

## H.264/MJPEG 1-CH Network Video Server

**1ch Video Server, FW-3170** is a stand-alone 1 channel network video server to transmit the supreme video and audio data over the TCP/IP network. FW-3170 supports H.264 Video Compression standard, so that much less network bandwidth and storage space are required for video. Motion JPEG is also supported for maximum flexibility and integration possibilities.

FW-3170 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. FW-3170 converts the interlaced image from conventional analog camera into a progressive quality image. FW-3170 makes it possible to monitor fast moving images in vivid and crystal clear quality

The FlexWATCH® Network Video Server not only extends your existing analog CCTV or DVR systems into IP surveillance, but also enhances the existing one. FlexWATCH® is supported by many well known CMS partners, so it is possible to benefit from various CMS application. FlexWATCH®'s 10-year experience and higher performance is open to your qualified existing security systems.

The FlexWATCH® NVS (Network Video Server) is affordable for sites that can be expanded from fixed analog channels to additional network cameras. 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-3170 is designed to meet the professional video application by giving existing analog systems to the TCP/IP network connectivity in LAN or WAN.

Followings are recommended application area,

- Franchise / Branch office Monitoring
- SOHO / Home Security
- Unmanned Facility Remote Surveillance
- Serial Device / POS integrated Application

### Key Features

#### H.264 /MJPEG, 1ch Video Server

H.264 / MJPEG encoding & transmission  
2-way audio communication

#### The best possible Video Quality

Vivid live video monitoring  
No tearing effect on a moving area

#### Dual Streaming & High Performance

Simultaneous 'dual streaming mode' for both MJPEG & H.264 in different resolutions  
Max. 30/25fps (NTSC/PAL) live view @D1

#### Diverse I/O

1ch Video-input / 1ch Video-output, Loop-through  
1ch Audio-input / 1ch Audio-output  
1 DI/DO port,  
RS-485/232 for PTZ

#### COMPATIBILITY

Supported by various well known CMS applications  
(Refer to our website for more information about partners)

#### Channel-based User Permission

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

#### POE (Power Over Ethernet)

POE Module sold separately  
(Unit with built-in POE module can be produced by the request)

# Technical Specifications



# 3170 Network Video Server

|   |   |   |   |
|---|---|---|---|
| <b>Video Encoding</b>                           | MJPEG / H.264 (simultaneous dual stream)  | <b>Dynamic IP support</b>               | Dynamic IP service using <a href="http://www.ipcctvdns.com">www.ipcctvdns.com</a>   |
| <b>Video channels</b>                           | Analog 1 Input channels & 1 Output Channel (loop through).  | <b>Software (default Web interface)</b> | Live-cast, PTZ control, search through Web browser (Minimum PC requirement - XP, Vista / IE 6.x or later )  |
| <b>Compression</b>                              | H.264 & MJPEG : 6 levels (low compression / highest / high / normal / low / lowest)   | <b>Software (FW-Manager 3.xx)</b>       | 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 )                                     |
| <b>Resolution</b>                               | D1 - 720x480 (NTSC) / 720x576 (PAL)<br>4CIF - 704x480 (NTSC) / 704x576 (PAL)<br>CIF - 352x240 (NTSC) / 352x288 (PAL)<br>QCIF – 160x112 (NTSC) / 160x144 (PAL)   | <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>Live Casting</b>                             | Streaming 1 video channels with full duplex live audio<br>Up to 30/25 fps@ 4CIF (KB) when simplex   | <b>Installation and maintenance</b>     | Configuration: installation wizard, HTTP, telnet and console.<br>Upgrade firmware: HTTP, telnet & ftp   |
| <b>Audio Encoding</b>                           | 8 bit PCM, Sampling rates 8KHz, Mono Audio  | <b>Misc.</b>                            | OSD (On-Screen Display) / Time-stamp on video<br>Transmit serial input data with video<br>Support NTP server<br>Quick Time & VLC media player compatible for live view  |
| <b>Audio channels</b>                           | 1ch audio-in & 1ch audio-out  | <b>System hardware</b>                  | 32bit RISC CPU / Embedded Linux / 128MByte SDRAM / 8MByte Flash   |
| <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>Power</b>                            | Power Supply - SMPS 12V (800mA) [AC100-240V, 50/60Hz]<br>Power Consumption - DC12Volt, 500mA  |
| <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>Approvals</b>                        | MIC,FCC, CE, RoHS   |
| <b>Bandwidth Management</b>                     | Frame rate control / Bandwidth control / CBR / VBR  | <b>Dimension / Weight</b>               | 84 (W) x 110 (D) x 35 (H) (in mm)<br>0.214Kg without Power Supply   |
| <b>Alarm Management (for 1 analog channels)</b> | [ Trigger Condition ]<br>Video loss / Video recovered / Motion detection (144 area) / 1ch alarm inputs / Boot finished / Serial input / Schedule<br>[ Alarm Service ]<br>Image holding service (Max 15.5MByte 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>External Interface</b>               | 1ch video inputs & 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 / 1 audio output<br>2 serial ports (COM: RS-232, AUX: RS-232 or RS-485)            |
| <b>Security</b>                                 | Channel based user password protection for live-cast, PTZ, alarm output and audio   | <b>Working Environment</b>              | Temperature : 32-122 F (0-50 °C)<br>Humidity : 20-80% RH  |

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

## Application

FW-3170, 1channel Network Video Server can convert not only analog video, but also serial command into a networked data, FlexWATCH® makes it possible to overcome limit of analog CCTV cabling. You can monitor and control site in the remote PC and using Network Media Decoder that is the counterpart of network video server, you can view and control with conventional analog device.

