

Hybrid Network Video Recorder

FW5470-VR-C is a stand-alone, **Hybrid Network Video Recorder** which provides full feature of video server and recorder. It can transmit, record, and playback the real time H.264 and MJPEG video stream not only from directly connected analog cameras but also the remote IP-cameras or video-servers that registered to NVR. The FW5470 has 4 internal composite video inputs and supports additional 12 external network channels of IP camera or video server. Besides, FW5470 can works with other IP cameras and video servers such as Axis, Panasonic, Mobotix, Arecont Vision, IQinvision, Vivotek and so on*.

FW5470 is based on Unified Communication Protocol. Compared with other NVR (software based and hardware based) products, FW5470 requires only single TCP port for remote live view, playback and configuration. It minimizes network configuration burden and realizes much easier way for video management. By accessing FW5470 locally or remotely, other IP cameras as well as FlexWATCH's one connected to FW5470 can be viewed and controlled.

The FlexWATCH® NVR is affordable for sites that can be expanded from fixed analog channels to additional network cameras. The FlexWATCH NVR 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, the NVR is also interoperated with various applications like as POS, Access Control, and Building Automation.



Applications

FW5470 is an ideal system, wherever secure distribute on-site recording and live-casting over the IP network is required.

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

Supported Vendors



Key Features

Hybrid NVR system

4 analog and 12 network channels
Up to 120/100fps (NTSC/PAL) liveview @ D1
Simultaneous recording, live, playback and backup

Multi-Vendor Supports

Axis, Panasonic, Mobotix, IQinvision, Arecont vision, Vivotek, FlexWATCH, etc

Unified Communication Protocol

Single TCP port only for view, playback and control

MJPEG/MPEG-4/H.264 NVR

Support MJPEG/MPEG-4/H.264 for remote stream
Support H.264/MJPEG encoding for analog input.
16ch simultaneous streams

Diverse I/O

USB Port for external HDD (Up to 1.5 TB)
4 Audio In / 1 Audio Out
4 DI/DO port, RS-485/232 for PTZ
Quad composite video output for 4ch.

Add-on service

User defined serial device integration as a default
POS data integrations optionally

Rack mountable

1U size suitable for 19" rack

Technical Specifications

FlexWATCH®

FW5470-VR-C Network Video Recorder

Video channels	Hybrid 16 video channels (Analog 4 channels / Network 12 channels) Analog channels are compressed by MJPEG/H.264 Network channels are MJPEG/MPEG-4 /H.264	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 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 / 4 alarm outputs
IP camera Brand	FlexWATCH, Axis, Mobotix, Panasonic is supported now. Arecont vision, IQinVision, and Vivotek, etc. Please make sure the supported compression format according to the brand	HDD management	Disk full notification / Periodic notification via e-mail HDD error notification via e-mail HDD error notification using beep sound (for local area notification)
Recording storage	Supports up to 2 TB HDD by 1 SATA Anti-vibration & air-cooling system	Security	Channel based user password protection for live-cast, PTZ, alarm output and audio
Recording	[Video Recording] MJPEG / MPEG-4 / H.264 Video stream recording Max 120 fps at D1 resolution [Audio Recording] G.723 (4-bit, 8KHz) stream recording [Data Recording] POS, ATM, Video Analytics, Access Control and various serial devices	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 (Analog channel)	4CIF - 704x480 (NTSC) / 704x576 (PAL) 2CIF - 704x240 (NTSC) / 704x288 (PAL) CIF - 352x240 (NTSC) / 352x288 (PAL) QCIF - 176x112 (NTSC) / 176x144 (PAL)	Software (default Web interface)	Live-cast, PTZ control, search and playback through Web browser (Minimum PC requirement - XP, Vista / IE 6.x or later / Pentium III 500 MHz or above or equivalent AMD / 64MByte RAM or above)
Live Casting	Streaming 4 video channels with full duplex live audio Up to 120 fps@ D1 when simplex	Software (Multi-NVR Player)	Search and playback video with audio from registered FW-5470C (Minimum PC requirement - XP, Vista / IE 6.x or later / Pentium III 500 MHz or above or equivalent AMD / 64MByte RAM or above)
Bandwidth Management	Frame rate control / Bandwidth control / CBR / VBR	Dynamic IP support	Dynamic IP service using www.ipcctvdns.com
Recording condition	Based on the multiple combination of date / time / alarm using 'AND' & 'OR' condition Alarm can be generated by motion detection and by a trigger from digital inputs	System Integration Features	[Protocol] HTTP, TCP/IP, RTP/RTSP, Multicast, ARP, ICMP, Telnet, Ftp, PPPoE, SMTP, DHCP, uPNP, NTP (Some of protocols are only for built-in module) [SDK] Open HTTP API / ActiveX for live-cast with audio, playback, & PTZ [Service] Image upload / notification service / special service for POS integration
Recording frame rate	2 step frame rate (fast on event / Slow on continuous recording mode) Up to 120 fps in D1 when simplex	Installation and maintenance	Configuration: installation wizard, HTTP, telnet and console. Upgrade firmware: HTTP, telnet & ftp
Search	Based on the multiple combination of date / time / event using 'AND' & 'OR' condition	Misc.	OSD (On-Screen Display) / Time-stamp on video Transmit serial input data with video Support NTP server Quick Time and VLC media player compatible for live view (built-in module)
Playback	Forward, reverse, fast forward, fast reverse, single step forward, single step backward	System hardware	32bit RISC CPU / Embedded Linux / 128MByte DDR2 RAM / 8MByte Flash
Synchronized	16 channels can be played simultaneously	Power	Power Supply - SMPS 12V (5A) [AC100-240V, 50/60Hz] Power Consumption - DC12Volt, Normal : 1.5A, Peak : 3A
Backup	Video data can be backed up to a remote computer In AVI format / FJP format (FlexWATCH AV clip format)	Approvals	FCC, CE, RoHS
PTZ support	Built-in PTZ device protocol with more than 30 different PTZ protocols from Pelco, Vicon, Kalatel, Sony, Panasonic, Canon, Honeywell, etc All 16 channels support PTZ controls	External Interface	4ch video inputs & 1 composite output, Quad display (75 ohm/Hi-Z) 10/100/1000 -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) 1 USB Port for External HDD (Up to 1.5 TB)
Audio support	4ch audio-in & 1ch audio-out	Dimension / Weight	280 (W) x 224 (D) x 44(H) (in mm) 1.61Kg(3.55lbs) without Power Supply & HDD
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)	Working Environment	Temperature : 32° ~ 122°F (0° ~ 50°C) Humidity : 20~80% RH

* All specifications are subject to change without prior notice

Accessory



19" 1U rack mount kit

Sold separately



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