**D-Link Corporation**

**External Spec**

**H.264 Full HD Fixed Dome Network Camera**

**DCS-6112 ver. A1**

***Version 1.01***

Date: 2011/4/28

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| --- | --- | --- |
| Approved | Checked | PP |
|  |  | Carrie Lee |

Revision History

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| --- | --- | --- | --- |
| Version | **Revised Date** | Person Name | Content Revised |
| **1.00** | **2011/1/20** | **Carrie Lee** | **First edition** |
| **1.01** | **2011/4/28** | **Carrie Lee** | 1. **Dimension** 2. **Card slot** |
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1. Introduction

DCS-6112 is a full HD network camera for professional surveillance and security. This camera adopts 2 mega-pixel progressive scan CMOS sensor; the video stream covers a larger scene and better quality than an analog CCTV camera. This is a very important consideration in video surveillance applications, where a high resolution image can enable a criminal to be identified.

Using an ARM SoC provides excellent real-time video quality. Multiple video streams with different configurations can be activated simultaneously to address the different requirements for live viewing and recording. Multicast video/audio stream helps to reduce the network transmission load. When multicast-enabled router is used, the network camera can serve multiple clients at the same time.

The DCS-6112 includes digital input and output ports for connectivity to external devices such as IR sensors, switches, and alarm relays. It also incorporates Power over Ethernet (PoE), allowing it to be easily installed in a variety of locations without the need for supplemental power cabling.

The included D-Link D-ViewCam™ is sophisticated software which allows users to manage up to 32 network cameras, set e-mail alert notifications, create recording schedules, and use motion detection to record directly to a hard drive. D-ViewCam™ also allows users to upload a floor plan to create a realistic layout of the premises where cameras are located, further simplifying the management process.

1. Product Features
   1. Key Features:

* 1/2.7” two(2) megapixel CMOS sensor
* Real-time H.264/ MPEG-4/ MJPEG
* Max. resolution 1920x1080 at 15 fps
* Four (4) simultaneous streams
* Video cropping for bandwidth efficiency
* ePTZ for virtual PTZ operation
* Built-in 4.3mm, F2.0 fixed lens (\*TBC)
* 2-way audio support (half-duplex)
* MicroSD card slot for camera side storage
* Tamper detection
* Motion detection
* Privacy mask
* Advanced event management
* Advanced web user interface
* HTML code example of streaming
* IPv6, 802.1x, QoS, CoS, SNMPv1, v2 and SNMPv3
* Multicast video/audio stream
* HTTPS secured streaming
* 3GPP mobile surveillance
* Samba client for NAS
* Multiple access lists
* Windows Vista LLTD
* TV output support
* DI/DO support for external device
* Power over Ethernet (PoE)
* Unified D-Link SDK
* ONVIF compliant

\*TBC: To Be Confirmed.

2.2 H/W Features

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| **Key Components / Performance** | |
| Sensor | 1/2.7” Progressive Scan CMOS Sensor |
| SDRAM | 256 MBytes, DDRII |
| Flash Memory | 128 Mbytes |
| Lens | Board lens, f= 4.3mm, F2.0 (TBC) |
| WDR | No |
| Minimum Illumination | TBC |
| **Port Functions** | |
| LAN | 10/100 BaseT ports x1  Compliant to following standards:  IEEE 802.3 compliance  IEEE 802.3u compliance  Support Full-Duplex operations  802.3x Flow Control support for Full-Duplex mode  Support IEEE 802.3af standard (PoE) |
| PoE | Yes |
| Microphone | No |
| External Microphone Input | Yes, 2 |
| Audio Output (External Speaker) | Yes, 2 |
| Microphone Switch | No |
| I/O Connector | Yes, 2 pins for DI, 2 pins for DO |
| Card Slot | MicroSD card |
| RS485 | No |
| Reset Button | Reset to factory default (press 10 seconds) |
| Power Button (EuP) | No |
| Power Consumption | Max. 4W (TBC) |
| Power Supplier | PoE,  DC adaptor (input: 100~240AC, 50/60Hz, Output: 12VDC, 1.25A) |
| Dimension | 130 mm x 98 mm (TBC) |

\*TBC: To Be Confirmed.

2.3 Software Features

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| **Feature Item** | **Feature** | **Detailed Description** |
| Networking | Protocol | * IPv6 * IPv4, ARP, TCP, UDP, ICMP * DHCP Client * NTP Client (D-Link) * DNS Client * DDNS Client (D-Link) * SMTP Client (SSMTP support) * FTP Client * HTTP Server * Samba Client * PPPoE * UPnP Port Forwarding * RTP/RTSP/RTCP * IP filtering * 3GPP * LLTD * Multicast * 802.1x * SNMP v1, v2c, v3 * CoS * QoS/DSCP * HTTPS |
| Ethernet | 10/100BaseT Fast Ethernet auto negotiation |
| Video | Algorithm supported | H.264/MPEG4/MJPEG triple format compression simultaneously  JPEG for still image  H.264/MPEG-4 streaming over UDP, TCP, HTTP or HTTPs  H.264/MPEG-4 multicast streaming  MJPEG streaming over HTTP or HTTPs |
| Features | Adjustable image size and quality  Time stamp and text overlay  Three configurable motion detection windows  Two motion detection profiles  Flip & mirror  Video cropping |
| Resolution | Resolution:  Up to 15 frames at 1920x1080 (16:9)  Up to 20 frames at 1280x1024 (4:3)  Up to 30 frames at 1280x720 (16:9)  Up to 30 frames at 640x480  Up to 30 frames at 320x240  U p to 30 frames at 176x144 |
| AGC | Yes (on/off, adjustable) |
| AWB | Yes (on/off, adjustable) |
| AES | Yes (on/off, adjustable) Two profiles |
| BLC | Yes (on/off, adjustable) |
| Electronic shutter | 1/5~ 1/10,000 sec. |
| Privacy mask | Multiple mask for privacy zones (Max. 3) |
| Motion detect | Multiple user defined zooms for motion detection (Max. 3) |
| Tamper detect | Detect camera redirected, defocused, blocked or spray-printed |
| ePTZ | Virtual PTZ function |
| Cropping | Yes |
| Digital zoom | 16X |
| SDK | NIPCA | D-Link unify SDK |
| ONVIF | Worldwide standard |

2.4 OS Support

2.4.1 Device

* Windows 2000 / Windows XP/ Windows Vista (32/64b it) / Windows 7 (32/64b it)
* 3GPP Mobile Phone

2.4.2 D-ViewCam (bundle software)

* Windows 2000 / Windows XP/ Windows Vista (32 b it) / Windows 7 (32 b it)

2.5 SYSTEM REQUIREMENTS

* Operating System: Microsoft Windows 2000, XP, Vista, 7
* Browser: Internet Explorer 6 or above, Chrome, Firefox and Safari

2.6 3GPP MOBILE SURVEILLANCE

* Handsets with 3GPP player with following software support:
  + Packet Video Player 3.0 or above
  + QuickTime 6.5 or above
  + Real Player 10.5 or above

1. Physical & Environment
   1. Power

* 12V DC (with External power adaptor Input: 100 - 240VAC, 50/60Hz; output: 12VDC, 1.25A)
* Power over Ethernet (PoE)
  1. Operation Temperature
* 0 ~ 40℃ (32 to 104 ℉)
  1. Storage Temperature
* -20 ~ 70℃ (-4 to 158 ℉)
  1. Humidity
* 90% RH non-condensing

1. Emission (EMI), Safety & Other Certifications:

* CE (class A)
* CE LVD(EN60965-1)
* FCC (class A)
* ICES-003
* C-Tick

1. Box Included

* Network Camera x 1
* CAT5 Ethernet cable x 1
* DC power and TV output cable x 1
* Quick Installation Guide x 1
* Master CD x 1
* D-ViewCam CD x 1
* GPL statement