FlexWATCH®
(주)세연테크 Seyeon Tech Co., Ltd.

H.264/MJPEG Box-type 2M Network Camera

FW1173-FS is 2M IP camera offering excellent and clear image quality. FW1173-FS has progressive scan Sony CMOS sensor with a mechanical IR Cut Filter, so as to generate more vivid and crystal clear image under low light condition comparing to ordinary CMOS.

FW1173-FS delivers real time live video at a rate up to 30 fps@2M over the TCP/IP network. FW1173-FS supports H.264 and Motion JPEG Video Compression standard for the less network bandwidth and storage space as well as maximum flexibility and integration possibilities.

FW1173-FS is integrated into various well known CMS application partners and supports ONVIF or PSIA interface too. It can be used to monitor, record, and play back by FlexWATCH CMS application like SmartNVR

POE (Power over Ethernet) function is 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

Optional Features

1. **POE** (Power Over Ethernet -POE Module sold separately or Unit with built-in POE module can be produced by the request of customer.)
2. **Mechanical IR cut Filter**
3. **IR LED Illumination**
4. **WDR** (Wide Dynamic Range)
5. **Wireless LAN connection :** USB Wireless LAN (IEEE 802.11b/g) dongle

Key Features

H.264 /MJPEG, Dual Stream IP Camera
H.264 / MJPEG encoding & transmission
2-way audio communication

Auto Day / Night function
1/2.8" Sony Progressive Scan CMOS
Color, Min. 0.3 Lux, F1.2
B&W, Min. 0.002lux, F1.2

Dual Streaming & High Performance
Simultaneous 'dual streaming mode' for both MJPEG & H.264 in different resolutions
Max. 30fps live view @ 1920x1080(2M)
Low latency transmission

COMPATIBILITY
Supported by various well known CMS applications
Transmission Protocol Compatibility
(3GPP, HTTP, RTP/RTSP, unicast/multicast Transmission)

The best possible Video Quality
Vivid live video monitoring
No tearing effect on a moving area

Progressive Frame Mode
Provide 1024P resolution image without distortion

SD & USB Interfaces
Real-time recording & playback using browser
Wireless connectivity through USB interface

Supports ONVIF & PSIA Standards
FlexWATCH® network cameras support both ONVIF and PSIA video standards.

Technical Specifications

FlexWATCH® (주)세연테크 Seyeon Tech Co., Ltd. **FW1173-MS**

Video Encoding Mode	H.264/MJPEG(simultaneous dual stream) H.264/H.264 (true H.264 dual streaming) Simultaneous streaming with independent control	**System Integration Features**	[Protocol] HTTP, RTP/RTSP, Multicast, 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
Video signal	N/A	**Installation & maintenance**	Configuration: installation wizard, HTTP, telnet and console. Upgrade firmware: HTTP, telnet & ftp.
Resolution	2M - 1920x1080 HD - 1280x720 VGA - 640x352 CIF - 320x176 QCIF - 160x96	**Misc.**	OSD (On-Screen Display) Transmit serial input data with video Quick Time & VLC media player compatible
Live Casting	Streaming video channels with full duplex live audio Up to max 30fps@ 1.3M when simplex	**System hardware**	32bit RISC CPU / Embedded Linux / 128MByte SDRAM / 128MByte Flash
Audio Encoding	8 bit PCM (G.711-u-low), Sampling rates 8KHz, Mono Audio	**Power**	Power Supply - SMPS 12V (1A) [AC100~240V, 50/60Hz, 300mA] Power Consumption - DC12Volt, 600mA
Audio channels	1ch audio-in & 1ch audio-out	**Approvals**	KCC, FCC(Class A), CE(Class A), RoHS
PTZ support	N/A	**Dimension / Weight**	70 (W) x 116 (D) x 52 (H) (in mm) 0.310Kg without Power Supply
UART support	Console, By-pass command to control UART device X10 device command to control device over power line, Modem Support (ISDN, PSTN and GSM)	**External Interface**	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-485) 1 MicroSD memory interface 1 USB memory interface Factory Default Button
Bandwidth Management	Frame rate control / Bandwidth control / CBR / VBR	**Working Environment**	Temperature : 32°~122°F (0°~50°C) Humidity : 20~80% RH
Alarm Management	[Trigger Condition] Video loss / Video recovered / Motion detection (144 area) / 1ch alarm inputs / Boot finished / Serial input / Schedule [Alarm Service] Image holding service (Max 5.6MByte pre-post alarm buffer) Image upload service through E-mail / FTP (support pre & post) Notification service through TCP / UDP / HTTP / 1 alarm outputs	**CMOS Image sensor**	1/2.8" progressive scan CMOS Active pixels 2080H x 1553V, 3.23M Effective pixels 2096H x 1561V, 3.27M Pixel size : 2.5 (H) μm × 2.5 (V) μm Color filter Bayer arrangement of primary colors: R, G, B Bit number of internal ADC: 10/12 bits Parallel output: 37.125 MHz, 10/12 bits Maximum frame rate in all-pixel scan mode: 60 fps
Security	Channel based user password protection for live-cast, PTZ, alarm output and audio	**Lens**	Not Included
Dynamic IP Support	Dynamic IP service using www.ipcctvdns.com	**Image Setting**	Day & Night (AUTO/COLOR/BW) AGC, AWB, Auto Exposure Lens (MANUAL/DC) Shutter (AUTO/MANUAL) Brightness/Contrast/Sharpness Control

Software (default Web interface)	Live-cast, PTZ control, search through Web browser
	Minimum PC requirement - XP Pro / IE 6.x or later)
	    - Pentium4, 2Ghz, 2G(RAM)
	    - Video Card(256MB RAM, 1024x768)
		Minimum illumination	Color: 0.3 Lux (F1.2)
			B*W: 0.002 Lux (F1.2)

Management Software	Supports 16, 32, 64, 128ch Management Software Full-featured PC NVR with matrix functionality	**Optional External Device**	Power Over Ethernet: IEEE 802.3af Internal (built-in board) / External (FW-PoE) Type

Accessory (sold separately)

Model : FW-PoE

* All specifications are subject to change without prior notice.