD (CONFIGURING MICROSD RECORDING)

Configure video recording to the microSD card (required; not included). To playback
Configuring Camera Settings using a Web Browser

recordings saved on the microSD card, use L-View or the iPhone, iPad, or Android apps.

To configure microSD card recording:
1. Make sure a microSD card (not included) is inserted into the camera. It is recommended to format the microSD card before using it with the camera.
2. Select one of the following recording options:
   - Always Recording: Record continuously, all the time to microSD card.
   - Schedule Recording: Record according to the settings set in the Schedule.
   - Disable Recording: Do not record.
3. Under **When disk space full**, select **Overwrite** for the camera to record over the oldest recordings when the microSD card is full or select **Stop recording** for the camera to stop recording when the microSD card is full.
4. Click **Save & Apply**.

7.4.4 SCHEDULING (CONFIGURING RECORDING AND ALARM SCHEDULES)

Configure schedules for recording and alarms. Schedules can be configured separately
for alarms and recording. You can configure up to 12 schedules.

To create a schedule for alarms or recording:
1. First, you must enable alarms or recording to use the schedule.
2. Check which alarm or recording types will use this schedule:
   - **Email/ftp Alarm**: Check to use this schedule for Email Alarms. Select \textit{Motion triggered} to send an email alarm based on video motion, select \textit{PIR triggered} to use the PIR motion sensor, or select both.
   - **Speaker Alarm**: Check to use this schedule for Email Alarms. Select \textit{Motion triggered} to create an audio alarm based on video motion, select \textit{PIR triggered} to use the PIR motion sensor, or select both.
   - **SD Card Recording**: Check to use this schedule for microSD recording. Select \textit{Continuous} for the camera to record to microSD continuously during the scheduled time. Select \textit{Motion triggered} to record when video motion is triggered during the scheduled time, select \textit{PIR triggered} to record when the PIR motion sensor is triggered during the scheduled time or select both.
3. Select one of the following to configure the times that will be used for this schedule:
   - **Every week**: Create a weekly recording schedule. Check the days you would like the schedule to apply to. Under \textbf{During time}, enter the start time for the schedule on the left and the end time for the schedule on the right.
   - **Every day**: Create a daily recording schedule. Under \textbf{During time}, enter the start time for the schedule on the left and the end time for the schedule on the right.
   - **Fixed time**: Create a one time schedule (for example, if you are going on vacation, and would like to record all the time). Under \textbf{Start time}, enter the exact date and time when you would like the schedule to start and enter the \textbf{End time}. 

\begin{table}[h]
\centering
\begin{tabular}{|c|c|}
\hline
\textbf{Alarm Type} & \textbf{Recording Type} \\
\hline
- Email/ftp Alarm & \begin{itemize}
  \item Motion triggered
  \item PIR triggered
\end{itemize} \\
\hline
- Speaker Alarm & \begin{itemize}
  \item Motion triggered
  \item PIR triggered
\end{itemize} \\
\hline
- SD Card Recording & \begin{itemize}
  \item Continuous
  \item Motion triggered
  \item PIR triggered
\end{itemize} \\
\hline
\end{tabular}
\caption{Configuring Camera Settings using a Web Browser}
\end{table}
4. Click **Add Schedule**.

**To delete a schedule:**
1. Existing schedules are shown at the top of the page. Click **Delete** next to the schedule you want to delete.

2. **To edit a schedule:**
   1. Click **Edit** next to the schedule you want to delete.
   2. Edit the schedule settings as needed.
   3. Click **Update Schedule**.

**7.5 ADMIN**

Configure the camera date and time, passwords, and LEDs. Restart the camera. Perform system upgrades.

**7.5.1 ADMIN LOGIN**

Configure the admin user name and password for the camera. The admin user name and
password are used to login to Web Configure. Configure the web access port.

To configure the admin user name and password used to login to Web Configure:
1. Under **Username**, enter the desired admin user name for the camera. The default is **admin**.
2. Under **Password**, enter the desired admin password for the camera. By default, the password field is left blank when logging in. Repeat the password under **Password confirm**.
3. Click **Save & Apply** to apply the settings to the camera. Restart the camera by disconnecting and reconnecting the power adapter or pressing the Reboot button (see “Reboot” on page 133).

To configure the Web access port (advanced users only):
You do not need to change the Web access port unless you have multiple cameras on the same network and wish to access Web Configuration for them from a remote location (i.e. over the Internet).

If you wish to access Web Configuration over the Internet, you must port forward the Web access port on your router to the camera’s IP address (see your router’s instruction manual for details), and connect to **http://**, the **public IP address of the camera, colon** (:), and the **camera’s web access port** (e.g. **http://245.54.112.12:80**).
Configuring Camera Settings using a Web Browser

1. Under **Web access port**, enter the desired web access port. It must not be used by any other device on your network. Note that L-View will automatically update the web access port when connecting to Web Configure on the local network.

2. Click **Save & Apply**. Restart the camera by disconnecting and reconnecting the power adapter or pressing the Reboot button (see “Reboot” on page 133).

### 7.5.2 LED CONTROL

Configure the behavior of the camera power and network LED’s. This is useful if you want the camera to be harder to spot at night.

![LED Control Configuration](image)

**NOTE:** This does not affect the SD LED. Removing the microSD card will turn off the SD LED, but it will also disable microSD recording.

**To configure the status and network LED’s:**

1. Select one of the following:
   - **Normal LED display:** Status and network LED’s will function as normal. For details on LED functions, see “Camera Overview” on page 1.
   - **Turn off LED display always:** Status and network LED’s are turned off at all times.
   - **Turn off LED display after network connected:** Status and Network LED’s turn on when the camera is powered on and turn off once a network connection is made.

2. Click **Save & Apply** to apply settings to the camera.
7.5.3 DATE/TIME

Configure the camera date and time. The camera syncs with an Internet NTP time server to automatically provide the correct time, once you have configured your time zone and daylight savings time settings.

To set the camera date and time:
1. Under Time Zone, select your time zone.
2. Select Enable under Daylight Savings Time if your region observes Daylight Savings Time. Configure the Start Time and End Time for Daylight Savings Time if needed.
3. Click Save & Apply to apply settings to the camera.

7.5.4 UPGRADE

Upgrade the camera firmware. When firmware upgrades are released, they will be available as a free download from www.lorextechnology.com.

**NOTE:** Your computer must be on the same network as the camera to upgrade the firmware.

To upgrade the camera firmware:

2. In L-View, right-click on the camera in Auto Search and click Web Configure.

3. Type the camera admin User Name (default: admin) and Password (default: left blank) and click Ok to log into the camera.

4. Click Admin then click Upgrade.

5. Select Upgrade from local file.

6. Click Browse, locate the firmware upgrade file, and then click Open.

7. Click Upgrade. Wait for the firmware upgrade to complete. Do not disconnect the power or network cable during the firmware upgrade. The camera will reboot once firmware upgrade is complete.
7.5.5 REBOOT

Restart the camera from your Internet browser. This is useful if you need to restart the camera to apply settings changes or if the camera requires an error.

To restart the camera:
1. Press the **reboot** button.
8. TECHNICAL SPECIFICATIONS

As our product is subject to continuous improvement, Lorex Technology & subsidiaries reserve the right to modify product design, specifications & prices without notice and without incurring any obligation.
9. CLEANING AND DISPOSAL

Clean camera with a slightly damp cloth or an anti-static cloth. Never use cleaning agents or abrasive solvents.

- Do not clean any part of the product with cleaners with thinners or other solvents and chemicals. This may cause permanent damage to the product which is not covered by the warranty. When necessary, clean it with a damp cloth.
- Keep your camera and monitor away from hot, humid, or wet areas or strong sunlight.
- Every effort has been made to ensure high standards of reliability for your video monitor. However, if something does go wrong, please do not try to repair it yourself. Contact customer service for assistance.

Disposal of the Device

At the end of the product lifecycle, you should not dispose of this product with normal household waste, but take the product to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, User’s Guide, and/or box indicates this.

Some of the product materials can be re-used if you take them to a recycling point. By reusing some parts or raw materials from used products you make an important contribution to the protection of the environment.

Please contact your local authorities in case you need more information on the collection points in your area. Dispose of the battery pack in an environmentally-friendly manner according to your local regulations.
10. NOTICES

Warning: Any changes or modifications not expressly approved by the grantee of this device could void the user’s authority to operate the device.

FCC Notice
This device complies with Part 15, subpart C, of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user’s authority to operate the equipment.

However, it is imperative that the user follows the guidelines in this manual to avoid improper usage which may result in damage to the unit, electrical shock and fire hazard injury. In order to improve the features, functions, and quality of this product, the specifications are subject to change without notice from time to time.

Caution: To maintain compliance with the FCC’s RF exposure guidelines, place the camera at least 20cm (7.87in) from nearby persons.

IC Notice
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received, including interference that may cause undesirable operation.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes: (1) l’appareil ne doit pas produire de brouillage, et (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.
11. WALL OR CEILING MOUNTING

11.1 INSTALLATION TIPS AND WARNINGS

- **Camera is rated for indoor use only.** Do not install in wet or humid areas.
- Do not point the camera out of a window. The camera will not be able to see at nighttime due to reflection from the Infrared LED.
- Temporarily connect the camera and test it before permanent installation.
- If using the camera with a wireless network, set up the camera’s wireless connection before permanent installation.
- Make sure that power adapter cable and ethernet cable (if connecting the camera using ethernet) are long enough to reach the installation location.

11.2 INSTALLATION

1. Use the camera mounting stand to mark holes for the mounting screws. If you are installing the camera in the ceiling, the screw holes should face the same direction that you would like the camera to point.
2. Drill holes for the mounting screws. If installing in drywall, it is recommended to use the included drywall anchors.
3. Attach the camera to the wall or ceiling using the included mounting screws. Adjust the camera angle as necessary. See below for suggested stand configurations.

4. Secure the stand position by using a Philipshead screwdriver to tighten the screw connecting the camera to the stand.

5. Connect the power adapter cable and ethernet cable (if connecting the camera using ethernet) to the camera.
12. TROUBLESHOOTING

**WPS Wireless Setup does not work:**
- Connect the camera using Ethernet and manually setup the camera to use WiFi. See “WiFi Setup” on page 18.

**WiFi is not working:**
- Camera has not been setup to use WiFi. Unless your router supports WPS, WiFi setup must be completed while the camera is connected to Ethernet. See “WiFi Setup” on page 18.
- Incorrect password/network information entered. Re-complete WiFi setup and double-check your WiFi network settings.
- Camera is not in range of WiFi router. Move the camera closer to the WiFi router.
- Interference with other wireless devices is affecting signal strength. Move the camera and/or wireless router further away from any cordless telephones or other wireless devices.

**Password required to change settings different than password created:**
- Changing settings requires the admin user name and password for the camera. This is a different password than the one used to connect to the camera for video streaming. By default, the admin user name is admin and the password is left blank.

**Cannot access Camera Settings or setup camera for WiFi on phone or tablet; error message "Get Settings Failed" appears:**
- You cannot modify Camera Settings if the device is connected using 3G. Connect to your WiFi network instead.
- Connected to different local network than camera. You must be on the same local network as the camera to change Camera Settings. This means that you must connect both your phone or tablet to the same router as the camera, either through WiFi or Ethernet.
Troubleshooting

Forgot Password for Camera:
• Press and hold the Reset button under the camera for 4 or more seconds to reset the camera to factory default settings. The password will reset to the default password lorex.

Camera does not appear in Auto Search or Local Search:
• Camera may be on different network than computer. Press + next to camera list and enter the camera ID and password manually. If this does not work, check the network connection.

Cannot access Web Configure on PC:
• Camera may be on different network than computer. Connect the camera and computer to the same network (i.e. the same router).

Bright spot in video when viewing camera at night:
• Night vision reflects when pointing a camera to a window. Move the camera to a different location.