About This Guide

Icon Descriptions

While reading through the User Guide you may see various icons that call attention to specific items. Below is a description of these icons:

- **NOTE:** This check mark indicates that there is a note of interest and is something that you should pay special attention to while using the product.

- **WARNING:** This exclamation point indicates that there is a caution or warning and it is something that could damage your property or product.

- **WEB:** This globe icon indicates a noteworthy website address or e-mail address.

Online Resources

Website addresses in this document are listed without `http://` in front of the address because most current web browsers do not require it. If you use an older web browser, you may have to add `http://` in front of the web address.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linksys</td>
<td><a href="http://www.linksys.com">www.linksys.com</a></td>
</tr>
<tr>
<td>Linksys International</td>
<td><a href="http://www.linksys.com/international">www.linksys.com/international</a></td>
</tr>
<tr>
<td>Glossary</td>
<td><a href="http://www.linksys.com/glossary">www.linksys.com/glossary</a></td>
</tr>
<tr>
<td>Network Security</td>
<td><a href="http://www.linksys.com/security">www.linksys.com/security</a></td>
</tr>
</tbody>
</table>

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Chapter 1: Product Overview

Thank you for choosing the Linksys Wireless-G Internet Home Monitoring Camera. The Camera sends live video through the Internet to a web browser anywhere in the world! This compact, self-contained unit lets you keep an eye on your home, your kids, your workplace—whatever’s important to you.

Front Panel

- **Power LED**
  - (Blue) This LED lights up when the Camera is powered on. It flashes while the Camera is booting up and remains lit when the Camera is ready for use.

- **Microphone**
  - The microphone is used to record the ambient sound.

Back Panel

- **Power**
  - The Power port is where you will connect the power adapter.

- **Ethernet**
  - The Ethernet port is where you connect the Ethernet network cable.

WARNING:
Resetting the Camera will erase all of your settings, such as encryption information, and replace them with the factory defaults. Do not reset the Camera if you want to retain your settings.

NOTE:
The Camera’s factory default settings are:
Username: admin
Password: admin
Chapter 2: Wireless Security Checklist

Wireless networks are convenient and easy to install, so homes with high-speed Internet access are adopting them at a rapid pace. Because wireless networking operates by sending information over radio waves, it can be more vulnerable to intruders than a traditional wired network. Like signals from your cellular or cordless phones, signals from your wireless network can also be intercepted. Since you cannot physically prevent someone from connecting to your wireless network, you need to take some additional steps to keep your network secure.

1. Change the default wireless network name or SSID

Wireless devices have a default wireless network name or Service Set Identifier (SSID) set by the factory. This is the name of your wireless network, and can be up to 32 characters in length. Linksys wireless products use `linksys` as the default wireless network name. You should change the wireless network name to something unique to distinguish your wireless network from other wireless networks that may exist around you, but do not use personal information (such as your Social Security number) because this information may be available for anyone to see when browsing for wireless networks.

2. Change the default password

For wireless products such as access points, routers, and gateways, you will be asked for a password when you want to change their settings. These devices have a default password set by the factory. The Linksys default password is `admin`. Hackers know these defaults and may try to use them to access your wireless device and change your network settings. To thwart any unauthorized changes, customize the device’s password so it will be hard to guess.

3. Enable MAC address filtering

Linksys routers and gateways give you the ability to enable Media Access Control (MAC) address filtering. The MAC address is a unique series of numbers and letters assigned to every networking device. With MAC address filtering enabled, wireless network access is provided solely for wireless devices with specific MAC addresses. For example, you can specify the MAC address of each computer in your home so that only those computers can access your wireless network.

4. Enable encryption

Encryption protects data transmitted over a wireless network. Wi-Fi Protected Access (WPA/WPA2) and Wired Equivalency Privacy (WEP) offer different levels of security for wireless communication.

A network encrypted with WPA/WPA2 is more secure than a network encrypted with WEP, because WPA/WPA2 uses dynamic key encryption. To protect the information as it passes over the airwaves, you should enable the highest level of encryption supported by your network equipment.

WEP is an older encryption standard and may be the only option available on some older devices that do not support WPA.

General Network Security Guidelines

Wireless network security is useless if the underlying network is not secure.

- Password protect all computers on the network and individually password protect sensitive files.
- Change passwords on a regular basis.
- Install anti-virus software and personal firewall software.
- Disable file sharing (peer-to-peer). Some applications may open file sharing without your consent and/or knowledge.

Additional Security Tips

- Keep wireless routers, access points, or gateways away from exterior walls and windows.
- Turn wireless routers, access points, or gateways off when they are not being used (at night, during vacations).
- Use strong passphrases that are at least eight characters in length. Combine letters and numbers to avoid using standard words that can be found in the dictionary.

WEB: For more information on wireless security, visit [www.linksys.com/security](http://www.linksys.com/security)
Chapter 3: Setting Up and Mounting the Camera

Setup Wizard

The Wireless-G Internet Home Monitoring Camera Setup Wizard will guide you through the installation and configuration procedure.

1. Insert the Setup CD-ROM into your CD-ROM drive. The Setup Wizard should run automatically, and the Welcome screen should appear. If not, click Start, then select Run, and then in the field provided, enter D:\SetupWizard.exe (if “D” is the letter of your CD-ROM drive).

2. The Setup Wizard displays the following options.
   - Setup Camera: Click this to begin the installation process.
   - Install Camera Utility: Click this to install the Camera Utility on your PC.
   - User Guide: Click this to open the PDF file of this User Guide.
   - Exit: Click this to exit the Setup Wizard.

3. On the End User License Agreement screen, check the box next to I accept the agreement and click Next if you agree and want to continue the installation, or click Exit to end the installation.

4. Connect the included network cable to your network router or switch. Click Next.

5. Connect the other end of the network cable to the Camera’s Ethernet port. Click Next.
6. Plug the included power adapter into the Camera’s Power port. Plug the other end into an electrical outlet. Click Next.

7. Make sure the LED is lit on the Camera’s front panel. If it is not lit, make sure the cables are properly connected to the Camera. Click Next.

8. The Wizard searches for the Wireless-G Internet Home Monitoring Camera on your network, then displays the Camera found along with status information.

If the Camera you want is not displayed, click Search Again to run a new search for Cameras.

Otherwise, in the Camera List box, click the name of the Camera you are installing. Write down the Camera's IP address shown in the Status box, so you can use it to access the Web-based Utility later. Click Next.

9. Enter a name for the Camera. Memorable names are helpful, especially if you are using multiple Cameras on the same network. It should have 15 characters or fewer. After you have entered the name, click Next.

10. Select how to assign an IP Address to the Camera, either automatically or manually. Then click Next.

- **Automatically obtain an IP Address** Select this option if you want to automatically assign an IP address to the Camera using DHCP.

  If you are not sure which option to choose, Linksys recommends this option.

- **Set IP address configuration manually** Select this option if you want to manually assign a static IP address to the Camera.

  If you select this option, fill in the **IP Address**, **Subnet Mask**, and **Gateway** fields.
11. If you want to keep the Camera’s default password (admin), leave the fields unchanged and click Next. If you want to change the password, enter the new password, re-enter to confirm, then click Next.

12. The Wizard will search for wireless networks, then list the wireless networks found. If the wireless network you want to connect to is not listed, click Refresh to update the list. Select the wireless network that you want to connect the Camera to, then click Next.

13. The Wizard displays the wireless security method that your network is using: WPA/WPA2-Personal, WEP (128-Bit), or WEP (64-Bit). Follow the appropriate instructions below. If you are not using wireless security, select Disabled and go to step 14.

- **WPA/WPA2-Personal** Enter a passphrase in the Passphrase field and click Next. The passphrase is case-sensitive and must be from 8 to 63 characters in length.

- **WEP (64-Bit) or WEP (128-Bit)** To generate the WEP key automatically, enter a passphrase in the Passphrase field and click Next. The passphrase is case-sensitive and should not be longer than 16 characters. It must match the passphrase of your other wireless network devices and is compatible with Linksys wireless products only. (If you have any non-Linksys wireless products, enter the WEP key manually on those products.)

To manually enter a WEP key, leave the Passphrase field blank, click Next, and enter the WEP key on the next screen. This WEP key must match the WEP key of your wireless network. For 64-bit WEP encryption, enter exactly 10 hexadecimal characters. For 128-bit WEP encryption, enter exactly 26 hexadecimal characters. Valid hexadecimal characters are “0” to “9” and “A” to “F”. After you have entered the WEP key, click Next.
14. Review the Camera’s settings. To make changes to the settings, click **Back** to go back to the previous screen. If the settings are correct, click **Save** to continue.

15. When the Wizard informs you that the new Camera settings have been saved, click **Continue**.

16. Disconnect the power from the camera. Click **Next**.

17. Disconnect the network cable from the Camera and from your switch or router. Click **Next**.

18. Reconnect the power to the Camera. Click **Next**.

19. The Setup Wizard displays **Camera successfully connected to network**. Click **Continue**, then click **Next** on the following screen.

20. The Congratulations screen appears. Click the desired option.

- **Install Camera Utility**  This installs the Camera’s Utility.
- **Online Registration**  This registers your Camera online.
- **Exit**  Click this to exit the Setup Wizard and install the Camera’s utility later.

**Go to Placement Options, page 10.**
Placement Options
The Camera can stand on a surface or be mounted on a wall. Depending on the positioning you want, you attach the Camera head to its stand at two different points.

Stand Option
Follow these steps to stand the Camera on a surface.
1. Insert the screw end of the stand into the hole on the bottom panel.
2. Tighten the screw and then the thumbscrew.
3. Place the Camera, and adjust the tilt of its head accordingly, as described below in section “Camera Head Tilting”.

Wall Mount Option
You use the Camera’s stand to mount the Camera on a wall. The stand has two wall-mount slots that are spaced 58 mm (2.28 inches) apart.
1. Insert the screw end of the stand into the hole on the back panel.
2. Tighten the screw end and then the thumbscrew.
3. Determine where you want to mount the Camera. Attach two screws to the wall, so that the Camera’s wall-mount slots line up with the two screws.
4. Maneuver the Camera so the screws are inserted into the two slots.
5. Adjust the tilt of its head accordingly, as described below in section “Camera Head Tilting”.
Camera Head Tilting

After the Camera is assembled, you can tilt the Camera head on its ball joint using the lock nut on the camera stand. Loosen the lock nut, tilt the camera head as desired, then tighten the lock nut to secure the position.

The installation of the Wireless-G Internet Home Monitoring Camera is complete. Go to Chapter 4: Installing and Using the Camera Utility, page 12.

For information about advanced configuration using the Camera’s Web-based Utility, go to Chapter 5: Advanced Configuration with the Web-based Utility, page 20.
Chapter 4: Installing and Using the Camera Utility

Overview

This chapter will instruct you on how to install and use the Camera Utility on your PC. The Utility allows you to easily view and record the Camera’s video.

If another Wireless-B or Wireless-G Internet Camera Utility is already installed on your PC, Linksys recommends that you uninstall it before installing this Camera Utility.

**NOTE:** To view video using a web browser, you must use Internet Explorer version 5.5 or higher. The View Video feature will not work with other web browsers. If you do not use Internet Explorer v5.5, use the Camera Utility instead.

Installing the Camera Utility

1. On the Welcome or Congratulations screen of the Setup Wizard, click Install Camera Utility.

2. The Setup Wizard begins to install the Camera Utility. The progress of the installation is displayed.

3. When the Setup Wizard informs you that the installation is complete, click Continue. The Utility will automatically start up and display the Setup screen.

Go to Using the Camera Utility for the First Time, page 12.

Using the Camera Utility for the First Time

The Camera Utility starts up automatically after the Utility is successfully installed. This section describes the steps to follow to set up the Camera.

1. The Camera Utility displays the Setup screen and searches for your Wireless-G Camera.

2. When the Authorization screen appears, enter your User Name and Password:
   - **User Name** Enter admin in this field.
   - **Password** If you did NOT change the password in Step 11 of section “Setup Wizard” in “Chapter 2: Setting Up and Mounting the Camera,” enter admin in this field. Otherwise, enter the new password.

3. Click Save, then Yes to save the Camera’s settings.

To learn how to use the Camera Utility, go to Using the Camera Utility, page 13.

Advanced users: If you want to use the Camera’s Web-based Utility, go to Chapter 5: Advanced Configuration with the Web-based Utility, page 20.
Using the Camera Utility

After the Camera Utility is installed, its icon is displayed on the Desktop and in the System Tray of the Taskbar. To open the Camera Utility, use either icon as follows:

- Double-click the icon on your desktop
- Right-click the icon in the system tray, then click *Wireless-G Internet Home Monitoring Camera*.

When you are finished using the Camera Utility, exit the Utility as follows:

- Close each open Utility window by clicking *Exit* or by clicking the X button in the upper-right corner.
- Right-click the Utility’s system tray icon and select *Exit*.

Monitor Window

After you open the Utility, the *Monitor* window is displayed. The *Monitor* window contains the following sections: *Camera Status*, *Motion Detection Events*, and *Hard Disk Quota*. The viewing area contains video displays for Channels 1-9, video layout controls, and video control buttons.

To display the *Setup* window, click *Setup*. To display the *Playback* window, click *Playback*. To get help information, click *Help*.

Camera Status

This section of the *Monitor* window provides the following status information for all the Cameras the Utility has detected: Camera is being viewed, Camera is being recorded, motion detection is enabled on the Camera:

A blue channel number (1-9) means a Camera has been detected on that channel. Each Camera’s status is given by colored indicators as described in the following table.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Status Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Viewing Status Icon]</td>
<td>Viewing Status: Clear - Camera’s video is not being viewed. Green - Camera’s video is being viewed.</td>
</tr>
<tr>
<td>![Recording Status Icon]</td>
<td>Recording Status: Clear - Camera’s video is not being recorded. Red - Camera’s video is being recorded.</td>
</tr>
<tr>
<td>![Motion Detection Status Icon]</td>
<td>Motion Detection Status: Clear - Camera’s motion detection is disabled. Yellow - Camera’s motion detection is enabled.</td>
</tr>
</tbody>
</table>

Motion Detection Events

If motion detection is enabled, this section of the *Monitor* window lists the most recent motion detection events.

Hard Disk Quota

This section of the *Monitor* window lists information related to the amount of hard disk that is allocated for recorded video.
Viewing Area

The Viewing Area takes up most of the Monitor window. The Viewing Area can have four different layouts, with video windows for one, four, six, or nine Cameras. The layout is selected using the video layout controls described in “Video Layout Controls”.

Multiple-Camera Layouts

In a multiple-Camera layout, one of the video windows is always outlined in green. This indicates the currently selected Camera. The Video Control buttons can be used to perform various functions on the video from this Camera. For information on the video control buttons, refer to Video Control Buttons on page 15.

Channel Number of Selected Camera

The channel number of the selected Camera is indicated below the lower left corner of the Viewing Area. To specify a different Camera as the selected Camera, click on that Camera’s video window.

Each Camera can be displayed using any of the video windows in the layout. To move a Camera from one video window to another, click and drag the Camera’s video window to another video window. The two Cameras originally assigned to each of the two windows will then swap places. This is especially useful for the six-Camera layout, which has one large video window and five smaller ones. A Camera assigned to one of the smaller windows can be quickly enlarged by dragging it to the large window.

To quickly view any Camera’s video at full scale, double-click that Camera’s video window. The layout will change to a single-camera display of the selected Camera’s video.

Video Layout Controls

This section of the Monitor window lets you change the layout of the viewing area. To select a particular layout, click the layout’s icon.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Icon" /></td>
<td>Click this icon to display video from one Camera only.</td>
</tr>
<tr>
<td><img src="image2" alt="Icon" /></td>
<td>Click this icon to display video from up to four Cameras. The video windows are all of equal size.</td>
</tr>
<tr>
<td><img src="image3" alt="Icon" /></td>
<td>Click this icon to display video from up to six Cameras, with one large video window and five small video windows.</td>
</tr>
<tr>
<td><img src="image4" alt="Icon" /></td>
<td>Click this icon to display video from up to nine Cameras. The video windows are all of equal size.</td>
</tr>
</tbody>
</table>
Chapter 4
Installing and Using the Camera Utility

Video Control Buttons

The video control buttons are located along the lower left edge of the viewing area. These buttons act upon the selected Camera as explained below.

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>![View Icon]</td>
<td><strong>View</strong> Click this button to view the current video.</td>
</tr>
<tr>
<td>![Record Icon]</td>
<td><strong>Record</strong> Click this button to record* the current video.</td>
</tr>
<tr>
<td>![Snapshot Icon]</td>
<td><strong>Snapshot</strong> Click this button to take a snapshot of the current video image.</td>
</tr>
<tr>
<td>![Zoom Icon]</td>
<td><strong>Zoom</strong> Click this button to zoom into current video display. The zoom factor cycles through 1x, 2x, and 4x.</td>
</tr>
<tr>
<td>![Flip Icon]</td>
<td><strong>Flip</strong> Click this button to flip the current video display top-to-bottom.</td>
</tr>
<tr>
<td>![Mirror Icon]</td>
<td><strong>Mirror</strong> Click this button to reverse the current video display left-to-right.</td>
</tr>
<tr>
<td>![Sound Icon]</td>
<td><strong>Sound</strong> Click this button to toggle the sound on or off.</td>
</tr>
<tr>
<td>![Volume Icon]</td>
<td><strong>Volume</strong> Slide this bar upward to increase the volume. Slide the bar downward to decrease the volume.</td>
</tr>
</tbody>
</table>

* During recording, the Utility’s System Tray icon turns into an animated icon (arrow moves up and down). When recording ends, the icon reverts to its original state.

Playback Window

The **Playback** window is used to play back videos that you have recorded and saved.

Video Selection

This section of the **Playback** window lets you select the video(s) for playback.

**Open Video** Click this button if you want to select the folder containing the videos on your computer. Otherwise, use the remaining fields to select the video from the default recording folder (indicated by the **Recording Path** field of the **Setup > Preferences** screen).

**Select Camera** Select the Camera that recorded the video.

**Recording Methods** Specify the criteria to be used to select the video for the selected Camera:
- **All Records** Displays all recorded videos for the selected Camera.
- **Select Period** Limits the video selections to the range defined by Start Date/Time and End Date/Time.
- **Motion Detection** Limits the selections to videos that were recorded as a result of motion detection.

If the **Recording Methods** field is set to **Select Period**, define the date and time period by filling in the following fields.
- **Start Date** Specify the starting date in mm-dd-yyyy format.
- **Start Time** Specify the starting time in hh:mm:ss format.
- **End Date** Specify the ending date in mm-dd-yyyy format.
- **End Time** Specify the ending time in hh:mm:ss format.

**Play** Click this button to begin playing the selected videos.
Basic Video Controls

This section of the Playback window lets you perform basic functions on the video(s) you have selected for playback. The controls and their functions are described below.

<table>
<thead>
<tr>
<th>Control</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Play</td>
<td>Click this button to play the video.</td>
</tr>
<tr>
<td>Pause</td>
<td>Click this button to pause the video.</td>
</tr>
<tr>
<td>Frame by Frame</td>
<td>Click this button to play exactly one video frame. Each</td>
</tr>
<tr>
<td></td>
<td>successive click advances playback exactly one frame.</td>
</tr>
<tr>
<td>Stop</td>
<td>Click this button to stop video playback.</td>
</tr>
<tr>
<td>Snapshot</td>
<td>Click this button to capture a still image of the current</td>
</tr>
<tr>
<td></td>
<td>video display.</td>
</tr>
<tr>
<td>Zoom In</td>
<td>Click this button to zoom in on the video display.</td>
</tr>
<tr>
<td>Zoom Out</td>
<td>Click this button to zoom out of the video display.</td>
</tr>
<tr>
<td>Print</td>
<td>Click this button to print the current video image.</td>
</tr>
<tr>
<td>Playback Speed</td>
<td>Slide this bar to adjust the playback speed. Slide it to the</td>
</tr>
<tr>
<td></td>
<td>left for slower playback or to the right for faster</td>
</tr>
<tr>
<td></td>
<td>playback.</td>
</tr>
<tr>
<td>Sound</td>
<td>Click this button to turn the sound on or off.</td>
</tr>
<tr>
<td>Volume</td>
<td>Slide this bar to adjust the sound volume. Slide it to the</td>
</tr>
<tr>
<td></td>
<td>left to lower the volume or to the right to raise the</td>
</tr>
<tr>
<td></td>
<td>volume.</td>
</tr>
</tbody>
</table>

Hard Disk Quota

This section of the Playback window indicates how much hard disk is allocated for recorded video.

Advanced Video Controls

Advanced video functions are performed using the advanced video controls. These controls are located below the viewing area and consist of two buttons and three markers. Each marker displays the date and time of a specific point in the video. If you reposition a marker, the displayed date and time will change accordingly.

<table>
<thead>
<tr>
<th>&lt;mm/dd/yyyy hh:mm:ss&gt;</th>
<th>This marker displays the date and time of the current point</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>in the video. As playback proceeds, this marker moves to</td>
</tr>
<tr>
<td></td>
<td>the right. To immediately move to another point in the video,</td>
</tr>
<tr>
<td></td>
<td>slide this marker to the desired point.</td>
</tr>
<tr>
<td>&lt;mm/dd/yyyy hh:mm:ss&gt;</td>
<td>This marker is used to select the starting point for</td>
</tr>
<tr>
<td></td>
<td>playback. By default this marker is always set to the start</td>
</tr>
<tr>
<td></td>
<td>of the video. If you want to start playback at a later</td>
</tr>
<tr>
<td></td>
<td>point in the video, move this marker to the right.</td>
</tr>
<tr>
<td>&lt;mm/dd/yyyy hh:mm:ss&gt;</td>
<td>This marker is used to select the ending point for</td>
</tr>
<tr>
<td></td>
<td>playback. By default this marker is always set to the end</td>
</tr>
<tr>
<td></td>
<td>of the video. If you want to stop playback at an earlier</td>
</tr>
<tr>
<td></td>
<td>point in the video, move this marker to the left.</td>
</tr>
</tbody>
</table>

Other Buttons

Click Monitor to open the Monitor window. Click Help to display help information.
Setup Screen

The Setup screen is accessed by clicking the Setup button on the Monitor window of the Camera Utility. There are four tabs along the left side of the Setup screen: Network Camera, Internet Camera, Recording Schedule, and Preferences. By default, the Network Camera tab is selected when the Setup screen is opened. These tabs display screens whose functions are described below.

Setup > Network Camera

Click the Network Camera tab to set up a network Camera.

The upper section of the Setup > Network Camera screen contains a list of all Wireless-G Cameras that have been detected (up to 9). The Camera Details section of the screen provides information about the selected Camera.

Camera List

Enable  Check this box to enable the Camera. Uncheck the box to disable the Camera.

Camera Name  Displays the name of the Camera.

IP Address  Displays the Camera's IP address.

Port Number  Displays the Camera's port number.

Motion Detection Recording  Indicates if motion detection recording is enabled or disabled.

Camera Details

Camera Name  Displays the name of the Camera that you specified while running the Setup Wizard.

MAC Address  Displays the Camera’s MAC address.

IP Address  Displays the Camera’s IP address.

Port Number  Displays the Camera's port number.

User Name and Password  Displays the user name. The password is displayed as “•••••” for security reasons.

Enable Motion Detection  To enable motion detection recording, check this checkbox. The default is disabled.

Click Advanced Configuration to open the Web-based Utility. Click Save to save your changes, or click Exit to exit without saving changes. Click Help to display help information.

Setup > Internet Camera

To set up a Camera located on the Internet, click the Internet Camera tab, then fill in the fields and click Add.

Camera Name  Enter the name assigned to the Camera.

MAC Address  Enter the Camera’s MAC address.

IP Address  Enter the Camera’s IP address.

Port Number  Enter the Camera’s port number.

User Name and Password  Enter the Camera’s user name and password.

Stream Type  Select either MJPEG or MPEG4 (default).

Enable Motion Detection Recording  Check the box to enable motion detection recording. The default is disabled.

Add  After you have entered all of the information for the Camera, click this button to add the Camera to the list.

Advanced Configuration  Click this button to open the Web-based Utility in your web browser.

Click Advanced Configuration to open the Web-based Utility. Click Exit to exit without saving your changes. Click Help to display help information.
Setup > Recording Schedule

To set up a recording schedule for a Camera, then click the Recording Schedule tab.

To schedule a recording for a Camera, follow these steps.

1. Fill in the following fields.
   - **Select a Camera** Select the Camera that will be recorded from the drop-down menu.
   - **Schedule Interval** Select the days on which you want the Camera to record. The choices are One Time, Every Day, Mon-Fri, Sat-Sun, Sun, Mon, Tue, Wed, Thu, Fri, and Sat. (All settings except One Time cause recording to occur on a recurring basis.)
   - **Start Date (mm-dd-yyyy)** Enter the date to start the recording, in mm-dd-yyyy format.
   - **Start Time (hh:mm)** Enter the time to start the recording, in hh:mm format.
   - **Duration (hh:mm)** Enter the duration of the recording in hh:mm format.

2. Click **Add** to save the new scheduled recording information.

3. The scheduled recording will appear in the list of scheduled recordings at the top of the screen.

   To delete a scheduled recording, select the recording from the list, and click **Delete**.

   Click **Help** to display help information. Click **Exit** to exit without saving your changes.

Memory Requirements for Video Recordings

You may find it helpful to know how much memory is required to hold a video recording. For information on estimated bit rates for a typical video recording at each available resolution and video, refer to **Setup > Image**, page 23.

**NOTE:** In order for the scheduled recordings to occur, the Camera Utility must be running on a networked PC.

**NOTE:** The maximum length of a recording file is one hour. If a recording is more than one hour long, then multiple files will be saved.

Setup > Preferences

To configure the Camera's preference settings, click the Preferences tab.

The **Setup > Preferences** screen allows you to configure the following settings.

**Recording Path**

**Recording** This is the drive and folder where recorded video files will be saved on your computer. The default is C:\Program Files\Wireless-G Internet Home Monitoring Camera\storage.
Instant Recording Time Limit

**Maximum Time Limit for Instant Recording** This is the maximum length of a recording that is started by clicking the Record button on the Monitor window. The default is **10 min**.

Motion Detection

The following two settings apply only if the Motion Detection Recording feature is enabled.

- **Record before motion detected** This is the length of time **prior** to the detection of motion that will be saved with the recording. Having this additional footage can help to show the motion more clearly when it occurs.

- **Record after motion detected** This is the length of time that the Camera will continue to record after motion is detected.

Disk Allocation for Each Camera Recording

**Total Disk Space** This is the total amount of storage space on your PC's hard drive.

**Available Disk Space** This is the total amount of remaining storage space on your PC's hard drive.

**Enable Diskspace Limitation** If you want to limit the amount of disk space used by each Camera, check this box, then fill in the fields below.

- **Maximum allowed space per camera** Enter the maximum allowed space per camera in MB. The default is **1000** MB.

- **When allowed space is full** Select the action to take when the space limit is reached, either **Overwrite earliest file** (default), or **Stop recording**.

Initial Settings

**Launch this Utility when Windows started** Check this box if you want to have this utility started automatically whenever Windows is started.

Click **Save** to save any settings you have changed on the screen, or click **Exit** to exit without saving your changes. Click **Help** to display help information.

If you want to use the Camera’s Web-based Utility, go to “Chapter 4: Advanced Configuration with the Web-Based Utility.”
Chapter 5: Advanced Configuration with the Web-based Utility

Overview

Use the Camera's Web-based Utility to access and alter its settings. This chapter will describe each web page in the Utility and its features. The Utility can be accessed via the web browser of a computer connected to the Camera.

How to Access the Web-based Utility

You can access the Utility using either of these methods.

- Launch Internet Explorer, and enter the Camera's IP address in the Address field. Then press Enter.

  ![Enter the Camera’s IP Address](http://192.168.1.100)

- From the Monitor window of the Camera Utility, select the Camera, then click the Setup button. (For instructions on how to launch the Camera Utility, refer to Using the Camera Utility, page 13.

The Welcome screen of the Web-based Utility will appear.

1. Click the View Video tab on the Welcome screen.

   **NOTE:** To view video using a web browser, you must use Internet Explorer version 5.5 or higher. The View Video feature will not work with Netscape. Netscape users should use the Camera Utility instead.

2. The View Video screen appears, showing the live video from the Camera.

View Video

The top of the View Video screen contains a number of controls that are used to adjust the video display. These controls and their functions are described in the sections below.

There are four selectable tabs across the top of the View Video screen: Home, LinksSy Web, Help, and Exit.

- **Home** – Select this tab to return to the Welcome screen.
- **View Video** – Select this tab to view the Camera’s video. Go to View Video, page 20 for more information.
- **Setup** – Select this tab to alter the Camera’s settings. Go to the appropriate section (Setup > Basic, page 22, Setup > Image, page 23, Setup > Administration, page 24, Setup > Users, page 25, Setup > Options, page 25, Setup > Motion Detection, page 27, or Setup > Status, page 28) for more information.
- **Help** – Select this tab to display the Help screen. Go to the “Help” section for more information.
- **Exit** – Select this tab to close the Utility.

Wireless-G Internet Home Monitoring Camera
Resolution

Use the Resolution drop-down menu to select the display resolution. Possible values are Auto (default), 640x480, 320x240, or 160x120. The display changes to the new resolution immediately after it is selected.

Snapshot

You use the Snapshot button to capture a still image of the video display.

When you click this button, the Snap Shot window appears. Click Save to save the image, or click Cancel to exit without saving the image.

Zoom Factor

You use the Zoom button to zoom in and out of the displayed video.

When you click the button, the cursor changes to a magnifying glass labeled with the current zoom factor (cycles through 1x, 2x, and 4x). Position the cursor over the part of the image you want to magnify and click once.

Audio

Use the Audio button to toggle the sound on or off from the Camera’s built-in microphone. The button’s appearance indicates whether the sound is on or off. When the sound is on, you can adjust the volume by sliding the volume control to the left to lower the volume, or to the right to increase the volume.

Video Format

To select the video format, click the Video Format button, and the Video Format window appears. Select either MPEG-4 or MJPEG, then click Save. To exit without saving, click the X in the upper-right corner of the window.
**Setup > Basic**

The Setup > Basic screen appears when you click the Setup tab or Advanced Configuration on the Welcome screen. The Setup > Basic screen allows you to alter the Camera’s Device settings, Network settings, Wireless settings, and Security settings.

![Setup > Basic Screen](image)

Edit the settings on this screen as needed. Then, to save your changes, click Apply. To cancel any unsaved changes, click Cancel. To get additional information about the screen’s features, click Help.

**Device Settings**

- **Camera Name** You may assign the Camera any name up to 15 characters long. Unique, memorable names are helpful, especially if you use multiple Cameras on the same wireless network.
- **Description** Enter information about the Camera in this field. You can enter up to 32 characters.
- **LED Operation** This feature allows you to enable or disable the Camera’s LED.
- **Current Date/Time** This displays the Camera’s current date and time. If it is incorrect, click Sync with PC to use your computer’s date and time.
- **Time Zone** Select the time zone for the Camera’s location.
- **Adjust for Daylight Saving Time** Select this to adjust the Camera’s current time for Daylight Saving Time.

**Network Settings**

- **Configuration Type** If you want to automatically assign the Camera an IP address from a DHCP server, then select Obtain Address Automatically (DHCP) (default). If you want to assign the Camera a static IP address, then select Fixed IP Address, and complete the IP Address, Subnet Mask, Gateway, Primary DNS and Secondary DNS fields.
- **IP Address, Subnet Mask, Gateway, Primary DNS, Secondary DNS** Complete these fields if you want to assign the Camera a static IP address. You need to enter at least one DNS address.

**Wireless Settings**

- **SSID** Enter the network’s SSID or network name here.
- **Network Type** Select the network’s mode, Ad-hoc or Infrastructure.
- **Channel No** If the Camera is set to Ad-hoc mode, select its channel setting from the drop-down menu.
- **Security** Click Edit Security Settings to display the Wireless Security screen.

**Setup > Basic > Wireless Security**

The Wireless Security screen is used to configure the Camera’s wireless security settings to match your wireless network settings. The settings are as follows.

**Security Mode** Select the wireless security mode used by your wireless network:

- **Disable** (no wireless security)
- **WEP**
- **WPA/WPA2 Personal**.

The method selected determines which other fields are displayed on the screen. The different security modes and the fields that accompany them are described in detail below.

- **Disable**

This option implements no security on your wireless network. Data is not encrypted before transmission.

![](image)

**WEP**

WEP is a basic encryption method, which is not as secure as later methods such as WPA-Personal or WPA2 Personal. However, it is supported by all clients.
Chapter 5

Advanced Configuration with the Web-based Utility

Setup > Image

The Setup > Image screen allows you to alter the Camera’s video settings.

MPEG4 Settings

Resolution Set the resolution for viewing and recording the Camera’s video: 640x480 (high resolution) 320x240 (medium resolution), or 160x120 (low resolution).

Video Quality Control Select either Constant Bit Rate or Fixed Quality for the video stream.

• Constant Bit Rate Select the bit rate you want for viewing or recording the Camera’s video. The range varies from 64 Kbps to 1.2 Mbps.

• Fixed Quality Select the level of quality you want for viewing or recording the Camera’s video. The range varies from Very Low to Very High.

Max Frame Rate Select the maximum frame rate for the camera. Reducing this lowers the amount of bandwidth required by the camera. The range is from 1 to 30.

MJPEG Settings

Resolution Set the resolution for viewing and recording the Camera’s video: 640x480 (high resolution) 320x240 (medium resolution), or 160x120 (low resolution).

Fixed Quality Select the level of quality you want for viewing or recording the Camera’s video. The range varies from Very Low to Very High.

Max Frame Rate Select the maximum frame rate for the camera. Reducing this lowers the amount of bandwidth required by the camera. The range is from 1 to 30.

NOTE: Video quality and/or performance may be affected by the number of users connected to the Camera.

It may be helpful to know the bit rates for video viewing or recording at different resolutions and image quality levels. The following table lists these estimated bit rates.

Wireless Security

- TX Key Select the number of the key used on the wireless network.

- WEP Encryption Select the appropriate option for key length based on your network settings.

- Passphrase Type in the passphrase used to generate WEP keys on your network and click Generate.

- Key 1 - Key 4 Key values can be entered manually or generated from a passphrase.

- Authentication Select the appropriate authentication type used on the wireless network.

- WPA/WPA2 Personal
  This method offers TKIP encryption with dynamic encryption keys.

- Shared Key Enter the shared key of 8 to 63 characters that will be used to access the wireless network.

When you are finished editing the Camera’s wireless security settings, click Apply to save your changes and return to the Setup > Basic screen. Click Cancel at any time to cancel any unsaved changes and return to the Setup > Basic screen. To get additional information about the screen’s features, click Help.
Estimated Bit Rates for Video Viewing or Recording

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Quality Level</th>
<th>Bit Rate in kbps</th>
</tr>
</thead>
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<td>4000</td>
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<tr>
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<td>Low</td>
<td>100</td>
</tr>
<tr>
<td>160 x 128</td>
<td>Very Low</td>
<td>40</td>
</tr>
</tbody>
</table>

Mobile Settings

**Enable Mobile Streaming**  Select this option to enable video streaming to a mobile device.

Video Adjustments

**Power Line Frequency**  Select the power line frequency (50Hz or 60Hz) used in your region, to improve the picture quality under fluorescent lighting.

**White Balance**  Select the desired option to match the current environment and lighting.

**Brightness**  If necessary, you can adjust the brightness to obtain a better image. For example, if the camera is facing a bright light, the image may be too dark. In this case, you can increase the brightness. You can select a Brightness value between -3 and 3.

**Sharpness**  Select the desired option for the sharpness. You can select a Sharpness value between -3 and 3.

Options

**Enable Microphone**  Select this to enable audio. Using Audio increases the bandwidth requirements slightly.

**Enable Time Stamp**  Select this to display a time stamp on the video.

**Enable Text Display**  To display text on the video, select this, then enter up to 20 characters in the field.

To save your changes, click **Apply**. To cancel any unsaved changes, click **Cancel**. To get additional information about the screen’s features, click **Help**.

Setup > Administration

The **Setup > Administration** screen allows you to change the Camera’s login name and password, reset the factory defaults, upgrade the firmware, and set the language.

Login

These fields are used to change the login name and password used to access the Camera. For security purposes, you should change these from the default values (both set to admin).

**Login Name**  Enter the login name for the Camera.

**Password**  Enter the password for the Camera.

**Verify Password**  Re-enter the password to verify.

Restore Factory Defaults

**Restore Defaults**  To restore the Camera to its factory default settings, click **Restore Defaults**.

**NOTE:** This will overwrite the Camera’s settings with the factory defaults. Any changes you made to the Camera’s settings will be lost; you will not be able to recover them.

Firmware Upgrade

**Upgrade Firmware**  New firmware versions are posted at [www.linksys.com](http://www.linksys.com) and can be downloaded for free. If the Camera is functioning satisfactorily, there is no need to download a newer firmware version, unless that version has a new feature that you want to use. Loading new firmware onto the Camera does not always enhance its performance.

Linksys recommends that you upgrade the Camera’s firmware within your network; in other words, use a computer within the Camera’s local network. If you attempt to upgrade the Camera’s firmware from a remote location—using a computer outside of the Camera’s local network—the upgrade will fail.
To upgrade the firmware:

1. Go to www.linksys.com, and download the firmware upgrade file for the Camera. Then extract the file.
2. From the Setup > Administration screen, click Upgrade Firmware.
3. You will see the Upgrade Firmware screen. Click Browse to find the extracted file, and then double-click it.
4. Click Start Upgrade, and follow the on-screen instructions. To cancel the upgrade, click Cancel.

**Setup > Users**

The Setup > Users screen lets you specify which Camera users are allowed to view the Camera’s video.

**Users Settings**

Use this to assign access rights to the Camera’s users.

- **Allow access by** Select how access is to be granted, either All users or Only users in database. If you select Only users in database, edit the user database as needed, as described below.
- **Users** This lists the user database (the users who have access to the Camera).

**Editing the Database**

To add a user to the database:

1. Enter the user’s name in the User Name field.
2. Enter the password in the Password and Confirm Password fields.
3. Click Add User to save the user in the database.

To edit a user’s record in the database:

1. Select the user from the Users list, then click Edit.
2. Edit the User Name and/or Password as needed.
3. Click Add User to save the updated information.

**Other operations:**

- **Clear** While editing a user’s information, click Clear to clear the User Name, Password, and Confirm Password fields and start over.
- **Delete** To delete a user’s record from the database, select the user from the list, then click Delete.
- **Delete All** To clear the database, click Delete All, then click OK to confirm.

To save your changes, click Apply. To cancel any unsaved changes, click Cancel. To get additional information about the screen’s features, click Help.

**Setup > Options**

The Setup > Options screen allows you to set up and configure DDNS Service, UPnP configuration, and Alternate Port settings. DDNS (Dynamic Domain Name System) lets you assign a fixed host and domain name to a dynamic Internet IP address.

**DDNS**

**Enable DDNS** Select this option to enable DDNS service with the Camera.

**Service Provider** This is the DDNS service provider, which is preset to TZO.

**Domain Name** Enter the domain name assigned to you by your DDNS service provider.

**E-Mail Address** Enter the E-mail address used to register the DDNS service.

**TZO Key** Enter the TZO key provided by your DDNS service provider.

**Update Period** Use this to set the schedule for checking whether the Internet IP address has been changed. Specify how often to check, from Every 10 mins to Every 24 hrs, as well as the time to start checking, in hh:mm format.
NOTE: Before you can use the Camera’s DDNS feature, you must configure the port forwarding feature on your network router. Go to http://kb.linksys.com/16337 for instructions on how to configure port forwarding on a Linksys router. For other routers, refer to your router’s documentation.

NOTE: Once you have set up the DDNS feature, a maximum of four users (i.e., users at four different PCs) can simultaneously view the Camera’s video.

To save your changes, click Apply. To cancel any unsaved changes, click Cancel. To get additional information about the screen’s features, click Help.

**UPnP**

*Enable/Disable* When enabled, the Camera’s Universal Plug and Play (UPnP) feature allows a UPnP-enabled computer to easily detect the Camera. The Camera’s UPnP feature is disabled by default. If your computer is UPnP-enabled, select this option.

**Alternate Access Web Port**

*Enable/Disable* If you want the Camera to be able to use an alternate port for communications, select this option. Then, enter the desired port number in the range from 1024 to 65534 in the Port Number field. The default port number is 1024.

If you already have a Web Server on your LAN, then you should enable the Alternate Port and use this port number instead of port 80.

**RTP/RTSP**

You can view a Camera’s live video stream using various multimedia player applications such as QuickTime, RealPlayer, or Windows Media Player, or using a mobile phone that supports RTSP. To do this, first configure the RTP/RTSP settings in this section as needed, then open the multimedia player, then point the player to the appropriate URL listed below (where `<Camera IP Address>` is the IP address of the Camera you want to view).

- QuickTime or RealPlayer: 
  rtp://<Camera IP Address>/img/video.sav
- Windows Media Player: 
  http://<Camera IP Address>/img/video.asf
- Mobile phone with RTSP support: 
  http://<Camera IP Address>/img/video.asf
- RTSP Port To change the RTSP Port number, enter the desired number in the range of 1024 to 65535. The default is 554.
- RTP Data Port To change the RTP Data Port, enter the desired number in the range of 1024 to 65535.
- Max RTP Data Packet To change the maximum length of RTP data packets, enter the desired maximum length in the range of 400 to 1400.

**Multicast RTP/RTSP**

*Enable/Disable* Select Enable to enable the Multicast RTP/RTSP feature, or Disable to disable the feature.

**Video Address** To change the Video Address, enter the new address in the field provided. The default Video Address, 224.2.0.1, can be used for multicasting and does not normally need to be reconfigured. If this address needs to be changed, contact your network administrator.

**Audio Address** To change the Audio Address, enter the new address in the field provided. The default Audio Address, 224.2.0.1, can be used for multicasting and does not normally need to be reconfigured. If this address needs to be changed, contact your network administrator.

**Time to Live** Enter the maximum length of time (usually measured as the number of network routers that can be passed before the data arrives at its destination or is dropped) within which the data must reach its destination. The value must be from 1 to 255. The default value is 16.

To save your changes, click Apply. To cancel any unsaved changes, click Cancel. To get additional information about the screen’s features, click Help.
Chapter 5

Advanced Configuration with the Web-based Utility

Setup > Motion Detection

The Setup > Motion Detection screen allows you to configure the Camera’s motion detection settings.

Trigger Motion Detection

Enable Motion Detection  Check this box to enable Motion Detection.

Attachment Type  Select the type of attachment to be sent, either JPEG or Video. If JPEG is selected, a series of images will be attached to the e-mail as individual files. If Video is selected, a single video file will be attached.

Frame Rate  If the Attachment Type field is set to JPEG, select the frame rate (number of frames to be captured per second), from 1 to 5. The default value is 1.

Video Format  If the Attachment Type is set to Video, select the video format, either ASF, MPEG-4, or 3GP.

Pre-Capture Length  This refers to video footage up to the moment when motion is detected. Select how many seconds’ worth of this video will be saved. This value must be between 0 and 4 seconds.

Post-Capture Length  Select how many seconds’ worth of video will be saved starting from the moment motion is detected. This value must be between 1 and 5 seconds.

Interval  Enter the time in minutes that must pass between motion detection events. Valid values are 0-5, 10, or 15. The default is 2. A value of 0 indicates no delay between events.

Action(s)  Select the action(s) to be performed upon motion detection. Select E-Mail to send an e-mail with a video attachment to a selected recipient, or select FTP to send the video to a selected FTP server.

E-Mail Alert

If the Action(s) field is set to E-Mail, fill in the following fields:

Send To  Enter the e-mail address where e-mail will be sent upon motion detection. You can optionally specify up to three addresses.

Show “From” as  Enter the e-mail address to be used as the From field in the e-mail to be sent.

Subject  Enter the Subject field for the e-mail, consisting of 48 alphanumeric characters or less.

SMTP Port Number  Enter the SMTP port number from 1 to 65535. The default is 25.

SMTP Mail Server  If you want to use an SMTP mail server, check the box next to Specify a SMTP Mail Server. Then enter the mail server’s name in the field provided.

My Mail Server Requires Authentication  If you are using an SMTP mail server that requires authentication (you must log in with a username and password), check this box, then fill in the Account Name and Password fields.

Test E-Mail  Click this button to send a test e-mail to the address indicated by the Send To field.

FTP

If the Action(s) field is set to FTP, fill in the following fields:

FTP Server  Enter the FTP server name.

Port  Enter the FTP server’s port number.

Login Name and Password  Enter the login name and password for the account on the FTP server.

Passive Mode  Select Enable (default) to enable passive mode, or Disable to disable it.

File Path Name  Enter the path to the location where the file will be saved on the FTP server.

Set Sensitivity Area

Set Sensitivity Area  If you want to specify the sensitivity area settings for motion detection, click this button to display the Set Sensitivity Area window. The Set Sensitivity Area window lets you specify the area of the video screen that is used to detect motion. This is either the full screen, or up to three user-defined custom areas within the full screen.
The following fields appear on the left side of the Set Sensitivity Area window for each sensitivity area. Specify the settings as needed, then click Apply.

- **Full Screen or Window 2-4** This is the name of the sensitivity area, either Full screen by default, or if Setting Custom Area is selected, Window 2, Window 3, or Window 4 (custom areas). To change a custom area name to a more appropriate name, such as Front Door, enter the new name in this field.

- **Setting Custom Area** To specify custom area(s) within the full screen, check this box, then configure up to three custom sensitivity areas. By default only one area, Window 2, is selected. To create an additional area, check the box next to its name. You can move or resize each area as needed. Custom areas may also overlap.

- **Threshold** Slide this to the left to reduce the area’s sensitivity, or to the right to increase sensitivity.

### New Motion Trigger Schedule

This section allows you to create a schedule that determines when motion detection will be active. To do this, you define one or more “trigger” events, or periods during which motion detection will be in effect. For each trigger event, fill in the following fields.

**Trigger Motion Detection** Specify how often this trigger event occurs: Every day, Weekdays (Mon - Fri), or on specific days of the week (Sunday to Saturday).

**Start Time and End Time** Select the starting and ending times for the event.

- **Add** Click Add to add the new event to the schedule.
- **Clear** Click Clear to clear the schedule of all events.
- **Delete** To delete an event from the Schedule List, select the event, then click Delete.

**Schedule List** This displays all of the scheduled trigger events that you have defined and saved. It is empty by default.

To save your changes, click Apply. To cancel any unsaved changes, click Cancel. To get additional information about the screen’s features, click Help.

### Setup > Status

The Setup > Status screen allows you to view the Camera’s status information and log.

![Setup > Status Screen](image)

#### System Status

**Firmware Version** The version of the currently installed firmware.

**MAC Address** The MAC Address of the Camera.

**Camera Name** The name you gave to the Camera.

**Description** Information about the Camera, such as location.

**Date/Time** The current date and time.

#### Network

**Network Type** The wireless network’s mode.

**IP Address** The Camera’s IP Address.

**Subnet Mask** The Camera’s Subnet Mask.

**Gateway** The Camera’s Gateway address.

#### Wireless

**SSID** The wireless network’s SSID or name.

**Channel No** The wireless network’s channel setting.

**Security** The wireless network’s encryption level.

#### Log

**System Log** This shows the Camera’s activities. To empty the log, click Clear Log.

To get the Camera’s most up-to-date information, click Refresh. To get additional information about the screen’s features, click Help.
Help

Through the Help screen, you’ll find links to additional resources for the Camera and its Utility. If you select the Help tab directly from the Welcome screen, then you will see the User Help screen and will only be able to access these resources. If you first log in to access the Camera’s Setup and then select the Help tab, you will see the Administrator Help screen and will be able to restore factory defaults and upgrade the Camera’s firmware.

• Setup  Click any of the topics in the bar on the left to get help information.

• Linksys Support Page - Download Latest Viewer/Recorder Utility  Click this link to download the most recent version of the Camera Utility from the Linksys website, www.linksys.com.

• Click here to learn how to configure Port Forwarding in your Linksys Router  If you are going to use the DDNS Service, you need to set up port forwarding on your router. For instructions on how to configure a Linksys router, click this link. If you have a different router, refer to your router’s documentation.

• Adobe website (software for viewing PDF documents)  If you do not have Adobe Acrobat Reader, click this link to download it.
Appendix A: Troubleshooting

I can’t view the Camera’s video using Internet Explorer.

Make sure the OCX plug-in was correctly installed. If you’re not sure, re-install the plug-in by following these instructions:

- On the Welcome screen of the Camera’s Web-based Utility, click View Video.
- A screen mentioning a security warning about an OCX plug-in will appear. Click Yes to allow the plug-in to be installed.
- You should then be able to view the Camera’s streaming video.

If you still cannot view the video, make sure you have the rights to install the plug-in in your PC’s Internet Explorer. If not, log into your computer as an administrator and install the plug-in.

Then you can check if the OCX plug-in has been installed. Follow these instructions:

- From Internet Explorer, go to Tools and Internet Options.
- On the General screen, click Settings under Temporary Internet files.
- Click View Objects. You should see a file named NetCamPlayerWeb Control installed.

The OCX plug-in is installed in Internet Explorer, but I cannot view any video.

Make sure Microsoft Internet Explorer 5.5 or higher is installed. Then delete the OCX plug-in by following these instructions:

- From Internet Explorer, go to Tools and Internet Options.
- On the General screen, click Settings under Temporary Internet files.
- Click View Objects.
- You should see a file named NetCamPlayerWeb Control installed. Delete this file from the list.
- The next time you click View Video from the web browser, you will be prompted to re-install the OCX plug-in.

When powering on the Camera, I can’t immediately access the Camera from my computer.

Make sure the Camera’s LED is continuously lit. When it is flashing, the Camera is initializing.

I’m not able to play my recording video files.

Make sure you have Microsoft Windows Media Player 7 or higher. If you don’t, you can download the latest version from www.microsoft.com.

I have two Cameras and see two WVC54GCAs listed in my Camera Utility. When I click to view both Cameras, I see the video of only one Camera.

Make sure that the Cameras have different camera or device names. You can change this by using the Web-based Utility or running the Setup Wizard. If you use the Web-based Utility, log in and click the Setup tab. Then on the Basic screen, change the Camera Name.

When I view video remotely via the Internet, the video is very slow.

Video performance is greatly affected by your Internet connection speed. You can lower the Camera’s image quality to speed up the video. Through the Camera’s Web-based Utility, click the Setup and Image tabs, and then lower the image quality on the Image screen.

I cannot access the Setup tab of the Camera’s Web-based Utility.

Make sure you have administrator rights. Only an administrator can change the Camera’s settings.

I want to access the Camera when I’m away from home, but somehow I can’t connect.

If your network uses a dynamic IP address supplied by your ISP, then the IP address you use to reach the Camera will change as well. You need to use the TZO DDNS Service, so you can access the Camera using its domain name while the service keeps track of the IP address changes. To set up a Dynamic Domain Name Service (DDNS) account, click the Setup tab of the Camera’s Web-based Utility, then click the Options tab. Then configure the settings in the DDNS section of the screen.

Important: To allow remote access to the Camera, you will also have to use the port forwarding feature on your network router.

WEB: If your questions are not addressed here, refer to the Linksys website, www.linksys.com
## Appendix B: Specifications

**Model**
WVC54GCA

**Standards**
IEEE 802.11g, IEEE 802.3, IEEE 802.3u

**Ports**
Ethernet, Power

**Buttons**
Reset

**LEDs**
Power

**Cabling Type**
Cat5

**Number of Antennas**
1 Internal

**Connector Type**
N/A

**Detachable Antenna**
No

**UPnP able/cert**
UPnP Advertise

**.Net Support**
N/A

**Security Features**
WEP-64, WEP-128, WPA, WPA2

**Image Sensor**
CMOS

**Lens**
Fixed Focus

**Resolution**
640 x 480, 320 x 240, 160 x 128

**Relative Illumination**
5.1 Lux

**Effective Focus**
3 mm

**Sensitivity**
3.0V/Lux-sec

**Field of View**
61.48 degrees

**Compression Algorithm**
MPEG-4 and MJPEG

**Record File Format**
ASF

**Brightness**
Auto/Manual Adjustment

### Environmental

**Dimensions**
90 x 120 x 37mm

**Weight**
130 g

**Power**
5V 1A

**Certification**
FCC, CE, CB, UL, C-Tick, PSB/SPRING, IDA

**Operating Temp.**
0 to 40°C

**Storage Temp.**
–20 to 70°C

**Operating Humidity**
10 to 80% Noncondensing

**Storage Humidity**
0 to 90% Noncondensing

## Minimum System Requirements

<table>
<thead>
<tr>
<th>1 Camera</th>
<th>Up to 9 Cameras</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC with 2 GHz or faster processor</td>
<td>PC with 3 GHz dual-core processor</td>
</tr>
<tr>
<td>512 MB RAM</td>
<td>1 GB RAM</td>
</tr>
<tr>
<td>Microsoft Windows 2000, XP or Vista</td>
<td>Microsoft Windows 2000, XP or Vista</td>
</tr>
<tr>
<td>500MB of available hard drive space</td>
<td>4 GB of available hard drive space</td>
</tr>
<tr>
<td>Graphics card with a minimum of 128 MB</td>
<td>Graphics card with a minimum of 256 MB</td>
</tr>
<tr>
<td>Internet Explorer 6.0 (or above), Mozilla Firefox, Netscape 7.0 (or above)</td>
<td>Internet Explorer 6.0 (or above), Mozilla Firefox, Netscape 7.0 (or above)</td>
</tr>
<tr>
<td>DirectX 9.0 (or above)</td>
<td>DirectX 9.0 (or above)</td>
</tr>
<tr>
<td>CD-ROM Drive</td>
<td>CD-ROM Drive</td>
</tr>
<tr>
<td>Windows Media Player 9 or higher</td>
<td>Windows Media Player 9 or higher</td>
</tr>
</tbody>
</table>

**CD-ROM Drive**
Windows Media Player 9 or higher
Appendix C: Warranty Information

Limited Warranty

Linksys warrants that this Linksys hardware product will be substantially free of defects in materials and workmanship arising under normal use during the Warranty Period, which begins on the date of purchase by the original end-user purchaser and lasts for the period specified below:

- Two (2) years for new product
- Ninety (90) days for refurbished product

This limited warranty is non-transferable and extends only to the original end-user purchaser. Your exclusive remedy and Linksys’ entire liability under this limited warranty will be for Linksys, at its option, to (a) repair the product with new or refurbished parts, (b) replace the product with a reasonably available equivalent new or refurbished Linksys product, or (c) refund the purchase price of the product less any rebates. Any repaired or replacement products will be warranted for the remainder of the original Warranty Period or thirty (30) days, whichever is longer. All products and/or parts that are replaced become the property of Linksys.

This limited warranty shall apply in addition to any statutory or other rights which you may have under a contract of sale.

Exclusions and Limitations

This limited warranty does not apply if: (a) the product assembly seal has been removed or damaged, (b) the product has been altered or modified, except by Linksys, (c) the product damage was caused by use with non-Linksys products, (d) the product has not been installed, operated, repaired, or maintained in accordance with instructions supplied by Linksys, (e) the product has been subjected to abnormal physical or electrical stress, misuse, negligence, or accident, (f) the serial number on the Product has been altered, defaced, or removed, or (g) the product is supplied or licensed for beta, evaluation, testing or demonstration purposes for which Linksys does not charge a purchase price or license fee.

ALL SOFTWARE PROVIDED BY LINKSYS WITH THE PRODUCT, WHETHER FACTORY LOADED ON THE PRODUCT OR CONTAINED ON MEDIA ACCOMPANYING THE PRODUCT, IS PROVIDED “AS IS” WITHOUT ANY WARRANTY OF ANY KIND. Without limiting the foregoing, Linksys does not warrant that the operation of the product or software will be uninterrupted or error free. Also, due to the continual development of new techniques for intruding upon and attacking networks, Linksys does not warrant that the product, service, software or any equipment, system or network on which the product or software is used will be free of vulnerability to intrusion or attack. The product may include or be bundled with third party software or service offerings. This limited warranty shall not apply to such third party software or service offerings. This limited warranty does not guarantee any continued availability of a third party’s service for which this product’s use or operation may require.

TO THE EXTENT NOT PROHIBITED BY LAW, ALL IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE WARRANTY PERIOD. ALL OTHER EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF NONINFRINGEMENT, ARE DISCLAIMED. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary by jurisdiction.

TO THE EXTENT NOT PROHIBITED BY LAW, IN NO EVENT WILL LINKSYS BE LIABLE FOR ANY LOST DATA, REVENUE OR PROFIT, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, REGARDLESS OF THE THEORY OF LIABILITY (INCLUDING NEGLIGENCE), ARISING OUT OF OR RELATED TO THE USE OF OR INABILITY TO USE THE PRODUCT (INCLUDING ANY SOFTWARE), EVEN IF LINKSYS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL LINKSYS’ LIABILITY EXCEED THE AMOUNT PAID BY YOU FOR THE PRODUCT. The foregoing limitations will apply even if any warranty or remedy provided under this limited warranty fails of its essential purpose. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Obtaining Warranty Service

If you have a question about your product or experience a problem with it, please go to www.linksys.com/support where you will find a variety of online support tools and information to assist you with your product. If the product proves defective during the Warranty Period, contact Linksys Technical Support for instructions on how to obtain warranty service. The telephone number for Linksys Technical Support in your area can be found in the product User Guide and at www.linksys.com. Have your product serial number and proof of purchase on hand when calling. A DATED PROOF OF ORIGINAL PURCHASE IS REQUIRED TO PROCESS WARRANTY CLAIMS. If you are requested to return your product, you will be given a Return Materials Authorization (RMA) number. You are responsible for properly packaging and shipping your product to Linksys at your cost and risk. You must include the RMA number...
and a copy of your dated proof of original purchase when returning your product. Products received without a RMA number and dated proof of original purchase will be rejected. Do not include any other items with the product you are returning to Linksys. Defective product covered by this limited warranty will be repaired or replaced and returned to you without charge. Customers outside of the United States of America and Canada are responsible for all shipping and handling charges, custom duties, VAT and other associated taxes and charges. Repairs or replacements not covered under this limited warranty will be subject to charge at Linksys’ then-current rates.

**Technical Support**

This limited warranty is neither a service nor a support contract. Information about Linksys’ current technical support offerings and policies (including any fees for support services) can be found at [www.linksys.com/support](http://www.linksys.com/support)

**General**

This limited warranty is governed by the laws of the jurisdiction in which the Product was purchased by you. If any portion of this limited warranty is found to be void or unenforceable, its remaining provisions shall remain in full force and effect.

Please direct all inquiries to: Linksys, P.O. Box 18558, Irvine, CA 92623.

**For more information, please contact us**

[www.linksys.com](http://www.linksys.com)

Select your country, and then select SUPPORT/TECHNICAL

**For product returns:**

Select your Country and then select CUSTOMER SUPPORT
Appendix D: Regulatory Information

FCC Statement
This product has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which is found by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment or devices
- Connect the equipment to an outlet other than the receiver’s
- Consult a dealer or an experienced radio/TV technician for assistance

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

Safety Notices
- Caution: To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord.
- Do not use this product near water, for example, in a wet basement or near a swimming pool.
- Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Industry Canada Statement
This Class B digital apparatus complies with Canadian ICES-003 and RSS210.

Operation is subject to the following two conditions:
1. This device may not cause interference and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

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

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

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Avis d’Industrie Canada
Cet appareil numérique de la classe B est conforme aux normes NMB-003 et RSS210 du Canada.

L’utilisation de ce dispositif est autorisée seulement aux conditions suivantes :
1. il ne doit pas produire de brouillage et
2. il doit accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Afin de réduire le risque d’interférence aux autres utilisateurs, le type d’antenne et son gain doivent être choisis de façon à ce que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure au niveau requis pour obtenir une communication satisfaisante.

Avis d’Industrie Canada concernant l’exposition aux radiofréquences
Ce matériel est conforme aux limites établies par IC en matière d’exposition aux radiofréquences dans un environnement non contrôlé. Ce matériel doit être installé et utilisé à une distance d’au moins 20 cm entre l’antenne et le corps de l’utilisateur.

L’émetteur ne doit pas être placé près d’une autre antenne ou d’un autre émetteur, ou fonctionner avec une autre antenne ou un autre émetteur.
Wireless Disclaimer

The maximum performance for wireless is derived from IEEE Standard 802.11 specifications. Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

Avis de non-responsabilité concernant les appareils sans fil

Les performances maximales pour les réseaux sans fil sont tirées des spécifications de la norme IEEE 802.11. Les performances réelles peuvent varier, notamment en fonction de la capacité du réseau sans fil, du débit de la transmission de données, de la portée et de la couverture. Les performances dépendent de facteurs, conditions et variables multiples, en particulier de la distance par rapport au point d’accès, du volume du trafic réseau, des matériaux utilisés dans le bâtiment et du type de construction, du système d’exploitation et de la combinaison de produits sans fil utilisés, des interférences et de toute autre condition défavorable.
### Declaration of Conformity with Regard to EU Directive 1999/5/EC (R&TTE Directive)

Compliance Information for 2.4-GHz and 5-GHz Wireless Products Relevant to the EU and Other Countries Following the EU Directive 1999/5/EC (R&TTE Directive)

For all products, the Declaration of Conformity (DoC) is available through one or more of these options:

- A pdf file is included on the product’s CD.
- A print copy is included with the product.
- A pdf file is available on the product’s webpage.
- Visit [www.linksys.com/international](http://www.linksys.com/international) and select your country or region. Then select your product.
- If you need any other technical documentation, see the “Technical Documents on www.linksys.com/international” section, as shown later in this appendix.

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<table>
<thead>
<tr>
<th>Language</th>
<th>Declaration of Conformity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nederlands [Dutch]</td>
<td>Dit apparaat voldoet aan de essentiele eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.</td>
</tr>
<tr>
<td>Malti [Maltese]</td>
<td>Dan l-apparat huwa konformi mal-htijiet essenzjali u l-provvedimenti l-ohra rilevanti tad-Direttiva 1999/5/EC.</td>
</tr>
<tr>
<td>Magyar [Hungarian]</td>
<td>Ez a készülék teljesít az alapvető követelményeket és más 1999/5/EK irányelvben meghatározott vonatkozó rendelkezéseket.</td>
</tr>
<tr>
<td>Norsk [Norwegian]</td>
<td>Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EC.</td>
</tr>
<tr>
<td>Polski [Polish]</td>
<td>Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczegółowymi warunkami określonymi Dyrektywą UE: 1999/5/EC.</td>
</tr>
<tr>
<td>Português [Portuguese]</td>
<td>Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Diretiva 1999/5/EC.</td>
</tr>
<tr>
<td>Română [Romanian]</td>
<td>Acest echipament este în conformitate cu cerințele esențiale și cu alte prevederi relevante ale Directivei 1999/5/EC.</td>
</tr>
<tr>
<td>Slovensko [Slovenian]</td>
<td>Toto zariadenie je v zhode so základnými požiadavkami inostlými zahtevami Direktív 1999/5/EC.</td>
</tr>
<tr>
<td>Slovensky [Slovak]</td>
<td>Toto zariadenie je v zhode so základnými požiadavkami inostlými zahtevami Direktív 1999/5/EC.</td>
</tr>
<tr>
<td>Svenska [Swedish]</td>
<td>Denna utrustning är i överensstämmer med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.</td>
</tr>
</tbody>
</table>

---

**Note:**

- **Bulgarian**
  - Български (Bulgarian): Tова оборудване отговаря на съществените изисквания и приложими класуи на Директива 1999/5/EC.

- **Czech**
  - Česky (Czech): Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 1999/5/EC.

- **Danish**
  - Dansk (Danish): Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.

- **German**
  - Deutsch (German): Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EC.

- **Estonian**

- **English**
  - English: This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

- **Spanish**
  - Español (Spanish): Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 1999/5/EC.

- **Greek**
  - Ελληνική (Greek): Αυτός ο εξοπλισµός είναι σε συµµόρφωση µε τις ουσιώδεις απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 1999/5/EC.

- **French**
  - Français (French): Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.

- **Icelandic**
  - Íslenska (Icelandic):etta tæki er samkvæmt grunnkröfum og öðrum vísingandi ákvæðum Tilskipunar 1999/5/EC.

- **Italian**
  - Italiano (Italian): Questo apparato è conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/EC.

- **Latvian**

- **Lithuanian**
  - Lietuvių (Lithuanian): Šis įrenginys tenkina 1999/5/EB Direktyvos esminius reikalavimus ir kitas šios direktyvos nuostatas.
Appendix D

Regulatory Information

Wireless Equipment
(Wireless-N/G/A/B Products)

The following standards were applied during the assessment of the product against the requirements of the Directive 1999/5/EC:

- Radio: EN 300 328 and/or EN 301 893 as applicable
- EMC: EN 301 489-1, EN 301 489-17
- Safety: EN 60950 and either EN 50385 or EN 50371

Dynamic Frequency Selection (DFS) and Transmit Power Control (TPC) are required for operation in the 5 GHz band.

DFS: The equipment meets the DFS requirements as defined in ETSI EN 301 893. This feature is required by the regulations to avoid interference with Radio Location Services (radars).

TPC: For operation in the 5 GHz band, the maximum power level is 3 dB or more below the applicable limit. As such, TPC is not required.

CE Marking

For the Linksys Wireless-N, -G, -B, and/or -A products, the following CE mark, notified body number (where applicable), and class 2 identifier are added to the equipment.

€ 0560 
or € 0678 
or € 0336 

Check the CE label on the product to find out which notified body was involved during the assessment.

National Restrictions

This product may be used in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Ce produit peut être utilisé dans tous les pays de l’UE (et dans tous les pays ayant transposés la directive 1999/5/CE) sans aucune limitation, excepté pour les pays mentionnés ci-dessous:

Questo prodotto è utilizzabile in tutte i paesi EU (ed in tutti gli altri paesi che seguono la direttiva EU 1999/5/EC) senza nessuna limitazione, eccetto per i paesi menzionati di seguito:

Das Produkt kann in allen EU Staaten ohne Einschränkungen eingesetzt werden (sowie in anderen Staaten die der EU Direktive 1999/5/CE folgen) mit Aufnahme der folgenden aufgeführten Staaten:

In the majority of the EU and other European countries, the 2,4- and 5-GHz bands have been made available for the use of wireless local area networks (LANs). The table labeled “Overview of Regulatory Requirements for Wireless LANs” provides an overview of the regulatory requirements applicable for the 2,4- and 5-GHz bands.

Later in this document you will find an overview of countries in which additional restrictions or requirements or both are applicable.

The requirements for any country may evolve. Linksys recommends that you check with the local authorities for the latest status of their national regulations for both the 2,4- and 5-GHz wireless LANs.

Overview of Regulatory Requirements for Wireless LANs

<table>
<thead>
<tr>
<th>Frequency Band (MHz)</th>
<th>Max Power Level (EIRP) (mW)</th>
<th>Indoor ONLY</th>
<th>Indoor &amp; Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>2400-2483,5</td>
<td>100</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5150-5350†</td>
<td>200</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5470-5725†</td>
<td>1000</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

*Dynamic Frequency Selection and Transmit Power Control are required in the frequency ranges of 5250-5350 MHz and 5470-5725 MHz.

The following countries have restrictions and/or requirements in addition to those given in the table labeled “Overview of Regulatory Requirements for Wireless LANs”:

Denmark

In Denmark, the band 5150 - 5350 MHz is also allowed for outdoor usage.

I Danmark må frekvensbåndet 5150 - 5350 også anvendes udendørs.
France
For 2,4 GHz, the product should not be used outdoors in the band 2454 - 2483,5 MHz. There are no restrictions when used in other parts of the 2,4 GHz band when used indoors. Check http://www.arcep.fr/ for more details.

Pour la bande 2,4 GHz, l’équipement ne doit pas être utilisé en extérieur dans la bande 2454 - 2483,5 MHz. Il n’y a pas de restrictions pour des utilisations en intérieur dans d’autres parties de la bande 2,4GHz. Consultez http://www.arcep.fr/ pour de plus amples détails.

<table>
<thead>
<tr>
<th>Location</th>
<th>Frequency Range (MHz)</th>
<th>Power (EIRP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor (No restrictions)</td>
<td>2400-2483,5</td>
<td>100 mW (20 dBm)</td>
</tr>
<tr>
<td>Outdoor</td>
<td>2400-2454</td>
<td>100 mW (20 dBm)</td>
</tr>
<tr>
<td></td>
<td>2454-2483,5</td>
<td>10 mW (10 dBm)</td>
</tr>
</tbody>
</table>

Italy
This product meets the National Radio Interface and the requirements specified in the National Frequency Allocation Table for Italy. Unless this 2,4-GHz wireless LAN product is operating within the boundaries of the owner’s property, its use requires a “general authorization”. Please check http://www.comunicazioni.it/it/ for more details.


Latvia
The outdoor usage of the 2,4 GHz band requires an authorization from the Electronic Communications Office. Please check http://www.esd.lv for more details.


Notes:
1. Although Norway, Switzerland and Liechtenstein are not EU member states, the EU Directive 1999/5/EC has also been implemented in those countries.
2. The regulatory limits for maximum output power are specified in EIRP. The EIRP level of a device can be calculated by adding the gain of the antenna used (specified in dBi) to the output power available at the connector (specified in dBm).

Product Usage Restrictions
This product is designed for indoor usage only. Outdoor usage is not recommended, unless otherwise noted.

2,4 GHz Restrictions
This product is designed for use with the standard, integral or dedicated (external) antenna(s) that is/are shipped together with the equipment. However, some applications may require the antenna(s), if removable, to be separated from the product and installed remotely from the device by using extension cables. For these applications, Linksys offers an R-SMA extension cable (AC9SMA) and an R-TNC extension cable (AC9TNC). Both of these cables are 9 meters long and have a cable loss (attenuation) of 5 dB. To compensate for the attenuation, Linksys also offers higher gain antennas, the HGA7S (with R-SMA connector) and HGA7T (with R-TNC connector). These antennas have a gain of 7 dBi and may only be used with either the R-SMA or R-TNC extension cable.

Combinations of extension cables and antennas resulting in a radiated power level exceeding 100 mW EIRP are illegal.

Third-Party Software or Firmware
The use of software or firmware not supported/provided by Linksys may result that the equipment is no longer compliant with the regulatory requirements.

Technical Documents on www.linksys.com/international
Follow these steps to access technical documents:
1. Enter http://www.linksys.com/international in your web browser.
2. Select the country or region in which you live.
3. Click the Products tab.
4. Select the appropriate product category.
5. Select the product sub-category, if necessary.
6. Select the product.
7. Select the type of documentation you want from the More Information section. The document will open in PDF format if you have Adobe Acrobat installed on your computer.

NOTE: If you have questions regarding the compliance of this product or you cannot find the information you need, please contact your local sales office or visit www.linksys.com/international
Appendix D

User Information for Consumer Products
Covered by EU Directive 2002/96/EC on
Waste Electric and Electronic Equipment
(WEEE)

This document contains important information for users with regards to the proper disposal and recycling of Linksys products. Consumers are required to comply with this notice for all electronic products bearing the following symbol:

![WEEE Symbol]

English - Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

Български (Bulgarian) - Информация относно опазването на околната среда за потребители в Европейския съюз

Европейска директива 2002/96/ЕС изисква уредите, носещи този символ на продукта и/или на опаковката му, да не се изхвърлят с несортирани битови отпадъци. Символът обозначава, че изделието трябва да се изхвърля отделно от сметосъбирането на обикновените битови отпадъци. Ваша е отговорността този и другите електрически и електронни уреди да се изхвърлят в предварително определени от държавните или общински органи специализирани пунктове за събиране. Правилното изхвърляне и рециклиране ще спомогнат да се предотвратят евентуални вреди за околната среда и здравето на населението последствия. За по-подробна информация относно изхвърлянето на вашите стари уреди се обрнете към местните власти, службите за сметосъбиране или магазина, от който сте закупили уреда.

Čeština (Czech) - Informace o ochraně životního prostředí pro zákazníky v zemích Evropské unie

Evropská směrnice 2002/96/ES zakazuje, aby zařízení označené tímto symbolem na produktu anebo na obalu bylo likvidováno s netříděným komunálním odpadem. Tento symbol udává, že daný produkt musí být likvidován odděleně od běžného komunálního odpadu. Odpovídáte za likvidaci tohoto produktu a dalších elektrických a elektronických zařízení prostřednictvím určených sběrných míst stanovených vládou nebo místními úřady. Správná likvidace a recyklace pomáhá předcházet potenciálním negativním dopadům na životní prostředí a lidské zdraví. Podrobnější informace o likvidaci starého vybavení si laskavě vyžádejte od místních úřadů, podniku zabývajícího se likvidací komunálních odpadů nebo obchodu, kde jste produkt zakoupili.

Dansk (Danish) - Miljøinformation for kunder i EU


Deutsch (German) - Umweltinformation für Kunden innerhalb der Europäischen Union


Wireless-G Internet Home Monitoring Camera
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Regulatory Information

Eesti (Estonian) - Keskkonnaalane informatsioon Euroopa Liidu asuvatele klientidele


Español (Spanish) - Información medioambiental para clientes de la Unión Europea

La Directiva 2002/96/CE de la UE exige que los equipos que llevan este símbolo ☏ en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales con vistas a su eliminación. Es responsabilidad suya desechar este y cualesquiera otros aparatos eléctricos y electrónicos a través de los puntos de recogida que ponen a su disposición el gobierno y las autoridades locales. Al desechar y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recogida y eliminación de residuos de su zona o pregunte en la tienda donde adquirió el producto.

Ελληνικά (Greek) - Στοιχεία περιβαλλοντικής προστασίας για πελάτες εντός της Ευρωπαϊκής Ένωσης

Σύμφωνα με την Κοινοτική Οδηγία 2002/96/EC, ο εξοπλισμός που φέρει αυτό το σύμβολο ☏ στο προϊόν ή/και τη συσκευασία του δεν πρέπει να απορρίπτεται μαζί με τα μη διαχωρισμένα αστικά απορρίμματα. Το σύμβολο υποδεικνύει ότι αυτό το προϊόν θα πρέπει να απορρίπτεται ξεχωριστά από τα συνήθη οικιακά απορρίμματα. Είστε υπεύθυνος για την απορρύπηση του παρόντος και άλλου ελεκτρικού και ηλεκτρονικού εξοπλισμού μέσω των καθορισμένων εγκαταστάσεων συγκέντρωσης απορριμμάτων, οι οποίες ορίζονται από το κράτος ή τις αρμόδιες τοπικές αρχές. Η σωστή απόρρυπηση και ανακύκλωση συμβάλλει στην πρόληψη ενδεχόμενων αρνητικών επιπτώσεων στο περιβάλλον και την υγεία. Για περισσότερες πληροφορίες σχετικά με την απόρρυπηση του παλαιού σας εξοπλισμού, επικοινωνήστε με τις τοπικές αρχές, οι οποίες ορίζονται από το κράτος ή/και τις αρμόδιες τοπικές αρχές.

Italiano (Italian) - Informazioni relative all’ambiente per i clienti residenti nell’Unione Europea

La direttiva europea 2002/96/EC richiede che le apparecchiature contrassegnate con questo simbolo ☏ sul prodotto e/o sull’imballaggio non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche e elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il riciclaggio aiuteranno a prevenire conseguenze potenzialmente negative per l’ambiente e per la salute dell’essere umano. Per ricevere informazioni più dettagliate circa lo smaltimento delle vecchie apparecchiature in Vostro possesso, Vi invitiamo a contattare gli enti pubblici di competenza, il servizio di smaltimento rifiuti o il negozio nel quale avete acquistato il prodotto.

Latviešu valoda (Latvian) - Ekoloģiska informācija klientiem Eiropas Savienības jurisdikcijā

Wireless-G Internet Home Monitoring Camera
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Wireless-G Internet Home Monitoring Camera

Português (Portuguese) - Informação ambiental para clientes da União Europeia

A Directiva Europeia 2002/96/CE exige que o equipamento que exibe este símbolo no produto e/ou na sua embalagem não seja eliminado junto com os resíduos municipais não separados. O símbolo indica que este produto deve ser eliminado separadamente dos resíduos domésticos regulares. É da sua responsabilidade eliminar este equipamento e contacte as autoridades locais, os serviços de eliminação de resíduos ou o estabelecimento comercial onde adquiriu o produto.

Română (Romanian) - Informații de mediu pentru clienții din Uniunea Europeană


Slovenčina (Slovak) - Informácie o ochrane životného prostredia pre zákazníkov v Európskej unii

Podľa európskej smernice 2002/96/ES zariadenie s týmto symbolom na produkte a/alebo jeho balení nesmie byť likvidované spolu s netriedeným komunálnym odpadom. Symbol znamená, že produkt by sa mal likvidovať oddelene zo bežného odpadu z domácnosti. Je vašou povinnosťou likvidovať toto i ostatné elektrické a elektronické zariadenia prostredníctvom špecializovaných zbierok zariadení určených vládou alebo miestnymi orgánmi. Správna likvidácia a recyklácia pomôže zabrániť prípadnému negatívnemu dopadom na životné prostredie a zdravie lúdi. Ak máte záujem o podrobnejšie informácie o likvidácii starého zariadenia, obráťte sa, prosím, na miestne orgány, organizácie zaobrazujúce sa likvidáciou odpadov alebo obchod, v ktorom ste si produkt zakúpili.

Slovenščina (Slovene) - Okoljske informacije za stranke v Evropski uniji

Evropska direktiva 2002/96/ES prepoveduje odlaganje opreme s tem simbolom na izdelku in/ali na embalaži z nesortiranimi komunalnimi odpadki. Ta simbol opozarja, da je treba izdelek zavreči ločeno od ostalih gospodinjskih odpadkov. Vaša odgovornost je, da to in preostalo električno in elektronsko opremo oddate na posebna zbiralnišča, ki jih določijo državne organi. S pravilnim odlaganjem in recikliranjem boste preprečili morebitne škodljive vplive na okolje in zdravje ljudi. Če želite izvedeti več o odlaganju stare opreme, se obrnite na lokalne oblasti, odlagališče odpadov ali trgovino, kjer ste izdelek kupili.

Suomi (Finnish) - Ympäristöä koskevia tietoja EU-alueen asiakkaille

EU-direktiivi 2002/96/EC edellyttää, että jos laitteistossa on tämä symboli itse tuotteessa ja/tai sen pakkausessa, laitteisto saa hävittää tämän tavallisesti kotitalousjätteestä. Sinun vastuullasi on hävittää tämä elektroniikkatuote ja muut vastaavat elektroniikkatuotteet paikalliseen keräyspisteeseen. Lisätietoja vanhan laitteiston oikeasta hävitystavasta saa paikallisilta viranomaisilta tai ihmisestä terveydenhuoltoasemassa, josta ostit tuotteen.

Svenska (Swedish) - Miljöinformation för kunder i Europeiska unionen


WEB: For additional information, please visit www.linksys.com/international
Appendix E: Software License Agreement

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Appendix E

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Wireless-G Internet Home Monitoring Camera

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Appendix E
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