FlexWATCH®

FW-3450

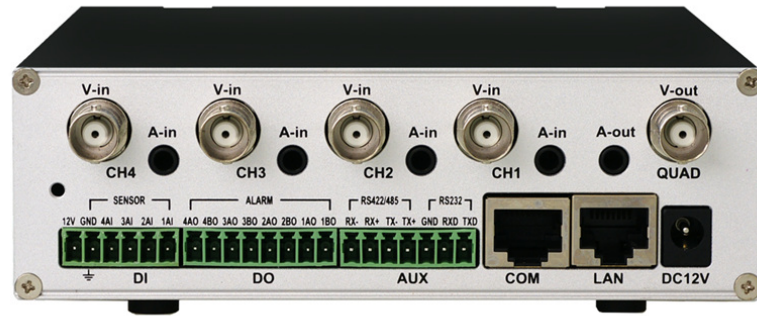## 4-Channel MPEG-4 / MJPEG Network Video Server

FlexWATCH **FW-3450** is a stand-alone, 4-channel network video server. It acquires analog video signals from 8 conventional cameras, encodes it into a real-time MPEG-4 video stream, and then transmits it over the TCP/IP network. Users use the Web browser to view the live video sent form this server. FW-3450 can utilize existing analog video cameras already in site, and transforming it into a digitized network-based surveillance system. All the functions of FW-3450 can be controlled by user through the network.

Applications

- ✓ Franchise / Branch office Monitoring
- ✓ SOHO / Home Security
- ✓ Remote Surveillance on unmanned facilities
- ✓ Serial Device / POS integrated Application

Key Features

4-Channel Video Server
Acquires Composite Video Signal from 4 cameras Utilizing analog CCTV or DVR systems

MPEG-4 / MJPEG Video Encoding
Video encoding in MPEG-4 or MJPEG format Different resolution can be selected

High Performance
120/100 fps (NTSC/PAL) in CIF mode Supports simultaneous live view, recording, playback, and backup

Top Level of Event Services
Triggered by various events, conditions, schedule Multi-window motion detection Pre- and Post- image alarm buffering

Channel-Specific User Permission
Set different permission for each users for multi-level protection in live-cast, PTZ, DO, and audio

I/O Connectivity
1 Audio-In / 1 Audio-Out 4 DI/DO Ports, RS-232C/485 for PTZ Multi-Window Motion Detection RS-232C/485 for PTZ Control

19-inch Rack Mountable
1U-sized 19-inch Rack Mounting Kit available

4-Channel Camera Input

FW-3450 can be hooked up with 4 analog video cameras through composite video input connectors. The acquired video signal can be given out through output connector for loop-through use. Along with video, 4-channel audio-in and another 1 channel audio-out port for audio loop-through are provided as well.

MPEG-4 and MJPEG Encoding

FW-3450 can transmit a video stream in MPEG-4 and MJPEG format at the rate of up to 120 frames per second for NTSC or 100 frames per second for PAL in CIF resolution. 2-way audio encoding is also supported.

High Performance Video

FW-3450 enables users to view the live video in both MPEG-4 and MJPEG at the same time, so user can choose either video that fits the necessity. Video resolution can be selected from any of 4CIF, 2CIF, CIF, and QCIF mode.

UART and X10 Device Connectivity

FW-3450 has two UART ports, one is RS-232 and the other is AUX port. The AUX port can be configured to work as either RS-232 or RS-485. These UART ports provides the compatibility with X10 device connection so that any third party's X10 compliant peripherals can be attached to the serial port and controlled through the serial port of FW-3450.

Versatile CMS Compatibility

FW-3450 supports most of the CMS applications from leading vendors in the surveillance industry, so it can be flexibly incorporated into any type of surveillance systems successfully. Its compatibility covers various network protocols including HTTP, RTP / RTSP, Unicast /Multicast transmission, and so on.

Channel-Specific User Permission

FW-3450 allows assigning different level of access permission to each video channel so that every individual's accessibility can be controlled accordingly. The multi-level permission can be applied to live cast, PTZ, DI/DO, and audio control respectively.

PTZ Protocol Support

FW-3450's built-in PTZ (Pan-Tilt-Zoom) device protocol supports more than 30 kinds of different vendors, which includes Pelco, Kalatel, Sony, Panasonic, Canon, Honeywell, and etc. This feature applies to all the four channels respectively.

For more information about the further detailed technical specification, please see the technical specification, or visit www.flexwatch.com.

FlexWATCH® FW-3450 Network Video Server

Video Encoding	MJPEG / MPEG-4 Video stream recording	**Dynamic IP support**	Dynamic IP service using www.ipcctvdns.com
Video channels	Analog 4 Input channels & 1 Output Channel.	**Software (default Web interface)**	Live-cast, PTZ control, search through Web browser (Minimum PC requirement - XP, 2000, Vista / IE 6.x or later)
Compression	MPEG-4: 6 levels (low compression / highest / high / normal / low / lowest), MJEPG: 1 level (highest)	**Software (FW-Manager 3.xx)**	Supports 16, 25, 36, 64, 128, 256ch (9ch freeware available) Full-featured PC NVR with matrix functionality (Min. PC requirement - XP, 2000 / Pentium 4 - 1.6GHz / 256MByte RAM / 64MByte video memory)
Resolution	4CIF - 704x480 (NTSC) / 704x576 (PAL) 2CIF - 704x240 (NTSC) / 704x288 (PAL) CIF - 352x240 (NTSC) / 352x288 (PAL) QCIF – 176x112 (NTSC) / 176x144 (PAL)	**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
Live Casting	Streaming 4 video channels with full duplex live audio Up to 120/100 fps@ CIF (12.5KB) when simplex	**Installation and maintenance**	Configuration: installation wizard, HTTP, telnet and console. Upgrade firmware: HTTP, telnet & ftp
Audio Encoding	ADPCM IMA 8kbps	**Misc.**	OSD (On-Screen Display) / Time-stamp on video Transmit serial input data with video Support NTP server
Audio channels	4ch audio-in & 1ch audio-out	**System hardware**	32bit RISC CPU / Embedded Linux / 64MByte SDRAM / 8MByte Flash
PTZ support	Built-in PTZ device protocol with more than 30 different PTZ protocols from Pelco, Vicon, Kalatel, Sony, Panasonic, Canon, Honeywell, etc	**Power**	Power Supply - SMPS 12V (3A) [AC100/240V, 50/60Hz] Power Consumption - DC12Volt, Normal : 1.5A, Peak : 1.5A
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)	**Dimension / Weight**	140 (W) x 155 (D) x 44(H) (in mm) 0.6Kg without Power Supply
Network	Frame rate control / Bandwidth control / CBR / VBR	**Approvals**	MIC,FCC, CE, RoHS
Alarm Management (for 4 analog channels)	[Trigger Condition] Video loss / Video recovered / Motion detection (144 area) 4ch alarm inputs / Boot finished / Serial input / Schedule [Alarm Service] Image hold (Max 23.2MByte pre-post alarm buffer) Image upload through E-mail / FTP(support pre & post) Notification service through TCP / UDP / HTTP / 4 alarm outputs	**External Interface**	4ch video inputs & 1 composite output, Quad display (75Ω/Hi-Z) 10/100-Base-T Ethernet (auto-sensing) 4 photo-coupled or 4 digital inputs (NC/NO selectable), 4 relay outputs, 4 audio input / 1 audio output 2 serial ports (COM: RS-232, AUX: RS-232 or RS-485 or RS-422)
Security	Channel based user password protection for live-cast, PTZ, alarm output and audio	**Operating Condition**	Temperature : 41~122 F (5~50 °C) Humidity : 20~80% RH

All specifications are subject to change without prior notice.

Optional Accessory

19" 1U rack mount kit
* Sold separately

www.flexwatch.com