

## H.264/MJPEG Mini Speed PTZ Network Camera

**FW1178-DP** is a stand-alone Compact Vandal PAN/TILT/ZOOM network camera which has built-in web server and real time operation system. With PTZ feature, you can remotely move camera to any direction or zoom in/out the object from anywhere though standard web browser. It delivers real time live videos at a rate up to 30fps over the TCP/IP network.

Fast PAN/TILT and flexible 360 degree pan and 180 degree tilt, 100x zoom (10X Optical, 10X Digital zoom) and up to 128 presets function enable you to easily focus camera to the target location and zoom up the object with simple mouse click.

FW1178-DP delivers High quality Video at 30 fps@D1 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, FW1178-PE has progressive scan CCD, and makes it possible to monitor vivid and crystal clear image.

Day & Night camera function, IR Sensitivity, for clear image view under back light situation to view object under low light condition are specific of the camera performance. Built-in motion detection, up to 5.6M 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.

### Key Features

#### Superb Zoom and High speed Pan/Tilt with 250 presets

100x zoom (10x auto-focus optical / 10x digital)  
Pan/Tilt angle 360° (endless) / 180° (digital flip)  
Max speed: 410°/sec at Preset mode

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

H.264 / MJPEG Dual encoding & transmission  
1 Audio-in

#### 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

#### Vandal & weather proof

Weather proof (IP66) outdoor housing and anti-vandal PC(polycarbonate) dome cover that can withstand high impact with heater & blower for internal, external or any tough environment.

#### Supports ONVIF & PSIA Standards

FlexWATCH<sup>®</sup> network cameras support both ONVIF and PSIA video standards.



# Technical Specifications



## FW1178-DP

|   |   |                                       |  |
|---|---|---------------------------------------|--|
| <b>Video Encoding Mode</b>              | H.264/MJPEG(simultaneous dual stream)<br>H.264/H.264 (true H.264 dual streaming)<br>Simultaneous streaming with independent control   | <b>System Integration Features</b>    | [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   |
| <b>Video signal</b>                     | 1ch Video-output.   | <b>Installation &amp; maintenance</b> | Configuration: installation wizard, HTTP, telnet and console. Upgrade firmware: HTTP, telnet & ftp.  |
| <b>Resolution</b>                       | D1 - 720x480<br>4CIF - 704x480<br>CIF - 352x240<br>QCIF - 160x112   | <b>Misc.</b>                          | OSD (On-Screen Display)<br>Transmit serial input data with video<br>Quick Time & VLC media player compatible   |
| <b>Live Casting</b>                     | Streaming video channels with full duplex live audio<br>Up to max 30fps@ D1 when simplex  | <b>System hardware</b>                | 32bit RISC CPU / Embedded Linux / 128MByte SDRAM / 128MByte Flash  |
| <b>Audio Encoding</b>                   | 8 bit PCM (G.711-u-law), Sampling rates 8KHz, Mono Audio  | <b>Power</b>                          | Power Supply - SMPS 12V (3A) [AC100~240V, 1A]<br>Power Consumption – DC 12volt, 15W  |
| <b>Audio channels</b>                   | 1ch audio-in  | <b>Approvals</b>                      | IP66, KCC, FCC(Class A), CE(Class A), RoHS   |
| <b>PTZ support</b>                      | Zoom: x10 (digital x10)<br>Pan: 360°(Endless)<br>Tilt: 0°~180°(Digital Flip)<br>Max speed :<br>410°/sec(preset)<br>0.5°~120°/sec (Zoom Proportional, Manual)<br>128 Presets with zoom, focus, blc and 16 digits of title<br>4 Patterns record 120sec of user control and repeat   | <b>Dimension / Weight</b>             | 141 Ø x 140(H) (in mm)<br>About 1.8kg without power supply   |
| <b>UART support</b>                     | Console, By-pass command to control UART device<br>X10 device command to control device over power line, Modem Support ( ISDN, PSTN and GSM )   | <b>External Interface</b>             | 1 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<br>2 serial ports (COM: RS-232, AUX: RS-485)   |
| <b>Bandwidth Management</b>             | Frame rate control / Bandwidth control / CBR / VBR  | <b>Working Environment</b>            | Temperature : 32 <sup>o</sup> -122 <sup>o</sup> F (0 <sup>o</sup> -50 <sup>o</sup> C)<br>Humidity : 20~80% RH  |
| <b>Alarm Management</b>                 | [ 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 | <b>CMOS Image sensor</b>              | 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)<br>White Balance: ATW/AWC/Manual<br>Outdoor(1800K, 10,500K)/Indoor(4500K ~8500K) |
| <b>Security</b>                         | Channel based user password protection for live-cast, PTZ, alarm output and audio   | <b>Lens</b>                           | F1.8~2.9, f=3.8mm~38mm, 5.58~51.2 horizontal angle   |
| <b>Dynamic IP Support</b>               | Dynamic IP service using <a href="http://www.ipcvtvdns.com">www.ipcvtvdns.com</a>   | <b>Image Setting</b>                  | AGC : Low/ High/ Off<br>Day & Night : Auto / Day / Night (IR Cut Filter Change)<br>DNR : Low / Middle / High / Off   |
| <b>Software (default Web interface)</b> | Live-cast, PTZ control, search through Web browser<br>(Minimum PC requirement - XP Pro / IE 6.x or later )<br>- Pentium4, 2Ghz, 2G(RAM)<br>- Video Card(256MB RAM, 1024x768)  | <b>Minimum illumination</b>           | Color 0.7 Lux, F1.8<br>D&N : 0.005 Lux F1.8 (ICR)  |
| <b>Management Software</b>              | Supports 16, 32, 64, 128ch Management Software<br>Full-featured PC NVR with matrix functionality  | <b>Optional External Device</b>       | Power Over Ethernet: IEEE 802.3af<br>Internal (built-in board ) / External (FW-PoE ) Type  |

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

## Accessory (sold separately)



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