

4ch Hybrid Network Video Recorder

FW5470 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.

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



FW5470

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) / 1ch alarm inputs / Boot finished / Serial input / Schedule [Alarm Service] Image holding service (Max 5.6MByte pre-post alarm buffer) Image upload service through E-mail / FTP (support pre & post) Notification service through TCP / UDP / HTTP / 1 alarm outputs
IP camera Brand	FlexWATCH, Axis, Mobotix, Panasonic, Arecont vision, IQinVision, and Vivotek, etc. Please make sure the supported compression format according to the brand	Security	Channel based user password protection for live-cast, PTZ, alarm output and audio
Resolution (Analog channel)	D1 - 720x480 4CIF - 704x480 CIF - 352x240 QCIF - 160x112	Management Software	Supports 16, 32, 64, 128ch Management Software Full-featured PC NVR with matrix functionality
Live Casting	Streaming 4 video channels with full duplex live audio Up to 120 fps@ D1 when simplex	Software (default Web interface)	Live-cast, PTZ control, search through Web browser (Minimum PC requirement - XP Pro / IE 6.x or later) - Pentium4, 2Ghz, 2G(RAM) - Video Card(256MB RAM, 1024x768)
Bandwidth Management	Frame rate control / Bandwidth control / CBR / VBR	Dynamic IP support	Dynamic IP service using www.ipcctvdns.com
Recording	N/A	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 storage	N/A	Installation and maintenance	Configuration: installation wizard, HTTP, telnet and console. Upgrade firmware: HTTP, telnet & ftp
Recording condition	N/A	Misc.	OSD (On-Screen Display) Transmit serial input data with video Quick Time & VLC media player compatible
Recording frame rate	N/A	System hardware	32bit RISC CPU / Embedded Linux / 128MByte DDR2 RAM / 8MByte Flash
Search	N/A	Power	Power Supply - SMPS 12V (3A) [AC100~240V, 50/60Hz, 1.5A] Power Consumption - DC12Volt, 0.8A
Playback	N/A	Approvals	KCC, FCC(Class A), CE(Class A), RoHS
HDD management	N/A	External Interface	4ch video inputs & 1 composite output (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 of RS-422) Factory Default Button
PTZ support	Built-in PTZ device protocol with more than 30 different PTZ protocols from Pelco, Vicon, Kalatel, Sony, Panasonic, Canon, Honeywell, etc	Dimension / Weight	280(L) x 217(W) x 44(H) (in mm) 1.56kg without Power Supply & HDD
Audio support	8 bit PCM, Sampling rates 8KHz, Mono Audio 4ch audio-in & 1ch audio-out	Working Environment	Temperature : 32° ~ 122°F (0° ~ 50°C) Humidity : 20~80% RH
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)	Rack Mountable	1U size 19" Rack Mountable

* All specifications are subject to change without prior notice.

Accessory (sold separately)

