D-Link®

SECURICAM

——— DCS-5300G

Pan/Tilt High-Speed Wireless Internet Camera
With High-Quality CCD Sensor, Digital Zoom & 802.11g WLAN

The DCS-5300G Internet Camera is an advanced security system that allows you to watch and listen remotely. This full-featured camera connects to an Ethernet network in a building or campus, to broadband Internet as well as to a wireless local area network (WLAN). It provides you with high-quality video and audio. Equipped with built-in Web server, a micro-phone for listening, and a motor for rotation, this camera can be panned and tilted remotely, accessed and controlled from any PC/notebook over a local network or through the Internet. With motion detected image recording, time-saving trigger event playback, alert message and powerful software for multi-camera monitoring and management, this camera provides a comprehensive system for convenient surveillance from both a local site or remotely from anywhere in the world.

Stand-alone System With Integrated Web Server
This Internet Camera comes with a built-in CPU and Web server, providing a low-cost solution for security needs. Its integrated Web server eliminates the need to connect the camera to a computer. Once installed, you use the built-in IP address to gain access to the camera, view live streaming video, and make changes to camera settings.

Web-based Remote Access
You can install your camera at home then view the images from anywhere in the world on a computer running Internet Explorer. Directly connected to the Internet without going through any computer, this camera is simple to install and easily integrates with your network environment.

Automatic Camera Movement to View Different Angles
The camera is mounted on a motor for rotation to capture images from different angles. From a remote site, you can manually rotate the camera's horizontal and vertical movements. The camera movement angles can also be set up for automatic panning and tilting in rotation according a pre-set timing.

Multi-Camera Monitoring
Surveillance software is included to let you view up to 16 cameras on a single computer screen at one central location. Images can be recorded to your computer's hard drive manually or according to a pre-set schedule. The camera can be connected to external alarms and sensors, and you can set up automated email alerts for sending through the Internet to alarm you instantly of all unusual happenings.

Motion Detected Recording
Instead of recording 24 hours a day, 7 days a week, images can also be recorded only when motions are detected. This saves disk space and eliminates the time wasted to view unnecessary images. Images can be directly archived straight to your computer hard drive or to a Network Attached Storage. Playback consumes little time with triggered event browsing and fast database searching.

High-Quality Video & Sound
This camera uses MPEG-4 Short Header Mode to stream live video at up to 30 frames per second for real-time viewing. A CCD sensor provides sharp video images with lifelike color representation. The camera also features 4x digital zoom for close-up viewing using the Web interface. Plus, with low light sensitivity, it has the capability to monitor and record video in rooms with minimal lighting, making it ideal to use at night.

A built-in microphone allows you to listen while watching live images. The camera can also be attached to an external, more powerful microphone and a TV in a private room, where you can monitor streaming images and listen to surveillance sound.

Wireless and Ethernet Connection
For effective surveillance in and around a building, this camera comes with a built-in high-speed 802.11g wireless network interface, allowing images to be transmitted at up to 54Mbps wireless speed. In addition, a 10/100BASE-TX Ethernet port is also provided for convenient connection to an Ethernet network or to a broadband Internet via a home gateway router.

Key Features

- Stand-alone Internet camera with CPU & RAM, no need to attach to PC
- Built-in rotation motor for manual or auto camera pan/tilt with wide movement angle support
- 4x digital zoom for close-up viewing
- Sound surveillance through built-in microphone or powerful external microphone connected to MIC jack
- Simple to use with real-time monitoring in Windows environment
- Local access through high-speed 802.11g wireless LAN and Ethernet
- Remote access from web browser
- Supports DDNS and UPnP for easy configuration in a network environment

- Surveillance software to control up to 16 cameras
- Motion detection triggered recording or scheduled recording to administrator's hard disk or Network Attached Storage (and VCR) for each camera
- Smart playback with trigged event browsing, fast database searching
- Auto alarm in different ways
- AV cable connection local TV for video/audio monitoring
- MPEG4 short header mode high compression ratio
- Connects to external devices for alarm-based event recording when trigger is activated
- Implemented for intruder detection with still image capture & e-mail notice
- Powerful software for image capture & video recording
- Web-based configuration, remote utility provided

DCS-5300G
Technical Specifications

Hardware
- Sensor: 1/4-inch color CCD sensor, interlace scan mode,
  supports 380 TV lines video output, up to 30 frames per second
- Pan range +/- 135 degrees
- Tilt range +90 to -45 degrees
- Automatic Gain control (AGC) 24dBi
- Automatic Exposure (AE)
- Automatic White Balance
- Electronics shutter 1/60 to 1/15000 second
- Minimum illumination 2.5lux @ f1.4
- Lens mounting: standard CS mount type lens, 6.0mm, f1.8

Image
- 24-bit RGB, 4CIF/SIF, supports up to 704 x 480 (NTSC)/
  704 x 576 (PAL) resolution
- MPEG4 short header mode compression
- Compression ratio: 5 levels
- Adjustable image size, quality and bit-rate
- Time stamp and text overlay

Audio
24kbps

Video Sizes
QSIF/QCIF (30 fps), SIF/CIF (30 fps), 4SIF/4CIF (10 fps) (user-selectable)

Digial Zoom *
Up to 4x magnification

* 4x digital zoom enlarges an image by magnifying the pixels in a selected portion of the image by 4 times.

Communication
- 1 RJ-45 auto-sensing 10/100BASE-TX port to connect to
  10/100Mbps Ethernet
- Supported communication protocols: HTTP, FTP, TCP/IP, UDP, SMTP,
  DHCP, Telnet, NTP, DDNS, UPnP and DNS

Viewing System Requirement
Internet Explorer 5.x or above

Security
- Administrator and user group protected
- 15 digits password authentication

LED Indicators
- System power and status indicators
- Network link and speed indicators

Alarms and I/O
- Motion detection (activity detection)
- Periodical image transfers though e-mail and upload to a server,
  using FTP
- 1 sensor input (12Vdc to 48Vdc/50mA)
- 1 relay output (Max. 24Vdc/1A, 125Vac/0.5A)

Management and Software Update
- Configuration and system log can be accessed via Web browser and
  FTP application remotely
- Allows new firmware version updates via TCP/IP network

Channel Display (6 layouts)
Maximum 16 views

Recording Modes
- Manual Control
- Event-driven
- Scheduled recording

Playback Schemes
Date, Time interval, and event triggering with preview for every camera

Playback Control Modes
Play, Stop, Pause, Fast Forward, Slow Forward, Pull-bar, Zoom in,
Zoom out

Built-in Wireless LAN
Wireless LAN Standards
- 802.11g
- 802.11b

Data Rates
- 802.11g: up to 54Mbps (6/9/12/18/24/36/48/54Mbps)
- 802.11b: up to 11Mbps (1/2/5.5/11Mbps)

Transmission Technology
DSSS

RF Frequency Range
2.4 to 2.4835GHz

Operating Channels
- 1 to 11 channels (FCC)
- 1 to 13 channels (ETSI)

Data Modulation Type
DBPSK, DQPSK, CCK, OFDM

Antenna
2dBi Gain external dipole antenna

Transmit Output Power
16dBm (typical)

Receive Sensitivity (for 802.11b)
(typically @PER < 8% packet size 1024 @ 25° C +/- 5 $^\circ$C)
- 11Mbps (CCK): -82 dBm
- 5.5Mbps (CCK): -86 dBm
- 2Mbps (QPSK): -90 dBm
- 1Mbps (BPSK): -90 dBm

Receive Sensitivity (for 802.11g)
(typically @PER < 8% packet size 1024 @ 25° C +/- 5 $^\circ$C)
- 54Mbps (OFDM): -66 dBm
- 48Mbps (OFDM): -64 dBm
- 36Mbps (OFDM): -70 dBm
- 24Mbps (OFDM): -72 dBm
- 18Mbps (OFDM): -80 dBm
- 12Mbps (OFDM): -84 dBm
- 9Mbps (OFDM): -86 dBm
- 6Mbps (OFDM): -88 dBm

Operating Range *
- Indoors: 100 meters
- Outdoors: 400 meters

* Environmental factors may adversely affect range.

Security
WEP 64/128-bit data encryption (user-selectable)

Physical & Environmental
Power
- Through switching external power adapter (AC input range 100 to 240 V,
  50/60Hz)
- DC Output: 12VDC, 1.5A

Dimensions
110.5mm (H) x 103.5mm (W) x 134mm(D) (camera only, mounted motor
included)

Weight
393 grams (camera only, mounted motor included)

Operation Temperature
5° to 55° C

Storage Temperature
-10° to 60° C

Humidity
20% to 90% non-condensing

Emission (EMI)
- FCC Class B
- CE Class B

Safety
LVD (EN60950)

Internet Camera

Box Includes

- DCS-5300G Internet Camera
- Remote control
- A/V cable
- Cat. 5 Ethernet cable
- Manual & Software on CD-ROM
- Stand & Mounting Brackets
- AC power adapter
- Quick Installation Guide

Ordering Information

DCS-5300G	Pan/Tilt Internet Camera with 10/100BASE-TX Ethernet and 802.11g wireless LAN interface

Please specify your order as follows

BDCS-5300G	For USA (USA packaging)
DCS-5300G/A	NTSC TV format support, US standard power adapter
DCS-5300G/B	NTSC TV format support, UK standard power adapter
DCS-5300G/E	NTSC TV format support, EU standard power adapter
DCS-5300G/N	NTSC TV format support, China & Australia standard power adapter
DCS-5300G/A (PAL)	PAL TV format support, US standard power adapter
DCS-5300G/B (PAL)	PAL TV format support, UK standard power adapter
DCS-5300G/E (PAL)	PAL TV format support, EU standard power adapter
DCS-5300G/N (PAL)	PAL TV format support, China & Australia standard power adapter

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