

Network camera for professional IP surveillance

# FlexWATCH® 1130S

Network Camera

FW-1130S with  
fixed 4mm Lens



FW-1130SW with auto IRIS  
and vari-focal Lens



## Shipped without lens

- \*\* User can adopt any lens which has CS mount
- \*\* Supports Auto-Iris lens

Model No : FW-1130S(W)

### Auto Day / Night function

Sony Super HAD CCD (D&N - 0.002lux, F1.2)

### Wireless LAN

Optional (Built-in wireless LAN interface; IEEE 802.11b/g)

### POE (Power Over Ethernet)

Built-in Power Over Ethernet; IEEE 802.3af

### M-JPEG / MPEG-4 with 2 way audio

M-JPEG/MPEG-4 simultaneous dual stream

Synchronized 2 way audio is supported with M-JPEG and MPEG-4  
1ch Video-output / 1ch Audio-input / 1ch Audio-output

### Full frame rate

Up to 30/25 fps (NTSC/PAL) @ 4CIF, simplex

### Channel based user permission

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

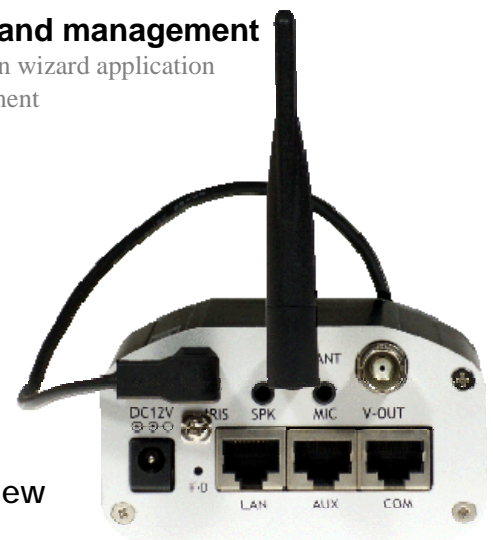
### Top level event services

Supports service triggered by various events  
Multi-window motion detection  
Pre- and post-image alarm buffering

### Easy installation and management

Provided with installation wizard application  
Full web based management

Rear view



# Technical Specifications (FlexWATCH® 1130S Network Camera)

<b>Video compression</b>	M-JPEG / MPEG-4 (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, playback & PTZ [Service] Image upload service / notification service
<b>Audio compression</b>	ADPCM IMA 8Kbps	<b>Installation and maintenance</b>	Configuration : installation wizard, HTTP, telnet and console Upgrade firmware : HTTP, telnet & ftp (Firmware is available at <a href="http://www.flexwatch.com">www.flexwatch.com</a> )
<b>Analog channels</b>	1ch Video-output (loop-through) 1ch Audio input / 1ch audio output	<b>Misc.</b>	Transmit serial input data with video Different time zones are supported Date and time can be synchronized with an external NTP server
<b>Compression Level</b>	6 levels (low compression / highest / high / normal / low / lowest)	<b>System hardware</b>	32bit RISC Processor / Embedded Linux / 32MByte SDRAM / 8MByte Flash 32~122 F (0~50 C), 20~80% RH
<b>Resolution</b>	4CIF - 704x480 (NTSC) / 704x576 (PAL) 2CIF - 704x240 (NTSC) / 704x288 (PAL) CIF - 352x240 (NTSC) / 352x288 (PAL) QCIF - 176x112 (NTSC) / 176x144 (PAL)	<b>Approvals</b>	MIC, FCC, CE, RoHS
<b>Live Casting</b>	Up to 30 fps @ 4CIF when simplex	<b>Accessories &amp; Lens</b>	CD with installation wizard / User's manual / Quick installation manual / SMPS DC / Power cord / LAN cable / Mounting brackets / Connector kit Shipped without lens ( CS mount )
<b>Network through-put control</b>	Frame rate control / Bandwidth control / CBR	<b>Connectors</b>	1 composite output (75 ohm/Hi-Z) 10/100 BaseT Ethernet (auto-sensing) 1 opto-coupled inputs or 1 digital inputs (NC/NO selectable) 1 relay outputs 1 audio input / 1 audio output Reset button for factory default 2 serial port (COM: RS-232, AUX: RS-232 or RS-485)
<b>Audio support</b>	Full duplex live audio	<b>Image sensor</b>	1/3" 410K Sony Super HAD CCD Resolution: 540 TV Lines S/N ratio: 50dB or more (AGC OFF, Weight ON) Electronic shutter speed : X128 - 1/60 ~ 1/120,000 sec (NTSC) X128 - 1/50 ~ 1/120,000 sec (PAL) Sens-up limit is selectable / Flickerless White Balance: ATW/AWC/Manual(1800K, 10,500K)
<b>PTZ support</b>	Built-in PTZ device protocol with more than 30 different PTZ protocols from Pelco, Vicon, Kalatel, Sony, Panasonic, Canon, Honeywell and etc	<b>Power</b>	Power Supply - SMPS 12V (800mA) [AC100~240V, 50/60Hz] Power Consumption - DC12Volt, 500mA
<b>UART support</b>	Console By-pass command to control UART device X10 device command to control device over power line Modem (Support PSTN, ISDN or GSM)	<b>Minimum illumination</b>	Color: 0.3 Lux B*W: 0.002 Lux (Sens-up: x128)
<b>Alarm management</b>	[Trigger] Video loss / Video recovered / Motion detection (144 area) / 1 alarm input / Boot finished / Serial input / Schedule / Trigger combination is possible [Service] Image holding service (Max 2.2MByte pre-post alarm buffer) Image upload service through E-mail / FTP (support pre & post) Notification service through TCP / UDP / HTTP / 1 alarm output	<b>Image settings</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>	IP notification by e-mail AOIP™ (Always On-IP, <a href="http://www.aop.co.kr">http://www.aop.co.kr</a> )	<b>Wireless interface</b>	IEEE 802.11b/g Built-in wireless (optional)
<b>Security</b>	Channel based user password protection for Live-cast, PTZ, Alarm-output and Audio	<b>Power Over Ethernet</b>	IEEE 802.3af Built-in POE
<b>Software (default Web interface)</b>	Live-cast and PTZ control through Web browser with audio (Minimum PC requirement - XP, 2000, Vista / IE 6.x or later / Pentium III 500 MHz or above or equivalent AMD / 64MByte RAM or above)	<b>Dimension</b>	85(W) x 150(D) x 50(H) (in mm)
<b>Software (FW-Manager 3.xx)</b>	Supports 16, 25, 36, 64, 128 & 256 ch (sold separately, 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 / CDROM )	<b>Weight</b>	380g (0.84 lbs)



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