

## H.264/MJPEG Network Camera

**FW-1173** is a stand-alone IP camera which has web server and real time operation system.

It delivers real time live video at a rate up to 30fps over the TCP/IP network. FW-1173 supports H.264 Video Compression standard, so that less network bandwidth and storage space required for video. Motion JPEG is also supported for maximum flexibility and integration possibilities.

FW-1173 delivers High Video quality at maximum 30 fps in different resolution. Traditionally, the analog video signal from the analog camera causes a “tearing” effect due to the fact even and odd fields are slightly displaced with time interval. Contrary to the traditional analog cameras, FW-1173 adopts progressive mode processing to remove interlace defect of CCD Camera module, FW-3170 makes it possible to monitor in vivid and critical image, especially for the fast moving areas.

Auto Day & Night, and DSS (Digital slow shutter) to view object under low light condition are specific of the camera performance. Built-in motion detection, pre/post alarm buffer, RS-232/RS-485 interface for serial input device, X10 device and advanced alarm notification interface for e-mail, FTP and third party program are some of key features.

POE (Power over Ethernet) functions are also supported to optimize flexible installation and scalability. It is widely used as a surveillance system for unmanned facilities, retail stores, accommodations, gas stations, etc. Having an advantage of flexibility of network video devices and digital interfacing to other systems, and it is also interoperated with various applications like as POS, Access Control, and Building Automation.



Shipped without lens

### Applications

FW-1173 is high performance camera to meet professional video application with supreme video quality.

- Franchise / Branch office Monitoring
- SOHO / Home Security
- Unmanned Facility Remote Surveillance
- Serial Device / POS integrated Application

### Key Features

#### H.264 /MJPEG, IP Camera

H.264 / MJPEG encoding & transmission  
2-way audio communication

#### Auto Day / Night function

Sony Super HAD CCD  
Color, Min. 0.3 Lux, B&W, Min. 0.002lux(DSS), F1.6

#### The best Video Quality

Vivid live video monitoring  
No tearing effect on a moving area

#### Dual Streaming & High Performance

Simultaneous 'dual streaming mode' for both MJPEG & H.264 in different resolutions  
Max. 30/25fps (NTSC/PAL) live view @D1

#### COMPATIBILITY

Supported by various well known CMS applications  
(Refer to our website for more information about partners)

#### Channel-based User Permission

Channel based multi level protection  
For live-cast PTZ, DO and audio

#### POE (Power Over Ethernet)

Optional Built-in Power over Ethernet: IEEE 802.3af)

# Technical Specifications

**FlexWATCH<sup>®</sup>**

# 1173 Network Camera

<b>Video Encoding</b>	MJPEG / H.264 (simultaneous dual stream)	<b>System Integration Features</b>	[Protocol] HTTP, HTTPS, RTP/RTSP, Multicast, 3GPP, TCP/IP, ARP, ICMP, Telnet, Ftp, PPPoE, SMTP, DHCP, NTP, uPNP, and etc. [SDK] Open HTTP API / ActiveX for live cast with audio & PTZ [Service] Image upload / notification service / special service for POS integration
<b>Video channels</b>	Analog 1 Input channels & 1 Output Channel (loop through).	<b>Installation and maintenance</b>	Configuration: installation wizard, HTTP, telnet and console. Upgrade firmware: HTTP, telnet & ftp
<b>Compression</b>	H.264 & MJPEG : 6 levels (low compression / highest / high / normal / low / lowest)	<b>Misc.</b>	OSD (On-Screen Display) / Time-stamp on video Transmit serial input data with video Support NTP server Quick Time & VLC media player compatible
<b>Resolution</b>	4CIF - 704x480 (NTSC) / 704x576 (PAL) CIF - 352x240 (NTSC) / 352x288 (PAL) QCIF - 160x112 (NTSC) / 160x144 (PAL)	<b>System hardware</b>	32bit RISC CPU / Embedded Linux / 128MByte SDRAM / 8MByte Flash
<b>Live Casting</b>	Streaming 1 video channels with full duplex live audio Up to 30/25 fps@ 4CIF (KB) when simplex	<b>Power</b>	Power Supply - SMPS 12V (800mA) [AC100-240V, 50/60Hz] Power Consumption - DC12Volt, 500mA
<b>Audio Encoding</b>	8 bit PCM, Sampling rates 8KHz, Mono Audio	<b>Approvals</b>	MIC,FCC, CE, RoHS
<b>Audio channels</b>	1ch audio-in & 1ch audio-out	<b>Dimension / Weight</b>	84 (W) x 110 (D) x 35 (H) (in mm) 0.214Kg without Power Supply
<b>PTZ support</b>	Built-in PTZ device protocol with more than 30 different PTZ protocols from Pelco, Vicon, Kalatel, Sony, Panasonic, Canon, Honeywell, etc	<b>External Interface</b>	1ch video inputs & 1 composite output (75 ohm/Hi-Z) 10/100-Base-T Ethernet (auto-sensing) 1 photo-coupled or 1 digital inputs (NC/NO selectable), 1 relay outputs 1 audio input / 1 audio output 2 serial ports (COM: RS-232, AUX: RS-232 or RS-485)
<b>UART support</b>	Console, By-pass command to control UART device X10 device command to control device over power line, Modem Support ( ISDN, PSTN and GSM )	<b>Working Environment</b>	Temperature : 32-122 F (0-50 °C) Humidity : 20-80% RH
<b>Bandwidth Management</b>	Frame rate control / Bandwidth control / CBR / VBR	<b>Image sensor</b>	1/3"Sony 410K Super HAD CCD Resolution: 540 TV Lines S/N ratio: 50dB or more(AGC OFF, Weight ON) Electronic shutter speed: X128 - 1/120,000 sec (NTSC) X128 - 1/120,000 sec(PAL) Sens-up limit is selectable / Flickerless White Balance: ATW/AWC/Manual(1,800K ~10,500K),AWC,MWB
<b>Alarm Management (for 1 analog channels)</b>	[ Trigger Condition ] Video loss / Video recovered / Motion detection (144 area) / 1ch alarm inputs / Boot finished / Serial input / Schedule [ Alarm Service ] Image holding service (Max 15.5MByte pre-post alarm buffer) Image upload service through E-mail / FTP (support pre & post) Notification service through TCP / UDP / HTTP / 1 alarm outputs	<b>Lens</b>	Shipped without lens CS mount
<b>Security</b>	Channel based user password protection for live-cast, PTZ, alarm output and audio	<b>Image Setting</b>	BACKLIGHT(OFF/LOW/MIDDLE/HIGH) AGC(OFF/LOW/MIDDLE/HIGH) LENSE(MANUAL/DC) SHUTTER(ESC/MANUAL/Flicker Less) WHITE BALANCE(ATW/AWC/MANUAL) DNR(Dynamic Noise Reduction)
<b>Dynamic IP Support</b>	Dynamic IP service using <a href="http://www.ipcctvdns.com">www.ipcctvdns.com</a>	<b>Minimum illumination</b>	Color: 0.3 Lux (F1.6) B*W:0.002 Lux (Sens-up: x128)
<b>Software (default Web interface)</b>	Live-cast, PTZ control, search through Web browser (Minimum PC requirement - XP, 2000, Vista / IE 6.x or later )	<b>Power Over Ethernet</b>	IEEE 802.3af (optional module)
<b>Software (FW-Manager 3.xx)</b>	Supports 16, 25, 36, 64, 128, 256ch ( 9ch freeware available) Full-featured PC NVR with matrix functionality ( Minimum PC requirement - XP, 2000 / Pentium IV 1.6GHz or above / 256MByte RAM or above / 64MByte video memory or above )		

\* All specifications are subject to change without prior notice.

## Accessory



**POE module**

**Sold separately**



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