

DCS-3112

Version 1.0

# HD Day & Night Network Camera

## User Manual

Business Class Networking

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# Preface

D-Link reserves the right to revise this publication and to make changes in the contents hereof without obligation to notify any person or organization of such revisions or changes.

## Manual Revisions

Revision	Date	Description
1.0	September 6, 2011	DCS-3112 Revision A1 with firmware version V1.00

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# Package Contents



DCS-3112 Network Camera



Camera Stand



CAT5 Ethernet Cable



Power Adapter

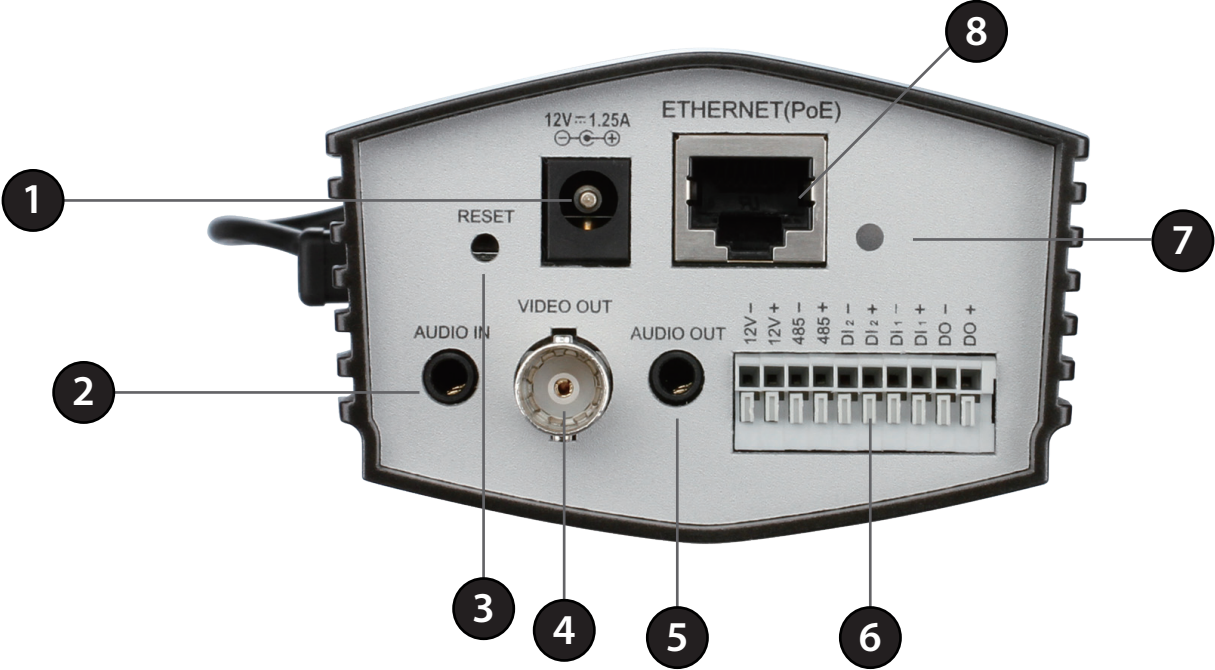


Manual and Wizard on CD-ROM

If any of the above items are missing, please contact your reseller.

# Hardware Overview

## Rear

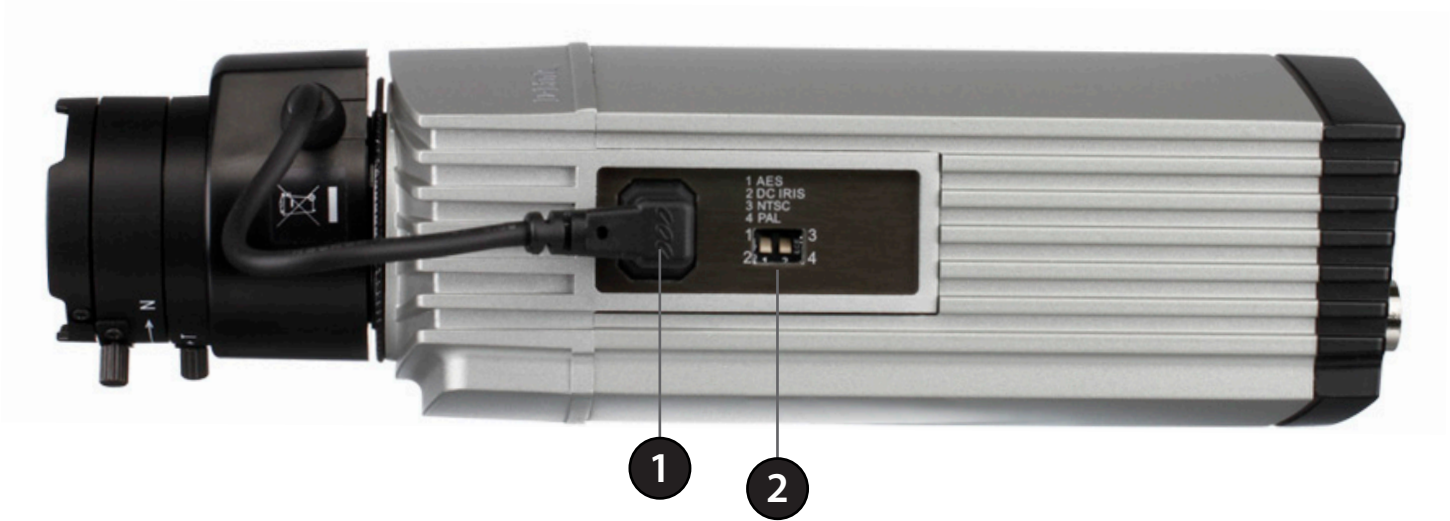


1	DC Power	12V DC
2	Audio In	External Audio Input connector
3	Reset	Press and hold this button for 10 seconds to reset the camera
4	BNC	Video analog output
5	Audio Out	Audio Output for external speakers
6	I/O Connector	I/O connectors for external devices
7	LED	Power and network indicator
8	Ethernet (PoE)	RJ-45 connector for Ethernet which can also be used to power the camera using Power over Ethernet (PoE)

# Front



1	Lens Connector	Connect to a CS mount
2	ICR Sensor	The IR-Cut Removable sensor judges lighting conditions and switches from color to infrared accordingly



<b>1 3</b>	1. AES: Auto Electric Shutter
<b>2 4</b>	2. DC IRIS: Use an auto iris (DC drive)
	3. NTSC: TV output signal selector
	4. PAL: TV output signal selector

1	DC-Iris Connector	Connector for DC auto iris lens
2	DIP Switch	Toggles several different camera options



1	SD Card Slot	Local SD card for storing recorded images and videos
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# Configuration with Wizard

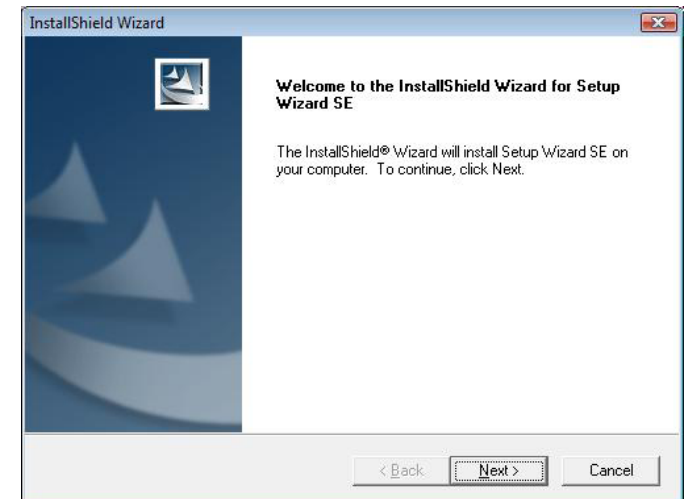
Insert the DCS-3112 CD into your computer's CD-ROM drive to begin the installation. If the Autorun function on your computer is disabled, or if the D-Link Launcher fails to start automatically, click **Start > Run**. Type **D:\autorun.exe**, where D: represents the drive letter of your CD-ROM drive.

Click **Installation Wizard** to begin the installation.



After clicking Setup Wizard, the window on the right will open.

Click **Next** to continue.

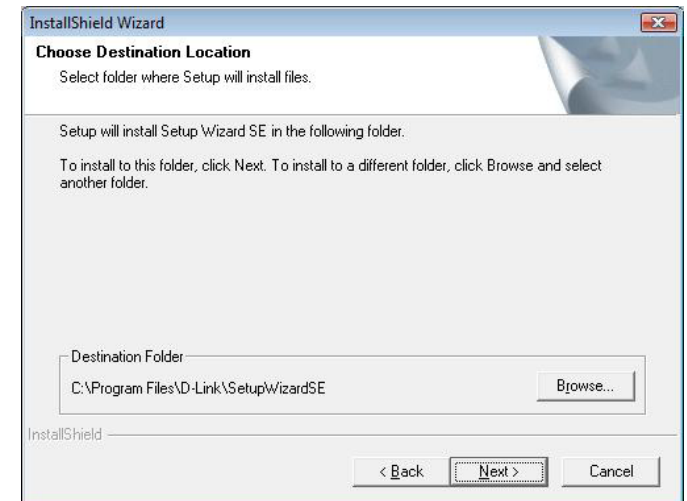
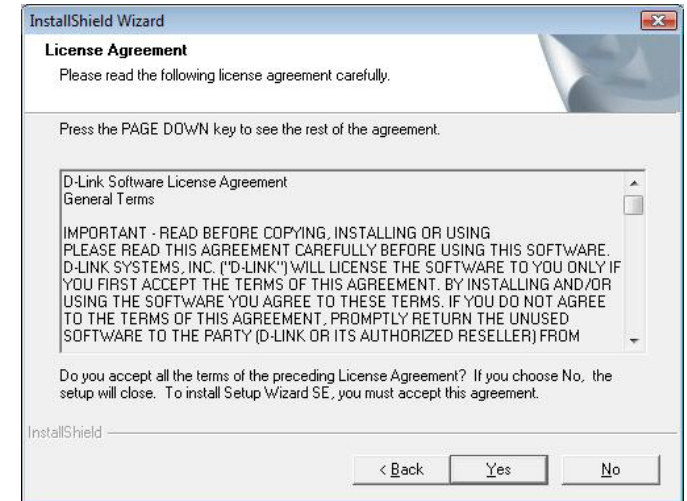


Click **Yes** to accept the License Agreement.

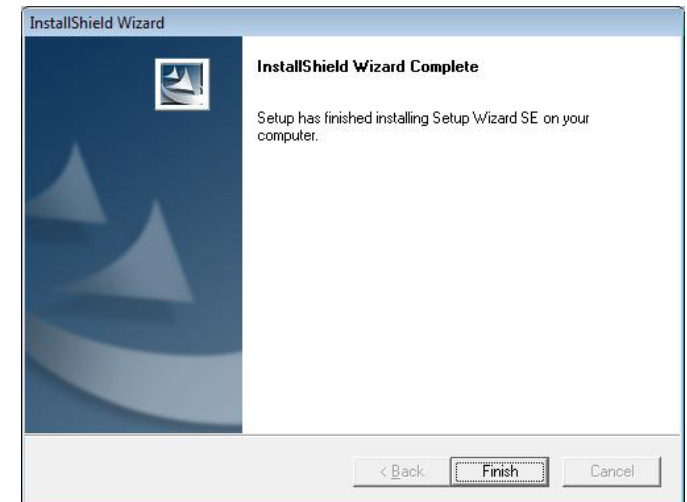
Then, click **Next** to continue.

To start the installation process, click **Next**.

**Note:** The installation may take several minutes to finish.

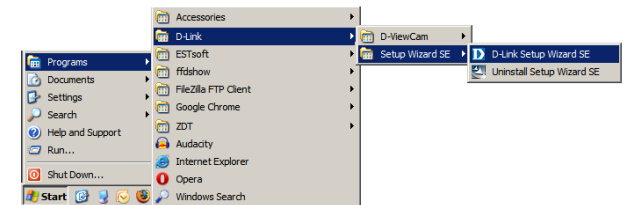


Click **Finish** to complete the installation.



Click on the **D-Link Setup Wizard SE** icon that was created in your Windows Start menu.

**Start > D-Link > Setup Wizard SE**



The Setup Wizard will appear and display the MAC address and IP address of your camera(s). If you have a DHCP server on your network, a valid IP Address will be displayed. If your network does not use a DHCP server, the network camera's default static IP address **192.168.0.20** will be displayed.

Click the **Wizard** button to continue.



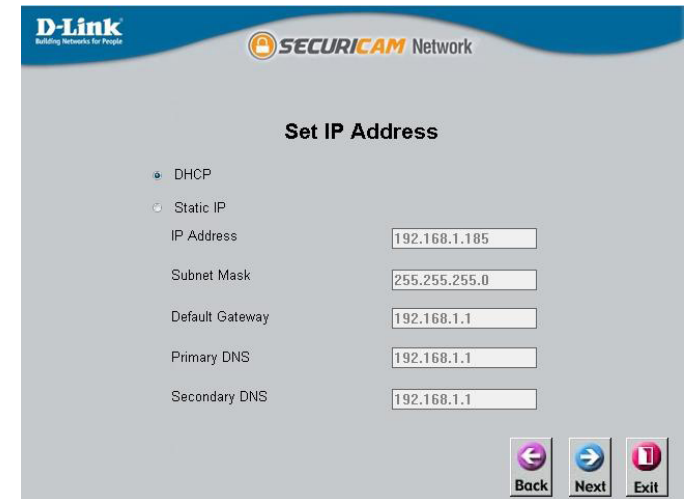
Enter the Admin ID and password. When logging in for the first time, the default Admin ID is **admin** with the password left blank.

Click **Next**, to proceed to the next page.



Select DHCP if your camera obtains an IP address automatically when it boots up. Select static IP if the camera will use the same IP address each time it is started.

Click **Next**, to proceed to the next page.



The screenshot shows the 'Set IP Address' configuration screen in the D-Link SECURICAM Network setup wizard. At the top, there are logos for D-Link and SECURICAM Network. The title 'Set IP Address' is centered. Below it, there are two radio buttons: 'DHCP' (which is selected) and 'Static IP'. If 'Static IP' were selected, there would be input fields for IP Address, Subnet Mask, Default Gateway, Primary DNS, and Secondary DNS. In the current state, these fields are present but empty. At the bottom right, there are three buttons: 'Back' (with a left arrow), 'Next' (with a right arrow), and 'Exit' (with a red square icon).

Take a moment to confirm your settings and click **Restart**.



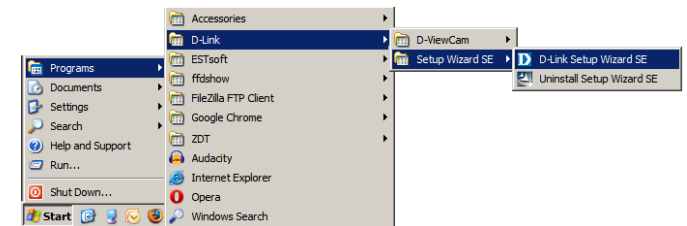
The screenshot shows the final screen of the D-Link SECURICAM Network setup wizard. It displays the configuration details: Admin ID (admin), Password (empty), IP Address (192.168.0.102), Subnet Mask (255.255.255.0), Primary DNS (192.168.0.1), and Secondary DNS (192.168.0.1). Below these fields, a message states: 'The Setup Wizard has completed. Click on 'Back' to modify your settings. Click 'Restart' to save your current settings and reboot the Internet Camera.' At the bottom right, there are two buttons: 'Back' (with a left arrow) and 'Restart' (with a circular arrow icon).

# Web-based Configuration Utility

This section explains how to configure your new D-Link Network Camera using the Web-based Configuration Utility.

Click on the **D-Link Setup Wizard SE** icon that was created in your Windows Start menu.

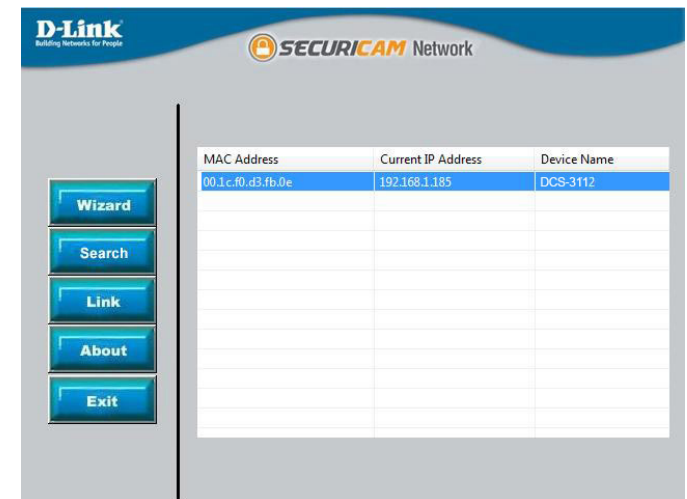
**Start > D-Link > Setup Wizard SE**



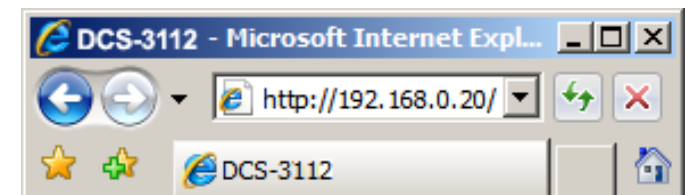
Select the camera and click the button labeled **"Link"** to access the web configuration.

The Setup Wizard will automatically open your web browser to the IP address of the camera.

**Note:** If you plug the router into a router with DHCP enabled, the camera will receive an IP address assigned.



Alternatively, you may manually open a browser and enter the IP address of the camera:  
**192.168.0.20**

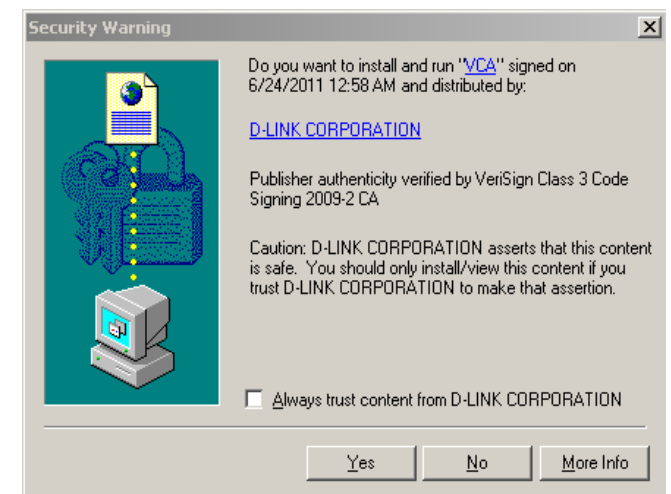


Enter **admin** as the default username and leave the password blank.

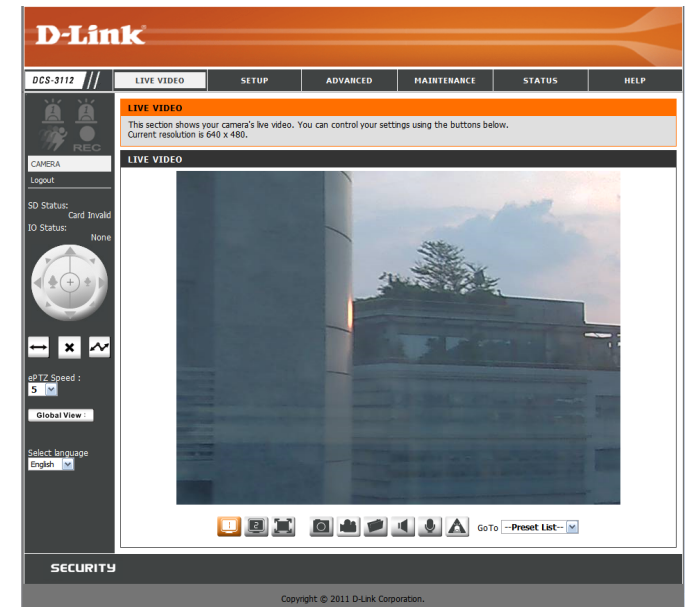
Click **OK** to continue.



Check **Always trust content from D-Link** and then click **Yes** to continue.



This section shows your camera's live video. You can select your video profile and view or operate the camera. For additional information about web configuration, please refer to the user manual included on the CD-ROM or the D-Link website.





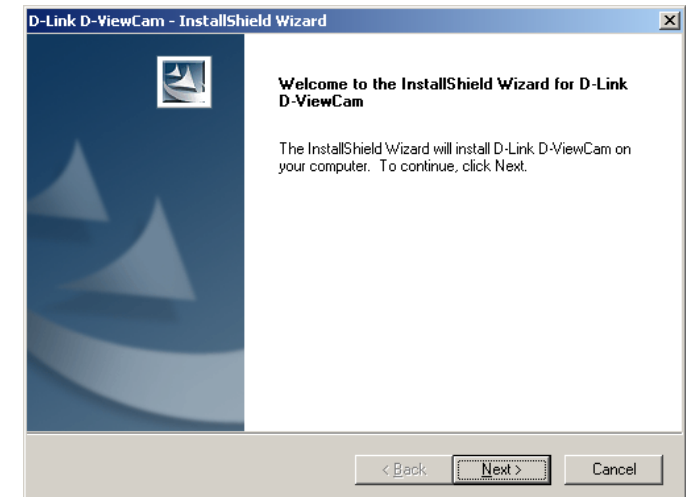
## D-ViewCam Setup Wizard

D-ViewCam software is included for the administrator to manage multiple D-Link IP cameras remotely. You may use the software to configure all the advanced settings for your cameras. D-ViewCam is a comprehensive management tool for IP surveillance.

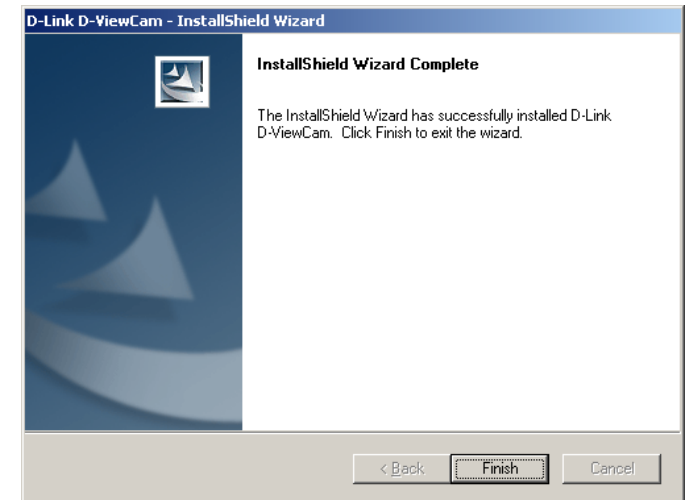
Insert the CD-ROM into the CD-ROM drive. Click "Install D-ViewCam Software" from menu, and select "D-ViewCam" to install the VMS software.



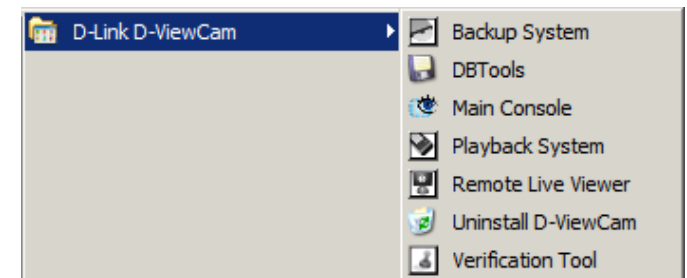
Follow the Installation Wizard to install D-ViewCam.



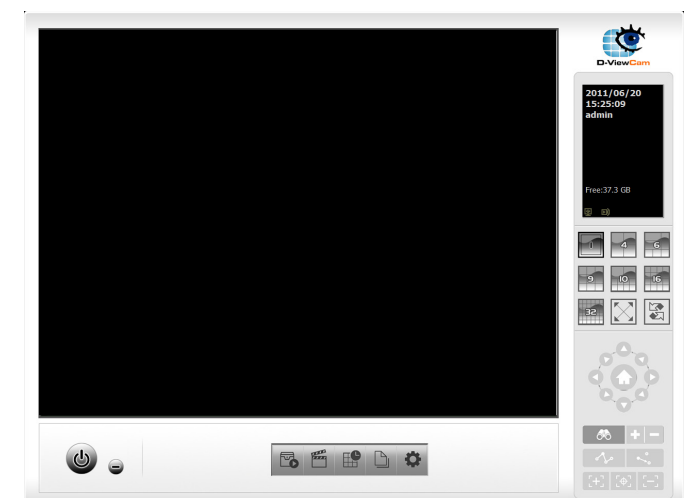
Click **Finish** to complete the installation.



To start D-ViewCam, select **Start > All Programs > D-Link D-ViewCam > Main Console**.






For more detail operation of using D-ViewCam software, please refer to D-ViewCam Manual.

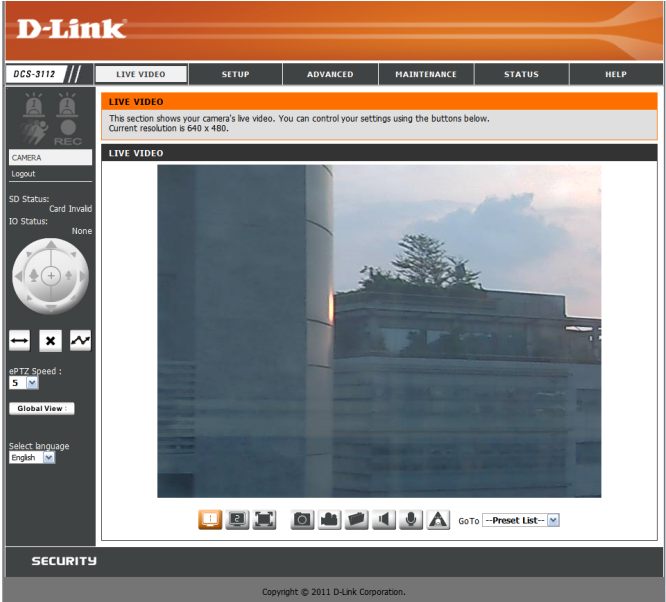












# Live Video


This section shows your camera's live video. You may select any of the available icons listed below to operate the camera. You may also select your language using the drop-down menu on the left side of the screen.

You can zoom in and out on the live video image using your mouse. Right-click to zoom out or left-click to zoom in on the image.

	<b>Digital Input Indicator</b>	This indicator will change color when a digital input signal is detected.
	<b>Motion Trigger Indicator</b>	This indicator will change color when a trigger event occurs.  <b>Note:</b> The video motion feature for your camera must be enabled.
	<b>Recording Indicator</b>	When a recording is in progress, this indicator will change color.



-  Video Profile 1
-  Video Profile 2
-  Video Profile 3
-  Full screen mode
-  Taking a Snapshot
-  Recording a Video Clip
-  Set a Storage Folder
-  Listen/Stop Listening
-  Talk/Stop Talking
-  Start/Stop Digital Output

	<b>Control Pad</b>	This control pad can be used to pan, tilt, and zoom within the camera's predefined view area, if one has been defined.
---	--------------------	--

**Go To:** If any presets have been defined, selecting a preset from this list will display (Preset List) it.

**SD Status:**

**IO Status:** This option displays the status of the SD card. If no SD card has been inserted, this screen will display the message "Card Invalid."

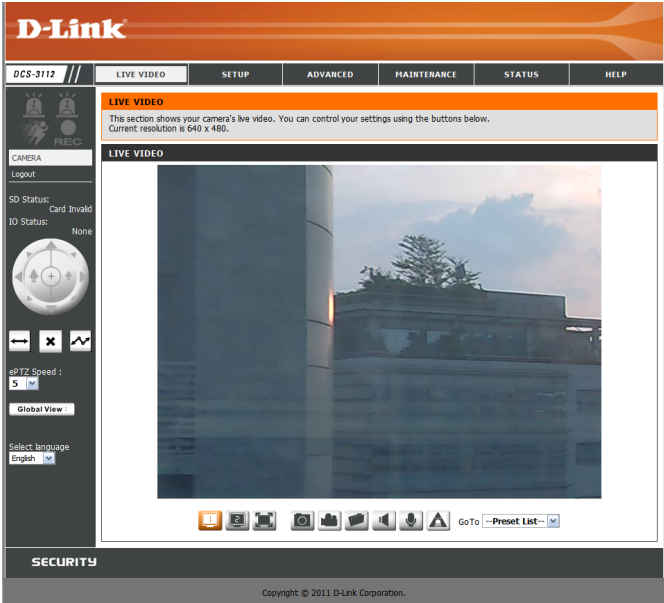
**PTZ Control:** This option displays the status of your I/O device if a device has been connected.

**ePTZ Speed:** This camera uses electronic pan/tilt/zoom (ePTZ) to select and view areas of interest in the field of view. Please see page 32 for information about setting the frame size and view window area.

**Global View:** You may select a value between 0 and 64. 0 is the slowest and 64 is the fastest.

**Language:** This window indicates the total field of view (FOV) of the camera. The red box indicates the visible region of interest (ROI).

You may select the interface language using this menu. The available options are English and Traditional Chinese.

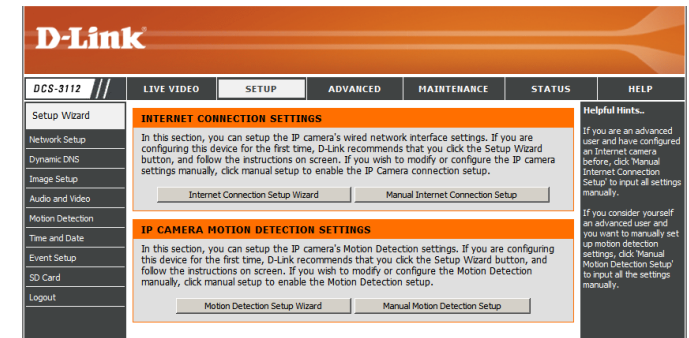


	<b>Auto Pan</b>	Starts the automatic panning function. The ROI will pan from back and forth within the FOV
	<b>Stop</b>	Stops the camera ePTZ motion
	<b>Preset Path</b>	Starts the camera's motion along the pre-defined path

# Setup Wizard

To configure your Network Camera, click **Internet Connection Setup Wizard**. Alternatively, you may click **Manual Internet Connection Setup** to manually configure your Network Camera.

To quickly configure your Network Camera's motion detection settings, click **Motion Detection Setup Wizard**. If you want to enter your settings without running the wizard, click **Manual Motion Detection Setup** and skip to page 24.

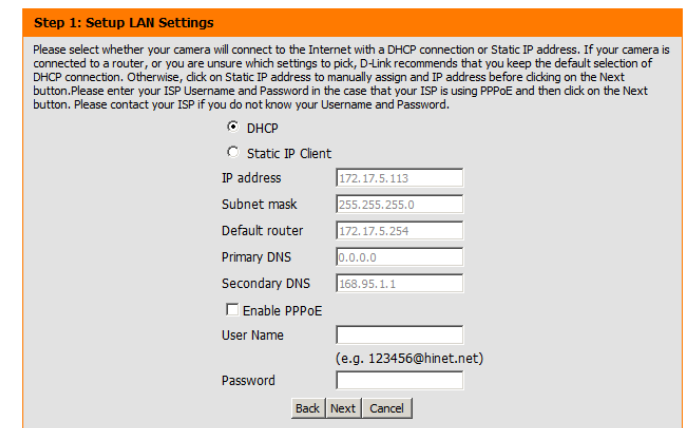
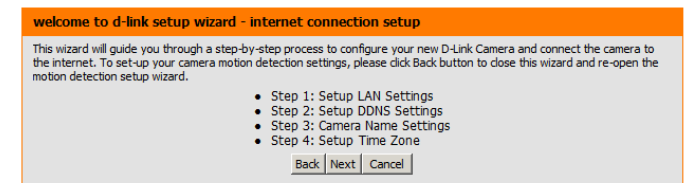


## Internet Connection Setup Wizard

This wizard will guide you through a step-by-step process to configure your new D-Link Camera and connect the camera to the internet. Click **Next** to continue.

**Note:** Select DHCP if you are unsure of which settings to choose.

Click **Next** to continue.



Select Static IP if your Internet Service Provider has provided you with connection settings, or if you wish to set a static address within your home network. Enter the correct configuration information and click **Next** to continue.

If you are using PPPoE, select **Enable PPPoE** and enter your user name and password, otherwise click **Next** to continue.

If you have a Dynamic DNS account and would like the camera to update your IP address automatically, Select **Enable DDNS** and enter your host information. Click **Next** to continue.

Enter a name for your camera and click **Next** to continue.

### Step 1: Setup LAN Settings

Please select whether your camera will connect to the Internet with a DHCP connection or Static IP address. If your camera is connected to a router, or you are unsure which settings to pick, D-Link recommends that you keep the default selection of DHCP connection. Otherwise, click on Static IP address to manually assign and IP address before clicking on the Next button. Please enter your ISP Username and Password in the case that your ISP is using PPPoE and then click on the Next button. Please contact your ISP if you do not know your Username and Password.

☐ DHCP

☒ Static IP Client

IP address

Subnet mask

Default router

Primary DNS

Secondary DNS

☐ Enable PPPoE

User Name

(e.g. 123456@hinet.net)

Password

### Step 2: Setup DDNS Settings

If you have a Dynamic DNS account and would like the camera to update your IP address automatically, enable DDNS and enter in your host information below. Please click on the Next button to continue.

☐ Enable DDNS

Server Address  <<

Host Name

User Name

Password

Verify Password

Timeout  (hours)

### Step 3: Camera Name Settings

D-Link recommends that you rename your camera for easy accessibility. You can then identify and connect to your camera via this name. Please assign a name of your choice before clicking on the Next button.

IP Camera Name

Configure the correct time to ensure that all events will be triggered as scheduled. Click **Next** to continue.

If you have selected DHCP, you will see a summary of your settings, including the camera's IP address. Please write down all of this information as you will need it in order to access your camera.

Click **Apply** to save your settings.

Step 4: Setup Time Zone

Please configure the correct time to ensure that all events are triggered, captured and scheduled at the correct time and day and then click on the Next button.

Time Zone (GMT-08:00) Pacific Time (US & Canada)

Enable Daylight Saving ☐

Back Next Cancel

Step 5: Setup complete

Below is a summary of your camera settings. Click on the Back button to review or modify settings or click on the Apply button if all settings are correct. It is recommended to note down these settings in order to access your camera on the network or via your web browser.

IP Address	DHCP
IP Camera Name	DCS-3112
Time Zone	(GMT+08:00) Taipei
DDNS	Disable
PPPoE	Disable

Back Apply Cancel

# Motion Detection Setup Wizard

This wizard will guide you through a step-by-step process to configure your camera's motion detection functions.

Click **Next** to continue.

## Step 1

This step will allow you to enable or disable motion detection, specify the detection sensitivity, and adjust the camera's ability to detect movement.

You may specify whether the camera should capture a snapshot or a video clip when motion is detected.

Please see the **Motion Detection** section on page 27 for information about how to configure motion detection.

## Step 2

This step allows you to enable motion detection based on a customized schedule. Specify the day and hours. You may also choose to always record motion.

### welcome to d-link setup wizard - motion detection

This wizard will guide you through a step-by-step process to configure your camera's motion detection functions. To setup the camera LAN or Internet settings, please click on the Back button to close this wizard and re-open the Camera Setup wizard. Otherwise click on the Next button to begin.

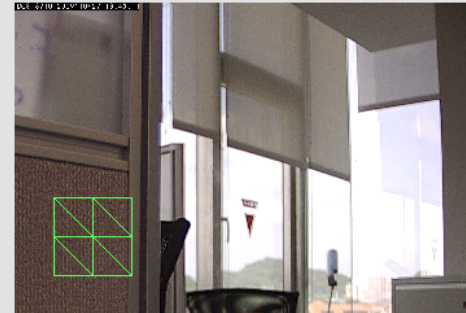
- Step 1: Specify Motion Detection Area Settings
- Step 2: Alerts and Notifications

Back Next Cancel

### Step 1: Specify Motion Detection Area Settings

This section will allow you to enable or disable motion detection as well as control the sensitivity of your camera's ability to detect movement.

☒ Enable Video Motion ☐ Snapshot ☒ Video Clip



Sensitivity

50 0~100%

Percentage

5 0~100%

Back Next Cancel

### step 2: Motion Detection Schedule

This section allows you to specify the time and dates that your camera records motion. Please note that recorded camera footage will take up space on your hard drive. It is therefore recommended that you have sufficient disk space for Always function.

☒ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat

Time

☒ Always

☐ From 00:00 To 23:59

Back Next Cancel



### Step 3

This step allows you to specify how you will receive event notifications from your camera. You may choose not to receive notifications, or to receive notifications via e-mail or FTP.

Please enter the relevant information for your e-mail or FTP account.

Click **Next** to continue.

**Step 3: Alerts and Notification**

This final step allows you to specify how you receive notification of camera events. Choose between an email notification or alternatively you can setup an FTP Notification. You will need your email account settings or FTP details. If you are unsure of this information, please contact your ISP. Once you have entered this information, please click on the Next button.

☐ Do not notify me

☒ Email

Sender email address

Recipient email address

Server address

User name

Password

Port

☐ FTP

Server address

Port

User name

Password

Remote folder name

### Step 4

You have completed the Motion Detection Wizard.

Please verify your settings and click **Apply** to save them.

**Step 4: Setup Complete**

You have completed your camera setup. Please click the Back button if you want to review or modify your settings or click on the Apply button to save and apply your settings.

Motion Detection :	Enable
EVENT :	Video Clip
Schedule Day :	Sun ,Mon ,Tue ,Wed ,Thu ,Fri ,Sat ,
Schedule Time :	Always
Alerts and Notification :	Email

Please wait a few moments while the camera saves your settings and restarts.

**Step 4: Setup Complete**

You have completed your camera setup. Please click the Back button if you want to review or modify your settings or click on the Apply button to save and apply your settings.

Changes saved.IP Camera's network is restarting, please wait for 3 seconds ...

# Network Setup

Use this section to configure the network connections for your camera. All relevant information must be entered accurately.

**LAN Settings:** Settings for your local area network.

**DHCP:** Select this connection if you have a DHCP server running on your network and would like your camera to obtain an IP address automatically.

**Static IP Address:** You may obtain a static or fixed IP address and other network information from your network administrator for your camera. A static IP address may simplify access to your camera in the future.

**IP Address:** Enter the fixed IP address in this field.

**Subnet Mask:** This number is used to determine if the destination is in the same subnet. The default value is 255.255.255.0.

**Default Gateway:** The gateway used to forward frames to destinations in a different subnet. Invalid gateway settings may cause the failure of transmissions to a different subnet.

**Primary DNS:** The primary domain name server translates names to IP addresses.

**Secondary DNS:** The secondary DNS acts as a backup to the primary DNS.

**Enable UPnP:** Enabling this setting allows your camera to be configured as a UPnP device on your network.

**Enable UPnP Port Forwarding:** Enabling this setting allows the camera to add port forwarding entries into the router automatically on a UPnP capable network.

**D-Link**

DCS-3112 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Setup Wizard  
Network Setup  
Dynamic DNS  
Image Setup  
Audio and Video  
Motion Detection  
Time and Date  
Event Setup  
SD Card  
Logout

**NETWORK SETUP**  
You can configure your LAN and Internet settings here.  
Save Settings Don't Save Settings

**LAN SETTINGS**  
☒ DHCP  
☐ Static IP Client  
IP address 172.17.5.113  
Subnet mask 255.255.255.0  
Default router 172.17.5.254  
Primary DNS 0.0.0.0  
Secondary DNS 168.95.1.1  
☒ Enable UPnP presentation  
☐ Enable UPnP port forwarding  
Forwarding Port 1024 Test  
Forwarding Status UPnP forwarding is active

**PPPOE SETTINGS**  
☐ Enable ☒ Disable  
User Name  
Password  
Confirm password  
PPPOE Status

**HTTP**  
HTTP port 80  
Access name for stream1 video1.mjpg  
Access name for stream2 video2.mjpg  
Access name for stream3 video3.mjpg

**HTTPS**  
HTTPS port 443

**RTSP**  
RTSP port 554  
Access name for stream1 live1.sdp  
Access name for stream2 live2.sdp  
Access name for stream3 live3.sdp

**TRAFFIC**  
Maximum Upload Bandwidth: 0 Kilo Bytes Per Second  
Maximum Download Bandwidth: 0 Kilo Bytes Per Second  
Save Settings Don't Save Settings

**Helpful Hints...**  
Select 'DHCP Connection' if you are running a DHCP server on your network and would like an IP address assigned to your camera automatically.  
- Enabling UPnP settings will allow you to configure your camera as an UPnP device in the network.  
- PPPOE Setting - If you use the camera to connect directly to the Internet, you will need to enter the username and password, which were given to you when you set up your account with your Internet Service Provider. If the camera is behind a router or a gateway, you do not need to configure this setting.  
- HTTP Port is the port you allocate in order to connect to the camera via a standard web browser.  
- HTTPS Port in a camera connects it with a PC via a secure web browser.  
- RTSP Port is the port you allocate in order to connect to a camera by using streaming mobile devices (e.g., such as a mobile phone or PDA).  
- Traffic - Specifying the maximum download/upload bandwidth for each socket is useful when connecting your device to a busy or heavily loaded network.  
\* The value '0' means it will not monitor any traffic.

**SECURITY**

**Enable PPPoE:** Enable this setting if your network uses PPPoE.

**User Name:** The unique name of your account. You may obtain this information from your ISP.

**Password:** The password to your account. You may obtain this information from your ISP.

**HTTP Port:** The default port number is 80.

**Access Name for Stream 1~3:** The default name is video#.mjpg, where # is the number of the stream.

**HTTPS Port:** You may use a PC with a secure browser to connect to the HTTPS port of the camera. The default port number is 443.

**RTSP Port:** The port number that you use for RTSP streaming to mobile devices, such as mobile phones or PDAs. The default port number is 554. You may specify the address of a particular stream. For instance, live1.sdp can be accessed at rtsp://x.x.x.x/video1.sdp where the x.x.x.x represents the ip address of your camera.

**Maximum Upload/Download Bandwidth:**

Specifying the maximum download/upload bandwidth for each socket can be useful when connecting your device to a busy or heavily loaded network. Entering a value of '0' indicates that the camera should not monitor bandwidth. Specifying other values will limit the camera's transfer speed to the specified number of Kilobytes per second.

**D-Link**

DCS-3112 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Setup Wizard  
Network Setup  
Dynamic DNS  
Image Setup  
Audio and Video  
Motion Detection  
Time and Date  
Event Setup  
SD Card  
Logout

**NETWORK SETUP**  
You can configure your LAN and Internet settings here.  
Save Settings Don't Save Settings

**LAN SETTINGS**  
☒ DHCP  
☐ Static IP Client  
 IP address: 172.17.5.113  
 Subnet mask: 255.255.255.0  
 Default router: 172.17.5.254  
 Primary DNS: 0.0.0.0  
 Secondary DNS: 168.95.1.1  
☒ Enable UPnP presentation  
☐ Enable UPnP port forwarding  
 Forwarding Port: 1024 Test  
 Forwarding Status: UPnP forwarding is active

**PPPOE SETTINGS**  
☐ Enable ☒ Disable  
 User Name:   
 Password:   
 Confirm password:   
 PPPoE Status:

**HTTP**  
 HTTP port: 80  
 Access name for stream1: video1.mjpg  
 Access name for stream2: video2.mjpg  
 Access name for stream3: video3.mjpg

**HTTPS**  
 HTTPS port: 443

**RTSP**  
 RTSP port: 554  
 Access name for stream1: live1.sdp  
 Access name for stream2: live2.sdp  
 Access name for stream3: live3.sdp

**TRAFFIC**  
 Maximum Upload Bandwidth: 0 Kilo Bytes Per Second  
 Maximum Download Bandwidth: 0 Kilo Bytes Per Second  
 Save Settings Don't Save Settings

**SECURITY**

**Helpful Hints...**  
 Select DHCP Connection: If you are running a DHCP server on your network and would like an IP address assigned to your camera automatically.  
 - Enabling UPnP settings will allow you to configure your camera as an UPnP device in the network.  
 - HTTP Port is the port you allocate in order to connect to the camera via a standard web browser.  
 - HTTPS Port is the port you allocate in order to connect to the camera via a secure web browser.  
 - RTSP Port is the port you allocate in order to connect to a camera by using streaming mobile devices, such as a mobile phone or PDA.  
 - Traffic - Specifying the maximum download/upload bandwidth for each socket is useful when connecting your device to a busy or heavily loaded network.  
 \* The value '0' means it will not monitor any traffic.

# Dynamic DNS

DDNS (Dynamic Domain Name Server) will hold a DNS host name and synchronize the public IP address of the modem when it has been modified. A user name and password are required when using the DDNS service.

**Enable DDNS:** Select this checkbox to enable the DDNS function.

**Server Address:** Select your Dynamic DNS provider from the pull down menu or enter the server address manually.

**Host Name:** Enter the host name of the DDNS server.

**User Name:** Enter your user name or e-mail used to connect to the DDNS.

**Password:** Enter your password used to connect to the DDNS server.

**Timeout:** Enter DNS Timeout values.

**Status:** Indicates the connection status, which is automatically determined by the system.

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**D-Link**

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**DYNAMIC DNS**

The Dynamic DNS feature allows you to use a domain name that you have purchased (www.yourdomain.com) to access your camera with a dynamically assigned IP address. Most broadband Internet service providers assign dynamic (changing) IP addresses. By using a DDNS service, you can enter your domain name to connect to your camera no matter what your IP address is.

[Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com.](http://www.dlinkddns.com)

Save Settings Don't Save Settings

**DYNAMIC DNS SETTING**

Enable DDNS ☐

Server Address  <

Host Name

User Name

Password

Verify Password

Timeout  (hours)

Status none

Save Settings Don't Save Settings

**Helpful Hints...**

Dynamic DNS is useful if you have a DSL or Cable service provider that changes your modem IP address periodically. This will allow you to assign a website domain name to your camera instead of connecting through an IP address.

# Image Setup

In this section, you may configure the video image settings for your camera. A preview of the image will be shown in Live Video.

**Enable Privacy Mask:** The Privacy Mask setting allows you to specify up to 3 rectangular areas on the camera's image to be blocked/excluded from recordings and snapshots.

You may click and drag the mouse cursor over the camera image to draw a mask area. Right clicking on the camera image brings up the following menu options:

**Disable All:** Disables all mask areas.

**Enable All:** Enables all mask areas.

**Reset All:** Clears all mask areas.

**Mirror:** Mirrors the images.

**Flip:** Rotates the image 180 degrees.

**White Balance:** If this option is enabled, white objects will be rendered as white on the screen.

**Exposure Mode:** Changes the exposure mode. Use the drop-down box to set the camera for Indoor, Outdoor, or Night environments, or to capture Moving objects. The Low Noise option will focus on creating a high-quality picture without noise. You can also create 3 different custom exposure modes. The Max Gain setting will allow you to control the maximum amount of gain to apply to brighten the picture.

**Denoise:** This setting controls the amount of noise reduction that will be applied to the picture.

**Brightness:** Adjust this setting to compensate for backlit subjects.

**Contrast:** Adjust this setting to alter the color intensity/strength.

**Saturation:** This setting controls the amount of coloration, from grayscale to fully saturated.

**Sharpness:** Specify a value from 0 to 8 for image edge enhancement.

**Reset Default:** Click this button to reset the image to factory default settings.



# Audio and Video

You may configure up to 3 video profiles with different settings for your camera. Hence, you may set up different profiles for your computer and mobile display. In addition, you may also configure the two-way audio settings for your camera.

**Number of active profiles:** You can use the dropdown box to set up to 3 active profiles.

**Aspect ratio:** Set the aspect ratio of the video to 4:3 standard or 16:9 widescreen.

**Mode:** Set the video codec to be used to JPEG, MPEG-4, or H.264.

**Frame size / View window area:** Frame size determines the total capture resolution, and View window area determines the Live Video viewing window size. If the Frame size is larger than the Live Video size, you can use the ePTZ controls to look around.

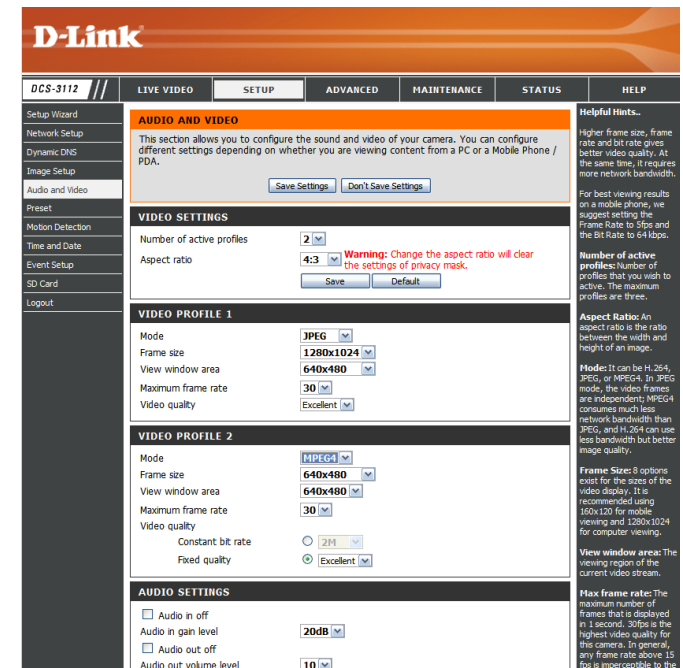
16:9 1280x720, 800x450, 640x360, 480x270, 320x176, 176x144  
4:3 1280x1024, 1280x960, 1024x768, 800x600, 640x480, 480x360, 320x240, 176x144

**Maximum frame rate:** A higher frame rate provides smoother motion for videos. Lower frame rates will result in stuttering motion. The maximum number of frames that is displayed in 1 second. 30 fps is the highest video quality for this camera. In general, any frame rate above 15 fps is imperceptible to the human eye.

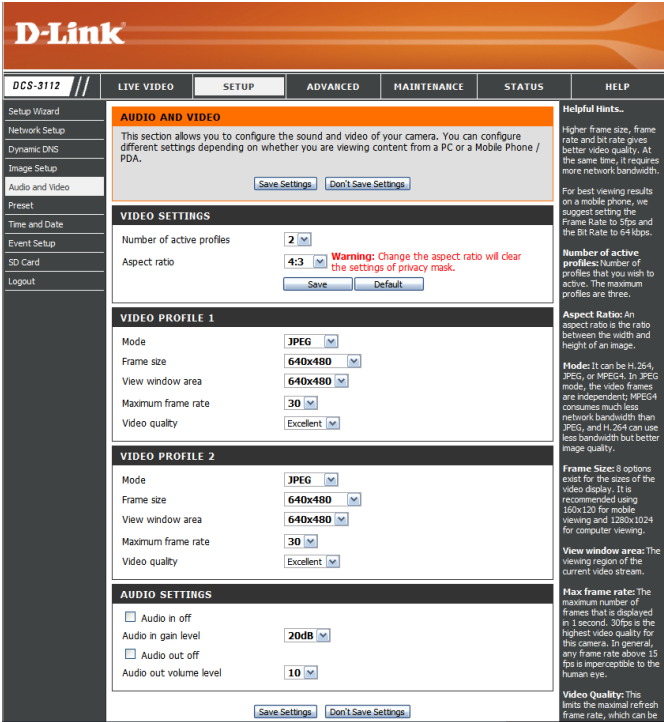
**Video Quality:** This limits the maximal refresh frame rate, which can be combined with the "Fixed quality" option to optimize the bandwidth utilization and video quality. If fixed bandwidth utilization is desired regardless of the video quality, choose "Constant bit rate" and select the desired bandwidth.

**Constant bit rate:** The bps will affect the bit rate of the video recorded by the camera. Higher bit rates result in higher video quality.

**Fixed quality:** Select the image quality level for the camera to try to maintain. High quality levels will result in increased bit rates.



- Audio in off:** Ticking this checkbox will mute incoming audio.
- Audio in gain level:** This setting controls the amount of gain applied to incoming audio to increase its volume.
- Audio out off:** Ticking this checkbox will mute outgoing audio.
- Audio out volume level:** This setting controls the amount of gain applied to outgoing audio to increase its volume.



# Preset Control

Preset Control allows the user to control and move the camera view to the required position.

**Input Preset Name:** Use the Pan, Tilt and Zoom controls to move the camera view to the required position and select the preset's name then click **Add**.

**Preset List:** Choose the preset you would like to use from the drop-down menu then click **GoTo**.

**Preset Sequence:** A preset sequence is an automated series of camera movements from one preset position to another. A guard tour can be set up to display the video streams from different preset positions in a pre-determined order, and for configurable time periods.





# Motion Detection

Enabling Video Motion will allow your camera to use the motion detection feature. You may draw a finite motion area that will be used for monitoring.

**Enable Video Motion:** Select this box to enable the motion detection feature of your camera.

**Sensitivity:** Specifies the measurable difference between two sequential images that would indicate motion. Please enter a value between 0 and 100.

**Percentage:** Specifies the amount of motion in the window being monitored that is required to initiate an alert. If this is set to 100%, motion is detected within the whole window will trigger a snapshot.

**Draw Motion Area:** Draw the motion detection area by dragging your mouse in the window (indicated by the red square).

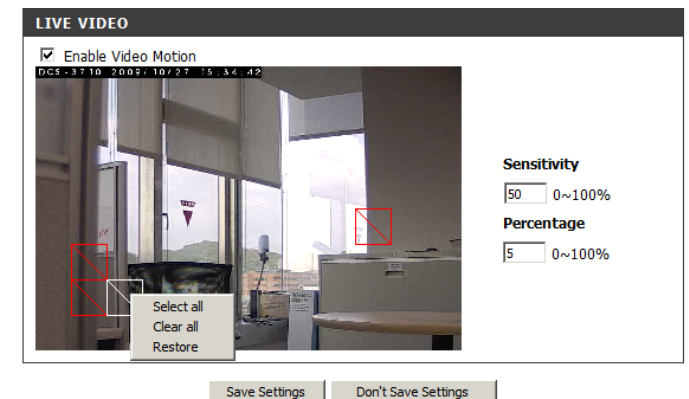
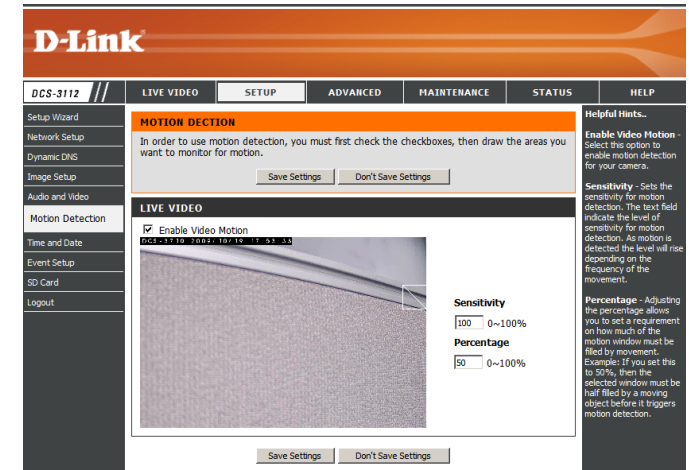
**Erase Motion Area:** To erase a motion detection area, simply click on the red square that you wish to remove.

Right clicking on the camera image brings up the following menu options:

**Select All:** Draws a motion detection area over the entire screen.

**Clear All:** Clears any motion detection areas that have been drawn.

**Restore:** Restores the previously specified motion detection areas.



# Time and Date

This section allows you to automatically or manually configure, update, and maintain the internal system clock for your camera.

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

**Enable Daylight Saving:** Select this to enable Daylight Saving Time.

**Auto Daylight Saving:** Select this option to allow your camera to configure the Daylight Saving settings automatically.

**Set Date and Time Manually:** Selecting this option allows you to configure the Daylight Saving date and time manually.

**Offset:** Sets the amount of time to be added or removed when Daylight Saving is enabled.

**Synchronize with NTP Server:** Enable this feature to obtain time automatically from an NTP server.

**NTP Server:** Network Time Protocol (NTP) synchronizes the DCS-3112 with an Internet time server. Choose the one that is closest to your location.

**Set the Date and Time Manually:** This option allows you to set the time and date manually.

**Copy Your Computer's Time Settings:** This will synchronize the time information from your PC.

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**D-Link**

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**TIME AND DATE**  
You can set the current time for the camera.  
Save Settings Don't Save Settings

**TIME CONFIGURATION**  
Time Zone: (GMT+08:00) Taipei  
☐ Enable Daylight Saving  
☒ Auto Daylight Saving  
☒ Set date and time manually  
Offset: +2:00  
Start time: Month 1 Week 1 Day of week Sunday Hour 0 Minutes 00  
End time: Month 1 Week 1 Day of week Sunday Hour 0 Minutes 00

**AUTOMATIC TIME CONFIGURATION**  
☐ Synchronize with NTP Server  
NTP Server: ntp.dlink.com.tw << Select NTP Server

**SET DATE AND TIME MANUALLY**  
☐ Set date and time manually  
Year: 2009 Month: 10 Day: 19  
Hour: 17 Minute: 53 Second: 35  
Copy Your Computer's Time Settings  
Save Settings Don't Save Settings

**Helpful Hints.**  
Good timekeeping is important for accurate logs and scheduled firewall rules.  
**Time Zone:** Select your time zone from the drop-down menu.  
**Enable Daylight Saving:** Select this to enable the daylight saving time.  
**Auto Daylight Saving:** When you select it, the clock is automatically adjusted according to the daylight saving time of the selected time zone.  
**Offset:** Select the time offset, if your location observes daylight saving time.  
**Synchronize with NTP Server:** With the option selected, the camera will synchronize the time settings with the NTP server over the Internet whenever the camera starts up. If the timeserver cannot be reached, no time settings will be applied.  
**NTP Server:** Network Time Protocol (NTP) synchronizes the IP camera with an Internet time server. Choose the one that is closest to your location.  
**Copy Your Computer's Time Settings:** This will synchronize the time information from your PC.

# Event Setup

The Event Setup page includes 4 different sections.

- Event
- Server
- Media
- Recording

1. To add a new item - "event, server or media," click **Add**. A screen will appear and allow you to update the fields accordingly.

2. To delete the selected item from the pull-down menu of event, server or media, click **Delete**.

3. Click on the item name to pop up a window for modifying.

**Note:** You can add up to four events, five servers, and five media fields.

**D-Link**

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Setup Wizard  
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### EVENT SETUP

There are four sections in Event Setup page. They are event, server, media and recording. Click Add to pop a window to add a new item of event, server, media or recording. Click Delete to delete the selected item from event, server, media or recording. Click on the item name to pop a window to edit it. There can be at most 3 events and 2 recording. There can be at most 5 server and 5 media configurations.

#### SERVER

Name	Type	Address/Location
Add		Delete

#### MEDIA

Media freespace: 6700KB

Name	Type	Source
Add		Delete

#### EVENT

Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Trigger
Add										Delete

#### RECORDING

Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Source	Destination
Add											Delete

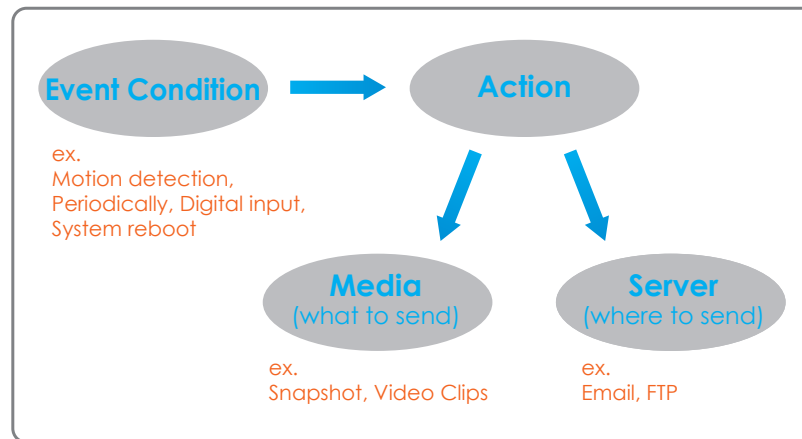
#### Helpful Hints..

Suggest setting server and media first before setting event. The servers and media which selected in event list are not be able to modify or delete. Please remove them first from the event if you want to delete or modify them. Recommend using different media in different event to make use all media be produced and received correctly. If using the same media in different events and the events trigger almost simultaneously, the servers in the second triggered event will not receive any media; there would be only notifications.

**SECURITY**

# Application

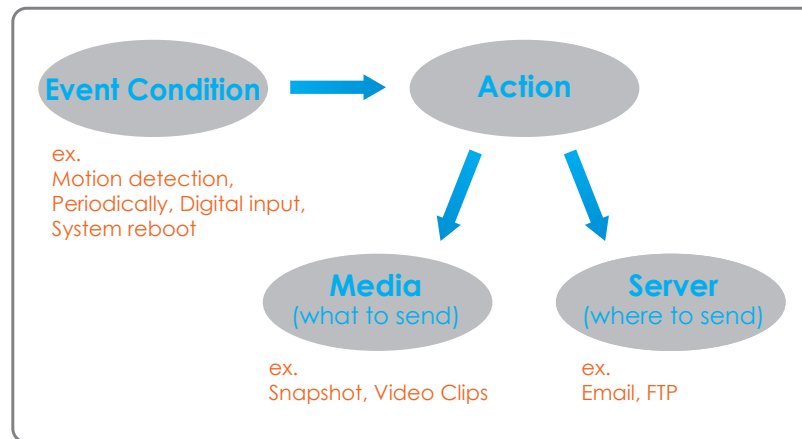
In a typical application, when motion is detected, the DCS-3112 Network Camera sends images to a FTP server or via e-mail as notifications. As shown in the illustration below, an event can be triggered by many sources, such as motion detection or external digital input devices. When an event is triggered, a specified action will be performed. You can configure the Network Camera to send snapshots or videos to your e-mail address or FTP site.



To start plotting an event, it is suggested to configure server and media columns first so that the Network Camera will know what action shall be performed when a trigger is activated.

# Application

In a typical application, when motion is detected, the DCS-3112 Network Camera sends images to a FTP server or via e-mail as notifications. As shown in the illustration below, an event can be triggered by many sources, such as motion detection or external digital input devices. When an event is triggered, a specified action will be performed. You can configure the Network Camera to send snapshots or videos to your e-mail address or FTP site.



To start plotting an event, it is suggested to configure server and media columns first so that the Network Camera will know what action shall be performed when a trigger is activated.

# Add Server

Configure up to 5 servers to store media.

**Server Name:** Enter the unique name of your server.

**E-mail:** Enter the configuration for the target e-mail server account.

**FTP:** Enter the configuration for the target FTP server account.

**Network Storage:** Specify a network storage device. Only one network storage device is supported.

**SD Card:** Use the camera's onboard SD card storage.

**D-Link**

DCS-3112 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

**SERVER**

You can set at most 5 different servers here for different event.

Test Save Settings Don't Save Settings

**SERVER TYPE**

Server Name:

☒ **Email**

Sender email address

Recipient email address

Server address

User name

Password

Port

☐ This server requires a secure connection (StartTLS)

☐ **FTP**

Server address

Port

User name

Password

Remote folder name

☐ Passive mode

☐ **Network storage**

Network storage location

(for example: \\my\_nas(disk)\folder)

Workgroup

User name

Password

Primary WINS server

☐ **SD Card**

Test Save Settings Don't Save Settings

**Helpful Hints...**

**"Server name"** The unique name for server. There are four kinds of servers supported. They are email server, FTP server, HTTP server and network storage.

**Email server:**  
**"Sender email address"** The email address of the sender.  
**"Recipient email address"** The email address of the recipient.

**FTP server:**  
**"Remote folder name"** Granted folder on the external FTP server. The string must conform to that of the external FTP server. Some FTP servers cannot accept preceding slash symbol before the path without virtual path mapping. Refer to the instructions for the external FTP server for details. The folder privilege must be open for upload.  
**"Passive Mode"** Check it to enable passive mode in transmission.

**Network storage:** Only one network storage is supported.  
**"Network storage location"** The path to upload the media.  
**"Workgroup"** The workgroup for network storage.

**SD card:** Use the SD card for recording media.

# Add Media

There are three types of media, **Snapshot**, **Video Clip** and **System Log**.

**Media Name:** Enter an unique name for media.

**Snapshot:** Select this option to enable snapshots.

**Source:** The stream source: **Profile 1**, **Profile 2** or **Profile 3**.

**Send pre-event image(s) [0~4]:** The number of pre-event images.

**Send post-event image(s) [0~7]:** The number of post-event images.

**File name prefix:** The prefix name will be added on the file name.

**Add date and time suffix to file name:** Check it to add timing information as file name suffix.

**Video clip:** Select this option to enable video clips.

**Source:** The source of the profile: **profile1**, **profile2**, or **profile3**.

**Pre-event recording:** The interval of pre-event recording in seconds.

**Maximum duration:** The maximal recording file duration in seconds.

**Maximum file size:** The maximal file size would be generated.

**File name prefix:** The prefix name will be added on the file name of the video clip.

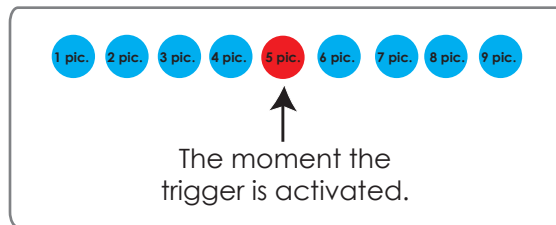
**System log:** Select this option to save events to the camera system log.

Send post-event image (s) [0~7]

Specify to capture the number of images after a trigger is activated. A maximum of seven images can be generated.

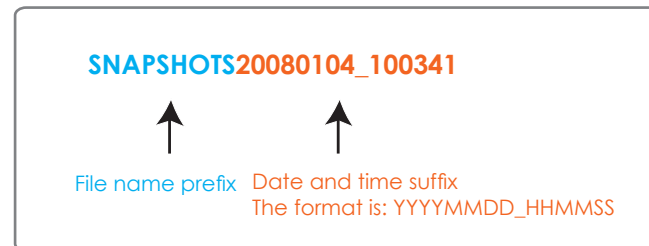
For example:

If both the Send pre-event images and Send post-event images are set to four, a total of 9 images are generated after a trigger is activated.



Add a date and time suffix to the file name

Select this option to add a date and time to the file name suffix.



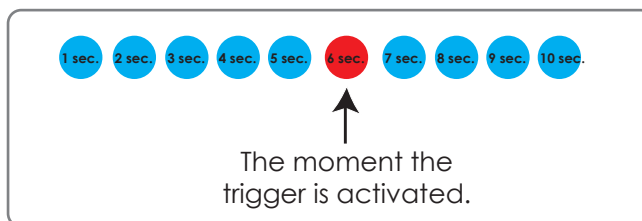


### Maximum duration

Specify the maximal recording duration in seconds. You can set up to ten seconds.

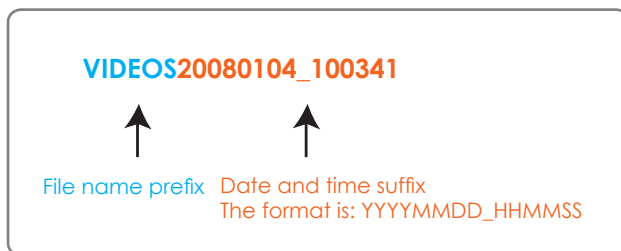
#### For example:

If the Pre-event recording is set to five seconds and the Maximum duration is set to ten seconds, the Network Camera continues to record for another four seconds after a trigger is activated.



### File name prefix

Enter the text that will be added at the beginning of the file name.



# Add Event

Create and schedule up to 3 events with their own settings here.

**Event name:** Enter a name for the event.

**Enable this event:** Select this box to activate this event.

**Priority:** Set the priority for this event. The event with higher priority will be executed first.

**Delay:** Select the delay time before checking the next event. It is being used for both events of motion detection and digital input trigger.

**Trigger:** Specify the input type that triggers the event.

**Video Motion Detection:** Motion is detected during live video monitoring. Select the windows that need to be monitored.

**Periodic:** The event is triggered in specified intervals. The trigger interval unit is in minutes.

**Digital input:** The external trigger input to the camera.

**System Boot:** Triggers an event when the system boots up.

**Network Lost:** Triggers an event when if the network connection is lost.

**Time:** Select **Always** or enter the time interval.

**Trigger D/O:** Select to trigger the digital output for a specific number of seconds when an event occurs.

**Server:** Specify the location where the event information should be saved to.

The screenshot shows the 'Add Event' configuration page for a D-Link DCS-3112 camera. The interface has a top navigation bar with 'D-Link' logo and tabs for 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' tab is active, and a left sidebar lists various setup options like 'Setup Wizard', 'Network Setup', 'Dynamic DNS', 'Image Setup', 'Audio and Video', 'Preset', 'Motion Detection', 'Time and Date', 'Event Setup', 'SD Card', and 'Logout'. The main content area is titled 'EVENT' and contains several sections:
 

- EVENT**: A summary box stating 'You can set at most 3 events like motion detection or digital input trigger here and arrange the detection schedule at the same time.' with 'Save Settings' and 'Don't Save Settings' buttons.
- Event name:** A text input field.
- Enable this event:** A checkbox.
- Priority:** A dropdown menu set to 'normal'.
- Delay for:** A text input set to '10' seconds, with a note: 'seconds before detecting next event [For motion detection and digital input]'.
- TRIGGER**: Radio buttons for 'Video motion detection' (selected), 'Periodic' (with a 'Trigger every' field set to '1' minutes), 'Digital input', 'System boot', and 'Network lost'.
- EVENT SCHEDULE**: A section for scheduling the event. It includes checkboxes for days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat) and a 'Time' section with 'Always' selected, and a range 'From 00:00 To 23:59'.
- ACTION**: A checkbox for 'Trigger D/O for' followed by a text input set to '1' seconds.

 On the right side of the form, there is a 'Helpful Hints...' section with detailed explanations for various triggers:
 

- Priority:** The event with higher priority will be executed first.
- Delay seconds(s) before detecting next event:** The delay to check next event. It is used in motion detection and digital input trigger type.
- Video motion detection:** Select the windows which need to be monitored. There are five kinds of trigger supported.
- Periodic:** The event is triggered in specified intervals. The unit of trigger interval is minute.
- Digital input:** The event is triggered when the status changed by external device.
- System boot:** The event is triggered when the system boot up.
- Network lost:** The event is triggered when the network service is available or disconnection.
- Sun - Sat:** Select the days of the week to perform the event.
- Time:** show "Always" input the time interval.
- Trigger D/O:** Check it trigger digital output for specific seconds when event is triggered.
- Note:** Please Format SD card before use. The entire data in the SD will be erased after formatting.

 At the bottom of the form, there are 'Save Settings' and 'Don't Save Settings' buttons.

# Add Recording

Here you can configure and schedule the recording settings.

**Recording entry name:** The unique name of the entry.

**Enable this recording:** Select this to enable the recording function.

**Priority:** Set the priority for this entry. The entry with a higher priority value will be executed first.

**Source:** The source of the stream.

**Recording schedule:** Scheduling the recording entry.

**Recording settings:** Configuring the setting for the recording.

**Destination:** Select the folder where the recording file will be stored.

**Total cycling recording size:** Please input a HDD volume between 1MB and 200GB for recording space. The recording data will replace the oldest record when the total recording size exceeds this value. For example, if each recording file is 6MB, and the total cyclic recording size is 600MB, then the camera will record 100 files in the specified location (folder) and then will delete the oldest file and create new file for cyclic recording.

Please note that if the free HDD space is not enough, the recording will stop. Before you set up this option please make sure your HDD has enough space, and it is better to not save other files in the same folder as recording files.

**Size of each file for recording:** File size for each recording file. You may input the value in the range of 200-5000.

**File Name Prefix:** The prefix name will be added on the file name of the recording file(s).

The screenshot shows the D-Link DCS-3112 web interface. The top navigation bar includes links for LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains a menu with options like Setup Wizard, Network Setup, Dynamic DNS, Image Setup, Audio and Video, Preset, Motion Detection, Time and Date, Event Setup, SD Card, and Logout. The main content area is titled 'RECORDING' and contains the following sections:

- RECORDING**: A section with a text box for 'Recording entry name', a checkbox for 'Enable this recording', a 'Priority' dropdown menu (set to 'normal'), and a 'Source' dropdown menu (set to 'Profile 1'). There are 'Save Settings' and 'Don't Save Settings' buttons at the bottom.
- RECORDING SCHEDULE**: A section with a 'Time' dropdown menu (set to 'Always') and a 'From' time range selector (set to '00:00' to '23:59'). There are 'Save Settings' and 'Don't Save Settings' buttons at the bottom.
- RECORDING SETTINGS**: A section with a 'Destination' dropdown menu (set to 'None'), a 'Total cycling recording size' input field (set to '1000' kbytes), a 'Size of each file for recording' input field (set to '200' kbytes), and a 'File Name Prefix' input field. There are 'Save Settings' and 'Don't Save Settings' buttons at the bottom.

On the right side of the interface, there is a 'Helpful Hints...' section with additional information about recording settings.

**LAN Settings:** Settings for your local area network.

**DHCP:** Select this connection if you have a DHCP server running on your network and would like a dynamic IP address to be updated to your camera automatically.

**Static IP Address:** You may obtain a static or fixed IP address and other network information from your network administrator for your camera. A static IP address will ease you for accessing your camera in the future.

**IP Address:** The fixed IP address.

**Subnet Mask:** The default value is "255.255.255.0." Used to determine if the destination is in the same subnet.

**Default Gateway:** The gateway used to forward frames to destinations in a different subnet. Invalid gateway settings may cause the failure of transmissions to a different subnet.

**Primary DNS:** Primary domain name server that translates names to IP addresses.

**Secondary DNS:** Secondary domain name server to backup the primary one.

**Enable UPnP:** Enable this setting to allow your camera to be configured as an UPnP device in your network.

**Enable UPnP port forwarding:** Enable this setting to allow the camera to add port forwarding entries into the router automatically.

**Enable PPPoE:** Enable this setting if you network is using PPPoE service.

**User Name:** The unique name to your account. You may obtain this information from your ISP.

**Password:** The password to your account. You may obtain this information from your ISP.

**HTTP Port:** The default value is 80.

**RTSP port:** The port number that you use for RTSP streaming to mobile devices, such as mobile phones or PDAs. The default port number is 554.

# SD Card

Here you may browse and manage the recorded files which are stored on the SD card.

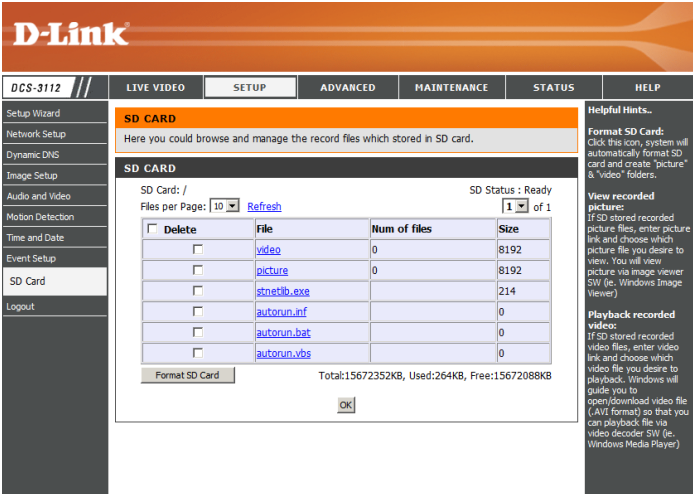
- Format SD Card:

Click this icon to automatically format the SD card and create "picture" & "video" folders.
- View Recorded Picture:

If the picture files are stored on the SD card, click on the picture folder and choose the picture file you would like to view.
- Playback Recorded Video:

If video files are stored on the SD card, click on the video folder and choose the video file you would like to view.
- Refresh:

Reloads the file and folder information from the SD card.



# Advanced

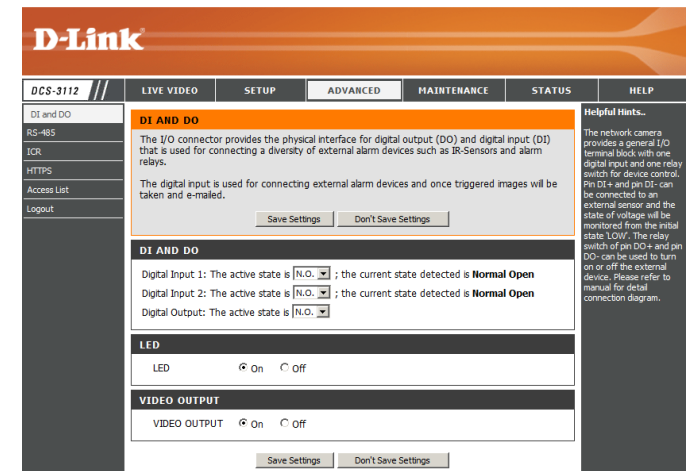
## Digital Input/Output

This screen allows you to control the behavior of digital input and digital output devices. The I/O connector provides the physical interface for digital output (DO) and digital input (DI) that is used for connecting a diversity of external alarm devices such as IR-Sensors and alarm relays. The digital input is used for connecting external alarm devices and once triggered images will be taken and e-mailed.

**Select D/I or D/O Mode:** The camera will send a signal when an event is triggered, depending upon the type of device connected to the DI circuit.

N.C. stands for **Normally Closed**. This means that the normal state of the circuit is closed. Therefore events are triggered when the device status changes to "Open."

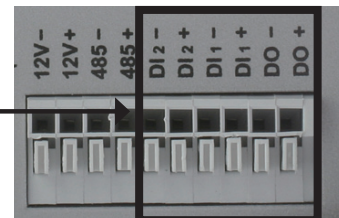
N.O. stands for **Normally Open**. This means that the normal state of the circuit is open. Therefore events are triggered when the device status changes to "Closed."



**LED:** You may specify whether or not to illuminate the LED on the side of the camera.

**Video Output:** Enable/ disable the BNC terminal TV output signal.

D/I and D/O  
Pin Block



# RS-485

You may configure the RS-485 settings or communication specifications (baud rate, data bit, stop bit, and parity bit) for your camera. RS-485 is a serial communication method for computers and devices. RS-485 is used to control a PAN/TILT apparatus, such as an external camera enclosure.

**Support** When **Support PAN-TILT** is enabled, a control panel will be displayed on the Live Video page allowing control through RS-485 for an external camera enclosure.

**Protocol:** Select one protocol type from the pull-down menu.

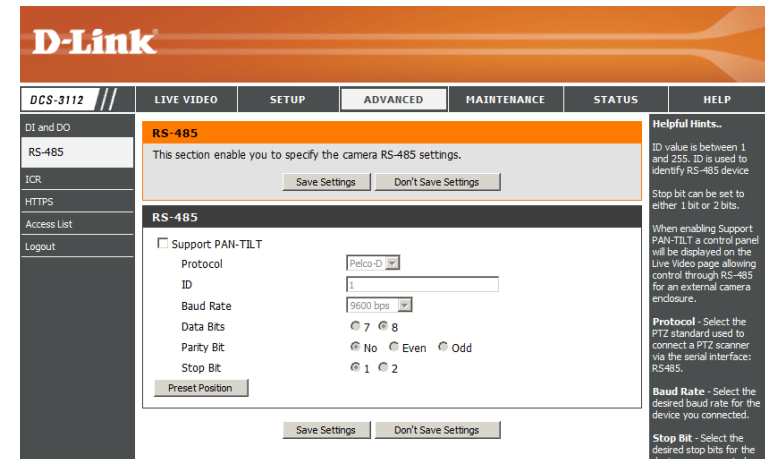
**ID:** This ID is the identifier for RS-485 devices. IDs range from 1 to 255.

**Baud Rate:** Baud Rate is a speed measurement for communication between a transmitter and receiver which indicates the number of bit transfers per second. A higher baud rate will reduce the distance of the two devices (transmitter and receiver). Values range from 2400 (default) to 19200 bps.

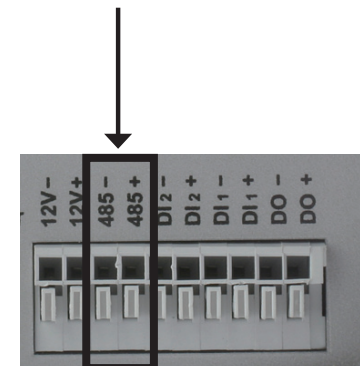
**Data Bit:** This value is the number of data bits in a transmission. The data bit can be 7 or 8 (default).

**Parity Bit:** Parity is a form of error checking used in serial communication. For even and odd parities, the serial port sets the parity bit (the last bit after the data bits) to a value to ensure that the transmission has an even or odd number of logic-high bits. For example, if the data is 011, for even parity, the parity bit is 0 to keep the number of logic-high bits even. If the parity is odd, the parity bit is 1, resulting in 3 logic-high bits. Parity can be set to **No** (none), **Even**, and **Odd**.

**Stop Bit:** The stop bit is used to signal the end of communication for a single packet. The more bits used for stop bits, the greater the lenience in synchronizing the different clocks but the slower the data transmission rate. The stop bit can be set to 1 or 2. The default value is 1.



RS-485  
Pin Block



# ICR

You may configure the ICR settings here. An IR(Infrared) Cut-Removable(ICR) filter can be disengaged for increased sensitivity in low light environments.

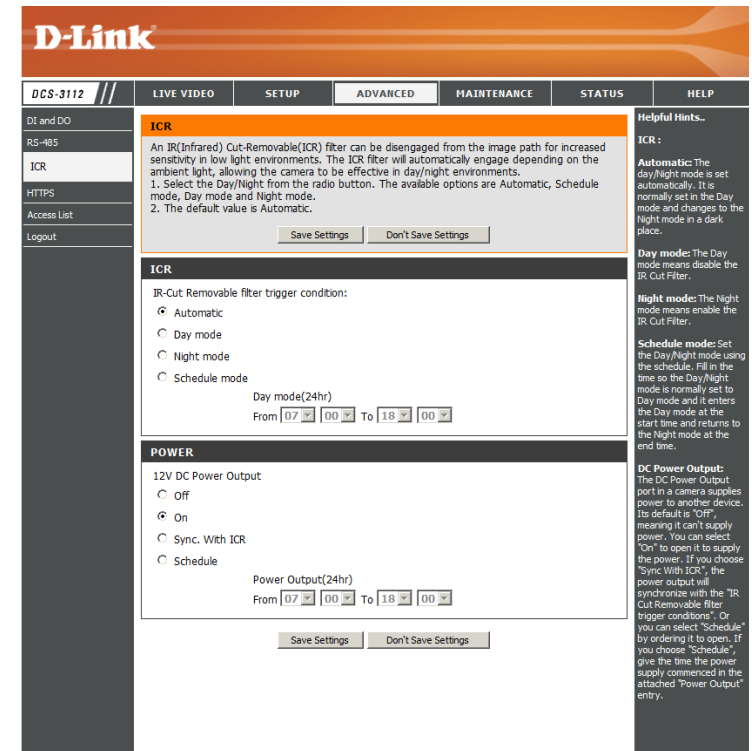
**Automatic:** The Day/Night mode is set automatically. Generally, the camera uses Day mode and switches to Night mode when needed.

**Day Mode:** Day mode enables the IR Cut Filter.

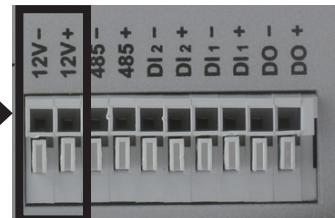
**Night Mode:** Night mode disables the IR Cut Filter.

**Schedule Mode:** Set up the Day/Night mode using a schedule. The camera will enter Day mode at the starting time and return to Night mode at the ending time.

**DC Power Output:** The DC 12V Power Output port can supply 12V DC, 200mA of power to another device (such as a spotlight or infrared lamp). Its default setting is **Off**, meaning it will not supply power. You can select **On** to turn on the power supply. If you choose **Sync With ICR**, the power output will be enabled whenever the IR Cut Filter is active. Alternatively, you can select **Schedule** and manually specify when the power should be enabled.



DC Power Output  
12V DC, 200mA





# HTTPS

This page allows you to install and activate an HTTPS certificate for secure access to your camera.

**Enable HTTPS Secure Connection:** Enable the HTTPS service.

**Create Certificate Method:** Choose the way the certificate should be created. Three options are available:

Create a self-signed certificate automatically.  
Create a self-signed certificate manually.  
Create a certificate request and install.

**Status:** Displays the status of the certificate.

**Note:** The certificate cannot be removed while the HTTPS is still enabled. To remove the certificate you must first uncheck **Enable HTTPS secure connection**.

**D-Link**

DCS-3112 // LIVE VIDEO SETUP **ADVANCED** MAINTENANCE STATUS HELP

**HTTPS**

To enable HTTPS, you have to create and install certificate first.

[Save Settings](#) [Don't Save Settings](#)

**HTTPS**

☐ Enable HTTPS secure connection

Create certificate method

☒ Create self-signed certificate automatically

☐ Create self-signed certificate manually

☐ Create certificate request and install

Create certificate: [Create](#) Private key existed

**CERTIFICATE INFORMATION**

Status	Active
Country	TW
State or province	Taiwan
Locality	Taipei
Organization	D-Link Taiwan
Organization Unit	R&D Dept.
Common Name	www.dlink.com.tw

[CSR Property](#) [Certificate Property](#) [Remove](#)

[Save Settings](#) [Don't Save Settings](#)

**Helpful Hints...**

**Enable HTTPS secure connection:** allows you to enable HTTPS service

**HTTP & HTTPS:** This is default enable.

**HTTPS only:** Select this will redirect all the HTTP connection to HTTPS pages automatically.

**Note:**  
1. The certificate can't be removed while the HTTPS is still enable. To remove the certificate you have to uncheck the "Enable HTTPS secure connection" first.

# Access List

Here you can set access permissions for users to view your DCS-3112.

**Allow list:** The list of IP addresses that have the access right to the camera.

**Start IP address:** The starting IP Address of the devices (such as a computer) that have permission to access the video of the camera. Click Add to save the changes made.

**Note:** A total of seven lists can be configured for both columns.

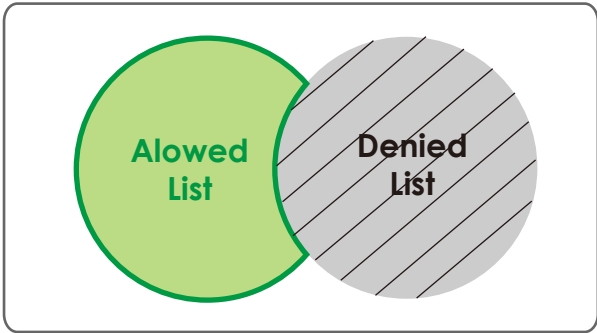
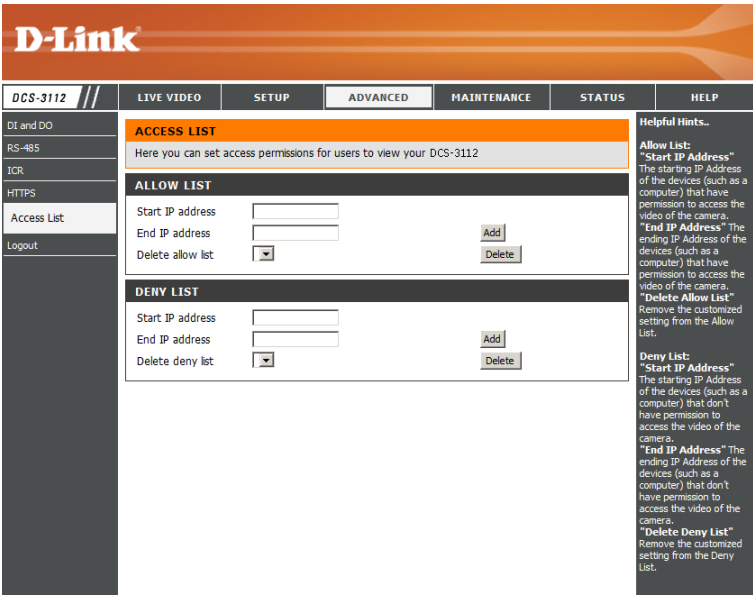
**End IP address:** The ending IP Address of the devices (such as a computer) that have permission to access the video of the camera.

**Delete allow list:** Remove the customized setting from the Allow List.

**Deny list:** The list of IP addresses that have no access right to the camera.

**Delete deny list:** Remove the customized setting from the Delete List.

**For example:**  
When the range of the Allowed List is set from 1.1.1.0 to 192.255.255.255 and the range of the Denied List is set from 1.1.1.0 to 170.255.255.255. Only users with IPs located between 171.0.0.0 and 192.255.255.255 can access the Network Camera.



# Maintenance

## Device Management

You may modify the name and administrator's password of your camera, as well as add and manage the user accounts for accessing the camera. You may also use this section to create the unique name and configure the OSD setting for your camera.

**Admin Password Setting:** Set a new password for the administrator's account.

**Add User Account:** Add new user account.

**User Name:** The user name for the new account.

**Password:** The password for the new account.

**User List:** All the existing user accounts will be displayed here. You may delete accounts includes in the list, but please reserve at least one as guest.

**Camera Name:** Create a unique name for your camera that will be added to the file name prefix when creating a snapshot or a video clip.

**Enable OSD:** Select this option to enable the On-Screen Display feature for your camera.

**Label:** Enter a label for the camera.

**Show Time:** Select this option to enable the time-stamp display on the video screen.

**D-Link**

DCS-3112 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

**ADMIN**

Here you can change the administrator's password for your camera as well as add and/or delete user account(s). You can configure the information, such as camera's name and time via this page. You can also enable the OSD (On-Screen Display) feature in order to display the camera name and time stamp for your video recordings.

**ADMIN PASSWORD SETTING**

New Password  8 characters maximum  
Retype Password

**ADD USER ACCOUNT**

User Name  20 users maximum  
New Password  8 characters maximum  
Retype Password

**USER LIST**

User Name  -- User list --

**DEVICE SETTING**

Camera Name  DCS-3112 30 characters maximum  
☒ Enable OSD  
Label  DCS-3112  
Show time ☒

**Helpful Hints...**

Enabling OSD, the camera name and time will be displayed on the video screen for the user.

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.

# Backup and Restore

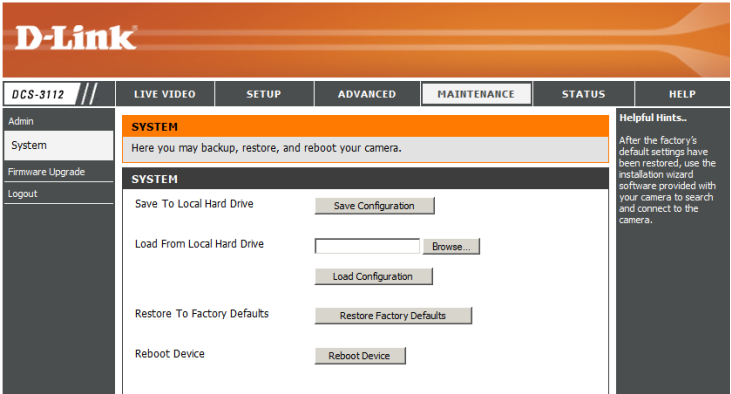
In this section, you may backup, restore and reset the camera configuration, or reboot the camera.

**Save To Local Hard Drive:** You may save and document your current settings into your computer.

**Local From Local Hard Drive:** Locate a pre-saved configuration by clicking **Browse** and then restore the pre-defined settings to your camera by clicking **Load Configuration**.

**Restore to Factory Default:** You may reset your camera and restore the factory settings by clicking **Restore Factory Defaults**.

**Reboot Device:** This will restart your camera.



# Firmware Upgrade

The camera's current firmware version will be displayed on this screen. You may visit the D-Link Support Website to check for the latest available firmware version.

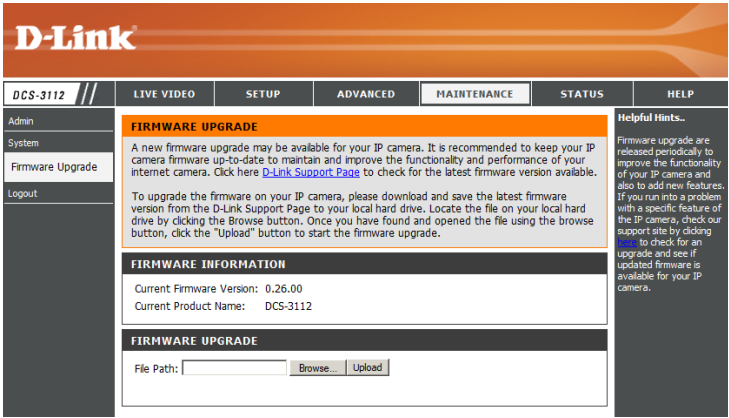
To upgrade the firmware on your DCS-3112, please download and save the latest firmware version from the D-Link Support Page to your local hard drive. Locate the file on your local hard drive by clicking the **Browse** button. Select the file and click the **Upload** button to start upgrading the firmware.

**Current Firmware Version:** Displays the detected firmware version.

**Current Product Name:** Displays the camera model name.

**File Path:** Locate the file (upgraded firmware) on your hard drive by clicking **Browse**.

**Upload:** Uploads the new firmware to your camera.



# Status

## Device Info

This page displays detailed information about your device and network connection.

DCS-3112

//

Device Info

Log

Logout

DEVICE INFO

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

INFORMATION

Camera Name	DCS-3112
Time & Date	Mon Oct 19 17:54:46 2009
Firmware Version	0.26.00
MAC Address	00:0C:0C:80:09:09
IP Address	172.17.5.113
IP Subnet Mask	255.255.255.0
Default Gateway	172.17.5.254
Primary DNS	0.0.0.0
Secondary DNS	168.95.1.1
PPPoE	Disable
DDNS	Disable
AES	Enable
TV Output Mode	NTSC

Helpful Hints...

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

# Logs

This page displays the log information of your camera. You may download the information by clicking **Download**. You may also click **Clear** to delete the saved log information.

DCS-3112

Device Info

Log

Logout

LIVE VIDEO

SETUP

ADVANCED

MAINTENANCE

STATUS

HELP

SYSTEM LOG

The system log records camera events that have occurred.

CURRENT LOG

1. 2009-10-19 17:50:54 MOTION OCCURRED

2. 2009-10-19 17:50:53 MOTION OCCURRED

3. 2009-10-19 17:50:50 MOTION OCCURRED

4. 2009-10-19 17:50:49 MOTION OCCURRED

5. 2009-10-19 17:50:48 MOTION OCCURRED

6. 2009-10-19 17:50:47 MOTION OCCURRED

7. 2009-10-19 17:50:46 MOTION OCCURRED

8. 2009-10-19 17:50:45 MOTION OCCURRED

9. 2009-10-19 17:50:43 MOTION OCCURRED

10. 2009-10-19 17:50:38 MOTION OCCURRED

11. 2009-10-19 17:50:37 MOTION OCCURRED

12. 2009-10-19 17:50:36 MOTION OCCURRED

13. 2009-10-19 17:50:34 MOTION OCCURRED

14. 2009-10-19 17:50:33 MOTION OCCURRED

15. 2009-10-19 17:50:31 MOTION OCCURRED

16. 2009-10-19 17:50:30 MOTION OCCURRED

17. 2009-10-19 17:50:29 MOTION OCCURRED

18. 2009-10-19 17:50:28 MOTION OCCURRED

19. 2009-10-19 17:50:27 MOTION OCCURRED

20. 2009-10-19 17:49:48 MOTION OCCURRED

First Page

Previous 20

Next 20

Clear

Download

Helpful Hints..

You can save the log to your local hard drive by clicking the Download button, and you can clear the log by clicking on the Clear button.

# Help

This page provides helpful information regarding camera operation.

DCS-3112

///

Help

Logout

LIVE VIDEO

SETUP

ADVANCED

MAINTENANCE

STATUS

HELP

HELP

- LIVE VIDEO
- SETUP
- MAINTENANCE
- ADVANCED
- STATUS

LIVE VIDEO

- Camera

SETUP

- Setup Wizard
- Network Setup
- Wireless Setup
- Dynamic DNS
- Image Setup
- Audio and Video
- Preset
- Motion Detection
- Time and Date
- Event Setup
- SD Card

ADVANCED

- DI and DO
- HTTPS
- Access List

MAINTENANCE

- Admin
- System
- Firmware Upgrade

STATUS

- Device Info
- Log

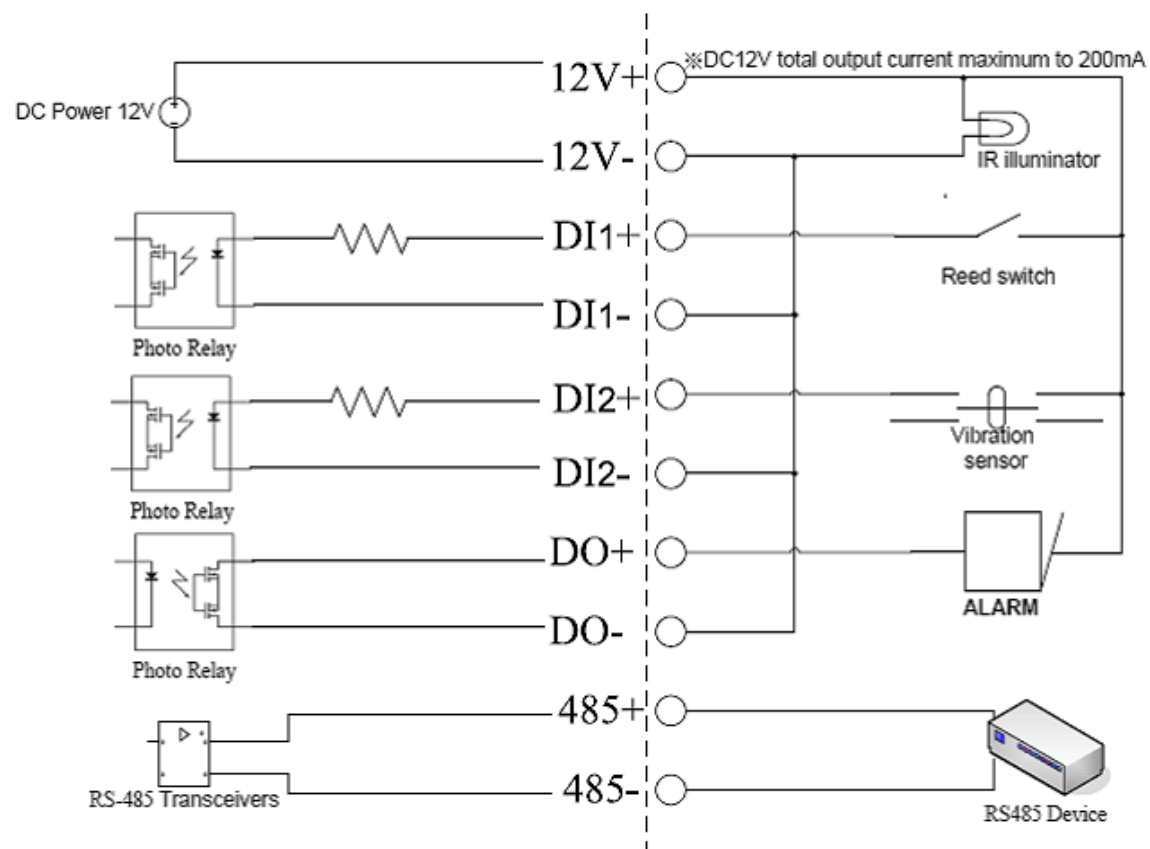
D-Link DCS-3112 User Manual

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# DI/DO Schematics

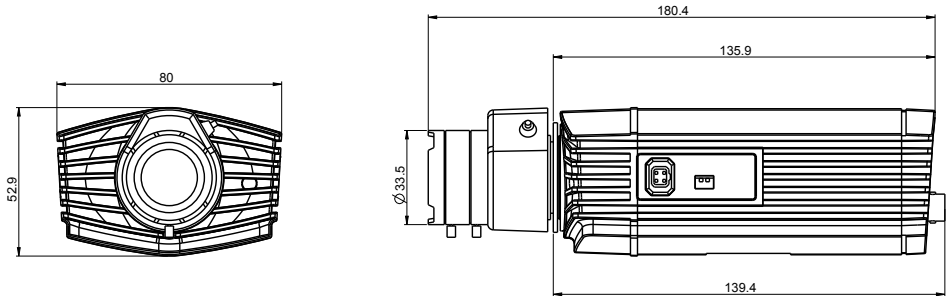
## DI/DO



<b>12V+/12V-</b>	Connect to an IR illuminator or other device in parallel connection. The total output current should be under 200mA.
<b>DI</b>	Receive signals from a motion detector or any other external security device.
<b>DO</b>	Connect to an alarm or buzzer. Refer to page 57.
<b>485+/485-</b>	Connect to the RS-485 interface for controlling auxiliary equipment such as an external camera enclosure to perform PAN and TILT movement. Refer to page 57 for more information.

# Technical Specifications

<b>Camera</b>	Camera Hardware Profile	<ul style="list-style-type: none"> <li>▪ Sony Exmor 1/4" 1.3 Megapixel progressive CMOS sensor</li> <li>▪ Minimum illumination: 0.4 lux (Color); 0.04 lux (B/W)</li> <li>▪ Built-in Infrared-Cut Removable (ICR) Filter module</li> <li>▪ 10X digital zoom</li> </ul>	<ul style="list-style-type: none"> <li>▪ DC iris varifocal length: 3.5 mm to 8 mm</li> <li>▪ Aperture: F1.4</li> <li>▪ Angle of view: (H) 35.4° to 77.6° (V) 26.6° to 57.6° (D) 44.3° to 97.9°</li> </ul>
	Image Features	<ul style="list-style-type: none"> <li>▪ Configurable image size, quality, frame rate, and bit rate</li> <li>▪ Time stamp and text overlays</li> <li>▪ Configurable motion detection windows</li> </ul>	<ul style="list-style-type: none"> <li>▪ 3 configurable privacy mask zones</li> <li>▪ Configurable white balance, shutter speed, brightness, saturation, contrast, and sharpness</li> </ul>
	Video Compression	<ul style="list-style-type: none"> <li>▪ H.264/MPEG-4/MJPEG simultaneous format compression</li> <li>▪ JPEG for still images</li> </ul>	<ul style="list-style-type: none"> <li>▪ H.264/MPEG-4 multicast streaming</li> </ul>
	Video Resolution	<ul style="list-style-type: none"> <li>▪ 16:9 - 1280 x 720, 800 x 450, 640 x 360, 480 x 270, 320 x 176, 176 x 144</li> <li>▪ 4:3 - 1280 x 1024, 1280 x 960, 1024 x 768, 800 x 600, 640 x 480, 480 x 360, 320 x 240, 176 x 144</li> <li>▪ All resolutions support frame rates of up to 30 fps</li> </ul>	
	Audio Support	<ul style="list-style-type: none"> <li>▪ G.726</li> </ul>	
	External Device Interface	<ul style="list-style-type: none"> <li>▪ 2 DI / 1 DO interface</li> <li>▪ 12 V DC, 200 mA Output</li> <li>▪ RS-485</li> </ul>	<ul style="list-style-type: none"> <li>▪ SD card</li> <li>▪ Audio input / output</li> <li>▪ Video output</li> </ul>
<b>Network</b>	Network Protocols	IPv4, TCP/IP, UDP, ICMP, DHCP Client, NTP Client (D-Link), DNS Client, DDNS Client (D-Link), SMTP Client, FTP Client, HTTP/HTTPS, Samba Client, PPPoE, UPnP Port Forwarding, RTP/RTSP/RTCP, IP filtering, 3GPP, IGMP, ONVIF compliant	
	Security	<ul style="list-style-type: none"> <li>▪ Administrator and user group protection</li> <li>▪ Password authentication</li> </ul>	<ul style="list-style-type: none"> <li>▪ HTTP and RTSP digest encryption</li> </ul>

System Management	System Requirements for Web Interface	<ul style="list-style-type: none"><li>Operating System: Microsoft Windows 7/Vista/XP/2000</li><li>Browser: Internet Explorer, Firefox, Netscape, Opera</li></ul>	
	Event Management	<ul style="list-style-type: none"><li>Motion detection</li><li>Event notification and upload of snapshots/video clips via HTTP, SMTP, or FTP</li></ul>	<ul style="list-style-type: none"><li>Supports multiple HTTP, SMTP, and FTP servers</li><li>Multiple event notifications</li><li>Multiple recording methods for easy backup</li></ul>
	Remote Management	<ul style="list-style-type: none"><li>Configuration accessible via web browser</li><li>Take snapshots/video clips and save to local hard drive or NAS via web browser</li></ul>	
	Mobile Support	Windows 7/Vista/XP system, Pocket PC, or mobile phone with 3GPP playback support	
	D-ViewCam™ System Requirements	<ul style="list-style-type: none"><li>Operating System: Microsoft Windows 7/Vista/XP</li><li>Web Browser: Internet Explorer 6 or higher</li></ul>	<ul style="list-style-type: none"><li>Protocol: Standard TCP/IP</li></ul>
	D-ViewCam™ Software Functions	<ul style="list-style-type: none"><li>Remote management/control of up to 32 cameras</li><li>Viewing of up to 32 cameras on one screen</li></ul>	<ul style="list-style-type: none"><li>Supports all management functions provided in web interface</li><li>Scheduled motion-triggered or manual recording options</li></ul>
General	Power Input	12 V DC 1.25 A, 50/60 Hz, 802.3af PoE	
	Max. Power Consumption	3.6 watts	
	Operating Temperature	0 to 40 °C (32 to 104 °F)	
	Storage Temperature	-20 to 70 °C (-4 to 158 °F)	
	Humidity	20% to 80% non-condensing	
	Weight	560 g	
	Certifications	CE (Class A), LVD, FCC (Class A), ICES-003, C-Tick	
Dimensions	<div></div>		

# Contacting Technical Support

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

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

- Model number of the product (e.g. DCS-3211)
- 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:

(800) 361-6560

### 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 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. 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 D-Link 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 (USA 1-877-453-5465 or Canada 1-800-361-5265), 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. Enter the assigned Case ID Number at <https://rma.dlink.com/> (USA only) or <https://rma.dlink.ca> (Canada only).

- 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 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.
- USA residents send to 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.
- Canadian residents send to D-Link Networks, Inc., 2525 Meadowvale Boulevard Mississauga, Ontario, L5N 5S2 Canada. 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 Purolator Canada or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in Canada, 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. RMA phone number: 1-800-361-5265 Hours of Operation: Monday-Friday, 9:00AM – 9:00PM EST.

### **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.

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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 & 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

Register your product online at [registration.dlink.com](http://registration.dlink.com)



Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.

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