**Flex WATCH®**

# H.264/MJPEG Fixed Dome Network Camera

**FW1176-DS-B** is a stand-alone Indoor Fixed Dome 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-1176-DS-B 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.

FW1176-DS-B 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, FW1176-DS-B adopts progressive mode processing to remove interlaced mode of CCD Camera module, FW1176-DS-B makes it possible to monitor in vivid and critical image, especially for the fast moving areas.

Mechanical IR Cut Filter, IR LED Illumination, and WDR feature to view object under low light condition can be provided as an option 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.



## Applications

FW-1176-DS 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

### Auto Day / Night function
Sony Super HAD CCD
Color, Min. 0.15 Lux, B&W, Min. 0.001lux(DSS), F1.2

### Dual Streaming & High Performance
Simultaneous 'dual streaming mode' for both MJPEG & H.264 in different resolutions
Max. 30 live view @D1
Low latency transmission

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

### Progressive Frame Mode
Provide D1 resolution image without distortion

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

### Optional Features
1. **POE** (Power Over Ethernet -POE Module sold separately.)
2. **Mechanical IR cut Filter**
3. **IR LED Illumination**
4. **WDR** (Wide Dynamic Range)

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|---|---|---|---|
| **Video Encoding** | MJPEG / H.264 (simultaneous dual stream) | **System Integration Features** | [Protocol]<br>HTTP, RTP/RTSP, Multicast, TCP/IP, ARP, ICMP, Telnet, Ftp, PPPoE, SMTP, DHCP, NTP, uPNP, and etc.<br>[SDK]<br>Open HTTP API / ActiveX for live cast with audio & PTZ<br>[Service]<br>Image upload / notification service / special service for POS integration |
| **Video channels** | Analog 1 Output (loop through). | **Installation and maintenance** | Configuration: installation wizard, HTTP, telnet and console.<br>Upgrade firmware: HTTP, telnet & ftp |
| **Compression** | H.264 & MJPEG : 6 levels (low compression / highest / high / normal / low / lowest) | **Misc.** | OSD (On-Screen Display)<br>Transmit serial input data with video<br>Support NTP server<br>Quick Time & VLC media player compatible |
| **Resolution** | D1 - 720x480 (NTSC) / 720x576 (PAL)<br>4CIF - 704x480 (NTSC) / 704x576 (PAL)<br>CIF - 352x240 (NTSC) / 352x288 (PAL)<br>QCIF – 160x112 (NTSC) / 160x144 (PAL) | **System hardware** | 32bit RISC CPU / Embedded Linux / 128MByte SDRAM / 8MByte Flash |
| **Live Casting** | Streaming 1 video channels with full duplex live audio<br>Up to 30/25 fps@ D1 when simplex | **Power** | Power Supply - SMPS 12V (1A) [AC100~240V, 50/60Hz]<br>Power Consumption - DC12Volt, 600mA |
| **Audio Encoding** | 8 bit PCM (G.711-u-low), Sampling rates 8KHz, Mono Audio | **Approvals** | MIC,FCC, CE, RoHS |
| **Audio channels** | 1ch audio-in & 1ch audio-out | **Dimension / Weight** | TBA |
| **UART support** | Console, By-pass command to control UART device<br>X10 device command to control device over power line, Modem Support ( ISDN, PSTN and GSM ) | **External Interface** | 1ch video composite output (75 ohm/Hi-Z)<br>10/100-Base-T Ethernet (auto-sensing)<br>1 photo-coupled or 1 digital inputs (NC/NO selectable), 1 relay outputs<br>1 audio input / 1 audio output<br>2 serial ports (COM: RS-232, AUX: RS-232 or RS-485) |
| **Bandwidth Management** | Frame rate control / Bandwidth control / CBR / VBR | **Working Environment** | Temperature : 32~122 F (0~50 $^{O}$C)<br>Humidity : 20~80% RH |
| **Alarm Management (for 1 analog channels)** | [ Trigger Condition ]<br>Video loss / Video recovered / Motion detection (144 area) /<br>1ch alarm inputs / Boot finished / Serial input / Schedule<br>[ Alarm Service ]<br>Image holding service (Max 5.6MByte pre-post alarm buffer)<br>Image upload service through E-mail / FTP (support pre & post)<br>Notification service through TCP / UDP / HTTP / 1 alarm outputs | **Image sensor** | 1/3"Sony 410K Super HAD CCD<br>Resolution: 560 TV Lines for color / 700 TV Lines for B/W<br>S/N ratio: 52dB or more(AGC OFF, Weight ON)<br>Electronic shutter speed:<br>1/60 ~ 1/120,000 sec (NTSC)<br>1/50 ~ 1/120,000 sec (PAL)<br>Sens-up : AUTO/FIXED/OFF(selectable limit x2 ~ x256) / Flickerless<br>White Balance: ATW/AWC/Manual(1,800K ~10,500K),AWC,MWB |
| **Security** | Channel based user password protection for live-cast, PTZ, alarm output and audio | **Lens** | Auto IRIS & Vari-focal 2.8 - 10.5 mm<br>Board mount |
| **Dynamic IP Support** | Dynamic IP service using www.ipcctvdns.com | **Image Setting** | BACKLIGHT(OFF/LOW/MIDDLE/HIGH)<br>AGC(OFF/LOW/MIDDLE/HIGH)<br>LENSE(MANUAL/DC)<br>SHUTTER(ESC/MANUAL/Flicker Less)<br>WHITE BALANCE(ATW/AWC/MANUAL)<br>DNR(Dynamic Noise Reduction) |
| **Software (default Web interface)** | Live-cast, PTZ control, search through Web browser<br>(Minimum PC requirement - XP, Vista / IE 6.x or later ) | **Minimum illumination** | Color: 0.15 Lux (F1.2)<br>B*W:0.001 Lux (Sens-up: x256) |
| **Software (FW-Manager 3.xx)** | Supports 16, 25, 36, 64, 128, 256ch ( 9ch freeware available)<br>Full-featured PC NVR with matrix functionality<br>( Minimum PC requirement - XP / Pentium IV 1.6GHz or above / 256MByte RAM or above / 64MByte video memory or above   ) | **Power Over Ethernet** | IEEE 802.3af (optional module) |

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

# Accessory



**PWE module**

**is basically included.**

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