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You can read the recommendations in the user guide, the technical guide or the installation guide for D-LINK DCS-900. You'll find the answers to all your questions on the D-LINK DCS-900 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual D-LINK DCS-900**  
**User guide D-LINK DCS-900**  
**Operating instructions D-LINK DCS-900**  
**Instructions for use D-LINK DCS-900**  
**Instruction manual D-LINK DCS-900**



## DCS-900

Internet Camera

Manual  
Version 1.50



**D-Link**

Building Networks for People  
(10/04/04)



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...93 2 Package Contents · One DCS-900 Internet Camera · One Installation CD-ROM · One AC power adapter · One Camera Stand · One Category 5 Ethernet Cable If any of the above items are missing, please contact your reseller. System Requirements: Local Area Network: 10Base-T Ethernet or 100BaseTX Fast Ethernet Recommended: PC, Mac or Notebook to access the Internet Camera Web Configuration · Java Enabled and Compliant Web Browser (recommended) · CPU: Pentium III, 450MHz or above · Memory Size: 128MB recommended · VGA card resolution: 800x600 or above IPView Lite Configuration · Windows XP, Me, 2000, 98SE · CPU: Pentium III, 850MHz or above · Memory Size: 128MB (256MB recommended) · VGA card resolution: 800 x 600 or above 3 Introduction Congratulations on your purchase of the DCS-900 Internet Camera! The DCS-900 is a versatile and unique solution for your small office or home. Unlike a PC Camera, the DCS-900 is a stand-alone system with a built-in CPU and Web server that transmits high quality video images for monitoring. The DCS-900 can be accessed remotely, and controlled from any PC/Notebook over the Intranet or Internet via a web browser. The simple installation procedure and intuitive web-based interface offer easy integration with your Ethernet or Fast Ethernet network. The DCS-900 also comes with remote monitoring capability for a complete and cost-effective solution. Features & Benefits Simple to Use The DCS-900 is a stand-alone system with a built-in CPU, requiring no special hardware or software such as PC frame grabber cards.

The DCS-900 supports both ActiveX mode for Internet Explorer and Java mode for Internet Explorer and Netscape Navigator. All that is required is a computer with current Web browser software. Supports a Variety of Platforms Supporting TCP/IP networking, HTTP, and other Internet related protocols, the DCS-900 can be utilized in a mixed operating system environment such as Windows, Unix, and Macintosh. It can also be integrated easily into other Internet/Intranet applications because of its standards-based features. Ethernet or Fast Ethernet Support The DCS-900 supports traditional wired transmission, making the DCS-900 easy to integrate into your existing network environment.

The DCS-900 works with a 10Mbps Ethernet based network or 100Mbps Fast Ethernet based network. 4 Features & Benefits (continued) Web Configuration Using a standard Web browser, Administrators can configure and manage the Internet Camera directly from its own Web page via the Intranet or Internet. This means you can access your DCS-900 at anytime from anywhere in the world! Remote Monitoring Utility The IPView Lite application adds enhanced features and functionality for the Internet Camera and allows administrators to configure and access the Internet Camera from a remote site via Intranet or Internet. Other features include image monitoring, recording images to a hard drive, viewing up to 4 cameras on one screen, and taking snapshots. Broad Range of Applications With today's high-speed Internet services, the Internet Camera can provide the ideal solution for live video images over the Intranet and Internet for remote monitoring.

The Internet Camera allows remote access from a Web browser for live image viewing and allows the administrator to manage and control the Internet Camera at anytime, from anywhere in the world. Many applications exist, including industrial and public monitoring of homes, offices, banks, hospitals, child-care centers, and amusement parks. 5 Connections Rear Panel view Ethernet Cable Connector Reset Button DC Power Connector Network Cable Connector The DCS-900 features an RJ-45 connector for connections to 10Base-T Ethernet cabling or 100Base-TX Fast Ethernet cabling (which should be Category 5 UTP cable). The port supports the NWay protocol, allowing the DCS-900 to automatically detect or negotiate the transmission speed of the network. DC Power Connector The DC power input connector is labeled DC 5V with a single jack socket to supply power to the DCS-900. Reset Button Reset will be initiated when the reset button is pressed once and Power LED begins to flash. Factory Reset will be initiated when the reset button is pressed continuously for three seconds or when the Power LED begins to light up. Release the reset button and the Power LED will begin to flash indicating that the DCS-900's settings are reverting back to the factory settings. The IP address will also return to the default setting of 192.168.

0.20. 6 Connections (continued) Bottom Panel view Stand Connector 7 LEDS LED stands for Light-Emitting Diode. Front view Power LED LAN LED Power LED The Power LED is positioned on the right side of the DCS-900 lens. Steady green confirms that the DCS-900 is powered ON. Note: There are three settings for the Power LED for monitoring purposes: Normal / Off / Dummy. Please refer to the DCS-900 Camera Configuration section for detailed information and usage. LAN LED The LAN LED is positioned on the right side of the DCS-900's lens. It is located below the Power LED. Steady orange confirms a good connection to the LAN.

Depending on the data traffic, the LED will begin to flash to indicate that the DCS-900 is receiving/transceiving from/to the LAN network. 8 Hardware Installation Attach the Swivel Stand Locate the stand connector on the bottom panel of the DCS-900 and screw on the swivel stand to the base of the DCS-900. Attach the External Power Supply Attach the external power supply to the DC power input connector located on the rear panel of the DCS-900 and connect it to your local power supply. Note: Power source is confirmed when the green LED Power Indicator located to the right of the lens on the DCS-900 is illuminated. Connect the Ethernet Cable Connect the included Ethernet cable to the network cable connector located on the back panel of the DCS-900 and attach it to the network.

Network Connectivity is confirmed when the orange LED Indicator on the DCS-900 located below the Power LED is illuminated. 9 Security To ensure the highest security and prevent unauthorized usage of the DCS-900, the Administrator has the exclusive privilege to authorize all users. The DCS-900 supports multi-level password protection/access that can be restricted by the Administrator for defined users who have a User Name and User Password. The Administrator can release a public User Name and Password so that when remote users access the DCS-900 they will be allowed to view the images transmitted by the DCS-900.

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Note: When the DCS-900 is used for the first time, it is highly recommended that the Administrator set the Admin ID and Admin Password to constrain user access to the DCS-900 since the Default settings are Null String (no password).

Once the ID and Password are defined, only the Administrator has access to the management of the DCS-900. This procedure should be done as soon as possible since the security features of the DCS-900 will not be enabled until the Admin ID and Admin Password are defined. 10 Using the Setup Wizard Follow the simple steps below to run the Setup Wizard to guide you quickly through the installation process. Insert the D-Link DCS-900 CD into your CD-ROM drive. Click Install Software Click Install Wizard Click Next 11 Using the Setup Wizard (continued) Click Yes Click Next Click Finish 12 Using the Setup Wizard (continued) To run the Setup Wizard, click on Start->Programs->DCS-900 Series SetupWizard. Your camera's IP Address will be displayed here if it is valid. Click Wizard to begin You must change the Admin ID and Password immediately to protect your camera against unauthorized access. By default, the Admin ID and Password are blank. To change the Admin ID and Password, select both Change boxes and enter a New ID and New Password. Click Next The IP Address and Subnet Mask of your camera, Gateway, and DNS addresses must correspond with your network settings for you to access the camera.

If you are unsure of what these settings should be, please check with your network administrator. Click Next 13 Using the Setup Wizard (continued) If you need to make any changes, click Back to modify your camera settings. Otherwise, click Restart to save and apply your settings. Click Restart Your setup is now complete! Click Link to launch your Web browser and view your images. Click Link Your camera is now displayed in the Web browser. 14 Using the Setup Wizard (continued) If you change any of the default settings in the Setup Wizard, the following screens may appear: This screen appears if the default IP Address of the camera (192.168.0.20) does not correspond with your local area network settings. You must assign an IP address for your camera that corresponds to your network's IP addressing scheme.

Click Yes By default, the Admin ID and Password are blank. If you are running this Setup Wizard for the first time, leave both Admin ID and Password fields blank and simply click OK to continue. If you want to enter the Admin ID and Password, enter them and click OK to continue. Click OK The IP Address of your camera must correspond with your network settings for you to access the camera. If you are unsure of what these settings should be, please check with your network administrator.

Click OK 15 DCS-900 Configuration Web Configuration After completing the Setup Wizard, you are ready to use your camera. The Web configuration utility is designed to easily access and configure your DCS-900. Clicking the "Link" button will open up the main configuration page. If you would like to open the configuration page from a Web Browser, enter the IP address that you assigned to your DCS-900. Home Screen When you click on "Link", the DCS-900 Home screen will appear with a still image from your camera.

There will be three options to choose from to set up and view your Internet Camera: ActiveX Java Setup 16 DCS-900 Configuration (continued) Configuration Click on Setup from the Home screen to access the settings required for the DCS-900. There will be several options in the Configuration page to choose from to setup your DCS-900 and they are as follows: Advanced · System · Video Tools · Admin · Time · Default Status Help 17 DCS-900 Configuration (continued) Advanced > System The System menu allows you to configure and set up your DCS-900 for operation. If you already set up your camera using the Setup Wizard, you may view/change your settings here. To access the System menu, click on the Advanced Tab in the menu bar, then the System tab in the left hand bar and the System screen will appear as illustrated below: 18 DCS-900 Configuration (continued) Advanced > System Camera Name: This field is used for entering a descriptive name for the camera. The default setting for the Camera Name is DCS-900. The maximum length is 32 characters (Printable ASCII). Location: This field is used for entering a descriptive name for the location used by the DCS-900. IP Assignment: There are two options to select from the IP Assignment, either Manually Assign or Assign Automatically Using. Manually Assign You can click Manually Assign and directly enter a valid IP Address for your camera Second Port: The Open Second Port option is used when multiple cameras are being installed on a network OR if you need to use a port other than the default Port 80. If you are installing only one camera and wish to use the default ports, you do not have to open a second port on your camera.

If you are installing a camera behind a router, you must also open a port on your router for remote viewing of your camera. For detailed instructions on how to do this, please refer to the next section of this manual on how to install the DCS-900 with a router. For each additional camera that is installed, you must select the Open Second Port option and assign the appropriate Web server and Transfer Image Ports for each camera to enable remote viewing. For example, for a multiple camera installation, you can open the second port for each additional DCS-900 from Port 81 to Port 85 as follows: Internet Camera 1 IP 192.168.0.101, second Web Port 81 Internet Camera 2 IP 192.168.0.102, second Web Port 82 Internet Camera 3 IP 192.168.0.103, second Web Port 83 Internet Camera 4 IP 192.168.0.

104, second Web Port 84 Internet Camera 5 IP 192.168.0.105, second Web Port 85 IMPORTANT: You MUST also set up your router/gateway for Port 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 the next section on setting up your camera for use with a router. For installing multiple cameras, ONE port per camera must be opened on your router, the Web server (HTTP) port. Apply/Cancel: After making sure all your settings are correct, click on the Apply button to store the settings. You can alternatively click on the Cancel icon to restore all settings to the values last saved to or retrieved from the DCS-900. 22 DCS-900 Configuration (continued) Installing the DCS-900 Behind a Router Single Camera Installation If you are installing a single camera on your network the installation is an easy 4step procedure: 1) 2) 3) 4) Identify Your Camera on the Network Assign a Local IP Address for Your Camera Determine Your Router's WAN IP Address (Enable Remote Viewing) Open Virtual Server Ports for Your Router (Enable Remote Viewing) Multiple Camera Installation If you are installing multiple cameras on your network, the installation is an easy 5step procedure: 1) 2) 3) 4) 5) Identify Your Camera on the Network Assign a Local IP Address for Your Camera Open a Second Port on the Camera Determine Your Router's WAN IP Address (Enable Remote Viewing) Open Virtual Server Ports for Your Router (Enable Remote Viewing) 23 DCS-900 Configuration (continued) Installing the DCS-900 Behind a Router 1) Identify Your Camera on the Network Once you are logged into the camera via a Web browser on your network PC, click on the Advanced Tab, and select System.



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Enter a unique Camera Name and Location. These settings are important if you are installing several cameras on your network. Enter a Unique camera name and location Identify Your Camera on Your Network 2) Assign a Local IP Address for Your Camera A Local IP Address is required to configure your camera and to view your camera within your local (home) 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(i.e.192.168.0.1 if you are using a DLink router) Enter a valid IP address for your camera. Assign a Local IP Address 24 DCS-900 Configuration (continued) Installing the DCS-900 Behind a Router Assigning and opening second port in the DCS-900 ( For Installing Multiple Cameras) Opening ports will allow users to view the camera via the Internet.

The ports that are opened must be unique for each camera in order to successfully view the images remotely. 3) Open Second Port The Open Second Port option 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 select the Open Second Port Option and 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). IMPORTANT: Be sure to take note of these settings since these same settings will be used to configure your router.

Enter the desired port settings for your camera here. Open a Second Port for Your Camera \*IMPORTANT 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. 25 DCS-900 Configuration (continued) Installing the DCS-900 Behind a Router ROUTER SET-UP AND INSTALLATION The following steps generally apply to any router that you have on your network. The D-Link DI-614+ is used as an example to clarify the configuration process. Your WAN IP Address information will be listed here. Determine Your Router's WAN IP Address 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 use DDNS to obtain an IP address, please refer to P.20 for more information. 26 DCS-900 Configuration (continued) Installing the DCS-900 Behind a Router ASSIGNING AND OPENING VIRTUAL SERVER PORTS 5) Open Virtual Server Ports To Enable Remote Image Viewing The Virtual Server Ports of your router must be opened for remote access to your camera. This is also referred to as port forwarding. Please proceed as follows: · Select Enabled to enable virtual server settings. · Select a camera name. · Enter your camera's Local IP Address in the Private IP field. · Select TCP under Protocol Type. · If you are using the default camera port settings, enter 80 in to the Public and Private Port section. · Schedule should be set to Always so that the camera images can be accessed at any time. · In the Virtual Servers List, a check mark appearing before the camera name will indicate that the ports are enabled. · Click Apply to save your settings. Note: If you are installing multiple cameras, be sure to open ONE port per additional camera installed: port 81, 82, etc. for web server.

Opening Virtual Server Ports on Your Router 27 DCS-900 Configuration (continued) Installing the DCS-900 Behind a Router Viewing Your Camera 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 from the Internet, simply type in the IP Address of the router given to you by your ISP, a colon, and the port number that you gave your camera. (Ex. [http://205.163.](http://205.163.122.96:83)

122.96:83). To access 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. Viewing Your camera 28 DCS-900 Configuration (continued) Advanced > Video The Video menu allows you to control and adjust the image settings for your DCS-900.

Click on Video on the left hand panel and the Image screen will appear as shown in the following illustration: Video Resolution: Select the desired video resolution format: 320x240 (default) or 640x480. Compression Rate: Select the desired compression rate ranging from very low to very high. Higher video compression rates will generate more compact file sizes with less video quality, and lower video compression will result in larger files with higher video quality. The default setting is Medium. Frame Rate: Select the frame rate desired. Use the default setting of Auto for optimal results. Brightness Control: Allows you to adjust the brightness level. The default setting is 64. Contrast Control: Allows you to adjust the contrast level. The default setting is 64. Hue Control: Allows you to adjust the hue level. The default setting is 64. 29 DCS-900 Configuration (continued) Advanced > Video Light Frequency: Adjust the light frequency to suit your area of operation. 50 Hz and 60 Hz variants are available to accommodate the different light frequencies found in USA (60 Hz) and Europe (50 Hz) for optimal image quality. Apply/Cancel: After making sure all your settings are correct, click on Apply to store the settings. You can alternatively click on Cancel to restore all settings to the values last saved to or retrieved from the DCS-900. Tools > Admin The Tools->Admin menu allows the system administrator to assign users permission to monitor the DCS-900 from a remote site. Click on Tools, then Admin in the left hand panel to access the Admin menu. Enter the Admin Password with a maximum length of 8 (Printable ASCII) characters.



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To confirm the Admin Password, type in your password again.

The default setting for Admin ID is blank (Null String). You need to key in the Admin ID with a maximum length of 12 (Printable ASCII) characters. 30 DCS-900 Configuration (continued) Tools > Admin Add User User Name: Enter the user name in this field. A maximum of 8 user names are allowed, however each user name must be different. Each user name can be used as a group. For example, if the Username is Guest and the User Password is Guest, anyone can access the DCS-900 using this information. The maximum length for the User Name is 12 characters (Printable ASCII). User Password: Enter the user's password you want to assign to the specific Username. The maximum password length is 8 characters (Printable ASCII). To add a new Username, input the necessary information first and click on Add.

Delete User: Select the user you wish to delete from the pull down menu and click on the delete icon. Important Information Once the administrator has added users for the DCS-900, users will be required to enter a login password to access the video image from the DCS-900. The password dialog box is illustrated below. 31 DCS-900 Configuration (continued) Tools > Time The Time menu sets the DCS-900's time and date requirements to provide correct information to users who are accessing from a remote site. The two options in the Time settings are Synchronized with Time Server or Set Manually. Click on Time in the left hand panel and this screen will appear as illustrated below: DateTime: Select Synchronized with Time Server and the time will be based on the GMT setting. This is the default setting for the DCS-900. Using a time server with your camera is recommended for time/date accuracy for your recorded video images and is critical for surveillance applications. Public time servers are available on the web. You must choose the appropriate time server matching your region of operation.

The NTP server IP address listed below will set the time server. http://192.6.38.127 NTP protocol is used primarily by Windows and Mac users. Time Protocol is used by Linux users. IP Address: Enter the IP Address of the Time Server in this field. The IP address will be listed with the time server information on the web. 32 DCS-900 Configuration (continued) Tools > Time Protocol: Two options are available for linking with the Time Server. The default setting is NTP.

TimeZone: The System administrator must select the time zone for the region. Please refer to the Appendix for the time zone selection table. To set the Time manually select Set Manually. The system administrator must then enter the Date and Time in the respective field manually. When Set Manually is selected, each time the DCS-900 is powered off, the time must be reset manually at reboot. Apply/Cancel: After making sure all settings are correct, click on the Apply icon to store the settings in the DCS-900. You can alternatively click on the Cancel icon if you do not wish to make new changes to the DCS-900. 33 DCS-900 Configuration (continued) Tools > Default The Default tab contains commands for restarting the DCS-900. Click on Tools, then the Default tab in the left hand panel and the Tools screen will appear as illustrated below: Factory Reset: A factory reset restarts the DCS-900 and returns all settings to their default values. The Factory Reset will prompt you with a "Do you really want to factory reset this device?" message and a YES button.

If you do not want to carry out a factory reset command, exit the panel without clicking YES, otherwise click on the "YES" icon and factory reset will be initiated. Warning All settings must be reconfigured after a Factory Reset! Status The Status menu displays information about your DCS-900. Click on Status and the Information screen will appear as illustrated below: The Information table provides detailed information about the DCS-900 such as the Model Name, Firmware Version, Mac Address, and IP Address. 34 DCS-900 Configuration (continued) Status Completing Your Camera Configuration Once the configuration is completed, click on Home to return to the Home screen and select the desired Viewing Image using either ActiveX Mode or Java Mode as described in the next section. The last step is to position the DCS-900 and adjust the focus, by manually turning the lens clockwise or counter-clockwise to the desired image quality. ActiveX To view video images from the browser, click on ActiveX in the Home screen, and the following screen appears below: Camera Name The Camera name will be displayed in the top bar located above the camera image when the Camera Name field is entered in the Web Configuration setting under Advanced > System. Location- The location of the DCS-900 will be displayed when the Location field is changed in the Web Configuration settings under Advanced > System. Date/Time - The date/time of the DCS-900 will be displayed according to your time server settings or from settings you have made manually. Note: Please refer to the Appendix for instructions on how to install ActiveX. 35 DCS-900 Configuration (continued) Java Click on Java from the Home screen to access the video images from the Internet Explorer or Netscape browser as illustrated below: Camera Name - The Camera name will be displayed when the Camera Name field is changed in the Web Configuration setting under Advanced > System.

Location - The location of the DCS900 will be displayed when the Location field is changed in the Web Configuration settings under Advanced > System. Date/Time - The date/time of the DCS-900 will be displayed according to your time server settings or from your manual settings. 36 IPView Lite Application Installation IPView Lite software is included for administrators to manage up to 4 DCS-900s remotely, record to hard drive, and configure advanced settings for the DCS-900. IPView Lite is a complete software management tool for the DCS-900 and includes all configurable settings available in the web configuration utility. Insert the CD-ROM into the CD-ROM drive.

A menu screen will appear as shown on below. Click Install Software Click Install IPView Lite 37 IPView Lite Application Installation (continued) Click Next Click Yes Click Next 38 IPView Lite Application Installation (continued) Click Next If your sound card or video card has not passed Windows Logo testing, this window will appear. Click Continue Anyway If there are previously installed target files that are newer than the source files, do NOT overwrite them.

Click No 39 IPView Lite Application Installation (continued) Click Finish After successfully installing the IPView Lite, the application program for the DCS-900 is automatically installed to \Programs\IPViewLite Directory. To start running the IPView Lite click on windows Start > Programs > IPViewLite > IPViewLite.



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Enter the default User Name: admin into the respective field and click on OK to log into the application. Click OK 40 IPView Lite Application Installation (continued) Once logged in, the IPView Lite application is executed and the IPView Lite interface will appear in the default List View format: 41 IPView Lite This section describes the operation of the IPView Lite application User Interface with detailed procedures for using the application. IPView Lite IPView Lite allows you to manage your cameras by enabling you to search, configure and preview all the DCS-900s from one location. It is designed with a user-friendly interface for ease of control and navigation. How to Change the Password Change Password When IPView Lite is used for the first time, it is highly recommended that the Administrator change the User Name and Password for security purposes. Once the User Name and Password are defined, only the Administrator has access to the management of IPView Lite applications. This procedure should be done as soon as possible to prevent unauthorized usage of the IPView Lite application. To change the administrator User Name and Password, select Tools > Options. The Options dialog box will appear (see below).

Enter a User Name and enter the Password twice.

Once all the new details are entered click OK. 42 IPView Lite (continued) How to Add a Camera To add a new camera select Camera > Add from the IPView Lite. An Add Camera dialog box will appear. (See below.) Enter the IP Address of the camera in the specified field and click Add. If the IP Address is entered incorrectly or if you have a bad network connection, a dialog box will appear to notify you of the error. To add cameras in IPView Lite, check that you have your network configured correctly. To add a remote camera, you need to have Internet access. If you are unsure of the IP Address of the camera, you can click on Browse to search for cameras on your local area network. The Browse Camera dialog box will appear with a blank screen.

(See below.) Note: Only cameras on your local area network can be located using Browse in IPView Lite. If you want to add a camera via the Internet, you must enter in a physical IP Address. Remember that if your camera is behind a router, you will need to enter your router's WAN IP followed by a colon, then the port number that is assigned to your camera, i.e.

68.2.34.156:800, where 68.2.

34.156 is your router's WAN IP and :800 is the port that your camera is using. Please refer to the DCS-900 Configuration, Installation Behind a Router section of this manual for details on P.23. 43 IPView Lite (continued) How to Add a Camera Click on Search. IPView Lite will detect and search for all the available cameras that are installed on the local area network. Highlight the camera you wish to add and click on Add. The Add Camera dialog box will appear once again with the IP Address entered. Click on Add. The camera will automatically be added into the IPView Lite list view.

Alternatively, you can double-click on the camera you wish to add and the Add Camera dialog box will appear once again with the IP Address entered. Click on Add, and the camera will automatically be added into the IPView Lite list view. 192.168.0.20 44 IPView Lite (continued) How to Add/Delete a Camera If the Login Camera dialog box appears, make sure to enter the correct Username and Password. Click OK. The camera will be added into IPView Lite, in list format. If the Username and Password are entered incorrectly, the camera will not be added into IPView Lite. The Login Camera dialog box will appear regardless of password settings on the camera.

If you have not created a password yet, leave both fields blank and press enter. How to Delete a Camera To delete a camera you must highlight the camera you wish to delete from the IPView Lite list view format. From the menu bar select Camera > Delete. A Delete Camera dialog box will appear. Click Yes to delete the camera, or click No if you do not wish to delete the camera.

List view Click Yes. 45 IPView Lite (continued) How to Change the IP Address Changing the IP Address To change an IP Address for a camera, select Camera > Add. An Add Camera dialog box will appear (see below). Click on Browse. The Browse Camera dialog box will appear with a blank screen (see below).

46 IPView Lite (continued) How to Change the IP Address Click Search. IPView Lite will detect and search for all available cameras installed on the local area network (example below.) Highlight the camera you wish to change and click Change IP. If you have already changed the administrator user ID and password, you will be prompted to enter your admin ID and password before IPView Lite will allow you to change the IP Address for the DCS-900. Enter the new IP Address, the Subnet Mask and the Default gateway into the respective fields and click OK. IPView Lite will apply the new IP Address to the camera.

47 IPView Lite (continued) How to Format the Camera view From the menu bar select View > 4 Cameras. (See below.) The icon on the upper left corner of the screen will appear with the camera number that is being displayed. To return to the IPView Lite list view, click on the icon located on the upper left corner of the screen and a case sensitive menu will appear.

Select List and the viewing image will return to the list view format. A maximum of 4 cameras can be viewed simultaneously with IPView Lite. 48 IPView Lite (continued) How to Rotate the Video view In View Mode format, click on the icon located on the upper left corner of the screen and a pop-up menu will appear. Once you click Rotate Right or Rotate Left in the menu, the video will rotate 90 degrees to the right or left. How to take a Snap-Shot with the Camera To take a snap shot with the camera, you must highlight the camera you wish to use from the IPView Lite list view format. From the menu bar select Camera > Snap shot. A Save Image dialog box will appear for you to save the snap shot picture. Alternatively, select from the viewing mode either 1 or 4 cameras. Click on the icon located on the upper left corner of the screen. A case sensitive menu will appear.

Select the Snap shot icon. A Save Image dialog box will appear for you to save the snap shot picture. 49 IPView Lite (continued) How to Start Recording To start recording with a camera you must highlight the camera you want to use from the list view format. From the menu bar select Camera > Start. @@@@A case sensitive menu will appear.

Select the Start icon. @@@@From the menu bar select Camera > Stop. The recording function will be stopped. @@Select Stop.

@@@@@@@@@@@@There are two options: Manually Assign or Assign Automatically Using.

@@Choose Round the Clock to enable the DCS-900 to record all video frames continuously to your hard drive. Larger files will be generated if Round-the-Clock Manual Recording is chosen.



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The Dynamic Recording option uses movements to record only relevant video frames and will generate much smaller files to save your hard disk drive space. 59 IPView Lite (continued) Camera Property Settings > Recording Scheduled Recording Select Schedule Recording to record based on specific times and dates. Click Schedule Setting to set the time and date for recording your files. Select By Date and enter in the dates, Start, and Stop Times. The camera will start to record according to the specified date and time period entered. Select By Weekday to indicate specific days to record and the time period. Larger files will be generated if Round-the-Clock Manual Recording is chosen. The Dynamic Recording option uses movements to record relevant video frames and will generate much smaller files to save your hard disk drive space.

60 IPView Lite (continued) Camera Property Settings > Recording Motion Trigger Recording Checking Motion Trigger Recording enables the DCS-900 to record based on motion. When this option is selected and the camera detects motion within the range of the viewing window, recording will be triggered. Recording will continue until no motion is detected. Click on Sensitivity Setting to set the sensitivity levels for the DCS-900. 61 IPView Lite (continued) Camera Property Settings > Recording File Options You can adjust the maximum file size by clicking on By File Size from the Recording File Options field. The file size must be between 10 and 50MB. If the recorded video files reach the file size allocated, video images will be recorded into another file automatically. Be sure to click Apply to save your settings, then click OK to exit this screen. Note: If you are using Windows Media Viewer to view your recorded videos, make sure that you have the most up-to-date version in order to view the videos correctly. File Path The software will create a folder in the Recording File Path specified and record the video images with the file name by date and time.

Multiple file paths can be specified to store your video images. The current path where recorded images are being stored is designated as "Working". Once this path has reached full capacity, the images will then be stored in the next designated file path. To change file paths, highlight the file path and double-click to select a new drive/directory to store your video images. The screen below will appear.

Click Browse to select a drive/directory, and place a check mark in the Path box to enable the drive/directory for use. Click OK to save your changes. 62 IPView Lite (continued) Menu Bar The menu bar makes it easier to navigate IPView Lite. All Management functions can be accessed from the menu bar. Menu Bar > File New > Opens a new camera list.

Cameras must then be added to the list for configuration Open > Opens saved camera lists. Save/Save As > Saves your current list of cameras and configurations. Exit > Exits the IPView Lite Application. . 63 IPView Lite (continued) Menu Bar > View View on the menu bar provides users with management capabilities for Columns, List, Camera and Refresh. You can view the Camera in 1 Camera or 4 Camera mode. The View menu bar is pictured below. Columns When Columns is launched, a dialog box will appear displaying the Column Settings. Select the columns that you wish to appear in the List View as illustrated below. Viewing Format You can view the format in List view.

The List viewing format allows easy management and control of each camera. 64 IPView Lite (continued) List View All the cameras and their properties, such as the camera name, IP Address, user name, and location, will be displayed in the list view. Note: Right click on any camera to bring up a menu of actions you can apply to the selected camera. Double-clicking on the desired camera will bring up the Property dialog box. You can click the Refresh icon to update the camera list view. 65 IPView Lite (continued) Menu Bar > Camera, Tools Camera on the menu bar provides options to manage the camera. Add up to 4 additional Cameras for viewing. The Camera menu also allows you to Delete a camera, manage the Property, Enable real-time video capture, or take a Snapshot image. Enable Function By default, the video image is enabled. There will be a check next to the Enable command to show that the Enable function is working.

To disable the real-time image select Camera > Enable and the real-time video image will stop and shutdown. Menu Bar > Tools Tools on the menu bar allows you to change account information and system configuration. From the menu bar, select Tools > Options. 66 IPView Lite (continued) Menu Bar > Tools Account The account menu is for administrators to change user name and password. System Configuration .

This menu allows you to set overwrite options to overwrite old recorded files with new recorded files. Check the Load Last Configuration When Program Starts to load all your configured settings each time you run IPView Lite. It is highly recommended that you select this option to save your camera settings in IPView Lite. In order to allow old video files to be overwritten and replaced by new recorded files, place a check mark in the Recycle Box and click on By HDD Reserved Space or By Time. The Single HDD Reserved Space field refers to the amount of space left on your drive before overwrite takes place. For instance if you enter 1000 MB, and your total hard drive space is 3000 MB, as soon as your drive reaches 2000 MB capacity, your files will be 67 IPView Lite (continued) Menu Bar > Tools overwritten. You can specify between 300MB to 10GB hard drive reserve space. Click on By Time to overwrite old files with new files once the time frame that you specify has been reached. Clicking on By HDD Reserved Space allows new files to overwrite old files. You can reserve 300MB to 10GB HDD for the operating system. Click on By Time (Time: 1-240 Hours) to overwrite old files with new files once the time frame that you specify has been reached. Note: Selecting the Recycle option will disable the Recording File Path Settings in the Recording menu. 68 IPView Lite (continued) Menu Bar > Tools Networking Configuration If your LAN uses a Proxy server to connect to the Internet, select Use a proxy for HTTP Protocol, and click OK. If you choose this option, you must enter the IP address and port that your Proxy server uses to connect to the Internet. A Proxy server is a computer on your LAN that connects to the Internet without compromising the security of your internal network.

A proxy server is normally used on a network to more efficiently manage Internet traffic for groups of users. If you are not sure how your LAN connects to the Internet, contact your system administrator. Menu Bar > About Under About on the menu bar, click About for camera details such as software version. 69 IPView Lite Icon Description Open a new file.



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The hot key is Ctrl+N. Open an existing file. The hot key is Ctrl+O. Save a file. The hot key is Ctrl+S. List view format. The hot key is Ctrl+F1. 1 Camera view format. The hot key is Ctrl+F3. 4 Camera view format. The hot key is Ctrl+F4.

Refresh IPView Lite application. The hot key is F12. Add a camera. The hot key is Shift+Ins. Delete a camera.

The hot key is Del. Property setting to configure the camera. The hot key is F2. Snap shot to capture a single still image. The hot key is F5. Start recording video image. Alternatively the hot key is F7. Stop recording video image. Alternatively the hot key is F9. Options to modify the User Name and Password for IPView Lite.

The hot key is F10. 70 IPView Lite (continued) Context Sensitive Menu In List View format, highlight a camera and right-click to bring up a context sensitive menu for features such as Add, Delete, Property, Enable, and Snap shot and Start/ Stop recordings. In View mode format click on the icon located on the upper left corner of the screen and a case sensitive menu will appear (see below). These features will be available: Enable, Rotate Right, Rotate Left, Snap Shot, Start, List, 1 Camera or 4 Cameras, Previous Page and Next Page. 71 Uninstall IPView Application Click on windows Start Menu / Programs / IPView / Uninstall IPView. A new prompt screen will be displayed like the one below confirming the removal. Choose the option that you want and click Next to continue the process or click on Cancel to reject the uninstall process. After you click on Next, a Confirm Uninstall dialog box will appear. Click OK to continue the process. 72 Uninstall IPView Application (continued) The InstallShield Wizard prompt will appear.

Click Finish to complete the uninstallation procedure. 73 Appendix A Frequently Asked Questions Internet Camera Features Q: What is an Internet Camera? A: The Internet Camera is a standalone system connecting directly to an Ethernet or Fast Ethernet network and supported by the wireless transmission based on the IEEE 802.11b standard. It is different from the conventional PC Camera, the Internet Camera is an all-in-one system with built-in CPU and web-based solutions providing a low cost solution that can transmit high quality video images for monitoring. The Internet Camera can be managed remotely, accessed and controlled from any PC/Notebook over the Intranet or Internet via a web browser.

Q: What is the maximum number of users that can be allowed to access DCS900 simultaneously? A: Maximum number of users that can log onto the Internet Camera at the same time is 8. Please keep in mind the overall performance of the transmission speed will slow down when multiple users are logged on. Q: What algorithm is used to compress the digital image? A: The Internet Camera utilizes JPEG image compression technology to provide high quality images. JPEG is a standard for image compression and can be applied to various web browser and application software without the need to install extra software. Q: Can I capture still images from the Internet Camera? A: Yes you are able to capture still images with the snapshot function from the IPView Lite application supplied with the Internet Camera CD-ROM.

You may also use the first page that shows up when you type in the IP Address of the camera. When viewing this page, press the "refresh" button on your web browser to update the image. Please refer to the User's Guide for detailed information. 74 Frequently Asked Questions (continued) Internet Camera Installation Q: Can the Internet Camera be used outdoors? A: The Internet Camera is not weatherproof. It needs to be equipped with a weatherproof case to be used outdoors and it is not recommended. Q: What network cabling is required for the Internet Camera? A: The Internet Camera uses Category 5 UTP Twisted-pair cable allowing 10 Base-T and 100 Base-T networking. Q: Can the Internet Camera be setup as a PC-cam on the computer? A: No, the Internet Camera is used only on Ethernet and Fast Ethernet network or supported by wireless transmission. The D-Link DSB-C110, DSB-C310 can be used as a PC Camera (Webcam). Q: Can the Internet Camera be connected on the network if it consists of only private IP Addresses? A: Yes, the Internet Camera can be connected to a LAN with private IP Addresses. Q: Can the Internet Camera be installed if a firewall exists on the network? A: If a firewall exists on the network, port 80 is open for ordinary data communication.

You will need to do port forwarding by opening a port to the camera. Please refer to your firewall's product manual for detailed instructions. Troubleshooting Q: I cannot access the Internet Camera from a web browser. A1: The possible cause might be the IP Address for the Internet Camera is already being used by another device. To correct the possible problem, you need to first disconnect the Internet Camera from the network. Then run the PING utility (follow the instructions in Appendix B - PING Your IP Address.) If there is a reply, it indicates that there is another device on the network with the same IP address. You will need to run the Install Wizard again and change the IP address of the camera. A2: Other possible problems might be due to the network cable. Try replacing your network cable.

Test the network interface of the product by connecting a local computer to the unit, utilizing a standard Crossover Cable. If the problem is not solved, the Internet Camera might be faulty. 75 Troubleshooting (continued) Internet Camera Installation Q: Why does the Power LED not light up constantly? A: The power supply used might be at fault. Confirm that you are using the provided power supply, which is DC 5V, for the Internet Camera and verify that the power supply is well connected. Also, the LED may have been configured to "LED Off.

" Q: Why does the LAN LED not light up properly? A1: There might be a problem with the network cable. To confirm that the cables are working, PING the address of a known device on the network. If the cabling is OK and your network is reachable, you should receive a reply similar to the following (... bytes = 32 time = 2 ms). Also, the LED may have been configured to "LED Off." A2: The network device utilized by the Internet Camera is not functioning properly, such as hubs or switches. Confirm the power for the devices are well connected and functioning properly. Q: Why does the Internet Camera work locally but not externally? A1: Might be caused from the firewall protection. Check the Internet firewall with your system administrator. The firewall may need to have some settings changed in order for the Internet Camera to be accessible outside your local LAN. Refer to page 23 for more information about installing your camera behind a router. A2: Make sure that the Internet Camera isn't conflicting with any web server you may have running on your network. A3: The default router setting might be a possible reason.



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Check that the configuration of the router settings allow the Internet Camera to be accessed outside your local LAN. Q: Why does a series of broad vertical white lines appear throughout the image? A: It could be that the CMOS sensor (a square panel situated behind the lens that measures the light signals and changes it into a digital format so your computer can present it into an image that you are familiar with) has become overloaded when it has been exposed to bright lights such as direct exposure to sunlight or halogen lights. Reposition the Internet Camera into a more shaded area immediately as prolonged exposure to bright lights will damage the CMOS sensor. 76 Troubleshooting (continued) Internet Camera Installation Q: The focus on the Internet Camera is bad, how can I correct it? A1: Adjust the Internet Camera focus manually as described in "Adjusting the Internet Camera Focus" in the Appendix section of this manual on P.85. Q: Noisy images occur. How can I solve the problem? A1: The video images might be noisy if the Internet Camera is used in a very low light environment. To solve this issue you need more lighting. Q: The images are poor quality, how can I improve the image quality? A1: Make sure that your computers display properties are set to at least 15-bit color. Using 16 or 256 colors on your computer will produce dithering artifacts in the image, making the image look as if it is of poor quality.

A2: The configuration on the Internet Camera image display is incorrect. Through the Web Configuration Video section of the web management you need to adjust the image related parameters for improved images such as: brightness, contrast, hue and light frequency. Please refer to the Web Configuration section for detailed information. Q: There are no images available through the web browser? A1: The ActiveX might be disabled. If you are viewing the images from Internet Explorer make sure ActiveX has been enabled in the Internet Options menu.

Alternatively, you can use the Java Applet for viewing the required images. A2: If you are using Windows XP, please make sure that you have downloaded Java and installed it properly. A3: Make sure that your web browser supports Java. If you are using Internet Explorer or Netscape Navigator with a version number of lower than 4, then you will need to upgrade your web browser software in order to view the streaming video transmitted by the Internet Camera. 77 How to Ping Your IP Address The PING (Packet Internet Groper) command can determine whether a specific IP Address is accessible by sending a packet to the specific address and waiting for a reply.

It is a very useful tool to confirm if the IP Address conflicts with the Internet Camera over the network. Follow the step-by-step procedure below to utilize the PING command. Start a DOS window Start>Program>Accessories>Command Prompt Type ping x.x.x.x, where x.x.x.x is the IP Address of the Internet Camera. 78 How to Ping your IP Address (continued) 1) A successful connection to the camera will be indicated by 4 reply statements (above).

If you fail to connect to your camera you will see the following: 2) Check to see if you have entered your camera's IP Address correctly or reassign your camera's IP Address. 79 Time Zone Table GMT stands for Greenwich Mean Time, which is the global time that all time zones are measured from. 80 Time Zone Table (continued) 81 Xplug Control Installation Installation to a Web Server Important Information It is highly recommended to install the Xplug Control application to the Web Server for Internet Explorer 6.0. It must be installed to a Public Domain with a Fixed IP Address. 1. Installation: Copy the "xplug.ocx" file to any Web Server table. Note the web address of the file location so that you can use it in the next step. 2.

Configuration: From the Web Configuration menu, select "System" and under the "Loading ActiveX From" input web server location, type: <http://www.web-server-location.com/>. Once the settings are completed, you should now be able to access the Internet Camera from the web browser by selecting ActiveX mode. 82 Installation of the X-Plug to a Local PC (continued) Insert the CD-ROM into the CD-ROM drive to initiate the auto-run program.

Once completed, a menu screen will appear as follows: Click Install Software. To install Xplug Control click on the "Install X Plug" button to activate the installation procedure for the plug-in program. Once executed a prompt will appear requesting the input of the desired language selection. Make the desired selection and click on "OK" to continue. 83 Installation of the X-Plug to a Local PC (continued) Click Next Click Yes 84 Installation of the X-Plug to a Local PC (continued) Click Finish Adjusting the Camera Focus To help you get the best image quality, keep in mind that while adjusting the DCS-900 focus you can preview the image quality from your Web browser.

Camera Lens Adjust by turning clockwise or counter-clockwise 85 Adjusting the Camera Focus (continued) Note: You can further adjust the Internet Camera's image quality through the Web Configuration under Advanced-Video. Please refer to the Web Configuration section for further details. Warning Direct exposure to sunlight may cause permanent damage to the CMOS sensor. Therefore do not expose the Internet Camera's lens directly to sunlight. The Internet Camera is designed for indoor usage and if your application requires prolonged exposure to sunlight, a sun visor is recommended to protect the Internet Camera. 86 Technical Specifications Video specification Resolution: Sensor: Gain control: Exposure: White Balance: Shutter: Minimum

Illumination: Focal Length: Aperture: 640 x 480 pixel 1/3" color CMOS sensor Automatic Automatic Automatic Electronics 1/60 ~ 1/15000 sec 2.5lux@f1.4, 3000K color 6.0 mm F=1.8 Image (Video Setting) Image compression: Frame rate: Compression Rate selection: Frame rate setting: Video resolution: Brightness control: Contrast control: Hue control: JPEG 20fps@SIF, 10fps@VGA 5 level (Very Low, Low, Medium, High, Very High) 1, 5, 7, 15, 20, auto (depends on the video format) 320x240, 640x480 Range 1- 128 Range 1- 128 Range 1- 128 System Hardware LAN Connector: One RJ-45 port to connect to 10/100Mbps Ethernet, auto-sensed 87 Technical Specifications (continued) LED Indicator: Power LED (Green) LAN Activity LED (Orange) (Normal / Off / Dummy) DC 5V/2.

5A, switching type 4.5 Watt (900mA x 5V) Power Supply: Power Communication: Communication Support Communication: Communication protocol: 10/100Mbps Ethernet and Fast Ethernet only HTTP, TCP/IP, UDP, ARP, ICMP, BOOTP, RARP, DHCP, PPPoE Web Configuration Requirements: . . . . . Internet Explorer 6.0 or above or Netscape 7.0 or above CPU: Pentium II, 266 MHz or above Memory Size: 32 MB (64 MB recommended) VGA card resolution: 800x600 or above ActiveX Control requires IE6.



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0 or above (Windows) Java Applet requires IE6.0 or above (Windows/Mac) or Netscape 7.0 or above (Windows/Mac/Linux) PC Requirements for IPView Lite: · Windows XP, Windows 2000, Windows Me, Windows 98SE · Pentium III, 850 MHz CPU or above · 128 MB (256 MB Recommended) EMI & Safety FCC, CE, VCCI 88 Contacting Technical Support You can find software updates and user documentation on the D-Link website. D-Link provides free technical support for customers within the United States and within Canada for the duration of the warranty period on this product. U.S. and Canadian customers can contact D-Link technical support through our website, or by phone. Tech Support for customers within the United States: D-Link Technical Support over the Telephone: (877) 453-5465 24 hours a day, seven days a week. D-Link Technical Support over the Internet: <http://support.dlink.com> email: [support@dlink.com](mailto:support@dlink.com)

com Tech Support for customers within Canada: D-Link Technical Support over the Telephone: (800) 361-5265 Monday to Friday 7:30am to 12:00am EST D-Link Technical Support over the Internet: <http://support.dlink.ca> email: [support@dlink.ca](mailto:support@dlink.ca) 89 Warranty Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited warranty for its product only to the person or entity that originally purchased the product from: D-Link or its authorized reseller or distributor and 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, addresses with an APO or FPO. Limited Warranty: D-Link warrants that the hardware portion of the D-Link products described below will be free from material defects in workmanship and materials from the date of original retail purchase of the product, for the period set forth below applicable to the product type ("Warranty Period"), except as otherwise stated herein. 1-Year Limited Warranty for the Product(s) is defined as follows: · · · Hardware (excluding power supplies and fans) One (1) Year Power Supplies and Fans One (1) Year Spare parts and spare kits Ninety (90) days · · D-Link's sole obligation shall be to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund at D-Link's sole discretion. Such 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 in its sole discretion 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 from the date of original retail purchase.

If a material defect is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to repair or replace the defective Hardware, the 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 ("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 Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. D-Link's sole obligation shall be 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 at D-Link's sole discretion. Except as otherwise agreed by D-Link 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. Software will be warranted for the remainder of the original Warranty Period from the date of original retail purchase. 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 nonconforming 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 of D-Link's products, will not be applied to and does not cover 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: Any claim under this limited warranty must be submitted in writing before the end of the Warranty Period to an Authorized D-Link Service Office. · · The customer must submit as part of the claim (a written description of the Hardware defect or Software nonconformance) in sufficient detail to allow D-Link to confirm the same. The original product owner must obtain a Return Material Authorization ("RMA") number from the Authorized D-Link Service Office and, if requested, provide written proof of purchase of the product (such as a copy of the dated purchase invoice for the product) before the warranty service is provided. 90 Warranty (continued) · 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.

D-Link will only replace the defective portion of the product and will not ship back any accessories. The customer is responsible for all shipping charges to D-Link. No Cash on Delivery ("COD") is allowed.



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