

Hybrid recording system for analog and networked audio-visual

# FlexWATCH® 5450

Network Video Recorder / POS NVR solution



Front view

## Model No : FW-5450

### M-JPEG / MPEG-4 with 2 way audio

MPEG-4 for time-lapse recording  
M-JPEG for alarm triggered recording  
Audio recording and playback with M-JPEG and MPEG-4

### Hybrid

Supports 4 analog channels and 12 networked channels

### Quadplex

Simultaneous recording, live-casting, playback and backup

### Full frame rate

Up to 120/100 fps (NTSC/PAL) live-casting @ CIF, 12.5KB, simplex  
Up to 120/100 fps (NTSC/PAL) recording @ CIF, 12.5KB, simplex

### FlexWATCH POS™

POS/NVR surveillance platform  
Supports ALOHA, RetailPro, Xpient, Squirrel, WAND  
Integration is still going on.

### Secure & ample storage

Supports up to 750GB of SATA HDD  
78 days of CIF-12.5KB video at 1fps from 8 channels  
Anti-vibration and air-cooling system

### Easy installation and management

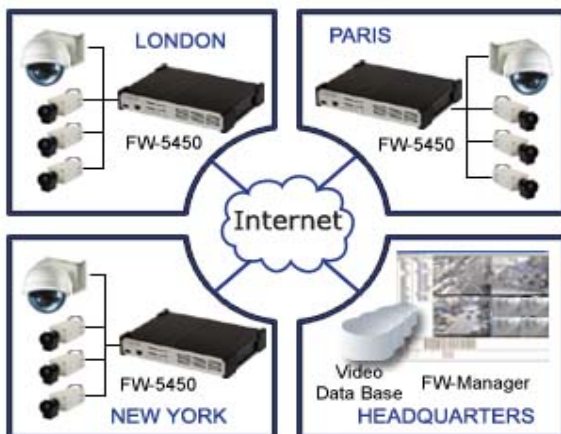
Provided with installation wizard application  
Full web based management

### Quad video output for loop-through

For analog monitor display at local site

### 19" rack mount

19" rack mount kits are available



## Applications

FW-5450 is an ideal system, wherever secure distribute on-site recording and live-casting over an IP network is required.

- POS (FlexWATCH POS™)
- Franchise
- Branch office
- SOHO
- Unmanned facility

# Technical Specifications (FlexWATCH® 5450 Network Video Server)

<b>Video recording</b>	M-JPEG / MPEG-4	<b>HDD management</b>	Disk full notification via e-mail Periodic notification via e-mail HDD error notification via e-mail HDD error notification using beep sound (for local area notification)
<b>Audio recording</b>	ADPCM IMA 8Kbps	<b>Dynamic IP support</b>	IP notification by e-mail AOIP™ (Always On-IP, http://www.aoop.co.kr)
<b>Video channels</b>	Hybrid 16 video channels (analog 4 channels / network 12 channels)	<b>Security</b>	Channel based user password protection for live-cast, PTZ, alarm output and audio
<b>Recording storage</b>	Support upto 750GB HDD by 1 SATA (Seagate brand) Anti-vibration & air-cooling system	<b>Software (default Web interface)</b>	Live-cast, PTZ control, search and playback through Web browser with audio (Minimum PC requirement - XP, 2000, Vista / IE 6.x or later / Pentium III 500 MHz or above or equivalent AMD / 64MByte RAM or above)
<b>Compression Level</b>	6 levels (low compression / highest / high / normal / low / lowest)	<b>Software (Multi-NVR Player)</b>	Optional (freeware available) Search and playback video with audio from registered FW5450 (Minimum PC requirement - XP, 2000, Vista / IE 6.x or later / Pentium III 500 MHz or above or equivalent AMD / 64MByte RAM or above)
<b>Resolution</b>	4CIF - 704x480 (NTSC) / 704x576 (PAL) 2CIF - 704x240 (NTSC) / 704x288 (PAL) CIF - 352x240 (NTSC) / 352x288 (PAL) QCIF - 176x112 (NTSC) / 176x144 (PAL)	<b>Software (FW-Manager 3.xx)</b>	Supports 16, 25, 36, 64, 128 & 256 ch (sold separately, 9ch freeware available) Full-featured PC NVR with matrix functionality (Minimum PC requirement - XP, 2000 / Pentium IV 1.6GHz or above / 256MByte RAM or above / 64MByte video memory or above / CDROM )
<b>Live Casting</b>	Streaming 16 video channels with full duplex live audio Up to 120 fps @ CIF (12.5KB) when simplex	<b>System integration features</b>	[Protocol] HTTP, TCP/IP, ARP, ICMP, Telnet, Ftp, PPPoE, SMTP, DHCP, NTP [SDK] Open HTTP API / ActiveX for live-cast with audio, playback & PTZ [Service] Image upload service / notification service
<b>Network through-put control</b>	Frame rate control / Bandwidth control / CBR	<b>Installation and maintenance</b>	Configuration : installation wizard, HTTP, telnet and console Upgrade firmware : HTTP, telnet & ftp (firmwares are available at www.flexwatch.com)
<b>Recording condition</b>	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	<b>Misc.</b>	Timestamp on video Transmit serial input data with video Different time zones are supported Data and time can be synchronized with an external NTP server Live-cast for up to 32 clients Playback for up to 30 clients
<b>Recording frame rate</b>	2 step frame rate (fast on event / slow on timelapse mode) Up to 120 fps @ CIF (12.5KB) when simplex	<b>System hardware</b>	32bit RISC Processor / Embedded Linux / 64MByte SDRAM / 8MByte Flash DC 12V/1.5A~3A(pick), 32~122 F (0~50 C), 20~80% RH
<b>Search</b>	Based on the multiple combination of date / time / event using 'AND' & 'OR' condition	<b>Approvals</b>	MIC, FCC, CE, RoHS
<b>Playback</b>	Support VCR like interface (forward, reverse, fast forward, fast reverse, single step forward, single step backward)	<b>Accessories</b>	CD with installation wizard / User's manual / Quick installation manual / SMPS 12V (5A) [AC100~240V, 50/60Hz] / Power cord / LAN cable
<b>Synchronized playback</b>	9 channels can be played simultaneously	<b>Connectors</b>	4 video inputs & 1 composite output Quad display (75 ohm/Hi-Z) 10/100 BaseT Ethernet (auto-sensing) 4 opto-coupled inputs or 4 digital inputs (NC/NO selectable) 4 relay outputs 4 audio input / 1 audio output Reset button for factory default 2 serial port (COM: RS-232, AUX: RS-232 or RS-485)
<b>Backup</b>	Video data can be backed up to a remote computer In AVI format / FJP format (FlexWATCH AV clip format)	<b>Dimension</b>	215(W) x 280 (D) x 45(H) (in mm) / 19" 1U Rack mount kit
<b>Audio support</b>	Full duplex live audio All 16 channel support audio (if supported)	<b>Weight</b>	1.34Kg(2.95 lbs) wo HDD
<b>PTZ support</b>	Built-in PTZ device protocol with more than 30 different PTZ protocols from Pelco, Vicon, Kalatel, Sony, Panasonic, Canon, Honeywell and etc All 16 channels support PTZ control		
<b>UART support</b>	Console By-pass command to control UART device X10 device command to control device over power line Modem (Support PSTN, ISDN or GSM)		
<b>Alarm management (For 4 analog channels)</b>	[Trigger] Video loss / Video recovered / Motion detection (144 area) / 4 alarm inputs / Boot finished / Serial input / Schedule / Trigger combination is possible [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		



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