USER MANUAL DCS-2130

VERSION 1.0





SURVEILLANCE

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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	June 14, 2011	DCS-2130 Revision A1 with firmware version 1.00

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Product Overview

Package Contents

- DCS-2130 Network Camera
- CAT5 Ethernet cable
- Power adapter
- Camera stand
- CD-ROM with User Manual and software
- Quick Installation Guide

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



System Requirements

- Existing 10/100 Ethernet-based network or 802.11n/g wireless network
- Computer with Windows 7/Vista/XP for Camera Setup Wizard
- Internet Explorer, Firefox, Opera, or other web browser for web interface (Internet Explorer recommended for full functionality)

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

Hardware Overview

Front



Rear





Starting the Camera Installation Wizard

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

The CD-ROM will open the Camera Setup Wizard. Simply click the **Start** button to go through the Setup Wizard, which will guide you through the setup process from connecting your hardware to configuring your camera.



Connecting Wirelessly Using WPS

Alternatively, you may create a wireless connection by using the WPS Button on the back of the camera.

To create a WPS connection:

Step 1

Press and hold the WPS button on the back of the camera for three seconds. The WPS status LED above the button will blink.

Step 2

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

The DCS-2130 will automatically create a wireless connection to your router. While connecting, the green LED will flash and your camera will reboot.



Using the Configuration Menu

After completing the Camera Setup Wizard, you are ready to use your camera. The camera's built-in Web configuration utility is designed to allow you to easily access and configure your DCS-2130. At the end of the wizard, click the **Go To Camera** button, or enter the IP address of your camera into a web browser, such as Internet Explorer. To log in, use the user name **admin** and the password you created in the Installation Wizard. If you did not create a password, the default password is blank. After entering your password, click the **OK** button.

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



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.

	Digital Input Indicator	This indicator will change color when a digital input signal is detected.
1994	Motion Trigger Indicator	This indicator will change color when a trigger event occurs. Note: The video motion feature for your camera must be enabled.
REC	Recording Indicator	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

Control Pad	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 (Preset List) will display it.

- **SD 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."
- **IO Status:** This option displays the status of your I/O device if a device has been connected.
- **PTZ Control:** This camera uses electronic pan/tilt/zoom (ePTZ) to select and view areas of interest in the field of view. Please see page 26 for information about setting the frame size and view window area.
- **ePTZ Speed:** You may select a value between 0 and 64. 0 is the slowest and 64 is the fastest.
- **Global View:** This window indicates the total field of view (FOV) of the camera. The red box indicates the visible region of interest (ROI).
 - Language: You may select the interface language using this menu.



\longleftrightarrow	Auto Pan	Starts the automatic panning function. The ROI will pan from back and forth within the FOV
×	Stop	Stops the camera ePTZ motion
~	Preset Path	Starts the camera's motion along the predefined 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 and skip to page 22.

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 27.



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. To set-up your camera motion detection settings, please click Back button to close this wizard and re-open the

Step 1: Setup LAN Settings
 Step 2: Setup DDNS Settings
 Step 3: Camera Name Setting

velcome to d-link setup wizard - internet connection setup

motion detection setup wizard.

Please conne DHCP buttor buttor

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.

 Step 4: S 	etup Time Zone	
Back	Next Cancel	
1: Setup LAN Settings		
select whether your camera will connect to the Internet with a DHCP connection or Static IP address. If your camera is ted to a router, or you are unsure which settings to pick, D-Link recommends that you keep the default selection of connection. Otherwise, pick on Static IP address to manually assign and IP address before clicking on the Next .Please enter your ISP Username and Password in the case that your ISP is using PPPoE and then click on the Next .Please contact your ISP if you on the know your Username and Password.		
DHCP		
Static IP Clien	t	
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 PPPoE		
User Name		
Password Back	(e.g. 123456@hinet.net) Next Cancel	

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Configuration

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.

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 unare 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 you ISP Username and Password in the case that you ISP is using PPPoE and then click on the Next button.Please contact you ISP if you do not know your Username and Password.

O 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 PPPoE	
User Name	
	(e.g. 123456@hinet.net)
Password	
Back I	Next Cancel

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.

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.				
En	able DDNS			
Se	rver Address	www.dlinkddns.com	<< www.dlinkddns.com	Y
Ho	st Name			
Us	er Name			
Pa	ssword			
Ve	rify Password			
Tir	neout	24	(hours)	
		Back Next	Cancel	

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 DCS-3710
Back Next Cancel

Configuration

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

p 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	

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 5: Setup complete

low is a summary of your all settings are correct. It a your web browser.	camera settings. Cl is recommended to	ick on the Back button to review or modify settings or dick on the Apply button note down these settings in order to access your camera on the network or
	IP Address	DHCP
	IP Camera Name	DCS-3710
	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 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
C From 00 V 00 V To 23 V 59 V
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 4

You have completed the Motion Detection Wizard.

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

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

Step 3: Alerts and Notification

O Do r	not motify me	
• Ema	1	
	Sender email address	
	Recipient email address	
	Server address	
	User name	
	Password	
	Port	25
O FTP		
	Server address	
	Port	21
	User name	
	Password	
	Remote folder name	

You have completed your camera setup. F	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 s	settings.
Motion Detection :	Enable
EVENT :	Video Clip
Schedule Day :	Sun "Mon "Tue "Wed "Thu "Fri "Sat "
Schedule Time :	Always
Alerts and Notification :	Email

You have completed the Apply button to	your camera setup. Please click the Back button if you want to review or modify your settings or click save and apply your settings.
Changes save	d.IP Camera's network is restarting, please wait for 3 seconds
	Back Apply Cancel

Network Setup

Use this section to configure the network connections for your camera. All relevant information must be entered accurately. After making any changes, click the **Save Settings** button to save your changes.

- LAN Settings: This section lets you configure 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.

LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS NETWORK SETUP You can configure your LAN and Internet settings here. Save Settings Don't Save Settings	HELP
LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS NETWORK SETUP You can configure your LAN and Internet settings here. Save Settings Don't Save Settings	HELP
NETWORK SETUP You can configure your LAN and Internet settings here. Save Settings Don't Save Settings	
You can configure your LAN and Internet settings here. Save Settings Don't Save Settings	Helpful Hints
Save Settings Don't Save Settings	Select 'DHCP Connection'if you
	running a DHCP s your network and
LAN SETTINGS	like an IP address assigned to your camera automatic
DHCP	UPnP - Enabling
Static IP Client	settings will allow configure your IP
IP address 172.17.5.116	as an UPnP devic network.
Subnet mask 255.255.255.0	PPPoE Setting
Default router 172.17.5.254	use the IP camer connect directly t
Primary DNS 192.168.168.250	Internet, you will enter the userna
Secondary DNS 192.168.168.201	password, which given to you whe
Enable UPnP presentation	set up your accor your Internet Ser
Enable UPnP port forwarding	Provider. If the o behind a router o
Forwarding Status UPnP forwarding is inactive	gateway, you do need to configure
DDDOE SETTINGS	setting.
	port you allocate to connect to the
Enable Disable	camera via a star web browser.
Password	HTTPS - HTTPS
Confirm password	IP camera conne with a PC via a s
PPPoE Status PPPoE is inactive.	web browser.
нттр	RTSP - RTSP Por port you allocate to connect to a T
HTTP port 80	by using streamin device(s), such a
Access name for stream1 video 1.mjpg	mobile phone or I
Access name for stream2 video2.mjpg	Traffic - Specify maximum downlo
	upload bandwidtl each socket is us
HTTPS	when connecting device to a busy
HTTPS port 443	heavily loaded ne
RTSP	* The value '0' m will not monitor a traffic
RTSP port 554	u unic.
Access name for stream1 live1.sdp	
Access name for stream2 live2.sdp	
TRAFFIC	
Maximum Upload Bandwidth: 0 Kilo Bytes Per Second	
Maximum Download Bandwidth: 0 Kilo Bytes Per Second	
Enus Settions	
Save Seturigs Don't Save Seturigs	
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D-Link DCS-2130 User Manual

Configuration

- **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.
 - **Enable PPPoE:** Enable this setting if your network uses PPPoE.
 - User Name / Password: Enter the username and password for your PPPoE account. Re-enter your password in the Confirm Password field. 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.

			MAINTENANCE	STATUS	HEI
NETWORK SETU	JP				Helpful Hints.
You can configure	your LAN and	Internet settings here.			Select 'DHCP Connection if yo
	Save	e Settings Don't Sa	ve Settings		running a DHCP your network a
LAN SETTINGS					like an IP addre assigned to you
					UPnP - Enabir
Static IP Clien	t				settings will all configure your
IP add	ress	172.17.5.116			as an UPnP de network.
Subne	t mask	255.255.255.0			PPPoE Settin
Default	t router	172.17.5.254			use the IP can connect direct
Primary	DNS	192.168.168.250			Internet, you enter the user
Secon	dary DNS	192.168.168.201			password, whi given to you w
Enable UPnP	presentation				set up your ac your Internet
Enable UPnP	oort forwarding	1024 Tert			Provider. If th behind a route
Forwar	ding Status	UPnP forwarding is inac	tive		gateway, you need to config
					setting.
PPPOE SETTING	3S				port you alloca
Enable O Di	sable				camera via a s
User N	ame				web browser.
Confirm	n nassword				IP camera con
PPPoE	Status	PPPoE is inactive.			web browser.
					RTSP - RTSP
нтр					to connect to by using stream
HTTP port		80			device(s), suc mobile phone
Access name for s	tream?	video 2 mino			Traffic - Spe
	crearing.	The continger			maximum dow upload bandw
HTTPS					each socket is when connect
HTTPS port	443				device to a bu heavily loaded
					* The value '0
RTSP					traffic.
RTSP port		554			
Access name for s	tream1	Ive 1.sdp			
ALCESS name for s	uream2	Ive2.sdp			
TRAFFIC					
Maximum Upload E	Bandwidth:	0 Kilo Bytes Per	Second		
Maximum Downloa	d Bandwidth:	0 Kilo Bytes Per	Second		_
L					

D

DCS-2 Setup V Networ Wireles Dynami Image 5 Audio a Preset Motion Time ar Event 5 SD Carr Logout

Maximum Upload/Download Specifying the maximum download/upload bandwidth

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.

LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP			
NETWORK S	ETUP				Helpful Hints			
You can config	You can configure your LAN and Internet settings here.							
	Save Se	ttings Don't Save	Settings		running a DHCP ser your network and v			
_					like an IP address assigned to your IP			
LAN SETTIN	65				camera automatica			
DHCP	ot				settings will allow y			
U Static IP (address 13	72 17 5 116			as an UPnP device			
Su	bnet mask 25	55.255.255.0			PPPoE Sotting - 1			
De	fault router	72.17.5.254			use the IP camera t			
Pri	mary DNS 19	92.168.168.250			Internet, you will n			
Se	condary DNS	92.168.168.201			password, which w			
Enable UP	PnP presentation				set up your account			
Enable UP	PnP port forwarding				Provider. If the can			
Fo	rwarding Port	124 Test	-		gateway, you do n			
FO	rwarding Status OP	rne forwarding is inactiv	re .		setting.			
PPPOE SETT	TINGS				HTTP - HTTP Port i			
O Enable 🤆	Disable				to connect to the If			
Us	er Name				web browser.			
Pa	ssword				HTTPS - HTTPS Po			
Co	nfirm password				with a PC via a sec web browser.			
PP	POE Status PP	POE IS INACUVE.			RTSP - RTSP Porti			
нттр					port you allocate in to connect to a IP of			
HTTP port		80			by using streaming device(s), such as a			
Access name t	for stream1	video 1.mjpg			mobile phone or PD			
Access name f	for stream2	video2.mjpg			Traffic - Specifying maximum download			
HTTPS					upload bandwidth f each socket is usefi			
UTTPC and	140				when connecting ye device to a busy or			
HTTPS porc	713				* The unive '0' mean			
RTSP					will not monitor any			
RTSP port		554						
Access name f	for stream1	live 1.sdp						
Access name f	for stream2	live2.sdp						
TRAFFIC								
Maximum Unlo	ad Bandwidth: 0	Kilo Bytes Per S	econd					
Maximum Dow	nload Bandwidth: 0	Kilo Bytes Per S	econd					
	Save Se	ttings Don't Save	Settings					
T 11								

Wireless Setup

This section allows you to set up and configure the wireless settings on your camera. After making any changes, click the **Save Settings** button to save your changes.

- Site Survey: Click the **Rescan** button to scan for available wireless networks. After scanning, you can use the dropdown box to select an available wireless network. The related information (SSID, Wireless Mode, Channel, Authentication, Encryption) will be automatically filled in for you.
 - **SSID:** Enter the SSID of the wireless access point you wish to use.
- Wireless Mode: Use the dropdown box to select the mode of the wireless network you wish to connect to. Infrastructure is normally used to connect to an access point or router. Ad-Hoc is usually used to connect directly to another computer.
 - **Channel:** If you are using Ad Hoc mode, select the channel of the wireless network you wish to connect to, or select Auto.
- Authentication: Select the authentication you use on your wireless network Open, Shared, WPA-PSK, or WPA2-PSK.
 - Encryption: If you use WPA-PSK or WPA2-PSK authentication, you will need to specify whether your wireless network uses TKIP or AES encryption. If you use Open or Shared authentication, WEP encryption should be setting.



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

D I Stal	-					
DCS-2130	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Setup Wizard	WIRELESS SET	UP				Helpful Hints
Network Setup	In this section, yo	u can setup and con	figure the wireless set	tings on your camera.		You may choose which wireless network for the
Wireless Setup		Save Sett	ings Don't Save :	Settings		connection using the pull- down menu of Site
Image Setup						Survey or enter the SSID manually.
Audio and Video	WIRELESS CO	IFIGURATION				SSID (Service Set
Preset	Enable Wireless	✓	D List===	Rescan		your wireless network
Motion Detection	SSID	default				Conference, My network,
Time and Date	Wireless Mode	Infrastru	ucture 💌			Authentication
Event Setup	Channel	Auto 🗠				Open - This option makes
SD Card	Authentication	Open				the camera visible to all
Logout	Default Key	1				No encryption is
	Key 1	•••••		1		Changed Allows
	Key 2]		communication only with
	Key 3]		the identical WEP (Wired
	Key 4	•••••]		settings.
						WPA-PSK, WPA2-PSK - Both modes will require
		Save Sett	ings Don't Save :	Settings		you to input a pre-snared Key for the connection
						camera and the wireless device.

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

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 the user name or e-mail used to connect to your DDNS account.
 - Password: Enter the password used to connect to your DDNS server account.

Timeout: Enter the DNS Timeout values you wish to use.

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

D-Linl	ĸ						\prec
DCS-2130	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS		HELP
Setup Wizard	DYNAMIC DNS		•			He	lpful Hints
Network Setup Wireless Setup Dynamic DNS Image Setup Audio and Video Preset Motion Detection	The Dynamic DN: (www.yourdoma broadband Intern service, you can - address is. Sign up for D-Linl	Dyn you ser cha add will you cor add	namic DNS is useful if i have a DSL or Cable vice provider that inges your modem IP fress periodically. This allow you to assign a batte domain name to batte domain name to pic the domain name to nechng through an IP fress.				
Time and Date	DYNAMIC DNS	SETTING					
Event Setup	Enable DDNS	V					
SD Card	Server Address	www.dlinkde	ins.com	< www.dlinkddns.com			
Logout	Host Name User Name Password			www.dinkddns.com www.DynDNS.org	erver		
	Verify Password						
	Timeout	24	(hours)			
	Status	Active					
	L	Save Sett	ings Don't Save :	Settings			

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.

Anti Flicker: If the video flickers, try enabling this setting.

Mirror: This will mirror the image horizontally.

- Flip: This will flip the image vertically. When turning Flip on, you may want to consider turning Mirror on as well.
- **Power Line:** Select the frequency used by your power lines to avoid interference or distortion.
- White Balance: Use the dropdown box to change white balance settings to help balance colors for different environments. You can choose from Auto, Outdoor, Indoor, Fluorescent, and Push Hold.



- **Exposure Mode:** Changes the exposure mode. Use the dropdown box to set the camera for Indoor, Outdoor, or Night environments, or to Moving 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 to specify how much sharpening to apply to the image.
 - **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. After making any changes, click the **Save Settings** button to save your changes.

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 Frame size determines the total capture resolution, area: 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 1280 x 800, 1280 x 720, 800 x 450, 640 x 360, 480 x 270, 320 x 176, 176 x 144
- 4:3 1024 x 768, 800 x 600, 640 x 480, 480 x 360, 320 x 240, 176 x 144

Note: If your View window area is the same as your Frame size, you will not be able to use the ePTZ function.

Maximum frame rate: A higher frame rate provides smoother motion for videos, and requires more bandwidth. Lower frame rates will result in stuttering motion, and requires less bandwidth.



- Video Quality: This limits the maximum 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

This screen allows you to set preset points for the ePTZ function of the camera, which allows you to look around the camera's viewable area by using a zoomed view. Presets allow you to quickly go to and view a specific part of the area your camera is covering, and you can create preset sequences, which will automatically change the camera's view between the different presets according to a defined order and timing you can set.

Note: If your View window area is the same as your Frame size, you will not be able to use the ePTZ function. For more details, refer to "Audio and Video" on page 26.

Video Profile: This selects which video profile to use. For more information, refer to "Audio and Video" on page 26.

- **ePTZ Speed:** You may select a value between 0 and 64. 0 is the slowest and 64 is the fastest.
- Arrow Buttons and Home Use these buttons to move to a specific part of the Button: viewing area, which you can then set as a preset. Click the Home button to return to the center of the viewing area.
 - Input Preset Name: Enter the name of the preset you want to create, then click the Add button to make a new preset. If an existing preset has been selected from the Preset List, you can change its name by typing in a new name, then clicking the **Rename** button.
 - Preset List: Click this dropdown box to see a list of all the presets that have been created. You can select one, then click the **GoTo** button to change the displayed camera view to the preset. Clicking the **Remove** button will delete the currently selected preset.



Preset Sequence: This section allows you to create a preset sequence, which automatically moves the camera's view between a set of preset views.

To add a preset to the sequence, select it from the dropdown box at the bottom of this window, set the **Dwell time** to determine how long the camera view will stay at that preset, then click the **Add** button. The preset name will appear in the list, followed by the dwell time to view that preset for.

You can rearrange your presets in the sequence by selecting a preset in the sequence, then clicking the arrow buttons to move it higher or lower in the current sequence.

Clicking the trash can button will remove the currently selected preset from the sequence.

If you want to change the dwell time for a preset, select it from the list, enter a new dwell time, then click the **Update** button.

Preset Name : Dwe	time	
Front_Door:10 Work_Area:10	↑	
Window: 15 Front_Door: 10 Work_Area: 10	Ē	
	¥	
Dreach Link - Dreac		

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

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

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-2130 with an Internet time server. Choose the one that is closest to your location.

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

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

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DCS-2130	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
DCS-2190 Setup Ward Network Setup Wireless Setup Dynamic DN6 Image Setup Audio and Video Preset Motion Detection Time and Date Event Setup S0 Card Logout	LIVE VIDEO EVENT SETUP Add to pop a win delete the select window to edit. SERVER Hame Typ add w Dele EVENT Name Statu Add w Dele RECORDING Name Status	SETUP ctions in Event Satur dow to add a new to dow to add anew to to a ditem from event, . There can be at ms is configurations. Address/Loca te Source te Source te Sun Mon Tue	ADVAICED page. They are ever em of event, server, server, media over, sot 2 events and 1 rec ation	NATIFICENANCE	status ecording Cick k Delate to name to pop a at most 5	HELP Helpful Hints. Suggest asting arear in actions arear. The second for the sector second. The second second sector for event that we deter, freese mome the nodify them. Recommend ung different needs and different needs and and received over the and second second second smdAraceasity, the second second second togetaid event with out, the needs and second second togetaid event with out, the needs and second second togetaid event with out, the needs and second second second togetaid event with out, the needs and second second second togetaid event with out, the needs and second second second togetaid second second togetaid second second togetaid second second second togetaid sec

Application

In a typical application, when motion is detected, the DCS-2130 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

You can configure up to 5 servers to save snapshots and/or video to. After making any changes, click the **Save Settings** button to save your changes.

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-Lini	°					
CS-2130	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
etup Wizard	SERVER					Helpful Hints
letwork Setup	You can set at m	ost 5 different server	s here for different ev	rent.		"Server name" The
Vireless Setup		Test Saus S	attings Dec't Ca	us Sattings		There are four kinds of
ynamic DNS		Test Jave 3	etangs Don t Sa	ve seturigs		are email server, FTP
mage Setup	SERVER TYPE					network storage.
Audio and Video	Server Name:					Email server:
reset	Email					"Sender email address" The email
Aotion Detection	Send	er email address				address of the sender. "Recipient email
ime and Date	Recip	ient email address			- 1	address" The email address of the recipient.
event Setup	Serve	er address			- 1	FTP server:
ocout	User	name				"Remote folder name" Granted folder
	Passy	vord				on the external FTP server. The string must
	Port		25			conform to that of the external FTP server.
		This conver requires a	socura connection (St			Some FTP servers cannot accept preceding slash
	0.00	This server requires a	secure connection (3)	(arc r L3)		symbol before the path without virtual path
	Serve	ar address			_	mapping. Refer to the instructions for the
	Port		21			external FTP server for details. The folder
	Porc		21			privilege must be open
	Oser	name				"Passive Mode" Check
	PidSSV	voru			_	in transmission.
	Remo	ote rolder name				Network storage: Only
		assive mode				supported.
	 Network sto 	rage			_	location" The path to
	Netw	rork storage location	h) falder)			upload the media. "Workgroup" The
	Work	aroup	k(rolder)			workgroup for network storage.
	licor	name				SD card:
	Daces	word				Use the SD card for recording media.
	Prima	ny M/INE conver				
		ny wana server	L			
	SD Card					

Add Media

There are three types of media, **Snapshot**, **Video Clip**, and **System Log**. After making any changes, click the **Save Settings** button to save your changes.

Media Name: Enter an unique name for media type you want to create.

- **Snapshot:** Select this option to set the media type to snapshots.
 - Source: Set the video profile to use as the media source. Refer to "Audio and Video" on page 26 for more information on video profiles.

Send pre-event image(s) [0~4]: Set the number of pre-event images to take. Preevent images are images taken before the main event snapshot is taken.

Send post-event image(s) Set the number of post-event images to take. Post-[0~7]: event images are images taken after the main event snapshot is taken. You can set up to 7 post-event images to be taken.

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

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



Configuration

Video clip: Select this option to set the media type to video clips.

- Source: Set the video profile to use as the media source. Refer to "Audio and Video" on page 26 for more information on video profiles.
- **Pre-event recording:** This sets how many seconds to record before the main event video clip starts. You can record up to 4 seconds of pre-event video.
 - Maximum duration: Set the maximum length of video to record for your video clips.
 - Maximum file size: Set the maximum file size to record for your video clips.
 - File name prefix: This is the prefix that will be added to the filename of saved video clips.
 - System log: Select this option to set the media type to system logs. This will save the event to the camera system log, but will not record any snapshots or video.



Add Event

Create and schedule up to 3 events with their own settings here. After making any changes, click the **Save Settings** button to save your changes.

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.



Configuration

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.



Add Recording

Here you can configure and schedule the recording settings. After making any changes, click the **Save Settings** button to save your changes.

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).



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 variety 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. After making any changes, click the **Save Settings** button to save your changes.

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.



HTTPS

This page allows you to install and activate an HTTPS certificate for secure access to your camera. After making any changes, click the **Save Settings** button to save your changes.

Enable HTTPS Secure Enable the HTTPS service. Connection:

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**.



Access List

Here you can set access permissions for users to view your DCS-2130.

- 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 rights 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 192.255.255.255.255 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 a unique name and configure the OSD settings 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.

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CS-2130	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
kdmin system irmware Upgrade ogout	ADMIN Here you can change the administrator's password for your IP camera as well as add and/or delete user acount(s). You can configure the information, such as IP camera's name and time va this page. You can also enable the OSO (On-Screen Display) feature in order to display the IP camera name and time stamp for your video recordings. ADMINE PASSWORD SETTING New Password G3 characters maximum Retries Bareagerd Same					Helpful Hints Enabling CSD, the IP camero name and time will be dipalayed on the video screen for the user. For security purposes, it is recommended that voo change the password for your administrator account. Be sure to write down the new password to avoid having to reset
	event that it ADD USER ACCOUNT User Name 20 users maximum New Password 63 characters maximum Retype Password Add					event that it is forgotten.
	USER LIST User Name DEVICE SETTIN	User list 👔	V Delete			
	IP camera Name ✓ Enable OSD Label Show t	DCS-2130 DCS-2130 ime V Save	63 cł	naracters maximum naracters maximum		

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.

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DCS-2130	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Admin	SYSTEM					Helpful Hints
System	Here you may ba	ckup restore and re	hoot your IP camera			After the factory's
Firmware Upgrade	Here you may bu	chap, rescore, and re	boot your a camera.			been restored, use the
Logout	SYSTEM					installation wizard software provided with
	Save To Local H	ard Drive	Save Configuration			your IP camera to search and connect to the IP camera.
	Load From Local	Hard Drive		Browse		
			Load Configuration			
	Restore To Fact	ory Defaults	Restore Factory De	efaults		
	Reboot Device		Reboot Device			

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-2130, 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.



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.

D-Linl	ĸ					\prec			
DCS-2130	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP			
Device Info Log Logout	SYSTEM LOG The system log re	ecords IP camera eve	ents that have occurre	d.		Helpful Hints You can save the log to your local hard IP camera by clicking the Download			
	CURRENT LOG 1. 2011-01-07 16 2. 2011-01-07 16 3. 2011-01-07 16 4. 2011-01-07 16 5. 2011-01-01 00 6. 2011-01-01 00 7. 2011-01-01 00 8. 2011-01-01 00 10. 2011-01-01 00 11. 2011-01-01 0 11. 2011-01-01 0 12. 2011-01-01 0 13. 2011-05-17 1 14. 2011-05-17 1 15. 2011-05-17 1 16. 2011-05-11 1 18. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 19. 2011-05-11 1 10. 2011-0	5:29:50 admin LOGIN 5:27:53 IP CAMERA A 5:27:47 SYSTEM SET 5:27:42 SYSTEM BOO 1:27:49 NETWORK LI 1:03:25 admin FROM 1:03:25 admin FROM 1:03:25 admin FROM 1:03:25 admin LOGIN 1:01:53 admin LOGIN 1:01:53 admin LOGIN 1:01:00 SYSTEM SE 1:01:00 SYSTEM SE 1:140:15 IP CAMERA 1:140:00 SYSTEM SE 1:140:15 IP CAMERA 1:140:03 SYSTEM SE 1:140:15 SYSTEM SE 1:1	I OK FROM 172.17.5.1 ACQUIRE DHCP IP 172. DCPOWER ON DTING OST 172.17.5.150 SET VII 172.17.5.150 SET VII 172.17.5.150 SET PR I OK FROM 172.17.5.1 ACQUIRE DHCP IP 172 T DCPOWER ON DOTING N OK FROM 172.17.5. ACQUIRE DHCP IP 172 T DCPOWER ON DOTING N OK FROM 10.1.1.3 ACQUIRE DHCP IP 10. T DCPOWER ON DOTING N OK FROM 10.1.1.3 ACQUIRE DHCP IP 10. T DCPOWER ON DOTING	23 17.5.116 DEO CODEC Need Rese DFILE1 Constant Bit Ra DFILE1 Frame Size 640 50 2.17.5.158 130 2.17.5.141	it ite x360 Need	Ductor, and you can clear the log by cicking on the Clear button.			

Help

This page provides helpful information regarding camera operation.



DI/DO Input Specifications



PIN	FUNCTION	NOTE
1	Digital Out (DO)	Uses an open-drain NFET transistor with the source connected to GND in camera. If used with an external relay, a diode must be connected in parallel with the load for protection against voltage transients. Max loading is 100 mA.
2	Digital In (DI)	A switch from DI to DC 5 V, activated by setting NO. or NC.
3	DC5V OUTPUT	DC 5 V Output / Max. 100 mA
4	GND	GND

Internal 5V Power





External 3~12V Power

Technical Specifications

Camera	Camera Hardware Profile	 1/4" 1 Megapixel progressive CMOS sensor Minimum illumination 1.0 lux 10x digital zoom Fixed length 3.45 mm 	 Aperture F2.0 Angle of view: (H) 57.8° (V) 37.8° (D) 66° 		
	Image Features	 Configurable image size, quality, frame rate, and bit rate Time stamp and text overlays Configurable motion detection windows 	 3 configurable privacy mask zones Configurable shutter speed, brightness, saturation, contrast, and sharpness 		
	Video Compression	 Simultaneous H.264/MPEG-4/MJPEG format compression JPEG for still image H.264/MPEG-4 multicast streaming 	 H.264/MPEG-4 multicast streaming 		
	Video Resolution	16:9 - 1280 x 800, 1280 x 720, 800 x 450, 640 x 360, 480 x 270, 320 x 176, 176 x 144 at frame rates up to 30 fps 4:3 - 1024 x 768, 800 x 600, 640 x 480, 480 x 360, 320 x 240, 176 x 144 at frame rates up to 30 fps			
	Audio Support	G.726			
	External Device Interface	1 DI / 1 DOMicro SD card slot	 Built-in microphone 3.5mm audio output jack 		
Network	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	 Administrator and user group protection Password authentication 	 HTTP and RTSP digest encryption 		

Technical Specifications

System Management	System Requirements for Web Interface	 Operating System: Microsoft Windows 7/Vista/XP/2000 Browser: Internet Explorer, Firefox, Netscape, Opera 					
	Event Management	 Motion detection Event notification and upload snapshots/video clips via HTTP, SMTP, or FTP 	 Supports multiple HTTP, SMTP, and FTP servers Multiple event notifications Multiple recording methods for easy backup 				
	Remote Management	 Configuration accessible via web browser Take snapshots/video clips and save to local hard drive or NAS via 	Configuration accessible via web browser Take snapshots/video clips and save to local hard drive or NAS via web browser				
	Mobile Support	Windows 7/Vista/XP system, Pocket PC, or mobile phone with 3GP	Windows 7/Vista/XP system, Pocket PC, or mobile phone with 3GPP playback support				
	D-ViewCam™ System Requirements	 Operating System: Microsoft Windows 7/Vista/XP Web Browser: Internet Explorer 6 or higher 	Protocol: Standard TCP/IP				
	D-ViewCam™ Software Functions	 Remote management/control of up to 32 cameras Viewing of up to 32 cameras on one screen 	 Supports all management functions provided in web interface Scheduled motion triggered, or manual recording options 				
General	Power Input	5 V DC 1.2 A, 50/60 Hz					
	Max. Power Consumption	DCS-2103: 2 watts DCS-2130: 2.5 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	DCS-2103: 68 g DCS-2130: 69 g					
	Certifications	CE, CE LVD, FCC (Class B), C-Tick					

* 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

Appendix

