

User Manual

DCS-1100 / DCS-1130

Version 1.0

D-Link[®]



SECURITY

Network Camera

Manual Overview

This manual contains the following sections:

- Section 1** - “Product Overview” describes what is included with the DCS-1100/1130 camera, and things to consider before installing (page 1).
- Section 2** - “mydlink Portal” provides detailed information on usage and configuration of your product with www.mydlink.com (page 7).
- Section 3** - “Installation” describes how to install the camera on your network (page 12).
- Section 4** - “Configuration” describes how to configure the settings on your DCS-1100/1130 camera (page 16).
- Section 5** - “Troubleshooting” explains how to resolve common issues (page 41).
- Section 6** - “Appendix” contains special procedures and technical specifications (page 43).

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Manual Revisions

Revision	Date	Description
1.0	February 26, 2009	• DCS-1100/1130 Revision A1 with firmware version 1.00

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Product Overview




Congratulations on your purchase of the DCS-1100/1130 Network Camera. The DCS-1100/1130 is a versatile and unique solution for your small office or home. Unlike a standard webcam, the DCS-1100/1130 is a complete system with a built-in CPU and web server that transmits high quality video images for security and surveillance. The DCS-1100/1130 can be accessed remotely, and controlled from any PC/Notebook over your local network or through the Internet via a web browser. The simple installation and intuitive web-based interface offer easy integration with your Ethernet/Fast Ethernet or 802.11n/g wireless network (DCS-1130). The DCS-1100/1130 also comes with remote monitoring and motion detection features for a complete and cost-effective home security solution.

- Remotely monitor your home or office over the Internet
- Web-based Recording to a PC's local hard drive – no software required
- Camera Setup Wizard technology simplifies setup by automatically configuring network settings
- Includes D-ViewCam 2.0 for multi-camera monitoring and management
- Motion detection to trigger recording and send e-mail alerts
- DDNS support for web access using an easy-to-remember domain name
- Administrator/User password protection
- UPnP support for easy network setup and configuration
- 1 lux CMOS sensor for low-light environments
- 3GPP mobile surveillance
- Simultaneous MJPEG and MPEG-4 streams allows optimization of both image quality and bandwidth efficiency
- 802.11n/g wireless connectivity (DCS-1130 only)
- WPS support for easy wireless network setup (DCS-1130 only)

Features

- **Simple to Use:** The DCS-1100/1130 is a stand-alone system with a built-in CPU, requiring no special hardware or software such as PC frame grabber cards. Setup is simple with Camera Setup Wizard technology, which helps automatically configure your camera's network settings, eliminating the need to set complicated settings on your router.
- **Supports a Variety of Platforms:** Supports TCP/IP networking, HTTP, and other Internet related protocols. It can also be integrated easily into other Internet/Intranet applications because of its standards-based features.
- **Remote Snapshot Images and Recording:** Using the snapshot and recording features, you can save snapshots and record video and audio directly from the Web browser to a local hard drive without installing any software, making it convenient to instantly capture any moment from a remote location.
- **Record Directly to a NAS:** The DCS-1100/1130 allows you to record directly to a local network area storage device without the use of a dedicated PC for storing recorded video.
- **Low-Light Recording:** The DCS-1100/1130's 1 lux light sensitivity allows you to capture video in rooms with minimal lighting, making it ideal for use in low-light environments.
- **Web Configuration:** Using a standard Web browser, administrators can configure and manage the Network Camera directly from its own Web page via the Intranet or Internet. This means you can access your DCS-1100/1130 anytime from anywhere in the world!
- **Remote Monitoring Utility:** The D-ViewCam application adds enhanced features and functionality for the Network Camera and allows administrators to configure and access the Network Camera from a remote site via Intranet or Internet. Other features include image monitoring, recording images to a hard drive, viewing up to 32 cameras on one screen, and taking snapshots.
- **Broad Range of Applications:** With today's high-speed Internet services, the DCS-1100/1130 Network Cameras can provide an ideal solution for live video over the Intranet and Internet for remote monitoring. They allow remote access from a Web browser for live image viewing and management of the Network Cameras anytime, from anywhere in the world. The Network Cameras have a wide range of applications, including industrial and public monitoring of homes, offices, banks, hospitals, child-care centers, and amusement parks.
- **802.11n Wireless Connectivity (DCS-1130 only):** The DCS-1130 offers both 802.11n wireless and Ethernet/Fast Ethernet connectivity, making the DCS-1130 easy to integrate into your existing network environment. The DCS-1130 works with an Ethernet based network for traditional wired environments and also works with 802.11n/g/b routers or access points for added flexibility.

Package Contents

<p>DCS-1100 Wired Network Camera or DCS-1130 Wireless N Network Camera</p>	
<p>Power Adapter</p>	
<p>CAT5 Ethernet Cable</p>	
<p>Camera Base and Mounting Kit</p>	
<p>Quick Installation Guide</p>	
<p>CD-ROM</p>	

If any of the above items are missing from your package, please contact your retailer.

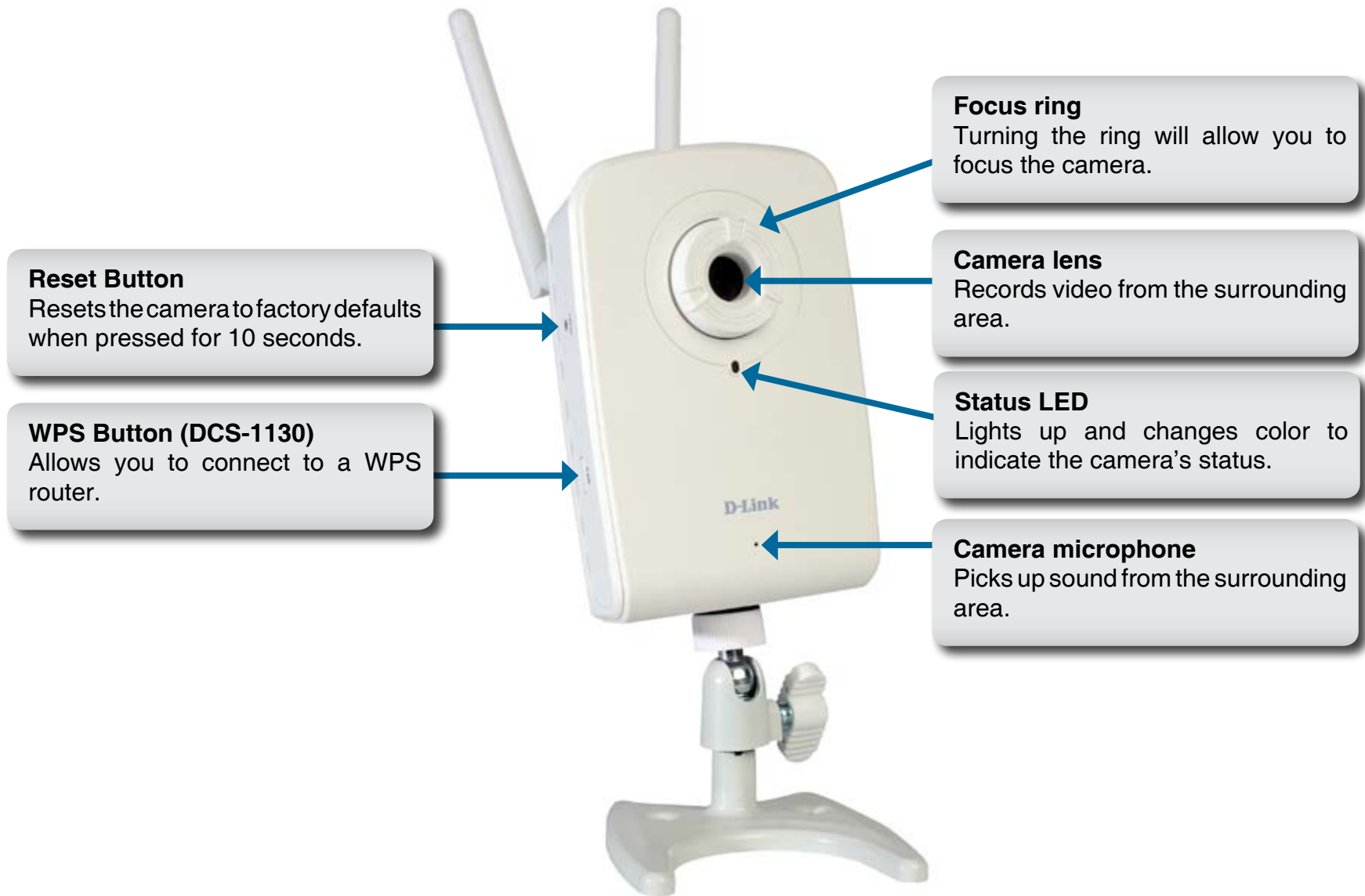
Note: Using a power supply with a different voltage rating than the one included with the DCS-1100/1130 will cause damage and void the warranty for this product.

System Requirements

Network Requirements	<ul style="list-style-type: none"> • Wired (10/100 Fast Ethernet) network • Wireless 802.11n/g network (for DCS-1130 only)
CD Installation Wizard Requirements	<ul style="list-style-type: none"> • An Internet connection • A router connected to your broadband modem <p>Computer with the following:</p> <ul style="list-style-type: none"> • A PC with a wired connection to your router • Windows® XP or Vista® (32/64-bit) • Internet Explorer 6 or higher with ActiveX controls enabled
Web-based Configuration Utility Requirements	<p>Computer with the following:</p> <ul style="list-style-type: none"> • Windows® based operating system • An installed Ethernet adapter <p>Browser Requirements:</p> <ul style="list-style-type: none"> • Internet Explorer 6.0 or higher • Firefox 1.5 or higher • Safari 1.0 or higher (with Java 1.3.1 or higher) <p>Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.</p>
mydlink Website Requirements	<ul style="list-style-type: none"> • Subscription with an Internet Service Provider (ISP) with 256 Kbps minimum bandwidth for remote video viewing • Computer with: Microsoft Internet Explorer 6 or higher with ActiveX controls enabled

Hardware Overview

Front



Reset Button

Resets the camera to factory defaults when pressed for 10 seconds.

WPS Button (DCS-1130)

Allows you to connect to a WPS router.

Focus ring

Turning the ring will allow you to focus the camera.

Camera lens

Records video from the surrounding area.

Status LED

Lights up and changes color to indicate the camera's status.

Camera microphone

Picks up sound from the surrounding area.

Hardware Overview

Back



Antenna connectors (DCS-1130)
Connects to the wireless antennas.

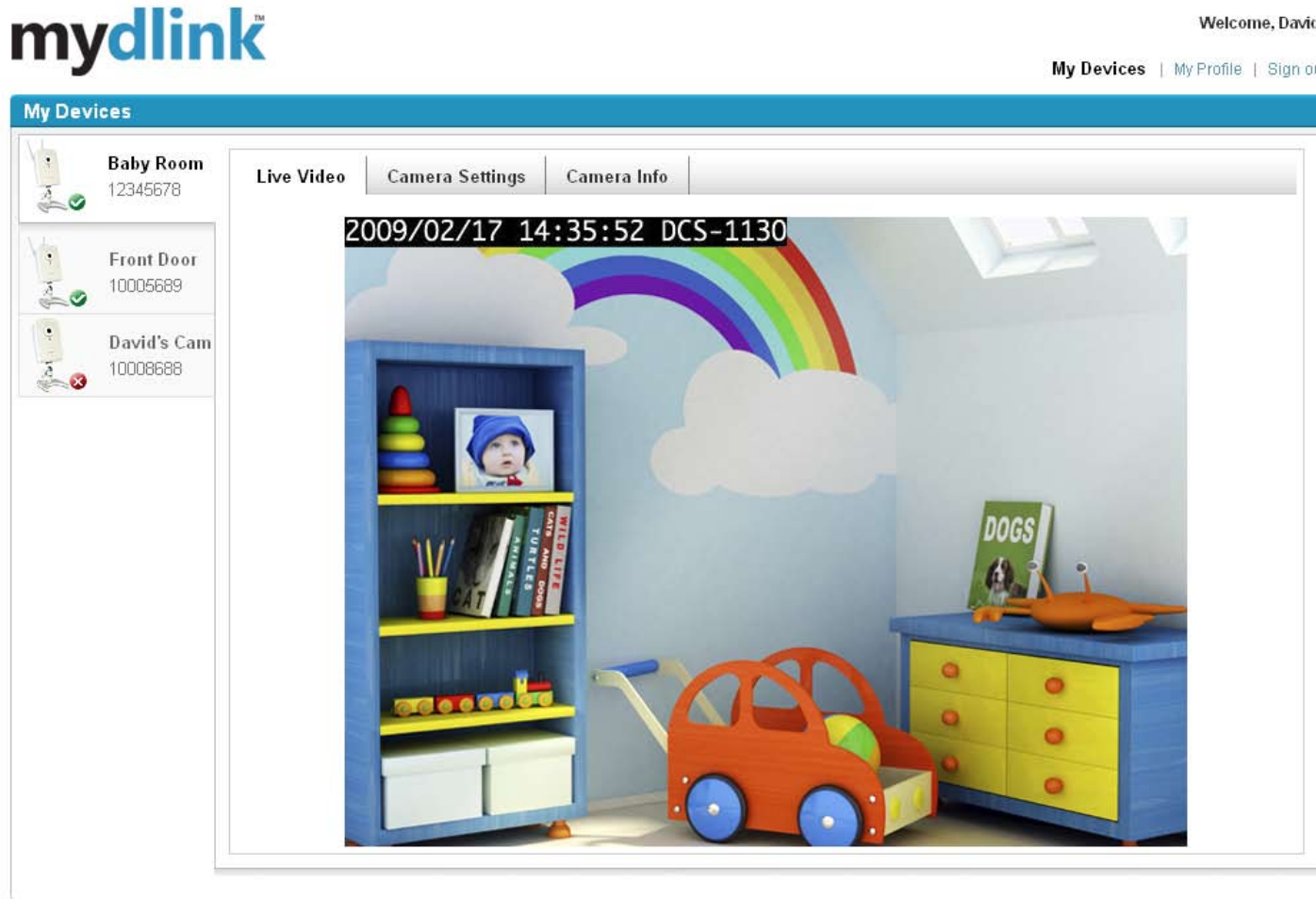
Ethernet port
Connects to a PC or network through an Ethernet connection.

Power jack
Connects to the power adapter.

Camera base mounting points
Allows you to attach the camera base or another mounting unit.

mydlink Portal

After registering your DCS-1100/1130 camera with a mydlink account in the Camera Installation Wizard. You will be able to remotely access your camera from the www.mydlink.com website. After signing in to your mydlink account, you will see a screen similar to the following:



Camera Status

Here, you can see the online status of each of your cameras. Your online status may be one of the following:

A green checkmark indicates that your camera is online and ready to use.



A yellow exclamation point indicates that your camera is online, but the camera password has changed. You will need to enter your new camera password to access your camera again.



A red x indicates that your camera is offline and currently cannot be accessed remotely.



If your camera is offline, try the following:

- Check to make sure that the Internet connection to your camera is working properly.
- Try restarting your Internet router.
- Check your camera's cable connections and make sure they are secure.
- Check to make sure that the LED on your camera is lit solid green.

If you still cannot access your camera, reset your camera and run the Camera Installation Wizard again from the CD-ROM included in your package.

Live Video

In the main part of the screen, the Live Video tab will be selected by default. If the camera is available, a Live Video feed will be displayed. Video will be shown at VGA resolution (640x480) if viewing your camera from a PC on the same local network, or at QVGA resolution (320x240) if viewing your camera from a PC on a remote network.

The screenshot displays the mydlink web interface. At the top left is the mydlink logo. At the top right, it says "Welcome, David" and provides links for "My Devices", "My Profile", and "Sign out". Below this is a "My Devices" section with a list of three devices: "Baby Room" (ID: 12345678, status: online), "Front Door" (ID: 10005689, status: online), and "David's Cam" (ID: 10008688, status: offline). The main content area is titled "My Devices" and features a "Live Video" tab selected by default, along with "Camera Settings" and "Camera Info" tabs. The live video feed shows a child's room with a blue bookshelf, a red toy car, and a blue dresser. A timestamp "2009/02/17 14:35:52 DCS-1130" is overlaid on the top left of the video frame.

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This site is best viewed using Internet Explorer 6.0.

Camera Settings

The Camera Settings tab allows you to access your camera's configuration interface. To open your camera's configuration interface, click **Camera web page** and enter the password exactly as listed on the Camera Settings page.

The screenshot shows the mydlink portal interface. At the top left is the mydlink logo. At the top right, it says "Welcome, David" and has links for "My Devices", "My Profile", and "Sign out". Below this is a "My Devices" section with a blue header. On the left, there is a list of three devices: "Baby Room" (ID: 12345678, status: online), "Front Door" (ID: 10005689, status: online), and "David's Cam" (ID: 10008688, status: offline). The "Baby Room" device is selected, and its settings are displayed in a larger panel on the right. This panel has three tabs: "Live Video", "Camera Settings" (which is active), and "Camera Info". Under the "Camera Settings" tab, there is a message: "Please use the following password to sign in to the Camera Utility after clicking **Camera web page**." Below this message, the "Camera Password" is listed as "123456qa" in red text. At the bottom of this panel is a blue button labeled "Camera web page".

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This site is best viewed using Internet Explorer 6.0.

Camera Info

The Camera Info tab shows you various information about your camera.

Device Name: The Device Name is a unique name that you can give to your device to help you identify it. Clicking on the **Device Name** will open a window for you to log in to your camera's configuration interface. Then, it will open the Maintenance > Admin page where you can change your Device Name.

Camera Password: This shows you the current password for your camera's configuration interface. Clicking on the **Show Password** checkbox will either show or hide the password. Clicking on the **Password** will open a window for you to log in to your camera's configuration interface. Then, it will open the Maintenance > Admin page where you can change your Password.

mydlink No.: This shows you the mydlink number of your device.

Model Name: This shows you the model name of your device.

MAC Address: This shows you the MAC address of your device.

Device activated On: This shows you the time and date that your device was added to mydlink.

Support: This section provides you with links to various support websites and downloads related to your product.

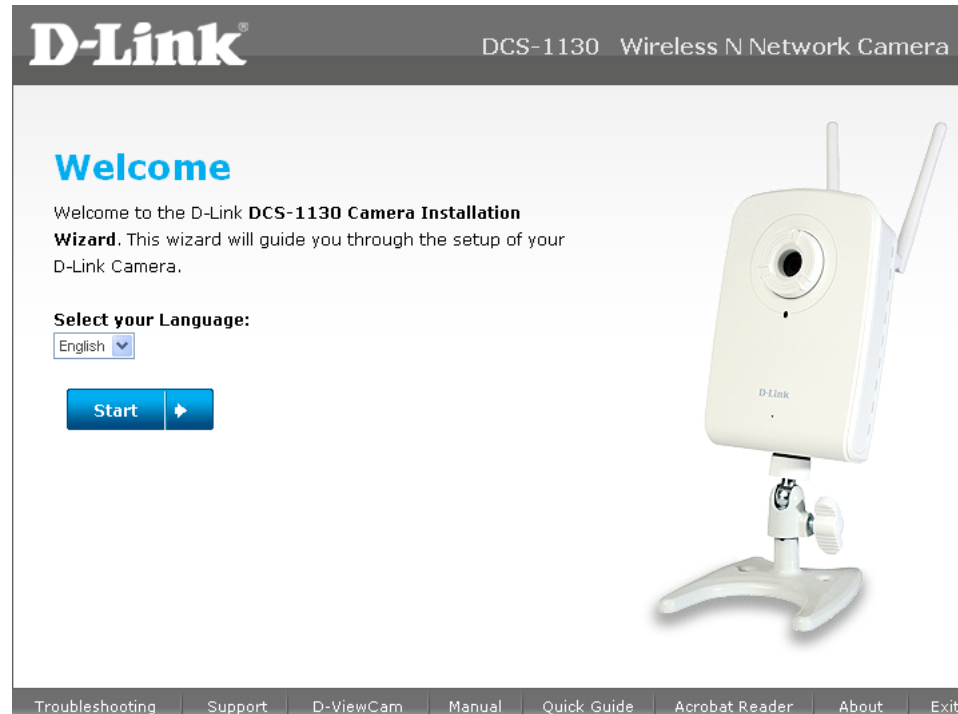


Installation

Starting the Camera Installation Wizard

Insert the Installation CD-ROM into your computer's CD-ROM drive to start the autorun program.

The CD-ROM will open the Camera Installation Wizard. Simply click **Start** to go through the Installation Wizard, which will help you through the entire installation process from connecting your hardware to configuring your camera.



Hardware Installation

Attach the Antennas (DCS-1130 only)

Screw the wireless antennas onto the antenna connectors.



Connect the Camera to the Camera Base

1. Screw the two camera base pieces together.
2. Screw the camera base into the mounting point on either the back or the bottom of the camera and tighten the collar.

You can adjust the angle and pivot of the camera by loosening the wheel and retightening it after moving it to the desired position.



Connect the Ethernet Cable

Connect one end of the blue Ethernet cable included in your package to the Ethernet port on the back of the DCS-1100/1130 camera. Connect the other end of the cable to an available LAN port on your router or broadband modem.



Connecting to a router



Connecting to a broadband modem

Connect the Power Adapter

Attach the power adapter to the power jack located on the back of the DCS-1100/1130 and connect the power adapter to a power outlet. After connecting the power adapter, you should see the status LED on the front of the camera turn on.

The status LED will light red when it receives power, will light green after the camera connects to the network, and will flash green when the camera is being accessed.



Connecting to a Wireless Network Using WPS (DCS-1130)

If your router supports WPS connection, you can connect your camera using the WPS button on the camera.

Press and hold the WPS button on the side of the camera for three seconds. The status LED on the front of the camera will turn blue.



Press the WPS button on your router within 60 seconds. The WPS button is usually on the front or side of your router. On some routers, you may need to log in to the web interface and then click on an onscreen button to activate the WPS feature. If you are not sure where the WPS button is on your router, please refer to your router's User Manual.

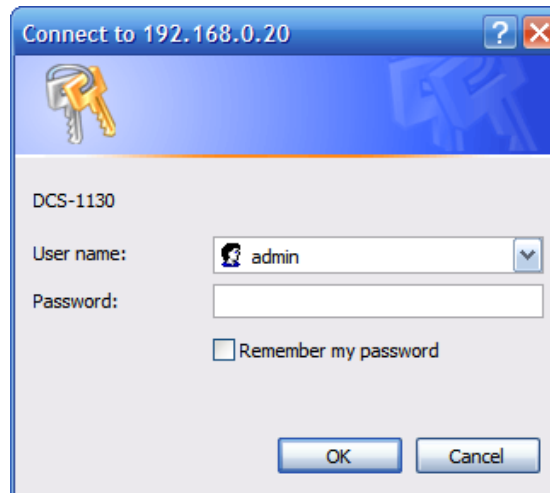


The DCS-1130 will then automatically create a wireless connection to your router. While connecting, your camera's LED will flash and then your camera will reboot. After rebooting, the status LED on the front of the camera will turn solid green.

Using the Configuration Menu

After completing the Camera Installation Wizard, you are ready to use your camera. The camera's built-in Web configuration utility is designed to allow you to easily access and configure your DCS-1100/1130. At the end of the wizard, click **Go To Camera**, or enter the IP address of your camera into a web browser, such as Internet Explorer®. To log in, use the User name **admin** and the password you created in the Installation Wizard. If you did not create a password, the default password is blank. After entering your password, click **OK**.

Note: If you are directly connecting your PC to the camera, or if you are using the camera on a closed network, the default IP is **192.168.0.20**.



Web-based Configuration Utility



Use the following sections to set up and configure your network camera:







- LIVE VIDEO
- SETUP
- MAINTENANCE
- STATUS
- HELP

Live Video

Live Video > Camera

This section shows your camera's live video and event indicators. You may select the available thumbnails for your options of predefined Video Profile, Full Screen mode, and action items of taking Snapshot, Recording, Set Storage Folder, Listen, Talk, and Digital Output. You may also select your language setting using the drop-down menu.

You can zoom in and out of the live video image using your mouse. Left-click to zoom in and right-click to zoom out on the image.

-  **Video Profile:** There are four different viewing profiles, which you can configure in **Setup > Audio and Video**.
-  **Full Screen:** This allows you to view the video in full screen mode. To exit full screen mode, press the **ESC** key on your keyboard.
-  **Snapshot:** Click to capture a snapshot image. The image will pop up in a new window. You may save this image to a local hard drive.
-  **Record Video:** Clicking this button will start or stop recording video to the file path specified with the **Set Storage Folder** button.
-  **Set Storage Folder:** You can change the folder where the video recordings will be saved.
-  **Start/Stop Audio:** This button toggles the built-in microphone on and off, allowing you to hear audio from the area surrounding your camera. Audio is on by default.



Setup

Setup > Wizard

The setup wizard guides you through the initial setup of your IP camera. You can use the **Internet Connection Setup Wizard** for initial network setup, and you can use the **Motion Detection Setup Wizard** to set up motion detection and snapshots. Simply follow the instructions given in each step of the wizard to quickly set up your camera.

Alternatively, you can manually set up your Internet connection by clicking **Manual Internet Connection Setup**, and you can manually set up motion detection options by clicking on **Manual Motion Detection Setup**. You can also see these settings by clicking on the menu on the left panel (**Network Setup** / **Wireless Setup** / **Motion Detection** / **Snapshot**).



Setup > Network Setup

Network Setup allows you to configure your LAN and Internet configuration.

DHCP Connection: This allows your camera to get an IP address automatically from your router or Internet service. If you are not sure which LAN settings to use, try using DHCP mode first.

Static IP Address: This allows you to manually set the IP address information for your camera.

IP Address: Enter the IP address the camera should use.

Subnet Mask: Enter the subnet mask that the camera should use.

Default Gateway: Enter the default gateway that the camera should use.

Primary DNS: Enter the IP address of the primary DNS server that the camera should use.

Secondary DNS: Enter the IP address of the secondary DNS server that the camera should use.

Note: If you need to use a static IP address and you do not know the network information, contact your Internet Service Provider (ISP) for assistance.



Enable UPnP: Universal Plug & Play (UPnP) allows Windows PCs to find this camera under “Network Neighborhood” without configuration.

Enable PPPoE: If you are using a PPPoE connection, enable it and enter the **User Name** and **Password** for your PPPoE account. You can get this information from your Internet service provider (ISP).

HTTP Port: This is the port that allows the user to connect to the camera’s user interface. By default the port is set to 80. You may change the port number if using multiple cameras.

RTSP Port: This is the port that you use for RTSP streaming to mobile devices or PDAs. By default the port is set to 554. You may change the port number if using multiple cameras.

Note: You **MUST** also set up your router/gateway for Port Forwarding/Mapping; this will enable remote viewing of your camera via the Internet. Please refer to your router’s instruction manual on how to open up ports. For additional help on configuring your camera to work with your router, please refer to **Appendix A: Installing the DCS-1100/1130 on a Router Without UPnP** on page 45. For installing multiple cameras, ONE port per camera must be opened on your router, the Web server (HTTP) port. Also, some browsers may restrict some ports, such as 1 or 22, for security purposes. If you have problems accessing your camera through HTTP, try using a port higher than 1024.

After making any changes, click the **Save Settings** button to save your changes, or click the **Don’t Save Settings** button to discard your changes.



Setup > Wireless (DCS-1130 only)

To set up your IP camera's wireless network interface settings, enable **Wireless Settings** in this window first, then enter the required settings.

Site survey: Click the **Rescan** button to scan for available wireless networks. After scanning, you can use the dropdown box to select an available wireless network. The related information (SSID, Wireless Mode, Channel, Authentication, Encryption) will be automatically filled in for you.

SSID: The SSID of the wireless access point you wish to use.

Wireless Mode: Use the dropdown box to select the mode of the wireless network you wish to connect to. **Infrastructure** is normally used to connect to an access point or router. **Ad-Hoc** is usually used to connect directly to another computer.

Channel: If you are using Ad Hoc mode, select the channel of the wireless network you wish to connect to, or select **Auto**.

Authentication: Select the authentication you use on your wireless network - **Open**, **Shared (WEP)**, **WPA-PSK**, or **WPA2-PSK**.

Encryption: If you use **WPA-PSK** or **WPA2-PSK** authentication, you will need to specify whether your wireless network uses TKIP or AES encryption. If you use **Open** or **Shared** authentication, this setting will be automatically set for you.

Key: If you use **WEP**, **WPA-PSK**, or **WPA2-PSK** authentication, enter the **Key** (also known as password) used for your wireless network.

After making any changes, click the **Save Settings** button to save your changes, or click the **Don't Save Settings** button to discard your changes.



Setup > Dynamic DNS

If you have a DSL or Cable service provider that changes your modem IP address periodically, Dynamic DNS (Domain Name Service), a method of keeping a domain name linked to a dynamic IP address, is useful. With most Cable and DSL connections, you are assigned a dynamic IP address and that address is used only for the duration of that specific connection. With the DCS-1100/1130, you can set up your DDNS service and the DCS-1100/1130 will automatically update your DDNS server every time it receives a different IP address. Depending on the service, this update may take a few hours.

Enable DDNS: Check this checkbox to enable the DDNS function of the camera.

Server Address: Use the dropdown box on the right to select a DDNS service.

Host Name: Type in the Host Name of the DDNS service.

User Name: Enter your User Name for the DDNS service.

Password: Enter the password for the DDNS service.

Verify Password: Retype the password for the DDNS service.

Timeout: This sets the number of hours between DDNS updates.

After making any changes, click the **Save Settings** button to save your changes, or click the **Don't Save Settings** button to discard your changes.



Setup > Image Setup

The options in **Image Setup** allow you to adjust the settings for your IP camera sensor and image.

Brightness: This adjusts the brightness of the camera image. This is set to 60 by default.

Saturation: This adjusts the color saturation of the camera image. This is set to 60 by default.

Contrast: This adjusts the contrast of the camera image. This is set to 0 by default.

Frequency: This option adjusts the camera sensor's setting to avoid the image flickering under certain light sources, such as florescent lights. This is set to **60Hz** by default.

White balance: You can change the white balance of the camera image by selecting a setting from the dropdown box. This is set to **Auto** by default.

B/W: Ticking this checkbox will change the camera image into black and white.

Flip: This will flip the image vertically.

Mirror: This will flip the image horizontally in such a way that your left side will be on the left side of the screen and vice versa.

Note: **Mirror** and **Flip** can be used if you choose to mount the DCS-1100/1130 upside down on the ceiling.



Setup > Audio and Video

You may configure four video profiles with different settings for your camera. You may also set up different profiles for your computer and mobile display. In addition, you may configure the audio (speakers and microphone) settings for your camera.

Encode Type: This sets the video codec used for the video stream. You can choose MPEG-4 or MJPEG (JPEG). Internet Explorer browsers can view both MPEG-4 and MJPEG video streams, and non-IE browsers can only view MJPEG video streams.

Resolution: This sets the display resolution of the video stream. If the Resolution is different than the Sensor Output size, the video will be shrunk or enlarged to the Resolution size you set here.

FPS: This sets the target number of frames per second (FPS) for the video stream. Higher frame rates will provide smoother video.

bps: This sets the target bitrate of the video stream. Higher bitrates will provide better quality video. When the Encode Type is set to MJPEG, you cannot change the bps setting. Also, available bps settings may change depending on what the Encode Type, Sensor Output, Resolution, and FPS settings are set to.

JPEG Quality: This sets the JPEG quality of any manual snapshots you take when this video profile is selected

RTSP URL: This setting allows you to set a suffix for your camera's RTSP URL so you can view your camera's video with this video profile's settings. For example, if you enter "mpeg4" as your RTSP URL setting and your camera's IP is 192.160.0.20, you can view your camera's video with these settings through 192.160.0.20/mpeg4.



Note: Video Profile 3 is always set to MJPEG as the Encode Type to ensure that at least one of the Video Profiles are viewable by non-IE browsers. Video Profile 4 is for mobile devices only, and always uses MPEG-4 as the Encode Type.

Enable Night Mode: Check this box to enable Night Mode. Night mode allows the camera to use a longer shutter speed when the camera is in a low-light environment. If the camera is in an area where there is sufficient lighting, Night Mode will not affect the video stream.

Shutter: This sets the longest shutter speed Night Mode will use when Night Mode is enabled and the camera is viewing a low-light scene.

Light Source: Here you can set the kind of lighting used in the area your camera is monitoring to improve the image quality of the video.

Enable Microphone: Checking this box will enable you to listen to audio picked up by the camera's microphone. This will allow you to hear what is happening near your camera.

Volume: This sets the volume level of the incoming audio.

Note: Higher frame size, frame rate and bit rates will give you better video quality, but they will also require more network bandwidth. For best viewing results on a mobile phone, we suggest setting the frame rate to 5 fps and bit rate to 20 Kbps.

After making any changes, click the **Save Settings** button to save your changes, or click the **Don't Save Settings** button to discard your changes.



Setup > Motion Detection

This option allows you to set up Motion Detection on your IP camera. In order to use motion detection, you must first check the **Enable Video Motion** checkbox. You can then click on the video window and draw motion detection zones by clicking and dragging your mouse. Red areas indicate areas that will be monitored for motion.

Sensitivity: This setting adjusts how sensitive the camera will be to motion, where 100% will be the most sensitive setting and 0% will be the least sensitive setting.

Drawing Mode: This will allow you to draw motion detection zones when clicking and dragging, or erase motion detection zones when clicking and dragging, depending on which option you have selected.

Clear: Clicking this button will clear all motion detection zones.

After making any changes, click the **Save Settings** button to save your changes, or click the **Don't Save Settings** button to discard your changes.



Setup > Time and Date

This option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server. Daylight Saving can also be configured to automatically adjust the time when needed.

Time Zone: Select your time zone from the drop down menu.

Enable Daylight Saving: If your region uses a Daylight Saving adjustment, check this checkbox.

Auto Daylight Saving: This option will adjust Daylight Saving Time automatically.

Set date and time manually: Selecting this will let you set the Daylight Saving Time adjustment manually:

- **Daylight Saving Offset:** This will set the Daylight Saving adjustment that will be used.
- **Daylight Saving Date:** This will set the beginning and ending dates of the Daylight Saving period.

Synchronize with NTP Server: Checking this checkbox will allow the camera to automatically synchronize its clock with an NTP server.

NTP Server: Use the dropdown box to the right to select an NTP server to use, or you can type one in.

Set date and time manually: Check this checkbox to set the time and date manually. You can then use the dropdown boxes to select the current **Year**, **Month**, **Day**, **Hour**, **Minute**, and **Second**. You can also click the **Copy Your Computer's Time Settings** button to automatically fill in the dropdown boxes with the current time and date from your computer.

After making any changes, click the **Save Settings** button to save your changes, or click the **Don't Save Settings** button to discard your changes.



Setup > Recording

This option allows you to configure recording settings and scheduling. You can record video to a Samba network drive on your local network.

Enable recording: Check this checkbox to enable the recording feature. After enabling recording, you will need to select a scheduling method.

Samba Auth: Here, select Anonymous if no user name or password is required to access your Samba drive. If you require a user name and password to log in to your Samba drive, select **Account** and fill in the following information:

User name: Enter the user name required to access your Samba drive.

Password: Enter the password required to access your Samba drive.

Password confirm: Re-enter the password required to access your Samba drive for verification.

Server: Enter the name or the IP of the server where your Samba drive is located.

Shared Folder: Enter the name of your shared folder.

Test: Click this button to make a connection to the Samba network drive, and it will let you know if the settings work.

Note: You can create a simple Samba network drive on your Windows PC by right-clicking a folder, selecting **Sharing and Security...**, and selecting **Share this folder**. Enter a **Share name** you would like to use for the folder, then click the **Permissions** button and check the box for **Full Control / Allow** for the **Everyone** group. For your camera's Recording settings, use Anonymous for the Samba Auth, your computer's IP address for the Server, and the Share name you chose for the Shared Folder. Click on the Test button to test your settings.

Please note that when creating a simple network drive like this, all users on your local network will have access to the contents of this folder.



Recording Options

Resolution: This will let you set which video profile you wish to use to record video. Please note that if the bitrate (bps) of the video profile is higher than your Samba network drive's throughput, the recording's framerate (FPS) may be reduced.

Record until: You can use this setting to adjust how much free space must remain when recording. It is suggested that you set this to at least 32M to allow for enough buffer space for the camera to record with.

When storage is full: When your storage device is full or has reached the free space limit specified in Record until, you can choose to stop recording, or you can have the camera delete old recordings to free space for new recordings to be saved.

Event Based: Event based recording will allow you to record video when specific events happen.

Motion detection triggered recording: Enabling this option will set the camera to record video when motion is detected by the camera.

Prerecord: This will set how many seconds of video before the event takes place will be recorded.

Postrecord: This will set how many seconds of video after the event takes place will be recorded.

Example: Using motion detection triggered recording and setting Prerecord to 5 seconds and Postrecord to 9 seconds, the camera will save video from 5 seconds before motion was detected to 9 seconds after motion was detected.

Continuous: This will set the camera to record continuously.

Scheduled Recording: This will set the camera to automatically record video during the specified times in the table below.

After making any changes, click the **Save Settings** button to save your changes, or click the **Don't Save Settings** button to discard your changes.

RECORDING

Enable recording

Record to Samba network drive:

Samba Auth: Anonymous

User name:

Password:

Password confirm:

Server:

Shared folder:

Test:

Samba status: Disabled

Recording Options

Resolution: profile 1

Record until: 100 MB of free space is left (minimum is 32MB)

When storage is full:

Stop recording

Overwrite older recordings

Recording Method

Event Based (Motion detection triggered recording)

Prerecord: 0 seconds (range 0 to 15 seconds)

Postrecord: 0 seconds (range 0 to 15 seconds)

Continuous (Samba only)

Scheduled (Samba only)

		Hours	Minutes	Hours	Minutes
<input checked="" type="checkbox"/> Sun	Start	0	: 0	End	24 : 0
<input checked="" type="checkbox"/> Mon	Start	0	: 0	End	24 : 0
<input checked="" type="checkbox"/> Tue	Start	0	: 0	End	24 : 0
<input checked="" type="checkbox"/> Wed	Start	0	: 0	End	24 : 0
<input checked="" type="checkbox"/> Thu	Start	0	: 0	End	24 : 0
<input checked="" type="checkbox"/> Fri	Start	0	: 0	End	24 : 0
<input checked="" type="checkbox"/> Sat	Start	0	: 0	End	24 : 0

Setup > Snapshot

Here, you can set the camera to take snapshots when motion is detected. Snapshots can be sent to an e-mail address and/or to an FTP server.

Enable Snapshot: Check this box to enable the snapshot feature.

Event Based (Motion Detection): This will set the camera to take a snapshot whenever motion is detected.

Continuous (FTP only): This will set the camera to take snapshots continuously at intervals specified in **FTP Server > Interval** below. You can only save to an FTP server when taking continuous snapshots.

Scheduled (FTP only): This will set the camera to take snapshots continuously at intervals specified in **FTP Server > Interval** below according to schedule you define by checking days and entering the times you want to record between. You can only save to an FTP server when taking scheduled snapshots.



E-mail Address: When checked, the camera will send the snapshots it takes to the e-mail address specified in the following text boxes. If you do not know what to enter for the User Name, Password, or SMTP Mail Server, contact your e-mail service provider for details.

User Name: Enter the username or login name for your e-mail account.

Password: Enter the password for your e-mail account.

SMTP Mail Server: Enter the SMTP server for your e-mail account.

Sender E-mail Address: Enter the e-mail address you want to appear as the “From:” e-mail address in the snapshot e-mail.

Recipient E-mail Address: Enter the e-mail address you want to send your snapshots to.

Port: Enter the port used by your SMTP server.

Test: Clicking this button will take a snapshot and will try to upload it to your FTP server using the settings you have entered.

The screenshot shows the configuration page for a D-Link camera. The page title is "Snapshot". It contains the following sections:

- Enable Snapshot:** A checkbox to enable the snapshot feature. Below it, a note states: "In order to enable your camera to take snapshots, you must select the checkbox of Enable Snapshot. Then, you can determine the trigger event(s) and/or email notification(s)." There are "Save Settings" and "Don't Save Settings" buttons.
- Scheduling:** A section with three options:
 - Event Based (Motion Detection)
 - Continuous (FTP only)
 - Scheduled (FTP only)
 Below these are seven rows for days of the week (Sun-Sat), each with a "Start" checkbox and a time selection table with "Hours" and "Minutes" columns.
- Send to:** A section with two main options:
 - Email Address: Includes fields for "User Name", "Password", "SMTP Mail Server", "Sender E-mail Address", "Recipient E-mail Address", and "Port" (with a range of 1-65535).
 - FTP Server: Includes fields for "User Name", "Password", "Host Name", "Path", and "Filename Prefix".

FTP Server: When checked, the camera will send the snapshots it takes to the e-mail address specified in the text fields. If you do not know what information to enter, contact the administrator of the FTP server for details.

User Name: Enter the User Name of your FTP account.

Password: Enter the Password of your FTP account.

Host Name: Enter the Host Name of your FTP account.

Path: Enter the file path to the location on the FTP server you want to send snapshots to.

Filename Prefix: Enter the prefix you want to attach to your snapshot files.

Port: Enter the port used by the FTP server.

Interval: Enter the time interval the camera will wait before taking a new snapshot.

Passive Mode: If your FTP server requires you to use passive mode, check this box.

Test: Clicking this button will take a snapshot and will try to upload it to your FTP server using the settings you have entered.

After making any changes, click the **Save Settings** button to save your changes, or click the **Don't Save Settings** button to discard your changes.

SNAPSHOT

Enable Snapshot

Scheduling

Event Based (Motion Detection)

Continuous (FTP only)

Scheduled (FTP only)

		Hours	Minutes	Hours	Minutes
<input checked="" type="checkbox"/> Sun	Start	00	: 00	End	24 : 00
<input checked="" type="checkbox"/> Mon	Start	00	: 00	End	24 : 00
<input checked="" type="checkbox"/> Tue	Start	00	: 00	End	24 : 00
<input checked="" type="checkbox"/> Wed	Start	00	: 00	End	24 : 00
<input checked="" type="checkbox"/> Thu	Start	00	: 00	End	24 : 00
<input checked="" type="checkbox"/> Fri	Start	00	: 00	End	24 : 00
<input checked="" type="checkbox"/> Sat	Start	00	: 00	End	24 : 00

Send to:

E-mail Address:

User Name:

Password:

SMTP Mail Server:

Sender E-mail Address:

Recipient E-mail Address:

Port: (range 1 to 65535)

FTP Server:

User Name:

Password:

Host Name:

Path:

Filename Prefix:

Port: (range 1 to 65535)

Interval: Seconds (range 1 to 86400 seconds)

Passive Mode:

Maintenance

Maintenance > Admin

Here you can change the Admin password, add and manage Users, and adjust some camera settings.

Admin Password Setting: This section lets you change the admin password used to log in to the camera and adjust settings. After installing the camera for the first time, it is highly recommended that you change the admin password for security purposes.

New Password: Enter the new admin password.

Retype Password: Enter the new admin password again for verification. After entering the new password again, click on the **Save** button to save your changes.

Add User Account: The admin can create user accounts to allow others to log in to your camera to view the live camera feed.

User Name: Enter the User Name you wish to use for the new user account.

New Password: Enter the password for the new user account.

Retype Password: Re-enter the password for the new user account for verification. After entering the password again, click **Add** to add the new user account.

User List: Here, you can view the current list of users by using the dropdown box. You can also delete a user by

The screenshot shows the D-Link camera web interface. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'MAINTENANCE' tab is selected, and the 'ADMIN' sub-tab is active. The page title is 'ADMIN'. The main content area is divided into several sections:

- ADMIN PASSWORD SETTING:** Contains fields for 'New Password' (with a '33 characters maximum' warning) and 'Retype Password' (with a 'Save' button).
- ADD USER ACCOUNT:** Contains fields for 'User Name' (with a '20 users maximum' warning), 'New Password' (with a '30 characters maximum' warning), and 'Retype Password' (with an 'Add' button).
- USER LIST:** Contains a 'User Name' dropdown menu and a 'Delete' button.
- DEVICE SETTING:** Contains a 'Camera Name' field (with a '33 characters maximum' warning), a checked 'Enable OSD' checkbox, a 'Label' field (with 'DCS-1130' entered), a 'Show time' checkbox, and 'LED light' controls (On/Off) with a 'Save' button.

On the right side, there is a 'Help/FAQ' section with text: 'For security purposes, it is recommended that you change the password for your administrator account. Be sure to write down the new password to avoid having to reset the camera in the event that it is forgotten. Enabling OSD, the Camera name and label will be displayed on the video screen.'

selecting them with the dropdown box, and then clicking the **Delete** button.

Device Setting: Here, you can change various other settings for your camera.

Camera Name: Enter the name of your camera.

Enable OSD: This will enable the information bar On Screen Display (OSD) to appear when viewing video.

Label: This is the text label that will appear on the OSD.

Show time: If checked, the current time will be displayed on the OSD.

LED light: This will turn the camera's front LED indicator on or off.

After making any changes to this section, click the **Save** button to save your changes.

The screenshot shows the D-Link web interface for camera configuration. The page title is "D-Link" and the breadcrumb is "Product: DCS-1130 Firmware Version: 1.00". The navigation menu includes LIVE VIDEO, SETUP, PASSWORDS, STATUS, and HELP. The main content area is titled "ADMIN" and contains sections for "ADMIN PASSWORD SETTING", "ADD USER ACCOUNT", "USER LIST", and "DEVICE SETTING". The "DEVICE SETTING" section shows fields for Camera Name (DCS-1130), Enable OSD (checked), Label (DCS-1130), Show time (checked), and LED light (On). A "Save" button is at the bottom of the section.

Maintenance > System

This screen allows you to save and restore the camera's current configuration. You can also reset all settings to factory default or reboot the device.

Save To Local Hard Drive: Click on the **Save Configuration** button to save the current configuration to a hard drive.

Load From Local Hard Drive: To load a saved configuration, click on the **Browse** button to select a configuration file from your hard drive. Then, click the **Load Configuration** button to load the new configuration.

Restore To Factory Defaults: Click this button to reset all settings to their factory defaults. If you choose to reset your settings, you will need to set up your camera again.

Reboot Device: Clicking the **Reboot** button will reboot your device.



Maintenance > Firmware Upgrade

Your current firmware version and date will be displayed on this page. Here, you can also upgrade your firmware with a new version.

Firmware upgrades are made available at support.dlink.com.tw.

To upgrade your firmware, go to support.dlink.com.tw and download the latest firmware to your computer's hard drive. Click on **Browse**, select the firmware file, then click the **Upload** button. While the firmware is being upgraded, do not turn off your computer or camera, and do not disconnect your network connection from your computer or camera. Upgrading the firmware will not change any of your system settings, but it is recommended that you save your system configuration before doing a firmware upgrade.

Note: It is recommended that you use a wired connection for your computer and camera when upgrading the firmware.



Status

Status > Device Info

This screen shows you various information about your camera and its current settings.



Product: DCS-1130 Firmware version: 1.00

D-Link

LEVE VIDEO SETUP MAINTENANCE STATUS HELP

Device Info

Device Info

All of your network connection details are displayed on this page. The firmware version is also displayed here.

Helpful Hints...
This page displays all the information about the camera and network settings.

INFORMATION

Camera Name	DCS-1130
Time & Date	Thu Jan 1 12:23:06 1909
Firmware Version	1.00, 2519
MAC Address	89:01:23:45:67:89
IP Address	192.168.0.23
IP Subnet Mask	255.255.255.0
Default Gateway	192.168.0.1
Primary DNS	
Secondary DNS	
PPPoE	Disable
DDNS	Disable

SECURITY

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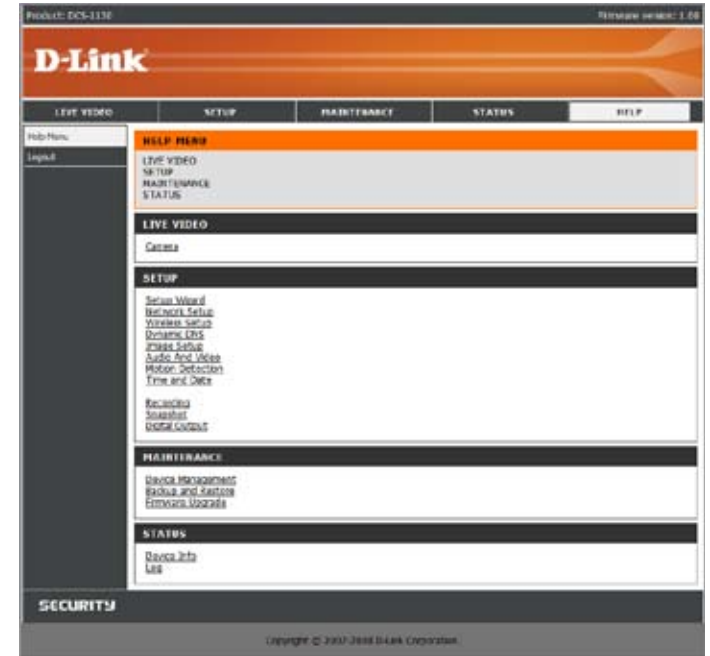
Status > Log

The log shows you a list of events that have happened recently. You can download the log by clicking the **Download** button, or you can empty the log by clicking the **Clear** button.



Help

The Help screen provides you with support information about the DCS-1100/1130 for your reference.



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DCS-1100/1130. Read the following descriptions if you are having problems. (The examples below are illustrated in Windows® Vista™ and XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.)

1. What is Remote Access? How do I enable it?

Remote Access allows you to access your camera from any PC connected to the Internet through a web browser. This lets you view your camera feed and manage your camera's settings when you're away from home.

To enable Remote Access, simply go through the Camera Installation Wizard included on the Installation CD that came in your package. You can also download the wizard from the following websites:

DCS-1100: <http://dcs-1100.mydlink.com>

DCS-1130: <http://dcs-1130.mydlink.com>

After going through the wizard, you should see Remote Status: Enabled on the summary page.

If you see Remote Status: Disabled, make sure that:

- ...the front LED on your camera is lit solid green
- ...your Internet connection is working
- ...your router's LAN & WAN connections are working properly
- ...your router has UPnP enabled (if your router does not support UPnP, please refer to Appendix A)
- ...your router can get a public IP
- ...your router is upgraded to the latest firmware
- ...you have tried rebooting your router by unplugging it, then plugging it back in

After checking the above items, you can click the **Retry** button to refresh the summary screen to see if Remote Access has been enabled.

2. What can I do if I forget my password?

If you forget your password, you will need to perform a hard reset of your camera. This process will change all your settings back to the factory defaults.

To reset your camera, please use an unfolded paperclip to press and hold the **RESET** button for at least 6 seconds while your camera is plugged in.

3. In addition to using mydlink.com, is there another way to access my camera remotely over the Internet?

Yes, you can access your camera over the Internet through the following URL after successfully installing your camera through the Camera Installation Wizard:

`http://[mydlink No.].mydlink.com`

For example, if your camera's mydlink No. was 12345678, you would be able to access your camera remotely by opening your web browser and going to `http://12345678.mydlink.com`

This URL will open a webpage where you will be asked to log in by entering your camera's password. After entering your password, your camera's Live View window will open, and you will be able to configure your camera as well.

Appendix A: Installing the DCS-1100/1130 on a Router Without UPnP

If you connect your camera to an Internet router that does not support UPnP, you can assign your camera to a DMZ connection on your router. For more details, refer to your router's User Manual for more details on configuring your camera to use a DMZ connection.

If you have multiple cameras you wish to connect, or if you do not want to use DMZ, follow these steps to allow multiple remote access to your cameras:

- 1) Identify your camera on the network
- 2) Assign a local IP address and port for your camera
- 3) Determine your router's WAN IP Address (Enable Remote Viewing)
- 4) Open virtual server ports for your router (Enable Remote Viewing)

1) Identify Your Camera on the Network

- Log in to your camera's web interface from a computer on the same local (home) network
- Click on the **MAINTENANCE** tab, and select **Device Management**
- Enter a unique **Camera Name** for your camera

Note: Giving your camera a unique name is important when setting up multiple cameras on your network.



2) Assign an IP Address and Port for Your Camera

- Click on the **SETUP** tab, and select **Network Setup**

A local IP address is required to configure your camera and to view your camera within your local network. You may use the default camera IP address of 192.168.0.20. If you wish to use a different IP address, be sure that the camera settings correspond to your network settings. The **Default Gateway** will be the IP address of your router's local IP address (e.g.192.168.0.1, if you are using a D-Link router).



3) Open the HTTP Port

The **HTTP port** option under **Port Detail Settings** is used when multiple cameras are being installed behind a single public IP address and will be accessed remotely OR for using a port other than the default port for image viewing. For each additional camera that is installed, you must assign the appropriate Web server port for each camera to enable remote viewing.

By default, port 80 (Web server port) is open. If these ports are available for use, you **DO NOT** have to open a second port and can proceed to the next section.

If port 80 is not available (for example, if you are already using port 80 to run a Web server or your ISP blocks access on port 80), you **MUST** open a second port and designate a new Web server port (800, 801, 802, etc.). Similarly, if port 554 is not available, you will need to open a different port for RTSP.

Note: Be sure to take note of these settings since these same settings will be used to configure your router.

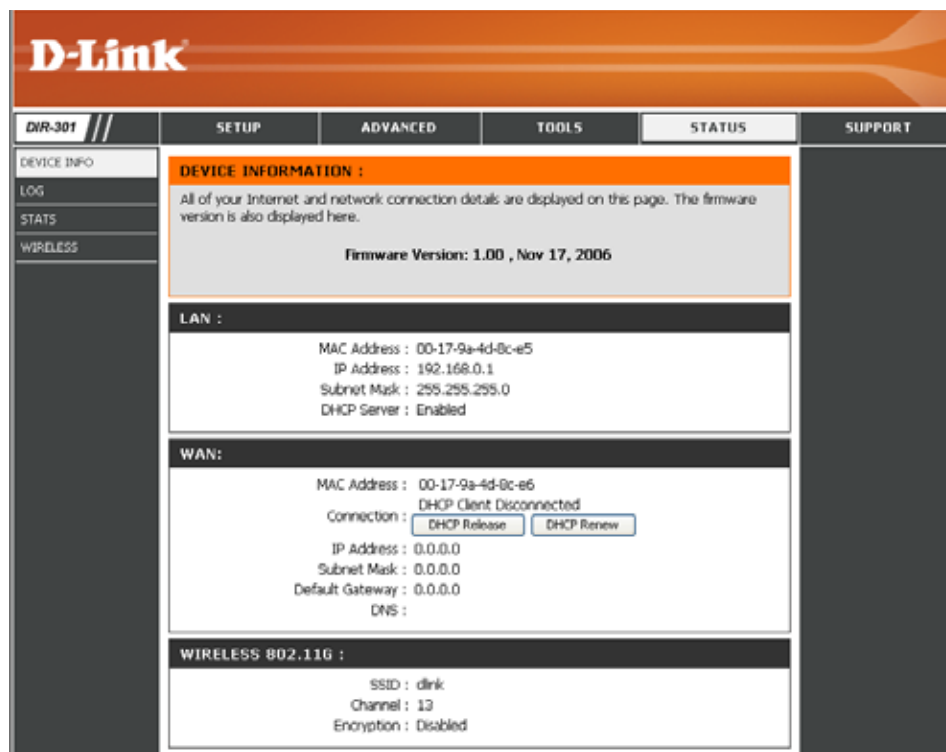
Note: Some ISPs block traffic on commonly used ports like port 80 to disallow consumers from putting a server on their network. Be sure to check with your ISP so that you can open the appropriate ports accordingly. If your ISP does not pass traffic on port 80, you will need to change the Web server port the camera uses from 80 to something else, like 800. If you are behind a residential gateway, you will need to open a corresponding port on your gateway as well. Not all gateways are the same. Please refer to your gateway's user's manual for specific instructions on how to forward ports.



Router Setup

The following steps generally apply to any router that you have on your network. The D-Link DIR-301 is used as an example to clarify the configuration process.

Note: Because a dynamic WAN IP address can change from time to time depending on your ISP, you may want to obtain a Static IP address from your ISP. A Static IP address is a fixed IP address that will not change over time and will be more convenient for you to use to access your camera from a remote location. You can also use DDNS to obtain an IP address. Please refer to page 23 for more information.



The screenshot displays the D-Link DIR-301 web interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar contains links for DEVICE INFO, LOG, STATS, and WIRELESS. The main content area is titled "DEVICE INFORMATION" and provides details for LAN, WAN, and WIRELESS 802.11G settings.

DEVICE INFO	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
LOG	DEVICE INFORMATION : All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here. Firmware Version: 1.00 , Nov 17, 2006				
STATS	LAN : MAC Address : 00-17-9a-4d-8c-e5 IP Address : 192.168.0.1 Subnet Mask : 255.255.255.0 DHCP Server : Enabled				
WIRELESS	WAN: MAC Address : 00-17-9a-4d-8c-e6 Connection : DHCP Client Disconnected <input type="button" value="DHCP Release"/> <input type="button" value="DHCP Renew"/> IP Address : 0.0.0.0 Subnet Mask : 0.0.0.0 Default Gateway : 0.0.0.0 DNS :				
	WIRELESS 802.11G : SSID : dlink Channel : 13 Encryption : Disabled				

4) Use Port Forwarding to Enable Remote Image Viewing

You will need to use port forwarding on your router to open ports for remote access to your camera. This is sometimes referred to as Virtual Server Settings. Please proceed as follows:

- Go to the **Port Forwarding** section of your router.
- Enter a **Name** for the port forwarding rule, such as your camera name.
- Enter your camera's IP address in the private/local IP field.
- Select **TCP** under **Traffic Type**.
- Enter the **HTTP port** your camera is set to use in the **Start and End** settings.

Note: If you are using more than one camera, you will need to select a different public port for each camera. If you cannot use port 80 for your public port (for example, if you are already running a web server), select a different public port for your camera.

- In the Port Forwarding list, a check mark appearing before the camera name will indicate that the port forwarding rule is enabled.
- Click **Save Settings** to save your settings.

You will need to repeat these steps to open an RTSP port for your camera (port 554 by default).



Viewing Your Camera Over the Internet

After all settings have been entered correctly, a user inside or outside your network will have access to the camera through a standard Web browser. To access your camera, simply type in the IP address of the router given to you by your ISP, a colon, and the HTTP port number that you gave your camera.

`http://<ip address>:<port>`

To access your camera's video streams directly, open your PC's/device's web browser or media player and type in the IP address of the router given to you by your ISP, a colon, the RTSP port number that you gave your camera, then the type of video stream you want to view as follows:

3GPP stream (mobile phone / pda): `rtsp://<ip address>:<port>/3gpp`

For example, if your camera's IP is 192.168.0.35 and you set the RTSP port to 100,
`rtsp://192.168.0.35:100/3gpp`

To access your camera from a computer on your local (home) network, simply enter the local IP address of your camera (i.e. 192.168.0.35). If using a port other than port 80, you must enter the IP address followed by a colon and the assigned port number.

Note: If your camera is connected to the Internet, you can also use the Camera IP given to you on the stickers inside your box.

Viewing Your Camera Over the Internet Behind a Router

If you want to view one of your cameras over the Internet and your PC is behind a router or firewall, you may also need to activate port triggering. This will allow you to open the necessary ports in order to view video from your camera. Consult your router/firewall's User Manual, and use the following information to set up port triggering:

- Port trigger: 554 (if you have changed the RTSP port on your camera, use that number here)
- Ports to open: 6970-6990

Appendix B: Technical Specifications

System Requirements

- Operating System: Microsoft Windows 2000, XP, Vista
- Browser: Internet Explorer, Firefox, Opera

Networking Protocol

- IPv4, ARP, TCP, UDP, ICMP
- DHCP Client
- NTP Client
- DNS Client
- DDNS Client
- SMTP Client
- FTP Client
- HTTP Server
- Samba Client
- PPPoE
- RTP
- RTSP
- RTCP
- 3GPP
- UPnP Port Forwarding

LAN

- 10/100BASE-TX port
- IEEE 802.3 compliant
- IEEE 802.3u compliant
- Supports Full-Duplex operation
- MDI/MDIX auto-negotiation
- 802.3x Flow Control support for Full-Duplex mode

Wireless Connectivity

(DCS-1130 only)

- 802.11 n/g Wireless with WEP/WPA/WPA2 Security
- WPS Support

Sensor

- ¼ inch color VGA CMOS Sensor

Lens

- Focal length: 5.01mm, F2.8

Microphone

- Signal/noise ratio: 40dB +/- 3dB, Omni-directional

Reset Button

- Reset to factory default

Video Codec

- MPEG-4/MJPEG simultaneous dual-format compression
- JPEG for still image

Video Features

- Adjustable image size and quality
- Time stamp and text overlay
- Flip and Mirror
- Fully configurable motion detection window

Video Resolution

- VGA (640 x 480):
 - 640 x 480 at 30fps
 - 320 x 240 at 30fps
 - 160 x 120 at 30fps

Audio Codec

- GSM-AMR: 12.2Kbps
- PCM: 8Kbps

Light Sensitivity

- 1 lux@F2.8

Digital Zoom

- Up to 16X

3A Control

- AGC (Auto Gain Control)
- AWB (Auto White Balance)
- AES (Auto Electronic Shutter)

Power

- Input: 100-240VAC, 50/60Hz
- Output: 5VDC, 2.5A
- Powered by an external power adapter
- Maximum power consumption
 - DCS-1100: 4W
 - DCS-1130: 6.3W

Dimensions (WxDxH)

- 120.0mm x 81.5mm x 38.0mm
(without bracket and stand)

Weight

- DCS-1100: 250g (without bracket and stand)
- DCS-1130: 280g (without bracket and stand)

Operation Temperature

- 0° to 40°C (32° to 104°F)

Storage Temperature

- - 20° to 70°C (-4° to 158°F)

Humidity

- 20-80% RH non-condensing

Emission (EMI), Safety & Other Certifications

- FCC Class B
- IC
- C-Tick
- CE

Contacting Technical Support

U.S. and Canadian customers can contact D-Link technical support through our website or by phone.

Before you contact technical support, please have the following ready:

- Model number of the product (e.g. DCS-1130)
- Hardware Revision (located on the label on the bottom of the Network Camera (e.g. rev A1))
- Serial Number (s/n number located on the label on the bottom of the Network Camera).

You can find software updates and user documentation on the D-Link website as well as frequently asked questions and answers to technical issues.

For customers within the United States:

Phone Support:
(877) 354-6555

Internet Support:
<http://support.dlink.com>

For customers within Canada:

Phone Support:
(877) 354-6560

Internet Support:
<http://support.dlink.ca>

Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. (“D-Link”) provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor, and
- Only for products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, or addresses with an APO or FPO.

Limited Warranty:

D-Link warrants that the hardware portion of the D-Link product described below (“Hardware”) will be free from material defects in workmanship and materials under normal use from the date of original retail purchase of the product, for the period set forth below (“Warranty Period”), except as otherwise stated herein.

- Hardware (excluding power supplies and fans): One (1) year
- Power supplies and fans: One (1) year
- Spare parts and spare kits: Ninety (90) days

The customer’s sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link’s option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement hardware need not be new or have an identical make, model or part. D-Link may, at its option, replace the defective Hardware or any part thereof with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement hardware will be warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, the actual price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware or part thereof that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty:

D-Link warrants that the software portion of the product (“Software”) will substantially conform to D-Link’s then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days (“Software Warranty Period”), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer’s sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link’s option, to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link’s functional specifications for the Software or to refund the portion of the actual purchase price paid that is attributable to the Software. Except as otherwise agreed by DLink in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty:

The Limited Warranty provided hereunder for Hardware and Software portions of D-Link’s products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold “As-Is” without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim:

The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow DLink to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-354-6555, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization (“RMA”) number by completing the RMA form and entering the assigned Case ID Number at <https://rma.dlink.com/>.

- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. DLink will only replace the defective portion of the product and will not ship back any accessories.
- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery (“COD”) is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link’s reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered:

The Limited Warranty provided herein by D-Link does not cover:

Products that, in D-Link’s judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; and Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product.

While necessary maintenance or repairs on your Product can be performed by any company, we recommend that you use only an Authorized D-Link Service Office. Improper or incorrectly performed maintenance or repair voids this Limited Warranty.

Disclaimer of Other Warranties:

EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED “AS-IS” WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO THE DURATION OF THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

Limitation of Liability:

TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF REVENUE OR PROFIT, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTED WITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NONCONFORMING PRODUCT. THE MAXIMUM LIABILITY OF D-LINK UNDER THIS WARRANTY IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT COVERED BY THE WARRANTY. THE FOREGOING EXPRESS WRITTEN WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ANY OTHER WARRANTIES OR REMEDIES, EXPRESS, IMPLIED OR STATUTORY.

Governing Law:

This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This Limited Warranty provides specific legal rights and you may also have other rights which vary from state to state.

Trademarks:

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CE Mark Warning:

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Statement:

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

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

FCC Caution:

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

If this device is going to be operated in 5.15 ~ 5.25GHz frequency range, then it is restricted in indoor environment only.

IMPORTANT NOTICE:

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 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.

Industry Canada Notice:

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

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

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 20cm between the radiator and your body.

This device has been designed to operate with an antenna having a maximum gain of 2 dB. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Registration



Product registration is entirely voluntary and failure to register will not diminish your warranty rights.

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