

## H.264/MJPEG Megapixel Network Camera

**FW-1173M** is a stand-alone 1.3 Megapixel IP camera which has web server and real time operation system. It delivers real time live video at a rate up to 30fps@D1 over the TCP/IP network. FW-1173M 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-1173M also delivers High quality Video at 15 fps at SXGA(1280x1024) in progressive mode. 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 conventional analog cameras, FW-1173M has progressive scan CMOS , and makes it possible to monitor vivid and crystal clear image.

FW-1173M is supported by various well known CMS application partners. It is able to monitor, recode, and playback by FlexWATCH's CMS application as well as various famous ones. More CMS partners is added now. (For more information about the partners, refer to the web site.)

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-1173M 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, Dual Stream IP Camera

H.264 / MJPEG Dual encoding & transmission  
2-way audio communication  
1.3Mega pixel CMOS Camera Module

#### The best possible Video Quality

High ( 1280 X 1024 Pixel ) Resolution  
No tearing effect on a moving area

#### High Performance Streaming Engine

Max. 15fps liveview @ SXGA  
Max. 30fps liveview @ VGA  
Max. 32 simultaneous users' connection  
Low latency transmission

#### COMPATIBILITY

Supported by various well known CMS applications  
Transmission Protocol Compatibility  
( HTTP, RTP/RTSP, unicast/multicast Transmission )

#### Channel-based User Permission

Channel based multi level protection  
for live-cast PTZ, DO and audio  
Various Advanced network service module  
( ftp, e-mail, event notification by sophisticated conditions )

#### POE (Power Over Ethernet)

Optional Power Over Ethernet: IEEE 802.3af

## Technical Specifications

**FlexWATCH<sup>®</sup>**

# 1173M 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 for live view
<b>Resolution</b>	SXGA - 1280x1024 VGA - 640x480 CIF - 320x240 QCIF - 160x112	<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 max. 30fps@ 4CIF (KB) , 15fps@SXGA 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"(5:4) Micron Progressive Scan CMOS Active imager size : 4.6mm(H) x 3.7mm(V), 5.9mm diagonal Active pixels : 1280H x 1024V Pixel size : 3.6 x 3.6µm Color filter array RGB Bayer pattern Shutter type Electronic rolling shutter (ERS) Responsivity 1.0 V/lux-sec (550nm) SNR MAX 44dB
<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 No Iris Control For Mega Pixel Sensor
<b>Security</b>	Channel based user password protection for live-cast, PTZ, alarm output and audio	<b>Image Setting</b>	LENSE(MANUAL) No Iris Control
<b>Dynamic IP Support</b>	Dynamic IP service using <a href="http://www.ipcctvdns.com">www.ipcctvdns.com</a>	<b>Minimum illumination</b>	2-10000 lux, F1.8
<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 Built-in wireless(optional)
<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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[www.flexwatch.com](http://www.flexwatch.com)