D-Link®

Express EtherNetwork™

DCS-2100+

DCS-2000

Internet Camera Series
- *DCS-2000 Internet Camera*
- *DCS-2100+ Wireless Internet Camera*

Internet Camera With Integrated Web Server & Motion Detection

The D-Link Internet Camera is a security system that allows you to watch and listen remotely. This full-featured camera connects to an Ethernet or wireless network in a building or campus, and to broadband Internet to provide you with high-quality video and audio. Equipped with built-in Web server, micro-phone for listening, 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 conveninet surveillance from both a local site or remotely from anywhere in the world.

Stand-alone System With Integrated Web Server

The DCS-2000 Internet Camera comes with a built-in CPU and Web server, providing a low-cost solution capable of solving demanding security and home/office monitoring 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. This makes this camera an ideal solution for remote surveillance away from home or office.

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

The camera uses MPEG-4 Short Header Mode to stream live video at up to 30 frames per second for real-time viewing. A built-in high-quality microphone allows you to listen while watching live images.

With or Without Wireless LAN

Two models are available: a standard camera, and a wireless camera equipped with 802.11b+ enhanced 22Mbps wireless speed. Both models come with a 10/100Mbps Fast Ethernet port for connection to broadband Internet (via a home gateway router) or to a wired network in a building.

Features

- *Stand-alone Internet camera with CPU & RAM, no need to attach to PC*
- *Simple to use with real-time monitoring*
- *Local access through Ethernet or wireless LAN*
- *Remote access from web browser*
- *Operates in Windows environments*
- *Surveillance software to control up to 16 cameras*
- *Motion detection triggered recording or scheduled recording*

- *Smart playback*
- *High compression ratio recording*
- *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*

Camera Specifications
- 1/3 inch color CMOS sensor, interlace scan mode
- 24-bit RGB, 640 x 480 resolution
- Operating System: pSOS+ (real-time O.S.)
- Automatic Gain Control (AGC): 24dB
- Automatic Exposure (AE)
- Automatic White Balance (AWB)
- Electronics shutter: 1/60 ~ 1/15000 second
- Minimum illumination: 2.5lux @ f1.4
- Lens mounting: standard CS mount type lens, 6.0mm, f1.8

Image (Video Setting)
- H.263+ (MPEG4 short header mode) data compression
- Compression ratio: 5 levels
- 3 adjustable image sizes and quality intelligent motion detection windows with flexible bit rate
- Time stamp and text overlay

Audio
24Kbps

Video Resolution
- Up to 30 fps at 160 x 120
- Up to 30 fps at 320 x 240

General I/O
- 1 opto-isolated sensor input (max. 12VDC 50mA)
- 1 relay output (max. 24VDC 1A, 125VAC 0.5A)

Alarms
- Motion detection (activity detection)
- Periodical image transfers though e-mail and upload to a server using FTP

Port
10/100Mbps 10BASE-T/100BASE-TX Fast Ethernet

LED Indicators (bi-color status)
- System power and status indicators
- Network link and speed indicators

Networking Protocols
TCP/IP, HTTP, SMTP, FTP, Telnet, NTP, DNS, DHCP

Security
- Administrator and user group protected
- Password authentication

Management
Configuration and system log via Web browser and FTP application remotely

Software Update
Via TCP/IP network

Viewing System Requirement
- Protocol: standard Internet TCP/IP suite
- Operating system: Microsoft Windows XP, 2000, ME or 98SE
- Browser: Internet Explorer 5.x or above

Wireless LAN (model DCS-2100+ only)
Standard
802.11b+

Reception Sensitivity Nominal Temp Range
- 22Mbps: 10-5 BER @ -80 dBm minimum
- 11Mbps: 10-5 BER @ -79 dBm minimum
- 5.5Mbps: 10-5 BER @ -83 dBm minimum
- 1Mbps: 10-5 BER @ -89 dBm minimum

Frequency Range
2.4 - 2.4835 GHz

Modulation Techniques
- Direct Sequence Spread Spectrum (DSSS)
- Packet Binary Convolutional Coding (PBCC)

Data Rates
- 22 Mbps
- 11 Mbps
- 5.5 Mbps
- 2 Mbps
- 1 Mbps
- Auto fall-back

Data Rate & Modulation
- 22Mbps: PBCC
- 11Mbps: PBCC or CCK
- 5.5Mbps/1.5db: PBCC or CCK
- 2Mbps/3db: Barker

Operating Channels
- North America (FCC): 11
- Canada (DOC): 11
- Europe (ETSI): 13
- Japan (MKK): 14

Antennas
2 detachable 2dBi Gain antennas (reverse SMA connectors)

Transmitter Output Power
13dBm ±2dB

Operating Range
- Up to 80 m indoors
- Up to 250 m outdoors

Data Encryption
64-bit, 128-bit, 256-bit WEP (Wired Equivalent Privacy)

Physical & Environmental
AC Power Input
Through 100 - 240 VAC, 50/60Hz external power supply unit

DC Power Input
12VDC 1.5A

Weight
Approx. 240 grams

Dimensions
135 (L) x 89 (W) x 57 (H) mm

Operating Temperature
5℃ ~ 50℃

Storage Temperature
-10℃ ~ 60℃

Humidity
20% ~ 90% non-condensing

Emission & Saftey
- FCC Class B
- CE Class B
- LVD (En60950)

ACN 052 202 838

Ordering Information

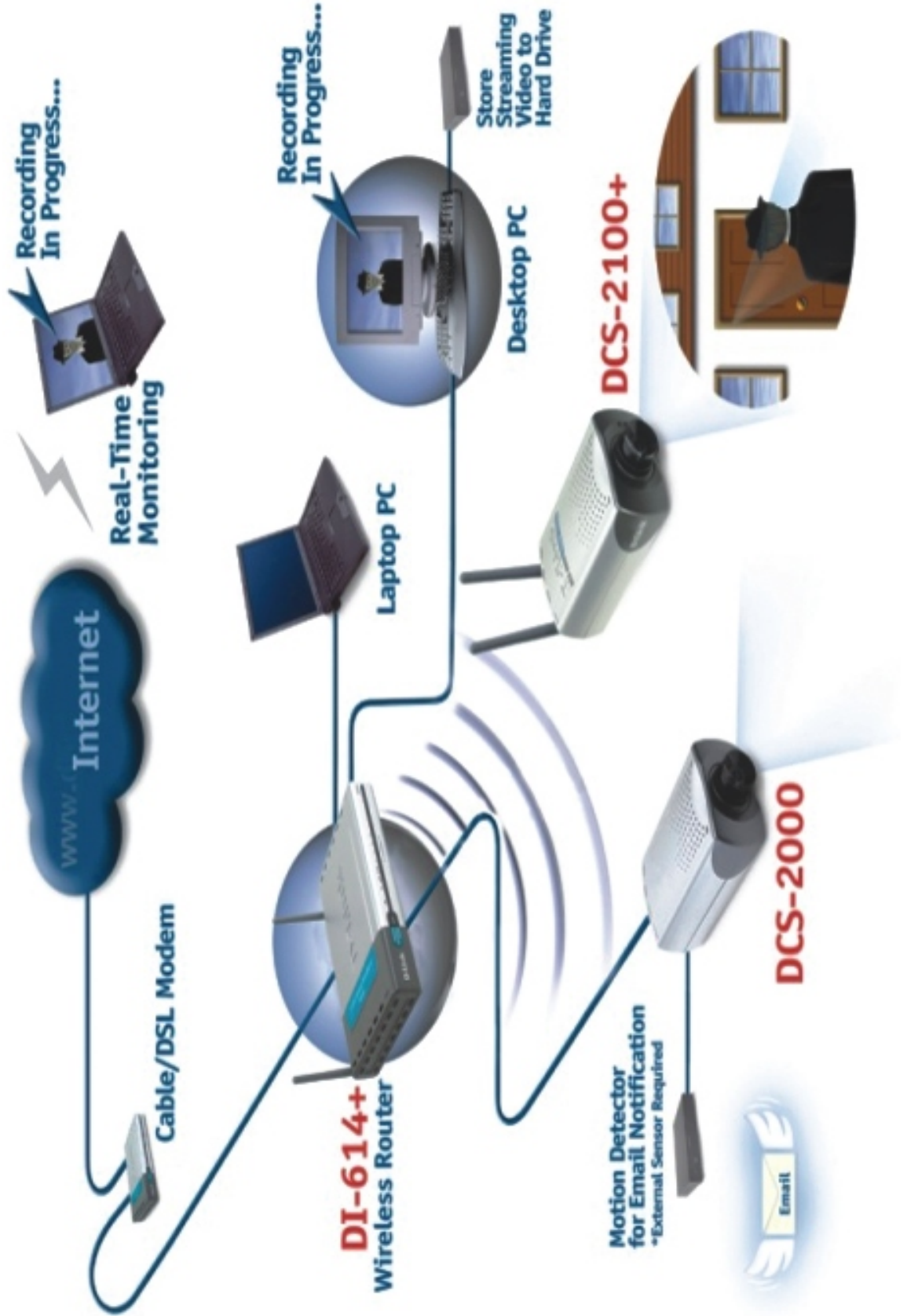| Internet Camera	
DCS-2000	With 10/100Mbps Fast Ethernet Port
DCS-2100+	With 10/100Mbps Fast Ethernet Port & 802.11b+ Wireless LAN

D-Link®

DCS-2000/2100+

Applications

Typical Installation DCS-2000/DCS-2100+

Recording In Progress...

Real-Time Monitoring

Recording In Progress...

Store Streaming Video to Hard Drive

Desktop PC

DCS-2100+

Internet

Laptop PC

Cable/DSL Modem

DI-614+
Wireless Router

DCS-2000

Motion Detector for Email Notification
*External Sensor Required

Email

View Everywhere via Internet

61.219.201.69
Resort

192.19.3.55
Construction Site

200.25.10.95
Traffic monitering

185.57.23.79
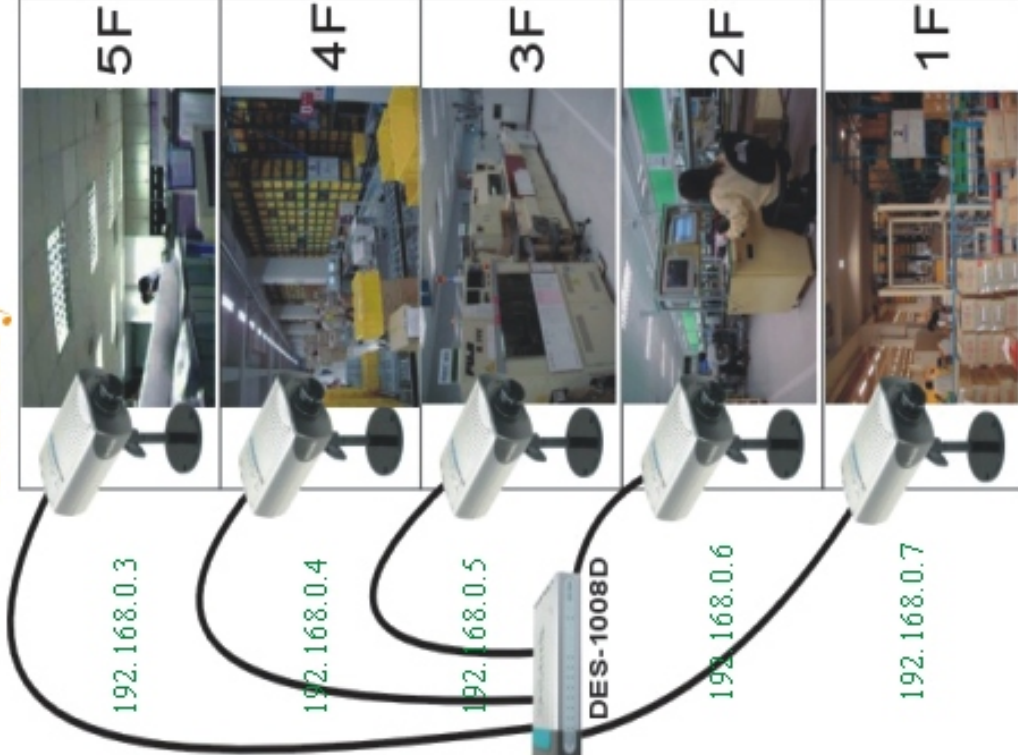Kindergarten
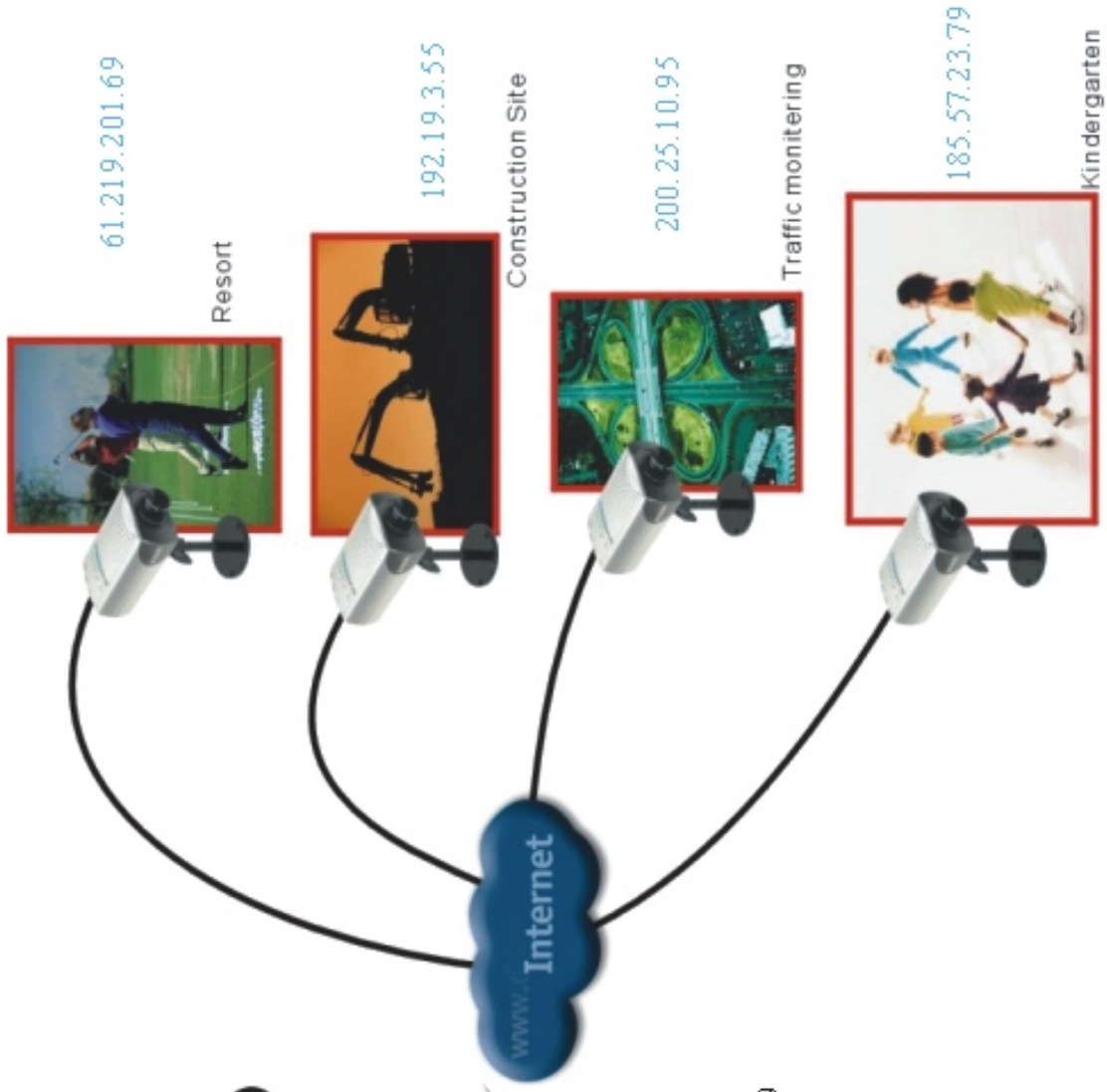
Internet

Real-line View (Internet)

(1) HTTP request to 61.219.201.69

(2) HTTP request to 192.19.3.55

(3) HTTP request to 200.25.10.95

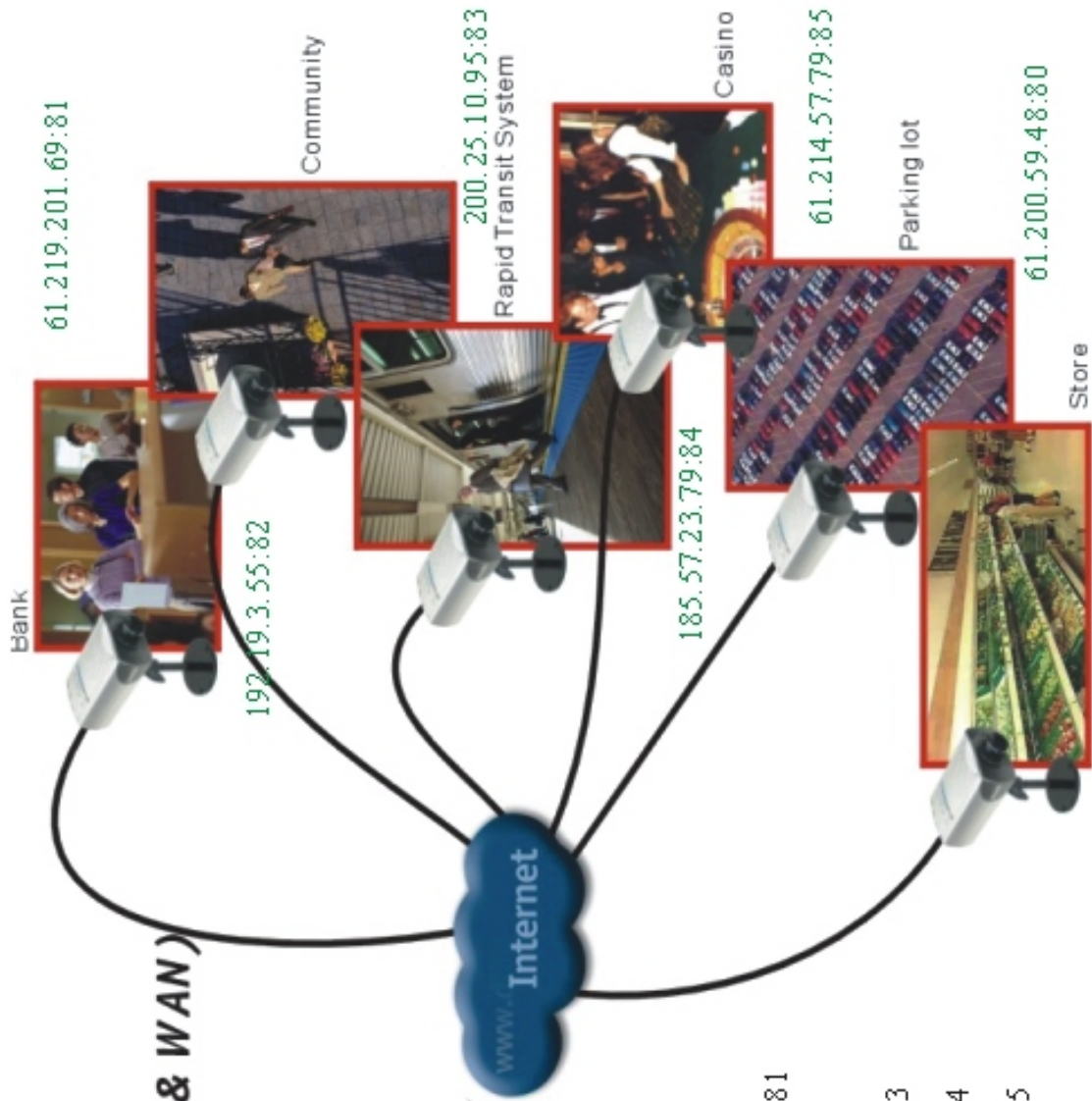(4) HTTP request to 185.57.23.79

View Remote Office via VPN

Factory

5F

4F

3F

2F

1F

192.168.0.3

192.168.0.4

192.168.0.5

192.168.0.6

192.168.0.7

DES-1008D

Translates
61.219.201.69:80~84
to 192.168.0.3~7

DI-804V

IP Network
(Intranet)

Office

Supervisor

DI-804V

(1) HTTP request to 61.219.201.69

(2) HTTP request to 61.219.201.69:81

(3) HTTP request to 61.219.201.69:82

(4) HTTP request to 61.219.201.69:83

(5) HTTP request to 61.219.201.69:84

Surveillance System

Security & Recording (*LAN & WAN*)

61.219.201.69:81
Community

200.25.10.95:83
Rapid Transit System

Casino
61.214.57.79:85

Parking lot
61.200.59.48:80

Bank
192.19.3.55:82

185.57.23.79:84

Store

www. Internet

(1) HTTP request to 61.219.201.69:81

(2) HTTP request to 192.19.3.55:82

(3) HTTP request to 200.25.10.95:83

(4) HTTP request to 185.57.23.79:84

(5) HTTP request to 61.214.57.79:85

(6) HTTP request to 61.200.59.48

DCS-2000/2100+

Applications

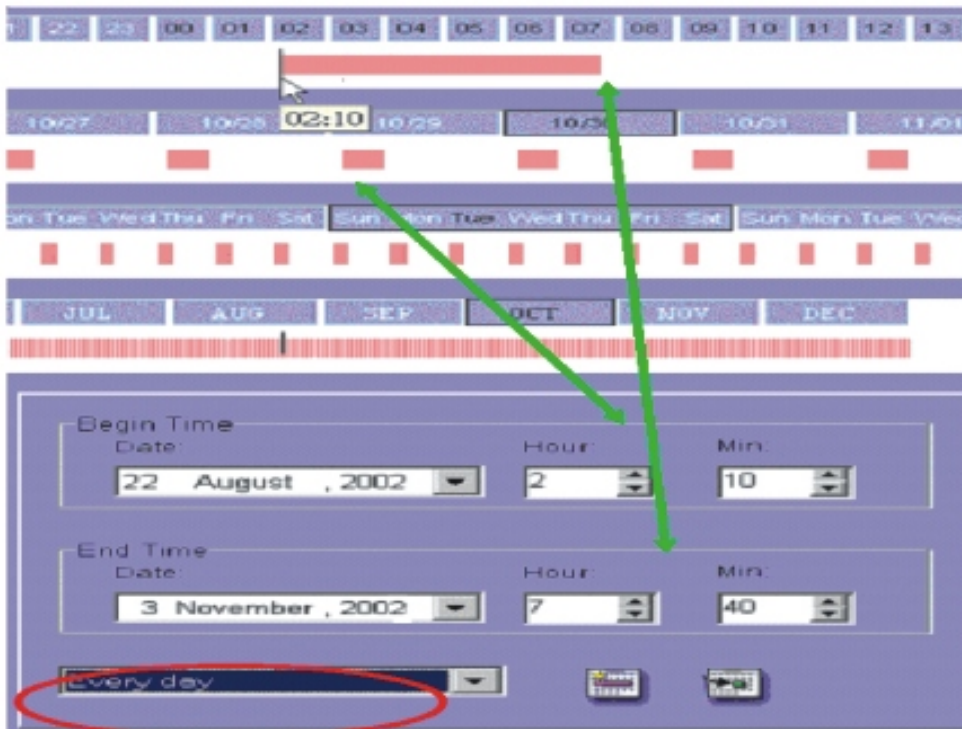**IP Sentry Surveillance Software Outstanding Function**
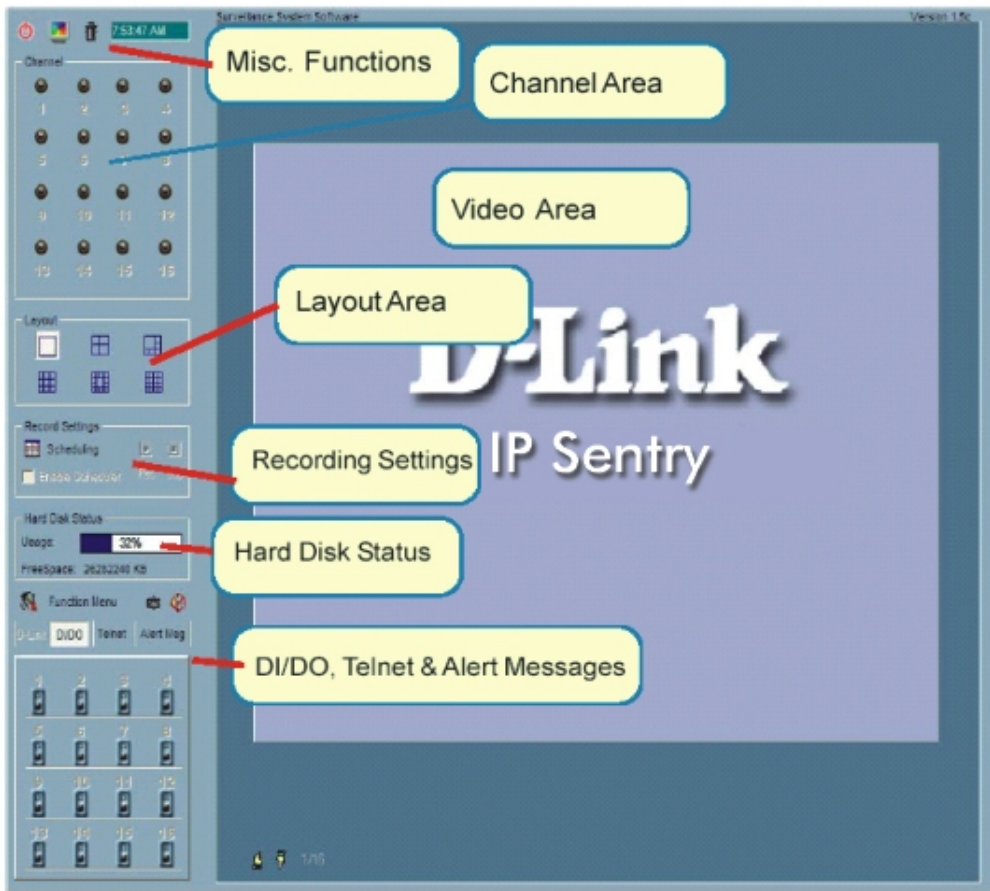
Channel Display (6 layouts)

- Max 16 views
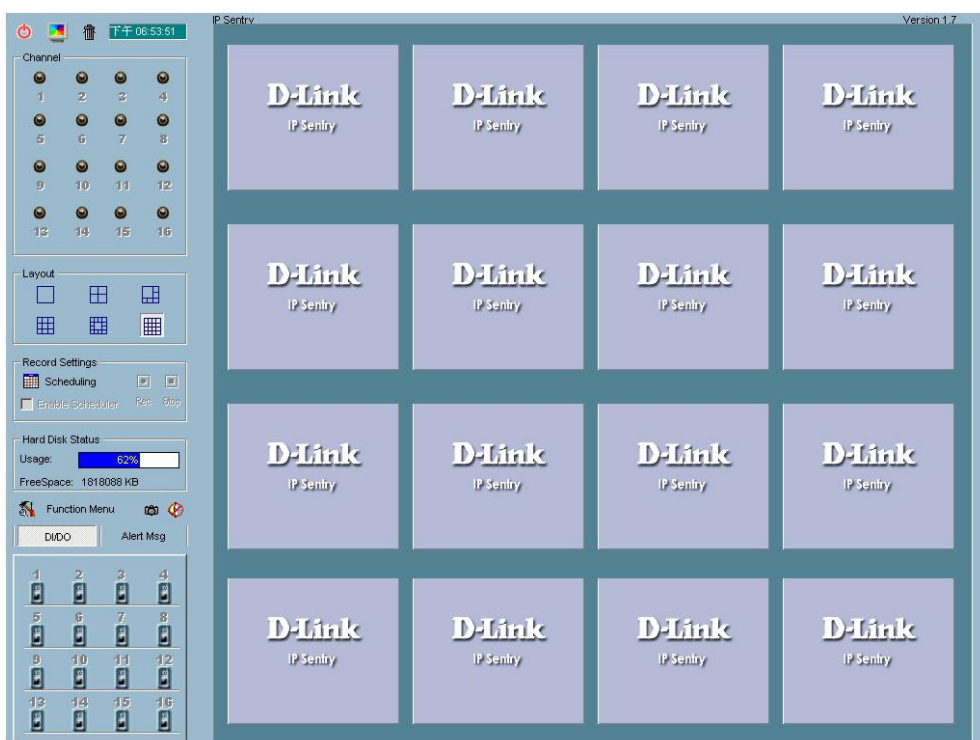
Recording Mode
- Manual Control, event driven, scheduled

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

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