level one ®

2-Megapixel Day/Night Wireless P/T Network Camera

WCS-6020

H/W Version: 1

The LevelOne WCS-6020 is a quality yet cost-effective surveillance solution for the home and office. It is designed for easy and flexible installation, provides a choice of either a 150Mbps wireless or wired connection and a WPS (Wi-Fi protected setup) button to secure the wireless connection with just the push of a button, and the motorized Pan and Tilt provides a viewing angle of ±355° pan and ±135° tilt. Equipped with a 2-Megapixel sensor and built-in IR cut filter/IR illuminator LEDs, the camera provides high resolution quality and sharp sensitivity – ideal for security applications both day and night.

The WCS-6020 is equipped with many advanced features such as Level1DNS™ Service, DI/DO for external alarm and sensor, a SD/SDHC card slot and USB interface for local storage, built-in microphone and external speaker for 2-way audio communications. Moreover, users can also set up 16 motion-detection regions with the camera, each with adjustable size and sensitivity. When motion is detected at the specified regions, the system can send an E-mail alert or send captured images via FTP upload to a designated storage server. The WCS-6020 is indisputably the top choice for reliable and high performance surveillance.

Remote Viewing Made Easy

Level1DNS™ service, an intelligent dynamic DNS service which is handy at situation where IP address of your LevelOne device is not permanent, which is frequently changed by your ISP. By offering you an unique domain name, our Level1DNS™ service ensures your device is always reachable from anywhere around the globe and easy remote access through web browsers.

64-channel Management Software

We aim to offer you the most versatile and comprehensive surveillance solutions. Our IP CamSecure software coming with the camera allows you to monitor up to 64 megapixel IP cameras simultaneously on one screen to enhance scalability. For added convenience and flexibility, the software includes various advanced features such as scheduling recording, event alert, and heaps more. In addition, simply install our free iCamSecure App to your smartphone and connect to the PC with IP CamSecure software installed, you will easily turn your iPhone/ Android smartphone into a portable surveillance system for real-time monitoring and snapshot.

Key Features

- 2-Megapixel (1920 x 1080) high-definition resolution
- Compatible with IEEE 802.11b/g/n wireless standards
- Built-in infrared LEDs for night viewing up to 10m
- Supports 355° pan and 135° tilt
- Compression: H.264/MPEG-4/MJPEG
- Supports 2 video streams simultaneously
- Simple wireless connectivity and security with WPS push button
- Removable IR-cut filter for day and night surveillance
- Built-in microphone and external speaker for 2-way audio communication
- Digital input/output (1DI/1DO) for sensor and alarm
- Built-in SD/SDHC card slot for local storage
- Supports motion detection and event notification via e-mail or FTP
- Free 64-channel monitoring software included (supports iCamSecure App)

Works Well With

WBR-6003
150Mbps Wireless Router

GNS-1001
1-Bay Gigabit Network Storage
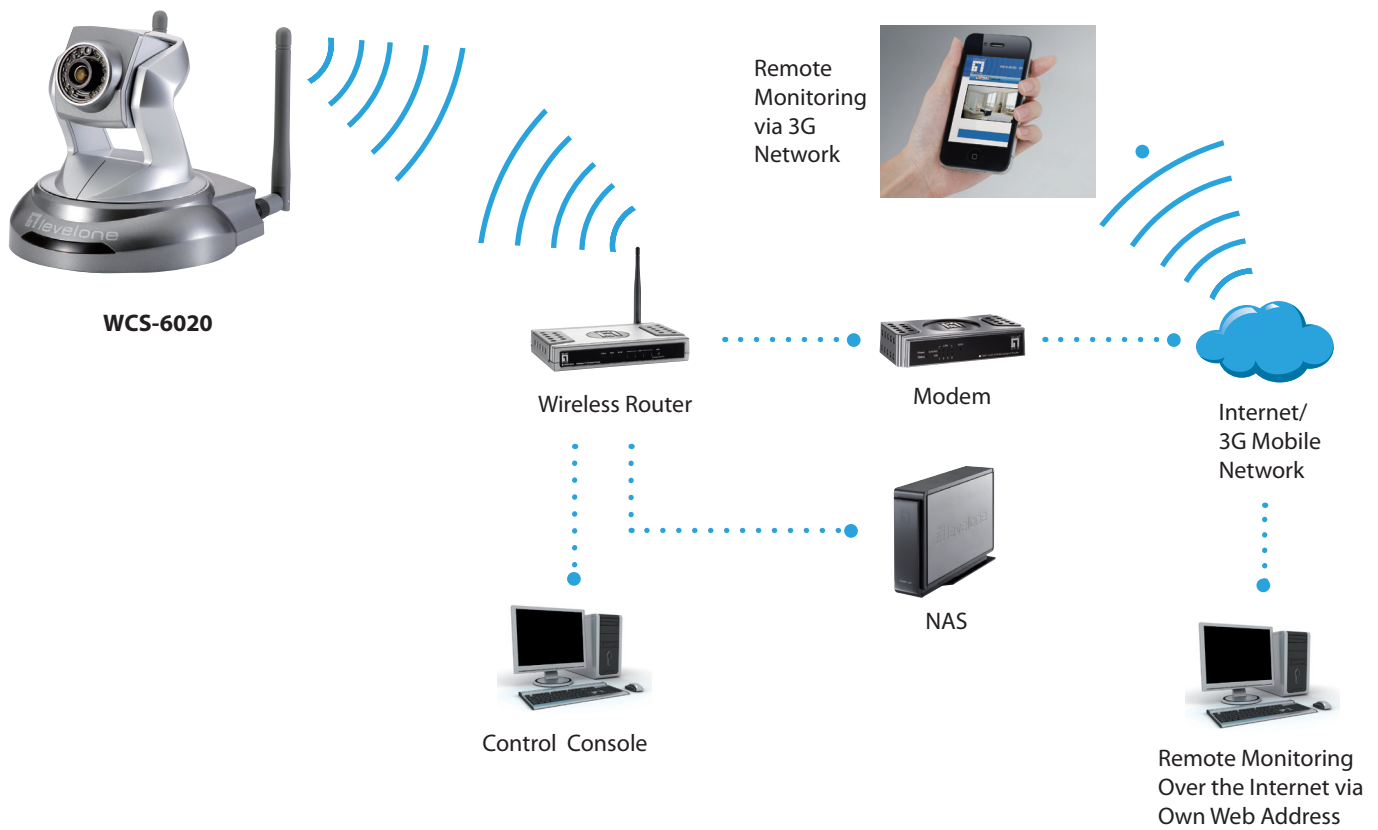
Technical Specification

Camera

Image Sensor
2-Megapixel 1/2.7" Progressive Scan CMOS

Effective Pixels
1920x1080

Lens
Board lens, fixed-focal, f=4.0 mm, F2.0

Angle of View (H)
62°

Minimum Illumination
Color: 1.5 lux at F2.0
B/W: 1.0 lux at F2.0

IR Cut Filter
Removable infrared-cut filter for day & night function

Shutter Time
1 to 1/10000 sec.

Pan/Tilt/Zoom
Pan range: ±355°(-177.5°~177.5°)
Tilt range: ±135° (-45°~ 90°)
Auto pan mode
Auto patrol mode

IR LED
12 IR LEDs for illumination up to 10m

Video

Video Compression
H.264 / MPEG4 / MJPEG

Resolutions
1080p(1920x1080) / SXGA(1280x1024) / WXGA(1280x800) /
VGA(640x480) / QVGA(320x240) / QCIF(176x144)

Frame Rate
Up to 30 fps at 1920x1080

Video Streaming
Multiple simultaneous streams, up to 2 streams

Image Setting
- Adjustable image size, quality and bit rate
- Configurable brightness, sharpness, contrast, saturation, white balance and exposure
- AGC/AWB/AES
- Flip & Mirror
- Time Stamp

Video Format
AVI

Audio

Audio Streaming
2-way audio

Audio Compression
G.726 / AMR

Audio Input/Output
Built-in microphone
Mic/line input, line output

Network

Networking
10/100 Mbps Ethernet, RJ-45
Built-in 802.11b/g/n WLAN

Security
Multi-level user access with password protection
IP address filtering

Supported protocols
TCP/IP, HTTP, SMTP, FTP, DDNS, UPnP, Telnet, NTP, PPPoE, DNS, DHCP, RTSP, Samba

Number of clients
20

DNS
Easy Internet monitoring via configuration free Level1DNS™ service

Wireless

Networking
Built-in 802.11b/g/n WLAN

Transfer Rate
802.11n: 6.5~72.2/13.5~150Mbps
802.11g: 54 ~ 6 Mbps
802.11b: 11 ~ 1 Mbps

Wireless Security
WEP, WPA-PSK, WPA2-PSK

Channels
Ch.1 ~ 11 USA
Ch.1 ~ 13 EU

Operating Frequency
2.412 ~ 2.472GHz

Antenna
2x 2dBi antennas

Alarm and Event Management

Motion Detection
16 Detection Zones

Notification
FTP, SMTP, Samba

DI/DO
1 D/I and 1 D/O for external sensor and alarm

General

Local storage
SD/SDHC card slot, USB slot

Power
DC12V 1.5A

Power Consumption (Max.)
12W

Connectors
RJ-45 10BASE-T/100BASE-TX
3.5mm line out
3.5mm mic/line in
WPS Button
I/O terminal block (DI/DO)
DC Power Jack

LED Indicator
Power/Link

Button
Reset Button

Operating Temperature (°C)
0°C ~ 40°C

Operating Humidity (Non-condensing)
10% to 80%

Dimensions
105 x 105 x 110 mm

Weight
356 g

Approvals
CE, FCC

Viewing System Requirements
OS: Microsoft Windows 7/Vista/XP
Browser: Internet Explorer 6.x or above, Firefox, Chrome, Safari
Cell phone: 3GPP player
Real Player: 10.5 or above
Quick Time 6.5 or above

Bundled Software
Bundled with 64-Channel LevelOne IP CamSecure surveillance management software

Front View and Rear View

1.
2.
3.
4.

5. 6. 7 8 9 10 11 12

1. Auto Light Sensor
2. IR LEDs
3. Built-in Mic
4. Status LEDs
5. Ethernet
6. DI/DO
7. Line Output
8. SD/SDHC Card Slot
9. Mic/line Input
10. DC Power Jack
11. WiFi Protected Setup(WPS) Button
12. USB Port

Product Diagram

WCS-6020

Remote Monitoring via 3G Network

Wireless Router

Modem

Internet/ 3G Mobile Network

NAS

Control Console

Remote Monitoring Over the Internet via Own Web Address

Order Information   **WCS-6020:** 2-Megapixel Day/Night Wireless P/T Network Camera

Package Contents   WCS-6020, Antenna x 2, Power Adapter, Camera Stand, Quick Installation Guide, CD Manual / Utility

V1.0