FlexWATCH®

FW3870 / 8ch Network Video Server

16ch Video Server, FW3870 is a stand-alone **Hybrid network video server** which transmits the crisp real time live video and audio over the TCP/IP network. The FlexWATCH® FW3870 has 8 internal composite video, audio and DI/DO inputs and supports additional 8 network IP cameras or video servers such as Axis, Panasonic, Mobotix, Arecont Vision, IQinvision, Vivotek and so on. Users can access and see the live-images up to 16 cameras through standard Web browser over the LAN or Internet at anytime from anywhere.

The FlexWATCH® Network Video Server (NVS) extends your existing analog CCTV or DVR systems into IP surveillance. It's basically same as a Network Camera except does not have built-in camera. Besides it is designed to connect analog video signals from CCTV cameras or DVR loop-through, and digitizes analog video signals and sends digital images directly over the IP network, such as a LAN, intranet or Internet. All the functions and services of a network video server can be managed remotely via the network. Users can change the system configurations using a remote web browser or a CMS S/W.

The FlexWATCH® NVS 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.

Key Features

Hybrid H.264/MJPEG, 8ch Video Sever
8ch Video-input / 1ch Video-output, Loop-through
8 analog and 8 network channels
Up to 120/100fps (NTSC/PAL) live view @ D1
Simultaneous recording, live, playback and backup

Multi-Vendor Supports
Axis, Panasonic, Mobotix, IQinvision, Arecont vision, Vivotek, FlexWATCH, etc

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

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

Diverse I/O
USB Port for external HDD (Up to 1.5 TB)
8 Audio In / 1 Audio Out
8 DI/DO port, RS-485/232 for PTZ
Multiplexed composite video output for 8ch

19" Rack mountable
1U-size 19" rack mount kit is available!

Applications

FW3870 is specially designed to meet high-end video application covering a small-mid size area with various types of analog CCTV-cameras for live-casting over the TCP/IP network.
Followings are recommended application area,

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

Supported Vendors

Video channels	Hybrid 16 video channels (Analog 8 channels / Network 8 channels) Analog channels are compressed by MJPEG/H.264 Network channels are MJPEG/MPEG-4 /H.264	**Security**	Channel based user password protection for live-cast, PTZ, alarm output and audio
IP camera Brand	FlexWATCH, Axis, Mobotix, Panasonic is supported now. Arecont vision, IQinVision, Vivotek, and etc. Please make sure the supported compression format according to the brand	**Dynamic IP Support**	Dynamic IP service using www.ipcctvdns.com
Recording storage	Supports up to 1.5TB HDD (By USB External Hard drive)	**Software (default Web interface)**	Live-cast, PTZ control through Web browser (Minimum PC requirement - XP, Vista / IE 6.x or later)
Compression	H.264: 6 levels (low compression / highest / high / normal / low / lowest)	**Software (FW-Manager 3.xx)**	Supports 16, 25, 36, 64, 128, 256ch (9ch & 16ch freeware available) Full-featured PC NVR with matrix functionality (Minimum PC requirement – XP / Pentium IV 1.6GHz or above / 256MByte RAM or above / 64MByte video memory or above)
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 [Service] Image upload / notification service / special service for POS integration
Video Encoding	H.264/MJPEG Video stream recording	**Installation and maintenance**	Configuration: installation wizard, HTTP, telnet and console. Upgrade firmware: HTTP, telnet & ftp
Live Casting	Streaming 8 video channels with full duplex live audio Up to 120/100 fps@ D1 when simplex	**Misc.**	OSD (On-Screen Display) / Time-stamp on video Transmit serial input data with video Support NTP server
Audio Encoding	G.723 (4-bit, 8KHz)	**System hardware**	32bit RISC CPU / Embedded Linux / 128MByte DDR2 RAM/ 8MByte Flash
Audio channels	8ch audio-in & 1ch audio-out	**Power**	Power Supply - SMPS 12V (3A) [AC100~240V, 50/60Hz] Power Consumption - DC12Volt, Normal : 1.5A, Peak : 1.6A
PTZ support	Built-in PTZ device protocol with more than 30 different PTZ protocols from Pelco, Vicon, Kalatel, Sony, Panasonic, Canon, Honeywell, etc	**Approvals**	FCC, CE, RoHS
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**	280 (W) x 224 (D) x 44(H) (in mm) 1.61Kg (3.55lbs) without Power Supply
Network	Frame rate control / Bandwidth control / CBR / VBR	**External Interface**	8ch video inputs & 1 composite output, 3x3 Multiplexed display (75 ohm/Hi-Z) 10/100/1000-Base-T Ethernet (auto-sensing) 8 photo-coupled or 8 digital inputs (NC/NO selectable), 8 relay outputs 8 audio input / 1 audio output 2 serial ports(COM: RS-232, AUX: RS-232 or RS-485 of RS-422) 1 USB port for External HDD (Up to 1.5 TB)
Alarm Management (for 8 analog channels)	[Trigger Condition] Video loss / Video recovered / Motion detection (144 area) / 8ch alarm inputs / Boot finished / Serial input / Schedule [Alarm Service] Image holding service (Max 19.2MByte pre-post alarm buffer) Image upload service through E-mail / FTP (support pre & post) Notification service through TCP / UDP / HTTP / 8 alarm outputs	**Working Environment**	Temperature : 32° ~ 122°F (0° ~ 50°C) Humidity : 20~80% RH

Accessory

19" 1U rack mount kit

Sold separately

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Specifications, components and options listed are subject to change without notice.

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