# **FlexWATCH Manager User Manual**

(Version. 3.0\_Rev0)

Nov 27, 2007

Seyeon Tech Co., Ltd. www.seyeon.co.kr www.flexwatch.com

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# 1. Overview of FlexWATCH Manager

### 1.1. Introduction

**FlexWATCH Manager** is a proprietary application program to globally and locally manage remote video over the TCP/IP network.

It only works with all FlexWATCH Network camera or video server series and provides you with simple and consolidated tool for not only real time view of digital video but also DVR(Digital Video Recording) solution. You can simply install the software in your monitoring PC and connect it to any FlexWATCH network camera or video server series over the TCP/IP network.

- Key Features
  - Works with all FlexWATCH Network Camera and Video Server series.
    - (RTOS Firmware Version2.3 or 3.0, Linux3.0 support)
  - Controls FlexWATCH servers with either static IP or dynamic IP address.
  - Easy search and control the remote video.
  - Supports Maximum 256 cameras and camera grouping (16ch, 25ch, 36ch, 64ch, 128ch, 256ch support)
  - Supports Drag and Drop functions for camera selection
  - Supports Event, Motion Detection, Schedule and forced recording options.
  - Supports not only S/W PTZ (Pan/Tilt/Zoom) but also H/W control by Joystick.
  - System log based video search.
  - Easy and fast search & playback of archived video
  - File rename and AVI file conversion of archived video
  - Supports 10 multi-languages.
  - Works with the network alarm manager and when an alarm occurs, it automatically records the video streams and send video data to the network alarm manager.
  - Works with ISENS System.
  - Works with MPEG4 models.
  - Works with a joystick through COM or USB port for PTZ control.



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### 1.2. Key Benefits

#### **Complete and pure Network Digital Video Recording**

FlexWATCH<sup>™</sup> Manager provides powerful tool to **view, record and playback** multiple compressed video feeds from multiple FlexWATCH<sup>™</sup> from any location over the TCP/IP network. **Scheduled, Event, software motion detection and Forced recording** driven video recording options are provided and you can search all archived video by server or camera for the specific time.

#### **Centralized and Decentralized Real-time Remote Monitoring**

FlexWATCH Manager enables you to set up monitoring and recording solution at any place in your local or remote facility. FlexWATCH network cameras and video servers support both static and dynamic IP addresses. Also **Up to 10 different FlexWATCH Manager or FlexWATCH Manager Viewer program** can simultaneously access to the same video sources. Therefore, you can build up centralized or decentralized remote monitoring and security solution in flexible ways. **Highlighted quick video** display can be achieved by doubling clicking on an image to closely view specific camera.

#### Scalable System for Medium or Large sized Monitoring

Number of video cameras can easily be added with good scalability. If you have 16 cameras in your premise and want to add more cameras, simply add FlexWATCH network camera and control them through FW-Manager. No needs for complicated video cablings and buying other costly DVR equipment.

#### **Cost Effective & Easy Installation**

FlexWATCH Manager is designed to work with any FlexWATCH Server series. Thus, **once FlexWATCH Network servers are connected to the network at any site in your premise or global facility, you can control multiple videos over the TCP/IP network**. You are completely free from complicated coaxial cabling and maintenance.

#### **Powerful Recording Options and Playback**

FlexWATCH Manager provides powerful tools to record and playback multiple compressed video feeds from multiple FlexWATCH servers in a secured control room. **Scheduled, Event Alarm, Software motion detection and Forced recording options are provided** and you can search all archived video by server or camera for the specific time. **Remote playback of archived video in the FlexWATCH Manager over the TCP/IP network** is also possible through FlexWATCH Manager

remote player software.

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#### Easy Camera Relocation and Easy Upgrade

Unlike conventional DVR system which requires dedicated and complicated video cabling to relocate camera location and sometimes hardware upgrade to enhance system performance, you can easily relocate camera location by simply connect it to other network or easily upgrade system by software enhancement.

#### Expandable Storage Options Using Networked HDD

Either dedicated **PC HDD or Network HDD** can be used as a storage device. Thus, you can easily extend your storage capacity depending on your recording needs. No need to stick to dedicated PC HDD anymore

#### **External Device Control**

FlexWATCH Manager enables you to **control not only live video but also Pan/Tilt/Zoom device** and **Relay output device** connected to FlexWATCH server over the network in a remote security room. This enables you to easily verify any alarm driven video and control relay output device over the TCP/IP network.

#### **Complete Windows based Application**

FlexWATCH Manager is Windows based application software. You can control all the functions by a mouse. And it provides you with user friendly interface for easy video control. (Window 2000, Windows 2000 Professional SP4, Windows XP Professional SP2 support)

#### **Next Generation of Security Solution**

TCP/IP based video management solution is becoming one of industrial trend as a state-of-theart next generation of remote monitoring and security solution which can seamlessly replace your analog solution. FlexWATCH Manager makes your investment more valuable and durable to cope with future challenge by adopting next generation of solution.

#### **10 Multi languages Support**

FlexWATCH Manager supports Korean, English, Germany, Spanish, Portuguese, Italian, Japanese, Traditional Chinese, Simplified Chinese, and Turkish.

#### **Dynamic IP Support by AOIP server**

FlexWATCH Manager works with AOIP server to support FlexWATCH servers with dynamic IP address.

#### **Dual Monitor Support**

If you use a graphic card supporting dual monitor, you can manage dual screens.

#### H/W Motion Detection Support for Linux based models

If H/W motion detection function of FlexWATCH 3.0 product is enabled, FlexWATCH Manager can record motion driven recording without S/W motion detection.

#### NAM (Network Alarm Manager) Support

FlexWATCH Manager 2.5 or higher version can work with FW-NAM. When an event is occurs, you can see video in a pop-up window.

### **ISENS System Support**

FlexWATCH Manager 2.6 or higher version can work with ISENS System. For more questions about ISENS, please contact us at <u>sales@flexwatch.com</u>.

### **All Property Setting Support**

FlexWATCH Manager 2.6 or higher version supports All Property Setting, meaning that you can change all the setting values for Camera Status, Image Configuration, Recording Condition, etc at once.

#### **Joystick Support for PTZ control**

FlexWATCH Manager 2.6 or higher version supports a Joystick for PTZ control.

#### **MPEG4 model Support**

FlexWATCH Manager 3.0 or higher version supports MPEG4 models.

	N	VS	N	/S	N	VS	N	VS	N	VS	N	/S
H/W Spec	16	ich	25	ch	36	Sch	64	ch	12	8ch	256	6ch
	2k	ХР		ХР	2k	ХР	ХР	2k	ХР		ХР	ХР
VVIN 0/5	SP4	SP2	28 324	SP2	SP4	SP2	SP2	SP4	SP2	28 374	SP2	SP2
CPU	P4 2.	8GHz	P4 3.(	) GHz	P4 3.	2GHz	Xe Dua	eon Il 3.0	Xe Dua	eon Il 3.0	Xe Dua	on I 3.0
Memory	512M o	r above	512M o	r above	512M o	r above	1G or	above	1G or	above	1G or	above
Graphic					Granhi	o oord wit	h 129M o	rahovo				
card					Graphi		.11 120101 0	I above				
CD Rom					ye	s ( option	al CD R	W)				
Monitor			19" or	above					21" or	above		

### Hardware & Software Specification for FW Manager

### **User Manual**

#### **Supporting Video Server**

- All FlexWATCH IP Network camera and Video server series
- Firmware version 2.0 or later.

### Camera Display

- Drag & drop
- Max 256 channel display per each group support
- Auto calibration to window display.
- Multiple camera group mode & sequential display.

#### PTZ Device Control

- PTZ control on image
- PTZ control on separate PTZ menu
- Auto position on warning condition status.
- 32 Preset control

#### Video Recording

- Time schedule / Manual recording by event, Software motion detection
- 2 location setup option for motion detection.
- Using video database.

#### System Log Window

Display system log message

#### <u>Security</u>

• Password protection for discretion access.

#### **Display and Recording Performance**

- Display only : Max 480 fps
- Recording only : Max 1000 fps
- Display & Recording Recording : 1000fps & Display : 480fps

#### Video Playback

- Support search video data and playback.
- Remote playback function by FlexWATCH Manager.
- Quick and easy search of each server and camera by time condition.

#### **Disk Management**

- Support using local HDD and network HDD.
- Option to disk circulation / stop at HDD full
- Recording space modification for record.

### File Backup

- Support editing recorded video file name.
- Conversion to AVI files for Windows media player.

#### Server status screen

• Display server status, alarm status and recording status.

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Models	Channels	Туре	FPS / Channel	Required Bandwidth	Remarks
FW 1110	4.01-	NTSC	30fps	2.4Mbps	Network
FW 1150A         1Ch           FW 1160         100	1Cn	PAL	25fps	2.4Mbps	Camera
ENV 2440 A	106	NTSC	30fps	2.4Mbps	
FW 3110A	TCh	PAL	25fps	2.4Mbps	Network
EW 2440	4Ch	NTSC	30fps	9.6Mbps	Video Server
FW-3440	4011	PAL	25fps	9.6Mbps	
EW 5440	6Ch	NTSC	15fps	4.8Mbps	Network
F VV-344U	0011	PAL	12fps	4.8Mbps	Recorder

### Frame Rate & Required Bandwidth Table

\*All tests executed under the local network environment and File size is set to 352 X 240 (10KBps, NTSC) and 352 x 288(12KBps, PAL) and quality is set to normal.

### File Size and HDD Capacity for Recording

The following table shows you the file sizes and HDD capacities for recording video data from FlexWATCH network cameras and video servers.

Туре	Resolution	File Size	Required HD	DD Capacity		
			1Ch	4Ch	8Ch	16Ch
NTSC	176X112	4KBps	2.5GB	10GB	20GB	40GB
	352X240	10KBps	6GB	24GB	48GB	96GB
	704X480	30KBps	18GB	72GB	144GB	288GB
PAL	173X114	5KBps	3GB	12GB	24GB	48GB
	352X 288	12KBps	7GB	28GB	56GB	112GB
	704X 576	40KBps	24GB	96GB	192GB	384GB

\* Above HDD capacity is based upon recording 1 frame/sec for 7 days and 24 hours.

### The Formula for Calculation of HDD capacity usage

HDD capacity usage can be calculated by the below formula. File size can de different by the quality of video image. It is required to find a file size of JPEG image by snapshot option.

File Size x FPS X # of Ch x Period (60sec x 60Min x 24hrs x days)

# 1.3. Application

The application of FW-Manager is limitless when it is combined with FlexWATCH server series and other supporting products from Seyeon Tech Co., Ltd. FW-Manager enables you to flexibly and easily

design medium to larger remote monitoring and security solution in a cost effective manner. The followings could be recommended application areas with FW-Manager.

- Centralized local facility monitoring and recording such as Building, Airport, Plant, Dam and Shipyard.
- Centralized remote facility monitoring over the Internet such as Unmanned facility of Telco, Chain store, Gas Station, Branch Office & construction site
- Security Alarm Company for visual security and alarm verification
- System Integration for small to large sized facility



# 2. Software Installation and Installation

## 2.1. FlexWATCH Manager Installation

FlexWATCH Manager is a commercial program and it uses a key to prevent illegal copies. A Product Key or USB Serial key can be used. This chapter describes the installation by a Product Key and a USB Key.

### 2.1.1. Installation with a Product Key

A) Insert the FlexWATCH Manager CD into your CD-ROM drive in your PC, and open "My Computer".

📜 My	Comp	uter							- 0 ×
File	Edit	View	Favorites	Tools	Help				-
<b>G</b> В	Back ↔	.0	1	Search	🜔 Folders	1 🕼 🍞	×	-	
Addres	ss 🧕	My Cor	nputer					-	🔁 Go
📕 3 <del>1</del> F	Floppy (	A:)		⇔Loca	l Disk (C:)		FW_Mana	ger (D:)	
•	10000								•
Free S	pace: O	bytes	Total Size:	16,6 MB			🚽 My Com	puter	11

*B)* Select CD-ROM drive and execute the proper FlexWATCH Manager Installation file that matches to your product key.

😳 FW_Manager (D:)				- 0 ×
File Edit View Favorites	Tools Help			<b>.</b>
🔇 Back 🖌 🕥 🖌 🏂 🌙	🔍 Search 🛛 🍋 F	olders 🔝	× 🖌 🖽 ·	
Address 💽 D:₩			•	🔁 Go
Name 🔺	Size	Туре	Date Modified	1
3,00,01_fwmng_64ch	8,263 KB	Application	8/13/2007 5:40 PM	1
0 3,00,01_fwmng_256ch	8,420 KB	Application	8/13/2007 5:39 PM	1
2 objects		16,2 MB	3 My Computer	1

*C)* Installation wizard will start install program. Click "Next" button.

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**D)** Read agreement about FlexWATCH Manager and select 'I accept the terms in the license agreement' and click "Next" button.

FlexWATCH Manager 3,00,01 Setu	ıp		- 🗆 ×
License Agreement Please review the license terms before installi	ing FlexWATCH M	anager 3.00.01.	
Press Page Down to see the rest of the agree	ement.		
NOTICE TO USER: THIS IS A USING CONTR. PLEASE READ THIS CONTRACT CAREFULLY. THE USING ALL OR ANY PORTION OF THE SC TERMS AND CONDITIONS OF THIS AGREEM AGREEMENT IS ENFORCEABLE LIKE ANY WR YOU. JF YOU DO NOT AGREE, DO NOT USE SOFTWARE ON TANGIBLE MEDIA (e.g. CD) ' THIS LICENCE AND YOU DO NOT ACCEPT TH RFFI IND OF THE AMOUNT YOU ORIGINALLY.	ACT NOT A PURCI OFTWARE MEANS ENT AND YOU AGE ITTEN NEGOTIAT THIS SOFTWARE WITHOUT AN OPP IIS AGREEMENT, PAID TE YOU: (A	HASING AGREEMENT YOU ACCEPT ALL TH REE THAT THIS ED AGREEMENT SIGN . IF YOU ACQUIRED ORTUNITY TO REVIE YOU MAY OBTAIN A YOO NOT LISE THE	HE NED BY THE W
If you accept the terms of the agreement, se agreement to install FlexWATCH Manager 3.0	elect the first optic 10.01. Click Next (	on below. You must a to continue.	ccept the
C I accept the terms in the License Agreeme	ent		
<ul> <li>I do not accept the terms in the License A</li> </ul>	Igreement		
exWATCH Install System			
	< Back	Next >	Cancel
	< Back	INEXT >	Cancel

E) In this page you can create icons in desktop, start menu, start program and shortcut by selecting each menu. Select shortcut icons and click "Next" button.

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# FlexWATCH Manager

D FlexWATCH Manager 3,00,01 Setup	- 🗆 🗙
Select Additional Tasks Which additional tasks should be performed?	3
Select the additional task you would like setup to perform while installing FlexW then click Next	атсн,
Make Icon	
🔽 Make Desktop Icon	
🔽 Make Start Menu Icon	
🔽 Make Start Up Icon	
🔽 Make Quick Launch Icon	
FlexWATCH Install System	
< Back Next >	Cancel

F) Select the destination folder for FlexWATCH Manager. The default location is 'C:\Program
 Files\Seyeon Tech\FlexWATCH Manager'. You can change the location to another folder if
 you want, but the default location is recommended. Click "Next" button.

😳 FlexWATCH Manager 3,00,01 Setup	
Choose Install Location	<b>1</b>
Choose the folder in which to install FlexWATCH Manager	3.00.01.
Setup will install FlexWATCH Manager 3.00.01 in the folio folder, click Browse and select another folder. Click Next t	ving folder. To install in a different o continue.
Destination Folder	RT BTOWSE
Space required: 61.2MB	
Space available: 32.2GB	
FlexWATCH Install System	
< Bac	< Next > Cancel

*G)* Select "Product Key" and input the product key then click "Next" button.

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# FlexWATCH Manager

Thexmaticit Manager 3,00,01 Set	up	
Key type Page This is a page which key type		
Select the key type, then click Next		
Product Key		
C USB Serial Key		
exWATCH Install System	read Nexts	c
		Cancer
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FlexWATCH Manager 3,00,01 Sett Product Key Page	up	
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FlexWATCH Manager 3,00,01 Set Product Key Page This is a page which input Product Key. Please input Product Key	up.	

(F

To issue the product key, please access to <u>http://www.goodskey.com</u> and then input the coupon number attached to software CD and MAC address of installed Ethernet card on user's PC to install FlexWATCH Manager. For more detailed information, please refer to the guideline on <u>www.goodskey.com</u>.

## **User Manual**

(F

The Product Key cannot be reissued, so print out the screen shot of the product key and keep it carefully.

stalling lasca wait while ElexWATCH Mapager 2,00,01 is	boing installed	
lease wait while Plex wATCH Manager 5,00,01 is	being installed.	2
xtract: 17inch HasNoChannel.hmn 100%		
Extract: 15inch_bg_left.bmp 100%		*
Extract: 15inch_bg_right.bmp 100%		
Extract: 15inch_bg_top.bmp 100%		
Extract: 15inch_controlarea.bmp 100%		
Extract: 15inch_HasNoChannel.bmp 100%		
Extract: 17inch_bg.bmp 100%		
Extract: 17inch_bg_btm.bmp 100%		
Extract: 17inch_bg_left.bmp 100%		
Extract: 17inch_bg_right.bmp 100%		
Extract: 17inch_bg_top.bmp 100%		
Extract: 17inch_controlarea.bmp 100%		
Extract: 17inch_HasNoChannel.bmp 100%		-
		1022
WATCH Testell Costem		
WATCH TIRES SACENT		

*H*) Click "Finish" button to finish the installation of FlexWATCH Manager.



### 2.1.2. Installation with a USB Serial Key

A) Insert the FlexWATCH Manager CD into your CD-ROM drive in your PC, and open "My Computer".

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*B)* Select CD-ROM drive and execute the proper FlexWATCH Manager Installation file that matches to your product key.

💽 FW_Manager (D:)				- 🗆 ×
File Edit View Favorites	Tools Help			<b>.</b>
🕝 Back 🔹 🕥 - 🏂 🎾	) Search   🌔 Fi	olders 🔝 👔	× 🍤 📖	
Address 💽 D:₩				> Go
Name 🔺	Size	Туре	Date Modified	r
😳 3,00,01_fwmng_64ch	8,263 KB	Application	8/13/2007 5:40 PM	-
0 3,00,01_fwmng_256ch	8,420 KB	Application	8/13/2007 5:39 PM	
2 objects		16,2 MB	🚽 My Computer	11

*C)* Installation wizard will start install program. Click "Next" button.



**D)** Read agreement about FlexWATCH Manager and select 'I accept the terms in the license agreement' and click "Next" button.

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# **FlexWATCH Manager**

FlexWATCH Manager 3,00,01 S	etup		2
License Agreement Please review the license terms before ins	stalling FlexWATCH Ma	nager 3.00.01.	
Press Page Down to see the rest of the ag	greement.		
NOTICE TO USER: THIS IS A USING CON PLEASE READ THIS CONTRACT CAREFUL THE USING ALL OR ANY PORTION OF THI TERMS AND CONDITIONS OF THIS AGREU AGREEMENT IS ENFORCEABLE LIKE ANY YOU. IF YOU DO NOT AGREE, DO NOT U SOFTWARE ON TANGIBLE MEDIA (e.g. C' THIS LICENCE AND YOU DO NOT ACCEPT REFUND. OF THE AMOUNT YOU CONGINAL	ITRACT NOT A PURCH LY. E SOFTWARE MEANS IEMENT AND YOU AGR WRITTEN NEGOTIATE JSE THIS SOFTWARE. D) WITHOUT AN OPPY I THIS AGREEMENT, Y I LY PAID TE YOU!: (A)	ASING AGREEMENT. YOU ACCEPT ALL THE EE THAT THIS D AGREEMENT SIGNED IF YOU ACQUIRED TH ORTUNITY TO REVIEW OU MAY OBTAIN A DO NOT USE THE	) BY Æ
If you accept the terms of the agreement agreement to install FlexWATCH Manager	, select the first option 3.00.01. Click Next to	n below: You must acce o continue.	ept the
C I accept the terms in the License Agree	ement		
<ul> <li>I do not accept the terms in the Licens</li> </ul>	se Agreement		
sxWATCH Install System			
exWATCH Install System	< Back	Next > 1 C	ancel

E) In this page you can create icons in desktop, start menu, start program and shortcut by selecting each menu. Select shortcut icons and click "Next" button

🔕 FlexWATCH Manager 3,00,01 Setup			_ 🗆 🗙
Select Additional Tasks Which additional tasks should be performed?			
Select the additional task you would like setup then click Next	) to perform wh	ile installing FlexWA	лсн,
Make Icon			
🔽 Make Desktop Icon			
Make Start Menu Icon			
🔽 Make Start Up Icon			
🔽 Make Quick Launch Icon			
FlexWATCH Install System	< Back	Next >	Cancel

F) Select the destination folder for FlexWATCH Manager. The default location is 'C:\Program
 Files\Seyeon Tech\FlexWATCH Manager'. You can change the location to another folder if
 you want, but the default location is recommended. Click "Next" button.

# **User Manual**

FlexWATCH Manager 3,00,01 Setup	_ 🗆 ×
Choose Install Location Choose the folder in which to install FlexWATCH Manager 3.00.01.	
Setup will install FlexWATCH Manager 3.00.01 in the following folder. To in folder, click Browse and select another folder. Click Next to continue.	stall in a different
P. M. H. Fills	
Destination Folder	Browse
Destination Folder  C:\\Program Files\\Seyeon Tech\\Flex\WATCH Manager  Space required: 61.2MB	Browse
Destination Folder           C:\\Program Files\\Seyeon Tech\\Plex\WATCH Manager           Space required: 61.2MB           Space available: 32.2GB	Browse
Destination Folder  C:\\Program Files\\Seyeon Tech\\Flex\WATCH Manager  Space required: 61.2MB Space available: 32.2GB  ley\WATCH Install System	Browse

*G)* Select "USB Serial Key" and input the product key then click "Next".

😳 FlexWATCH Manager 3,00,01 Setu	p		_ 🗆 🗙
Key type Page This is a page which key type			
Select the key type, then click Next			
C Product Key			
USB Serial Key			
FlexWATCH Install System			
The way of the second	& Pack	Marta	Canad 1
	< Back	Next >	Cancel

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*H*) Please input the Serial Number written on USB Serial Key and click "Next".



If the driver of USB Serial Key is not installed, please check on 'Do you want to install the Sentinel System Driver?' Otherwise, uncheck it and Click "Finish" button.

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Following is the procedure of Sentinel System Driver installation.Click "Next" button.



*J*) Read the license agreement of Sentinel System Driver, select 'I accept the terms in the license agreement' and click "Next" button.

😼 Sentinel System Driver - InstallShield Wizard	X
License Agreement Please read the following license agreement carefully.	
All Products (including developer's kits, Sentinel hardware keys, diskettes or other magnetic media, software, documentation and all future orders) are subject to the terms stated below. If you disagree with these terms, please return the Product and the documentation to Rainbow, postage prepaid, within three days of your receipt, and Rainbow will provide you with a refund, less freight and normal handling charges.	
authorized in item 2 below. Removal, emulation or reverse-engineering of all or any part of the Product constitutes an unauthorized modification to the Product and is	~
I accept the terms in the license agreement     I go not accept the terms in the license agreement	
Cancel	

*K*) Select "Complete" and click "Next".



#### *L)* Click "Install" button.

🔂 Sentin	el System Driver – InstallShield Wizard 🛛 🛛 🔀
<b>Ready to</b> The wiza	Install the Program Ind is ready to begin installation.
Click Insl If you w exit the	tall to begin the installation. ant to review or change any of your installation settings, click Back. Click Cancel to wizard.
IMPOR Please	TANT: remove all USB SuperPro keys before continuing!
InstallShield -	
	< Back Install Cancel
🛃 Sentin	el System Driver - InstallShield Wizard
<mark> 🛃 Sentin</mark> Installing	el System Driver – InstallShield Wizard
Bentin Installing The proc	el System Driver – InstallShield Wizard
Benting Installing The proc	el System Driver – InstallShield Wizard
Benting Installing The prog	el System Driver – InstallShield Wizard
i Sentin Installing The prop	el System Driver – InstallShield Wizard
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Installing The proc	el System Driver - InstallShield Wizard
Installing The proc	el System Driver - InstallShield Wizard
Installing The proc	el System Driver - InstallShield Wizard
Installing	el System Driver - InstallShield Wizard

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*M*) Click "Finish" to finish the installation of Sentinel System Driver (USB Serial Key).

### 2.1.3. Reinstallation and Upgrade

For reinstall and upgrade, just install the program as the installation procedure.

### 2.2. FlexWATCH Manager Backup

You can backup all the property information in FlexWATCH Manager. The backup folders include "config" and "profile" under FlexWATCH Manager installed folder. Thus, if you backup these folders and replace the original folders of the newly installed FlexWATCH Manager with these backup folders, you can reuse the property information of the previous FlexWATCH manager.

If there is much property information, please backup the related folders and files for your system safety in case of H/W problem.



'config' folder is located in c:/Program Files/Seyeon Tech/FlexWATCH Manager. When you backup the "config" folder and apply to newly installed FlexWATCH Manager, the number of Channels should be matched. (Ex: FW-Manger 64Ch). Please notice that all the setting values such as for the HDD Management, Player, and Player Lite will applies as well.

## 2.3. FlexWATCH Manager Uninstallation

A) Execute 'Uninstall FlexWATCH Manager' as below picture.

Start> Program > FlexWATCH Manager > Uninstall FlexWATCH Manager.

-			FlexWATCH	•	
<b>H</b>	Programs	· · · •	📅 FlexWATCH Manager	🕨 🕹	FlexWATCH
Ì	Documents	•		*	FlexWATCH Manager Plaver LITE
12-	Settings	*		(2)	Uninstall FlexWATCH Manager
P	Search				Logviewer K Player
0	Help and Support			4	FwManager Patch Info
	Run				
P	Log Off wooyoung_xp				
0	Turn Off Computer				

Click "Yes" button to uninstall FlexWATCH manager program. The program will be uninstalled automatically.

FlexWA1	CH Manager 3,00,01 Unit	nstall		×
?	Are you sure you want to c	completely remove	FlexWATCH Manager	3,00,01 and all of its components?
		Yes	No	

B) Click "OK" button to finish the uninstallation.



# 2.4. 'USB KEY\_LOCK' Driver Uninstallation

# P

A)

If you installed FlexWATCH Manager with a Product Key, the driver wasn't installed

Open Control Panel on Windows.

Start > Settings > Control Panel



*B)* Select "Add/Remove Programs" on Control Panel.

🗲 Control Panel	Control Panel
File Edit View Favorites Tools Help	File Edit View Favorites Tools Help 🧤
🔾 fext = 🚫 - 🏂 🔎 Search 🌔 Folders 🔟 •	(3 🖙 - (3) - 🌮 🔎 Search 🐑 Folders 💷 -
Address 🕼 Control Panel 👻 🔂 60	Address 🔂 Control Panel
Image: Control Field   Image: Control Field	Control Parel       Image:

(Category view in Windows XP)

(Classic View in Windows XP as Windows 2000)

*C)* Select "Sentinel System Driver" and click "Remove" button.

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Add or Rei	move Programs			
5	Currently installed programs:	☐ Show up <u>d</u> ates	Sort by: Nan	ne 👱
Change or Remove	of FlexWATCH Manager 3,00,01		Size	191,00MB
Filograms	FlexWATCH Voice Control 3.0			
- <b>-</b>	FlexWATCH Voyager Control 3,0			
Add New	🛃 FTDI USB Serial Converter Drivers			
	🞕 FwVoyager IE-A		Size	0,90MB
<b>1</b>	🛃 Macromedia Flash Player 8			
d/Remove	📴 Microsoft Office Professional Edition 2003		Size	491,00MB
Windows	PCI Audio Driver			
	🛃 Sentinel System Driver		Size	<u>0,60MB</u>
	Click here for support information,		Used	<u>rarely</u>
t Program cess and	To change this program or remove it from your compl	uter, click Change or Remove,	Change	Remove
	nagit32 v4,3		Size	3,00MB
	🔳 Van Dyke Technologies CRT 3,3		Size	3,27MB
	😸 Windows Installer 3,1 (KB893803)			
	🙀 Windows XP Service Pack 2			
	AccureWeb Control		Size	4,07MB
	KA 알FTP		Size	4,12MB

Click "Yes" button.

Add or I	Remove Programs	×
2	Are you sure you want to remove Sentinel System Driver from your co	mputer?
	Ves No. 1	

-If you click "Yes", the driver will be removed automatically, and "**Sentinel System Driver**" would be removed from the list.

# 3. Operation Guide

### 3.1. Running FlexWATCH Manager

Run the program by selecting "FlexWATCH Manager" program as shown below.

Windows start> All Programs > FlexWATCH Manager > FlexWATCH Manager.

	-	-	1	MSN Explorer	L	
		Programs •	6	FlexWATCH Manager 🔹 🕨	۲	FlexWATCH
		Documents •	T		٩	FlexWATCH Manager
- -						Player LITE
na	4	Settings •	· I		$\odot$	Uninstall FlexWATCH Manager
essio		Search +	•		Ф	FwManager Patch Info
Profe	0	Help and Support				
s XP		Run				
wopu	$\square$	Log Off wooyoung_xp				
Š	0	Turn Off Computer				

## 3.2. Brief Description of FlexWATCH Manager Window

If you run the program for the first time, the following program window will be appeared and you need



Program

Tool

### **User Manual**

to configure the system following the configuration guide described in this manual. You can configure and control the program using user friendly ICONs provided in the program.



- A) Program Tool Bar: <a>Image: Image: Ima
- Server Registration Window: To show server registration window in the program and register FlexWATCH server and configure server related configuration such as Beep Alarm, DO control and etc. You can turn on/off this window from the program once configuration is done by double clicking this Icon.
- Display Control Window: To show camera group and configure camera related configuration such as Recording, PTZ and etc. You can turn on/off this window from the program once configuration is done by double clicking this Icon.
- **Camera Status Window**: To show camera, event, recording status. You can turn on/off this window from the program once configuration is done by double clicking this lcon.
- System Log Window: To show system log message triggered by user defined event. You can turn on/off this window from the program once configuration is done by double clicking this Icon.
- **Launch Player Lite for Simple Search & Playback:** to run the Player Lite program to search & playback the recorded video based on each server.
- Launch Player for Search & Playback: To run the Player to search & playback the recorded

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video.

- **Log Viewer**: To run the log viewer to search recorded logs.
- Access Level Control: To change access level to Admin mode from User level and vice versa.
- Full Screen mode : Normal DVR interface mode
- Window Full Screen mode: Only to display the registered cameras
- Let **Voice Icon** : To activate voice connection to the selected sever and camera
- Volume control : To control speaker and Mic volume for Voice connection
- **Program Info** : To check program version & publisher
- Server Registration: By clicking this ICON, you can run server registration widow and register new FlexWATCH in the program.
- Disk Manager: To assign PC's HDD for FW-Manager recording.
- **Admin Password**: To set up Admin Password for the system configuration.
- Description: To configure log message scenario to be archived.
- Beep Alarm Off: To manually turn off Beep Alarm.
- Manager Properties: To configure configuration such as AOIP server, Total Display speed, Remote Playback service, etc.
- *C)* Server Related Tool Bar: 🔤 🖻 🏠 💰 🖥 This tool bar is to provide easy interface to control server related options.
- Server Deletion: To delete a registered FlexWATCH server from the FW-Manager program. Note if you execute this, cameras connected to the FlexWATCH server will be deleted.
- **Camera addition** : To add all cameras to an active camera group
- **Go home page**: Shortcut to home page of registered FlexWATCH server.
- Relay Output Control: To control relay output connected the FlexWATCH server.
- **Server Properties**: To change the server information and configure beep alarm or DO condition.
- D) Camera Related Tool Bar: Im Image This tool bar appears when you select a camera in the Server registration window. Camera Property setting can be done from either Camera related tool bars in the Server and Camera registration window.
- Join Camera: To join selected camera from registered server to an active camera group. To do this, there must be an active camera group, which is created by a user.
- Manual Recording: To manually start recording live video stream regardless recording condition.
- **Camera Properties**: To configure camera related configuration such as Camera name change,

Video quality, Recording condition and motion detection area.

- *E)* Display Control Tool Bar: & Ø you can see these icons when you click 'Group Mode'.
- Camera Group Registration: To create an active camera group to which registered cameras will be joined and displayed on the screen.
- Camera Circulation: To sequentially display registered cameras in the different camera groups. This option is valid when there is more than 1 camera group is created. You can set up the Camera Circulation dwelling time in the properties of a group.
- F) Camera Group Tool Bar: Solution Set to the set of the set
- Camera Group Deletion: To delete a selected camera group. If you execute this, cameras in the camera group will be deleted. But camera and its recording configuration will still be remained in the program unless you manually change or delete them in the server registration section.
- **Group Properties**: To change camera group information such as a group name and circulation dwelling time.
- Camera Circulation : Refer to Camera Circulation in E)
- *G)* Camera related Tool Bar: <sup>129</sup> **6** *4* you can see these icons when you select a camera in a camera group.
- **<u>Camera Deletion</u>**: To delete a selected camera from a camera group.
- Camera Properties : To change camera related information such as Camera info, recording condition, motion detection area and Etc.
- Camera Circulation : Refer to Camera Circulation in E)

## 3.3. ACCESS Level and Password Setup

### 3.3.1. ACCESS Level

FlexWATCH Manager provides two different levels of program access. One is **Admin level**, which enables you to configure and to control the program without any restriction. The other one is **User level** to which only limited control authority will be provided.

By using Access Level option, you can limit the control of FlexWATCH and only the Admin level user can configure and manage the program.

The followings are authority provided to each level.

Administrator Level	User Level					
- Camera monitoring						
- Camera Group Selection						
- Circulation mode						
- Recorded video playback by the player or log viewer mode.						
- FlexWATCH Manager Shutdown						
- Sever Registration menu access						
- Camera Registration and Deletion						
- Group Registration and Deletion						
- Network Alarm Manager Setup						

- When the FlexWATCH Manager is run for the first time, it starts with User. However, since Admin Password is not set at the beginning, you can freely switch to Admin Level by clicking  $\mathfrak{E}$ (Switch Level Icon). Access level will be activated only after you set up Admin Password in the Server Registration Window. Pressed Switch Level Icon means Administrator Level while Unpressed Switch Level Icon means User Level.

### A) Switch Admin Level to User Level

If the Switch Level Icon is pressed, it means you are in Administrator mode. If you click the 🕾 (Switch Level Icon) once again, the access level is switched to User level as shown below.



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Admin Level

User Level

Notice) As long as you are in User Mode, you will not see the Server Registration menu.

### B) Switch User Level to Admin Level

If 😂 Switch Level Icon is unpressed you are in User Mode. If you click the Switch Level Icon, the following pop-up window will come up. And you need to enter the Admin Password if the Admin Password is set up before. Otherwise access level is switched to Admin level without asking you Admin Password.



### 3.3.2. Admin Password Setup

You can set up the Admin Password only in **Admin Level.** If you are in User Level, please switch to Admin Level by clicking 🖾 Icon. Please click Server Registration Window Icon 🔝 to view the Server Registration Menu. To set up or change Admin Password, please click 🔮 (Edit Password Icon).

Notice) If you can't find **b**, please click on Manager located on the top of the Server Registration tree in the Server Registration menu.



[Edit Admin Password] Please enter Current password, new password, and the new password again for the confirmation. After entering all the required fields, please click OK button.

un Aunin Passworu	
Old Password:	
New Admin Password:	
Confirmation:	
in the second second	
OK Cancel	

Since FlexWATCH Manager has Admin Password, if you are in User Level, you have limited access to FlexWATCH manager.

If you lost your Admin password, there is no way to recover the password except deleting all the configuration files and reinstalling the program. Thus, you are strongly recommended to make a note for Admin password. In case you lost your admin password, please consult with your local distributor or the manufacturer before doing any action.

# 3.4. HDD Disk Manager Configuration

Disk manager is to select HDD and allocate recording space for FlexWATCH Manager. **PC Hard Disk Drives or Network Hard Disk Drives** can be used as recording HDDs by the program. If you would like to extend HDD disk space, we recommend you to use Network HDD.

By using this option, you can properly manage your HDD as following ways.

- To circulate HDDs when the disk is full
- To add other HDDs in you PC or Network HDDs to increase your recording capacity
- To specify recording space used by the program so that you can reserve HDD space for other program use.
- E-mail alert for HDD failure or before full
- HDD space status at a glance

### 3.4.1. Required HDD Capacity Calculation

You need to calculate required HDD capacity to record video for the specific time frame and need to equip enough HDD equipment in your PC or in your network.

If you change Hard Disk Drive in the middle of recording video, recorded video data

*in the removed Hard Disk Drive can not be searched through normal search mode. Thus, you need to carefully set up HDD configuration.* 

### 3.4.2. HDD Configuration

You can calculate the required HDD capacity as following formula. A file size can be varied in accordance with its video quality. Thus you need to check the file size in JPEG by Snapshot option. In general, the normal JPEG image file size is 10K ~ 12K byte.

### File Size x FPS X # of Ch x Period (60sec x 60Min x 24hrs x days)

- A) Click [Disk Manager] Icon and or use right mouse button in the Server control window to start Disk manager.
- B) Assign HDD into **Enabled Driver** window and press Apply button.

Disk Manag	er				X
	Install	ed Drives		Enabl	ed Drives
Dr Type E:₩ HDD	Drive Size 38.34 GB	Free Size 36.48 GB	Quota Size 33.55 GB	Current→ Cr Tyj C\₩ HE	pe Quota DD 16.07 Gl Up Down
Information * Usage: * Start Time: * End Time:	0.0% 2007/06/151 2007/10/181	13:23:20 18:00:33		Circular *Email Se	ion Invice Config

	Menu	Description
Installed Drives	Drive	List up of HDD Drive configured in the PC. Event
		Network Drive can be used.
	Туре	Indicate Type of HDD Drive
		(HDD : Local HDD Drive)
		(REMOTE : Network HDD Drive )
	Drives Size	Total size of respective HDD
	Free Size	Available HDD size which can be used for
		recording. Note that Free size must be higher than
		3GB to record any frame in the HDD.
	Quota Size	HDD size for recording. You can adjust Quota size
		by clicking Quota size.
		Quota size must be higher than 1.2GB
		Note : ( Free Size > Quota Size )

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Enabled Drives	Drive	Assigned HDD list for recording.
	Туре	Drive Type
	Quota Size	Size of HDD for recording
Information		Displays Disk Usage, Recording Start time, and
		Recording End time
e-Mail Service		E-mail service for HDD recording problem, HDD
		space alert, or periodic recording status report
Others	Circulation	FIFO (First In, First out) Based disk circulation
		option, if all available drives are full.
	Up	Change the sequence of HDD for recording.
		Select the drive and place it to one level up to
		record
	Down	Select the drive and place it to one level down to
		record
	=>	Add a HDD in the installed drives section to the
		enabled drives section.
	<=	Move back a HDD in the enabled drives window to
		the installed drives section.

### 3.4.3. Installed Drives

Installed Drives show all the Drives in your PC. **REMOTE** indicates network HDD which are mapped to your PC. It shows total HDD capacity and free size. Quota size is to allocate HDD for recording. Once Quota size is configured, you need to put it to [**Enabled Drives**] list.

	Install	ed Drives			Enable	d Drives	
Dr Type E.₩ HDD	Drive Size 38.34 GB	Free Size 36.48 GB	Quota Size	- Current-> => <=	Dr Type C.₩ HDD	Quota 0 16.07 GI	Up Down
Information * Usage: * Start Time * End Time:	0.0% : 2007/06/151 2007/10/181	3:23:20 8:00:33			Circulation	in /ice	Config

# (F

Note that if you would like to use Network HDD drive in your network, you need to

map the network drive to your PC so that that HDD can be recognized by Disk Manger program.

### 3.4.4. Enabled Drives

This is to show the HDD list which to be used for recording. If multiple HDD is enabled, video will be recorded in the registered order of HDD from top to bottom.

If you select [**Circulation**] option, when all the assigned HDDs are full, video will be recorded based on FIFO (First-IN, First-Out).

# (F

Notice that the current recording HDD is indicated by "Current=>". Thus it may look different than the registered order. For example, even if you registered HDDs as C, D and E drives, when the current recording HDD is D drive, it will display as D, E, and C.

### 3.4.5. E-mail service

E-mail for HDD status can be triggered based on following options

- E-mail alert on recording problem
- HDD space alert when the HDD is used up to 70%/80%/90% and 100%
- Periodic report for HDD space and recording start and end time
- a) Click "Config" button in the Email server. Then you will see the pop-up window as shown below.
- b) Select the option field you would like to get information.

<ul> <li>Disable</li> </ul>	C E	Enable		
HDD spac	e alert			
□ 100%	□ 90%	<b>1</b> 80%	□ 70%	
Periodic re	cording statu	is report		
🗆 Sun F	Mon 🗖 T	ue 🗖 We	∃∏ Thu □	Fri ∏ Sat
PM 06:04	.21	-		
PM 06:04	.21			

#### Email alert on recording problem

You can enable the Email alert function for recording problem.

### HDD space alert

This is for when circulation option is not selected. When HDD usage reaches the selected percentage of HDD capacity such as 100%, 90%, 80%, and 70%, FlexWATCH Manager will send you an email.

### Periodic recording status report

Once a day, FlexWATCH Manager will send you an email including HDD usage, recording start time & end time. You can choose day & time.



E-mail account must be configured in the Server property window to activate e-mail alert feature.

If you would like to temporally disable e-mail feature keeping all e-mail setting, please following below procedure.

- Select "Log Selection"
- Click Details button in "Etc category" in the Log selector window
- Uncheck "Some information sent by e-mail" filed.

# 3.5. Log Message Configuration

You can configure log message scenario from the log Selector which defines log message scenario to be archived in the system DB so that system log which comply with predefined log scenario will be left when event is happened and that log message can be playback through **Log Viewer Program**.

- a) Click System Log selection Icon from Program tool bar menu to configure log message to be applied. (You can also select Log Selection from the right mouse button menu on Manager.)
- B) Check log message from the classified category you would like to use.

System Category	Details
Server Category	Details
Camera Category	Details
Event Category	Details
Disk Manager Category	Details
Display Window Category	Details
Etc Category	Details

- c) If you Click [**Details**] button, you can see below pop-up window. You can check out predefined log messages by the program.
- d) Select log messages you would like to use from the predefined log messages.

It is recommended to use as little log message as you can to simplify your log search option.

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e) Click "OK" button to apply your configuration.

### 3.5.1. Select Log Message

Log messages show you all the events occurred in FlexWATCH Manager. Please refer to below log message table for detailed information.

#### Svstem Log Scenario

Followings are the system log message list.

Category	Log Message
System	FlexWATCH Manager start
Category	FlexWATCH Manager is shutdown
	New server registration
Samean Catagony	Server deletion
Server Category	Server name change
	Server port number change
	Camera name change
	Recording speed change
	Recording condition change
Comoro	Motion detection condition change
Camera	Camera configuration change
Calegory	Camera addition to display group
	Camera removal from display group
	Camera Group creation
	Camera Group removal

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	Event driven recording start
	Event driven recording stop
Event Category	Motion detection start
	Motion detection stop
	PTZ activation
	PTZ stop
	Beep alarm start
	Beep alarm stop
	Relay output start
	Relay output stop
	The recording disk drive is changed
	HDD configuration changed
	Disk circulation start
	Disk connection fail
Diale Manager	There are no disks to record
Disk Manager	The all assigned HDD space is occupied
Category	There is some error on disk
	The error is detected on disk
	HDD Usage goes over 90%
	HDD Usage goes over 80%
	HDD Usage goes over 70%
Diaplay Window	Server disconnected
Display window	Server reconnected
Category	Video detection fail
	Admin password change
Etc Category	AOIP server address change
	Some information is sent by email

### Launching Player in Log window

System log messages are saved by FlexWATCH Manager whenever there are some changes in registered servers or cameras. You can view this log messages in the log window located in the bottom of the FlexWATCH Manager. If you double click on a log message, FwManager Player will be launched with the time of the log, server ID, and camera ID. You can easily search the archived video at the log event time.

### Tips

If the player is already running, when you double-click on a log message, the information of the log (time, Server ID, Camera ID) will be entered into the player.

### 3.6. All Properties

You can select All Properties in the right mouse button menu on Manager. You can configure Max. Frame Rate, Camera Status Bar Option, Image Size & Quality, Recording condition, Forced Record, etc. You can configure multiple servers & cameras at once.

ll Server & Camera Proper	ty	× X
All Server Property	Maximum Frame Rate Configuration Maximum Frame Rate:	All Cameta Property Cam_1 (Fw(810085)) Cam_2 (Fw(83ee60)) Cam_2 (Fw(83ee60)) Cam_3 (Fw(83ee60)) Cam_4 (Fw(83ee60)) Cam_4 (Fw(83ee60)) Cam_4 (Fw(83ee60)) Cam_4 (Fw(83ee60)) Cam_4 (Fw(83ee60)) Cameta Name Cameta Name Normal Full Normal Recording Condition Configuration Pie-Alarm: 0 (0~5 frames) Post-Alarm: 0 (0~5 frames) Maximum Recording Speed: 15:00 (framet/s) Cameta Name Cameta Name Normal Full Normal Recording Configuration Pie-Alarm: 0 (0~5 frames) Maximum Recording Speed: 15:00 (framet/s) Cameta Name Cameta Name Cameta Name Cameta Name Normal Record Configuration Cameta Name Normal No
News	<b>F</b>	OK Cancel
Name	Functions	Description
	-Selected All	-Select all the registered servers
erver Selection	-Unselected All	-Unselect all the registered servers
	-Maximum Frame Rate	-Configure Max. Frame Rate for server
erver	Configuration	

Configuration

-Receive I Frame

- 45 -

-for MPEG4 only

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С.	-Select All	-Select all registered cameras
Camera Selection	-Unselect All	-unselect all registered cameras
	-Select by channel	-Select Cameras by selected channel
D.	-Camera Status Bar Option	-select the options for the Camera Status
Camera		Bar
Configuration	-Image configuration	-Control the Image Size & Quality
	-Recording Condition	-manage the Recording conditions such
	Configuration	as Always, Schedule only, Event Only,
		and Schedule and Event.
	-Recording Configuration	-control Pre-Alarm & Post Alarm, Max.
		Recording Speed.
	-Forced Record	-select Forced Recording option.
	Configuration	

(P)

If you configure all the servers & cameras by All Properties, all the current setting values will change to the new setting values.



If you want to set the Maximum Recording Speed, you first select the Maximum Frame Rate in All Server Property.

### 3.7. FlexWATCH Manager Properties

You can configure the Total Maximum Display Frame Rate and AOIP (Always-On-IP) in Properties of FlexWATCH Manager. In general, if you use a PC with the specification recommended by this manual, recording rate would not be affected by the display rate. However, if you use low spec. PC and want to use Max. Recoding speed, you need to lower the Display Frame Rate.

If you want to use AOIP service for FlexWATCH products, you need to enter the URL of the AOIP server. The address of AOIP server in Korea operated by Seyeon Tech Co., Ltd. is <a href="http://www.aoip.co.kr">www.aoip.co.kr</a>. This address may be different if your local supplier operates their own AOIP server

By this AOIP server, FlexWATCH network cameras and video servers with dynamic IP address or private IP address can work with FlexWATCH manager.

- A) To view sever registration menu, please click
- B) If you click the properties icon of FlexWATCH Manager <sup>1</sup>C(Or select "Properties" in the right mouse button menu on "Manager"), you can configure the Display Frame Rate and the AOIP

### **User Manual**

server address.

nformation of Manager	x
Full Screen Mode Resolution • 1024 x 768  1280 x 1024 • 1600 x 1200  2048 x 1536	
- Total Maximum Display Frame Rate -	
Window Mode : 40 💌 (fps) Full screen Mode : 30 💌 (fps)	
MPEG4 Dedicated Display I frame only	
Display Dual Monitor	
☐ Fit Image To Window	
Acip Server	
www.aoip.co.kr	
Remote Playback Service	
(On/Off) T NIPP Port : 50000	
Account	
Email Service	-
Setup	
OK Cancel	

#### Full Screen Mode Resolution

You can set the Resolution for the Full Screen mode. Each resolution has different Split Screen when you add a new camera group. (Ex: 1280x1024 dynamic, 6, 9, 12, 15... 33, 36)

(F

If you change the monitor of FlexWATCH Manager installed PC with a lower resolution monitor, please set the Full Screen Mode Resolution to 1024x768. If the new monitor has higher resolution, you do not need to do anything.

#### Total Maximum Display Frame Rate

You can set Display Frame Rate for both Window Mode and Full Screen Mode. This frame rate refers to the total frame rates which FlexWATCH Manager can display for all display channels. The greater the display frame rate, the higher the CPU usage.

Since the performance of the display can be affected by memory, CPU, and graphic card, it is strongly recommended that you use a PC with a recommended specification.

#### MPEG4 Dedicated – Display I frame only

When you only use MPEG4 products, you can display only I frame excluding P frames.

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### **Dual Monitor**

You can use this option when you use 2 monitors. In this case, width: length will be 2:1. If you use the dual monitor option, you can display the FlexWATCH Manager with 2 monitors as one. But you can't use split screen and monitoring mode.

#### Fit Image to Window

Regardless of camera resolution, the display image will be stretched out and will fit to the size of Window.

#### AOIP Server

You need to enter the address of the AOIP server, to which your FlexWATCH servers are registered for dynamic IP support. This address may be different if your local supplier operates their own AOIP server.

#### Remote Playback Service

If you want to Remote Playback Service, enter the NIPP Port number first and then, check On/Off box to enable the service. You also need to create an account by Add button.



You can add up to 5 accounts. If you click "Add", you will get Edit Remote Account window. Please enter a password and click OK.

Remote client can access to the archived video recorded by FlexWATCH Manager through TCP/IP network.

#### ① Enter the NIPP port number and check the On/Off box.

NIPP port is used for the communication between FlexWATCH Manager and remote player. Thus, if default NIPP port 50000 is used by another network device, you need enter an appropriate port number and configure the port forwarding for your router.

(2) To give an authority to a user to access to archived video; you need to create a user account by "Add".

③ You can Add, Delete, Edit the account.

④ If you click "Add" button, you will see Edit Remote Account window. Please enter a desired ID & Password. Please keep the ID&Password in a safe place.

Edit Remote Acc	count 🔀
ID :	
Password :	
Confirmation :	
OK	Cancel

FlexWATCH Manager currently supports up to 5 user accounts. Password will appear as "\*".

### Email Service

FlexWATCH Manager supports Email Service as below.

Service:		Disable	0	Enable
SMTP Server :				
Authentication :		@ Disable	C	Enable
'Email User ID:				
* Email User Pwd:				
* Sender email:				
* Recipient email :	#1			
	#2			
	#3			
* Subject :				
* First Line				

Item	Description
Service	To enable/disable the email service
SMTP Server	Enter the SMTP server address provided by your email service provider.
Authentication	To enable/Disable the authentication option. If this is enabled, you will be asked for your ID&Password.
Email User ID	Enter the user ID for email service
Email User Pwd	Enter the user Password for email service.
Sender email	Enter the address of the sender

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Recipient email	Enter Recipients' email addresses. You can enter up to 3 email
	addresses.
Subject	This will be the subject of an email message sent by FlexWATCH
	Manager. If this is not entered, the default subject will be 'Message
	from FlexWATCH Manager'.
First Line	Enter the first line of an email. If this is not entered, the default
	message will be 'This is generated by FlexWATCH Manager'.

The email service is triggered only when you have following events.

- ① Camera Disconnection
- ② Recording problem
- ③ If FlexWATCH Manager is not under Circulation mode and the used size is more than the percentage you set in Disk Manager (70%, 80%, 90%, 100%)
- ④ If Periodic recording status report is enabled in Disk Manager.

When an email is sent, you will see 'Some information is sent by email' in the log window.

# 4. Server Registration & Property Setting

# 4.1. FlexWATCH Server Registration with Static IP

You can either use ICON or right mouse button menu to start server registration. This option is only for Admin Level. If you are in User Level, you will not be able to see Server Registration Section or El(Server Registration Menu Icon).

- A) Click "Server Registration Menu Icon" 🔠 to show Server Registration menu section.
- B) Click Add server icon 🖾 from the following menu.



*C)* Enter proper server information in the [New Server] window and click "OK".

# **User Manual**

A0IP Function:	<b>—</b>
Server IP Address:	
Server Port:	80
Audio Port:	32001
VSMID:	0 💽 (Kernel=Unknowi
Server Root ID:	root
Server Root Password:	****
Server Model:	
Video Format:	C NTSC C PAL Get Into
Video Format: Server Serial Number:	C NTSC C PAL Get Info
Video Format: Server Serial Number: Server Name:	C NTSC C PAL Get Info
Video Format: Server Serial Number: Server Name: MJPEG Dedicated	NTSC C PAL Get Into     003060000000
Video Format: Server Serial Number: Server Name: MJPEG Dedicated Maximum Frame Rate:	© NTSC © PAL Get Info 00306000000000000000000000000000000000

# **Description of New Server Window**

Item	Description
AOIP Function	To hook up video from Video server registered in AOIP server. You must know
	S/N number of Video server registered in AOIP server and Server should be
	Active status. If you use Static IP, just leave it as it is.
Server IP Address	FlexWATCH Sever IP Address (You can enter either IP address or DNS)
Server Port	Default HTTP port is 80. If a different port is being used, enter proper HTTP
	port number.
Audio Port	Default port value is 32001. This is used for Audio device working with
	FlexWATCH.
VSMID	This is for FlexWATCH 3.0 or higher version. It refers to the server ID
	registered in the server supporting proxy function such as FW-5450, FW-5000,
	or FW-VSS.
Server Rood ID	Admin ID of FlexWATCH Server. 'root' is default and this can not be changed.
Server Root	FlexWATCH server admin password (Default is 'root', but if you changed the
Password	password, please enter the changed password.)
Server Model	Server Model Name. It will be entered automatically by"Get Info".

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Video Format	NTSC/PAL It will be entered automatically by"Get Info".
Server Serial	Server's Serial Number. In case of static IP, it will be entered automatically
Number	by"Get Info".
Get Info	In case of static IP, if right IP address and ID& PW is entered,
	'Get info' button automatically calls Server model, Video Format, serial number
	and default Server name. In case of dynamic IP with AOIP function, if the serial
	number is properly entered, 'Get info' button automatically calls current Server
	IP address, Server model, Video Format, and default Server Name.
Server Name	Server name is user definable. Thus, you can change server name to be
	displayed on the screen. Default server name is automatically entered by "Get
	Info" button.
MJPEG Dedicated	To set up maximum frame rate for the server. Depending on number of
Maximum Frame	cameras or bandwidth available. (NTSC: 30,15,10,5,2,1 PAL: 25,12,8,5,2,1)
Rate	
Server ID	Sever ID is proprietary one assigned for respective server and can not be
	changed once it is assigned.

### Server ID

Server ID is criteria to search archived video by System Log viewer or player. In case of hardware failure and you remove that server from the program, that ID number will be reserved till you manually select it for new video server.

If you remove a server from FlexWATCH Manager, the removed server ID can't be used for search. If you want to use that server ID again, you need to assign that server ID to a new server. Please notice that the archived image from that server ID may be different than the current registered server's images if the current server is different from the previous server.

It is very strongly recommended for you to make a note for all the Server ID for each video server as a back-up.

### Number of Video Servers and Cameras

The number of video servers and cameras which can be supported by FlexWATCH Manager is limited by the software version. If you bought 36channel version, you can register up to 36 servers in the program, but if the total number of cameras across the registered servers exceeds 36cameras, no more registration can be done. Also the total camera number is counted based on the number of cameras supported by the model regardless of actual connected cameras to the server.

For example if you buy 9 units of 6channel Video servers and want to connect 4 cameras for each server and want to use 36channel FlexWATCH Manger, you can not do that and you need to buy 64channel FlexWATCH Manager.

If you buy 36 units of 1channel Network cameras, then you can register and viewer up to 36channel without any problem.

Therefore, you need to be careful about the number of video servers and channels you would like to connect. You are required to contact local distributor to extend the number of video channels.

Demo version allows you to register up to 2video servers and 9 cameras with 1GB recording.

(F

When you register servers in FlexWATCH Manage, you need to consider the number of channels. For instance, if you registered 3units of FW3450, you already used up 12 channels (4ch x 3 unit).

# 4.2. FlexWATCH Server Registration with Dynamic IP

FwManager can control FlexWATCH servers which are connected to Dynamic IP network. But FlexWATCH should be registered in AOIP (Always-On-IP) server which is IP gateway for any FlexWATCH server and enables FlexWATCH server to be installed on the Dynamic IP or Private IP network and users can access the video server at anytime and anywhere.

- A) Check out whether the FlexWATCH server is correctly connected to AOIP server and you can view live through standard web browser. If not, FlexWATCH Manager can not be connected to the FlexWATCH server on the Dynamic IP network.
- B) Get S/N Number of that FlexWATCH server, since you need to type in 12 digits of S/N in the information field. Please refer to the S/N written on the attached product label on the bottom of a product.
- *C)* Check [AOIP Function] box and enter the 12 digits S/N. Please click "Get Info", then you will

### **User Manual**

automatically get Server Model, Video Format, Server IP address, etc.

*D*) You may also adjust the Maximum Frame Rate in MJPEG mode. After all values are set, you can click OK to finish the registration.

lew Server	
A0IP Function:	v
Server IP Address:	
Server Port:	80
Audio Port:	32001
VSMID:	0 💽 (Kernel=Unknown
Server Root ID:	root
Server Root Password:	****
Server Model:	<u> </u>
Video Format:	C NTSC C PAL Get Info
Server Serial Number:	00306000000
Server Name:	
MJPEG Dedicated	
Maximum Frame Rate:	15 • (frames/sec)
Maximum Frame Rate: Server ID:	15 • (frames/sec)

(F

If you need further information or questions regarding AOIP server, or FlexWATCH products, please contact your local supplier or Seyeon Tech Co., Ltd. (sales@flexwatch.com).

### 4.3. Server Property Setting

Once Server Registration is done, it is recommended that you set up server property such as Server Name, Video Frame rate and Server Admin ID & Password. If you do not set up this option, default setting will be applied. You can change Server Property at any time.

- a) Move mouse over the server name and click right mouse button. (Or click server name and click
  - the server properties icon 5.)
- b) Select [Properties]. Then click Server [Info] tap from the option

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Relay Output 3	Relay Ou	tput 4 Beep
Info Relay	Output 1	Relay Output :
A0IP Function:	Г	
Server IP Address:	10.10.225.	56
Server Port:	80	- 8
Audio Port:	32001	
VSMID:	0	(Kernel=v3.0)
Server Root ID:	root	
Server Root Password:	****	
Server Model:	FW-5450 S	eries
Video Form:	• NTSC	C PAL
Server Serial Number:	00306/83e	e60
Server Name:	Fw(83ee60	)
IJPEG Dedicated		
Maximum Frame Rate:	30 🕶 (	frames/sec)
:		
Server ID:	1	

#### Server Admin ID & Password

To view and to control video and other setting values, you need to type in **administration ID & Password of respective FlexWATCH server.** If root Password is changed, you need to change Root Password accordingly to control the video.

Note that you can view cameras with other access level set up in the respective FlexWATCH server such as power\_user, User, Guest level. If access level is not set up in the FlexWATCH server, anyone see view video through FwManager program.

Thus, you need to set up access control option in the FlexWATCH server

#### Server Name Change

Server name will appear in the Server Registration window. Thus, it is recommended that you give right name to easily identify the server by its name from the main screen.

#### MJPEG Dedicated – Frame Rate Control

You can set the video transmission speed for the server by configuring [Maximum Frame Rate] option.

If you set up Maximum Frame Rate, recording frame rate will be less than the Maximum Frame Rate. For example, if you set Maximum Frame Rate at 10FPS, the maximum recording frame rate is less than 10 FPS.

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### TIPS

If multiple servers are installed and you have limited network bandwidth available, you need to reduce frame rate by reducing actual frame rate in the server property option.



Maximum frame rate does not mean that selected frame rate can be achieved under any circumstances, since it depends on the network bandwidth and PC performance.

# 5. Camera Registration & Property Setting

# 5.1. Camera Registration

Once server registration and property setting are done, you need to make a camera group. After cameras are registered in a group, you will see the images of registered cameras as a group.

- *A)* Click Camera control window icon <sup>1</sup>/<sub>1</sub> to show Display Control window from the program tool bar.
- *B)* Click Add group icon **C** from the Display Control window. You can use right mouse button menu to add new camera group as well.
- *C*) Enter Group Description, and specify circulation period, Select Split Screen and press 'OK' button.

Circulation:	I I⊽ On		
Circulation Period:	5 (3~120 sec)		
elect Split Screen:		ì	-
		16 Cameras	
		_	

Circulation period is to set up duration of Camera display when multiple camera groups are configured to be sequentially displayed. You can specify display time per Camera group depending on your needs. Split Screen can be changed by Properties of Group Registration.

- D) Select Camera group and add new cameras from Server Registration window to a Camera group. There are four different ways to add the cameras in the Server window to a Camera group
  - ① Double click the Camera in the Sever Registration window.
  - ② Select 'join' by the right mouse button on a camera name in the Server Registration window.
  - ③ Drag and drop a camera to a camera group.
  - ④ Select a desired camera to be register, click "Join Camera" icon.
     Following figure is a camera registration example by right mouse button menu.

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E) Now newly added Camera will be automatically positioned in the program window and displayed as follow. You can freely move cameras' position by Drag & Drop.



# 5.2. Camera Property setting

Followings can be set up through camera property setting.

- Video quality setting
- Motion detection area setting
- Camera recording setting
- PTZ Camera preset naming and control sensitivity setting
- Advanced PTZ control setting
- *A)* Select Properties in right mouse button menu over a camera image.
- *B)* Select [Info] tap to adjust Camera Name, Status Bar option, and Status Bar Red Alarm condition setup.

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nfo Vit	deo   Motion Detection   Record   PTZ   Advanced I	ידב   
	Server Info: Fw(830e81)[ 211.33.109.39:2080 ]	
Came	era Number: 1	
Ca	mera Name: Cam_1	
Enco	ding Format: MJPEG	
	Status Bar Option Record & Motion Status Time info Camera Name Recordable frame rate	
	- Status bar red alarm condition setup	
	Camera loss	

### *C)* Status Bar Option

Status bar option is to optionally display camera related information on the status bar of camera on the bottom of Camera. **Record and Motion status, Time stamp, Camera name and Receive Frame Rate** can be optionally displayed.

### D) Status Bar red alarm condition setup

Status bard red alarm is to give visual alarm notice when there is an event triggered.

Visual alarm will be triggered by

- Alarm sensor activation (When the sensor change to Normal open/ close status)
- Motion detection
- Camera loss

### 5.3. Video Property Setting

Image size, Image Quality, Video color adjustment, Horizontal and vertical flip options are provided.

- *A)* Select Properties in right mouse button menu over a camera image.
- *B)* Select [Video] tap to configure video mode.

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Image Size:	Small — Y Full Normal	
Image Quality:	Lowest <u>' ' ' ' '</u> Highes Normal	đ
Color Tone		
Hue:	<u>ч</u> т м <mark>г</mark>	
Saturation:		
Contrast:		
Brightness:		
	Default	
Flip		
Horizontal Flip	: 🗖 Vertical Flip: 🗖	
Flash Save: 🛛	To save new camera setting in the Otherwise, it will be temporally appli	server memory. ed.

### Image Size

4 steps of image size options are provided. Actual size is different depending on the video format and followings are actual sizes.

#### NTSC: 176x112 (Small), 352x240 (Normal), 704x240(Large), 704x480 (Full)

#### PAL: 176X144 (Small), 352X288(Normal), 704X288(Large), 704X576(Full)

The larger the image size, the higher the file size and the lower frame rate. Thus, select right file size per your network bandwidth available and frame rate you would like to achieve.

# Note that if you change Ima

Note that if you change Image size in the middle of recording, any changed image size will be recorded. This may affect recording duration with the selected HDD. Thus, you need to be more careful to change Image size in the middle of recording.



In case of MPEG4 4ch products, image size change will affect all of the channels. And it will also change CBR mode to VBR mode if FlexWATCH is in CBR mode.

### Image Quality

5 steps of Image quality control options are provided. There lower image quality, the higher compression rate. If you select highest size, low video compression is done from the server side and video file size is larger than normal. Default is Normal quality and you can adjust the quality per your needs.

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# (F

Note that image quality change comes with image file size change. And changed file size affect recording duration with the selected HDD. Thus, you need to consider this point before change image quality.



In case of MPEG4 FlexWATCH in CBR mode, the change of image quality automatically changes CBR mode to VBR mode.

### Horizontal and Vertical Flip

This option enables you to display a camera in horizontally and vertically different ways. This option is useful when the camera is mounted in a reverse way on the ceiling and wants to display video in a right direction.

### Flash Save

This option is to save changed video control configuration in the Server, not in the program. If not, changed configuration will be temporarily saved in the server and when the server is rebooted, it will be returned to the default setting and you will get changed video as well.

# 6. Camera Live View

Following display options are provided by the program.

- Highlighted camera view with system log
- Multiple camera grouping
- Duplicate registration of videos in different camera groups
- Sequential display of camera group option
- Pan/Tilt/Zoom device control
- Full Screen Mode

# 6.1. Camera Display

FlexWATCH Manager enables you to display as many cameras as registered in the program on a single screen. For example, if you purchased FlexWATCH Manager 36 channel and installed 36 cameras, you can simultaneously display all those cameras on the computer screen.

Registered cameras under a group of the Group Mode will be displayed on the screen following the order of Server ID given to the server when you register server in the program.

For example, Cameras connected to the Server which has Server ID# 0, will be displayed first and next will be for the cameras connected to the Server ID#1.

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However, you can freely change the position of the cameras to display on the display screen by Drag & Drop.

# 6.2. Camera Grouping and Sequential Display

You can make different groups of cameras by the extent of importance you need to monitor. Also sequential display of different groups of cameras can be achieved as well.

### 6.2.1. Camera Grouping

As mentioned in the 'Camera Live view' menu above, you can **create Multiple Camera groups** and add the cameras from the Server control window to a Camera group.

# It is highly recommended to create more Camera groups, if you would like to get much faster video frame rate rather than put all the cameras in a single camera group.



### [Figure] An example of Camera Grouping

### 6.2.2. Camera Sequential Display

Sequential display of cameras per Camera group can be done by clicking Sequential display Icon 😡 from the Camera control window

You can also configure display duration time for the respective group of cameras. Go to Camera group property and adjust its display duration time

# 6.3. Full Display Mode

FlexWATCH Manager supports 2 types of Full Display modes. One is Full Screen Mode (Wondow Full Screen) and the other is Monitoring Mode (Full Screen). Full Screen Mode displays only

camera view without any tool bars while Monitoring Mode displays camera view with control menu for PTZ or voice communication.

### 6.3.1. Full Screen Mode

If you click Window Full Screen Icon , only camera view will be seen.



**General Mode** 

Full Screen Mode

### 6.3.2. Monitoring Mode

If you click , FlexWATCH Manager will turn to the Monitoring mode.



### General Mode

**Monitoring Mode** 

Descriptions of control panel in monitoring mode.

- Go back to the General Mode.
- Search Go back to the General Mode and launch the player.



# 6.4. Dual Monitor

Dual Monitor mode is for effective camera display with two monitors. For example, if you want to display each 16 cameras in each monitor, you can use two monitors and view all 32 channels at once.

You can enable this function in the properties of Manager in Server Registration section.

	General mode	Monitoring Mode	Full Screen Mode
Single Monitor	yes	yes	yes
Dual Monitor	yes	no	yes

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### **General Mode in Dual Monitors**



Window Full Screen Mode in Dual Monitors

# 6.5. Single Display Mode

When you display multiple channels of video, the display frame rate can be less than actual frame rate. However, if you display a selected camera in Single Display mode, you can see the video at actual frame rate, at which FlexWATCH Manager receives from a FlexWATCH server.

For example, FlexWATCH Manager displays 36 channels but each camera may display at around 3 frames per second. (In general, it can't display at actual frame rate received from FlexWATCH Server.) If you click a desired camera, it will turn to the Single Display mode and you can view it at actual frame rate.

- *A)* Please double-click a desired camera.
- *B)* If you double-click it again, it will turn to the general mode.

# 6.6. Fit Image To Window

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In FlexWATCH Manager 2.06 or higher version, it supports "Fit Image To Window" function." Regardless of camera resolution, the display image will be stretched out and will fit to the size of Window.

A) Please select Properties of "Manager" in Server Registration section.



B) Select "Fit Image To Window" and click "OK".



Normal Image



Image by "Fit Image to Window"

# 6.7. P/T/Z Control

You can control Pan/Tilt/Zoon device which is connected to the FlexWATCH server through FlexWATCH Manager over the Network. You can also use Joystick to control PTZ.

### 6.7.1. PTZ Control

A) Please make sure that PTZ device is correctly connected to FlexWATCH server and correctly working through a standard web browser. If PTZ device is correctly working through web browser, you do not need to configure other settings here in this FlexWATCH Manager except PTZ control sensitivity.

If PTZ device already set up and want to check its working status from the FlexWATCH Manager, go to a web browser of respective FlexWATCH server by selecting [go home page] button from the Server Control Window.

*B)* Please roll over an image by mouse and select PTZ Grid or PTZ dialog to control PTZ

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function. You will see if PTZ device is attached or not.







*C)* There are two ways of controlling PTZ devices such as PTZ Grid and PTZ Dialog.

### 6.7.2. PTZ Grid Interface and PTZ Dialog Interface

A)	Description of P/T/Z Grid Interface
----	-------------------------------------

lte	Description	
Æ	To move PTZ to Up/Down and Right/Left.	
	Simply click the mouse on the direction you would like to move. The larger the circle, the	
NAF.	larger movement per click.	
	Control Zoom In/Out function of Zoom Camera. 'Z+1'~'Z+3' id for Zoom In & 'Z- 1'~'Z-3' for Zoom Out.	
F + 3 F + 2 F + 1 F - 1 F - 2 F - 3	Control Focus In/Out of the camera. 'F+1'~'F+3' is for Focus In & 'F-1'~'F-3' is for focus Out.	
B)	Description of P/T/Z Dialog Interface	

# **User Manual**



Items	Description		
Speed	Adjust the Camera Speed (1-16). The greater the number the faster the camera		
	speed.		
<ul> <li>▶</li> <li>▲</li> <li>≮</li> <li>★</li> <li>★</li></ul>	You can control PTZ in 8 directions.		
⊕ z ⊖ z	Zoom In/Out '+'(Zoom In) & '-'(Zoom Out)		
⊕,⊧ ⊖,⊧	Focus Near/Far '+'(Focus Near) & '-'(Focus Far)		
	Auto Pan Start/Stop if the PTZ model supports Auto Pan		
Preset Call	1: Preset #1 2: Preset #2 3: Preset #2 4: Preset #4 5: Preset #5 If each Preset is set, you can control PTZ camera by predefined Preset. The PTZ camera will move to the preset position by clicking the Preset number.		
	You can select either Step mode or Continuous mode. Under low bandwidth, it is		
	recommended that you use Step mode, which enables you to move the PTZ		
PTZ Move Mode	camera for a certain distance by a click. In continuous mode, you can move the		
	PTZ camera by holding a directional button. The longer you hold the button, the		
	more distance the PTZ camera moves. Thus, it is useful under higher bandwidth.		
	Advanced function button. If you click, you will use more advanced options.		

	When it has RX connection, you can control Camera Power, Light On/Off, AUX1
	and AUX2.
∊∰२ ∊Ю२	Select Group No 1 and activate the Group function
<i>67≠67 65⊗6</i>	Start/Stop for Tour function
し し し	Camera Power On/Off
Ŷ P	Light On / Off
<u>_%_1 _%_1</u>	To control AUX 1
<u> </u>	To control AUX 2

### 6.7.3. PTZ Sensitivity Control

You can adjust PTZ sensitivity to control the PTZ movement.

- *A)* Please select the properties of camera by right mouse button menu.
- *B)* Select [Properties] and select PTZ tab. Please adjust 'Grid Mode Sensitivity'. The greater the number of sensitivity, the longer the movement.

Grid Mode Sensitivity :			
Preset	1 6.1		
PTZ Sensitivity :	·	•	
Pan/Tilt	Zoom	Menu	
	+ ·	Menu	
$\mathbf{V}$	+ -	Enter	
Name:		Apply	

The properties of Camera

PTZ sensitivity can be applied to each video channel. You can adjust the sensitivity value by left/right arrows.

### 6.7.4. PTZ Preset

You can set up to 32 PTZ preset positions. After choosing a preset, you can configure PTZ sensitivity, Pan/Tilt, Zoom, Focus, and preset name. If you set up a preset position, please click Apply button to save the preset position.

Depending on the PTZ model, preset function can be supported or not. Thus, you need to refer to **Server User Guide** to select right PTZ device supported by FwManager.



Depending on the PTZ models, preset function can be supported or not. Thus, you need to check if the PTZ model supports the Preset function or if FlexWATCH supports the preset functions for the PTZ model.

### 6.7.5. PTZ Auto Preset

Auto Preset is to set camera focus to the user defined PTZ preset area when an event is happened so that you can monitor or record important area.

Please make sure that **PTZ preset function is supported by the PTZ device** connected to the server and **PTZ preset is already set up** before you start this configuration.

Please select Advanced PTZ tab and select "Auto Preset". Each camera connected to a FlexWATCH server supports up to 4 auto presets.

Non -		set
Non-		set
C Touring		
Preset: 1 Pres	et # 💌 Set Rese	t Ga
	3 🗖 4 🗖 5 🗖 6	<b>F</b> 7 <b>F</b> 8
E 9 E 10E	11 🗖 12 🗖 13 🗂 14	□ 15 □ 16
□ 17 □ 18 □	19 🗂 20 🗂 21 🗂 22	23 🗖 24
□ 25 □ 26 □	27 🗐 28 🗐 29 🗐 30	I 31 🗖 32
Delay: 3	(3~120 sec)	
NOTE		

Please click "Set" button to configure conditions and criteria for the Auto preset.

### 6.7.6. Touring

PTZ Touring is to sequentially move PTZ Camera to predefined preset area. Please select Touring in Advanced PTZ tab menu. Please check if a preset properly works by "Go". To set the touring positions, please select a preset in listbox and click "Set" (Or check the preset number in check box.) And adjust the Delay time between presets.
### **User Manual**



Once configuration is done, click Apply button and exit the configuration. To enable Touring option, have your mouse point over an image and select Touring option in right mouse button menu.



Note that Touring option can be enabled/disabled through this procedure only as shown below.



## 6.8. Camera Removal from a Group

You can easily delete a camera from a current camera group.

- A) Select a camera.
- *B)* Either click the delete camera icon <sup>1</sup>/<sub>2</sub> or place your mouse over an image from the selected camera and select Remove.

(F

A deleted camera from a group is just removal from display not actual removal from the server. If you want to actually delete a registered camera, you need to remove the FlexWATCH server which the camera belongs to.

## 7. Server Status Window

Server status window shows you current status of video, Alarm sensor and recording for respective servers and cameras.



#### Server Information

You can see server IDs & server names.

### <u>Video Status</u>

It refers to C1~C6 Icons. Spin will show how fast the live video stream is received by FlexWATCH

Manager. The faster the spin, the faster the frame rate you get.

#### Event Status

It refers to E1~E6 Icons. Events include motion detection and sensor triggering. Event icon will also spin if there is any event occurs.

#### **Recording Status**

It refers to R1~R6 Icon. You can also check whether recording is active for any camera at a glance. If

there is any recording being done, you will see Red arrows moving.

### Audio Status

It refers to A1~A6 icon. When there is audio data coming from FlexWATCH, you will see Blue arrows moving.

## 8. System Log Window

# FlexWATCH Manager provides log message window so that user can easily view log message status.

System log message is interfaced to Server, camera and FwManager Player. Thus, you can easily find which servers and cameras the log messages come from and launch FlexWATCH Manager Player by double clicking the log message. You can play back recorded video by clicking a log message

Click shifts ICON from the **Program tool bar** to run Log View Window on the program. If you want to hide this window, you can click in ICON again.



### Shortcut to FwManager player through System log message

If you click the system log message, you are directed to server and specific camera and you can easily find out at which server or camera the system log was happened. You can directly call FlexWATCH Manager Player and instantly view the recorded video through System Logo message. If you double click the system log message, it will call FlexWATCH Manager Player.

If you double click the message again, you are directed to video server in the FlexWATCH Manager Player and double click again then go to the camera.

### TIP

Once FwManager Player already called and it is running behind the FlexWATCH Manager main screen, only double clicking on a system log message will direct you to the respective Camera. Thus, if you need to view any archived video through System log message, just keep the FlexWATCH Manager Player run behind the FlexWATCH Manager program.

## 9. Beep Alarm Notification

Beep alarm through PC sound will be activated when an event occurs following the beep alarm configuration so that event can easily be notified to a manager or a guard. Note that if you would like to get an alarm notification through e-mail, it is recommended that you use the e-mail function of server. This e-mail function can be set up by Admin menu of the FlexWATCH server.

## 9.1. Beep Alarm Configuration

This configuration is applied for a **server, not respective cameras**. Thus, you need to configure this option in the **Server control window**.

**Configuration method for the beep alarm is the same as that of recording configuration** which is explained in detail in the Recording Configuration chapter. Thus, you are required to refer to **Recording configuration chapter** to get better understanding of configuration method.

Beep Alarm independently works from recording condition. But it is recommended that you refer to recording condition, if you want to match the Beep Alarm condition with recording condition.

- A) Select **FlexWATCH server** from the Server control window.
- B) Click right mouse button and select server 'Properties'.
- *C)* Select '**Beep**' tap and configure been alarm options.
- *D)* Add Beep Alarm condition by click '**Add**' button.
- *E)* Once beep alarm condition is set up, please set up the beep alarm duration option.

### **User Manual**

Into	1 E	Relay Output	1	Relay I	Output 2
Relay O	utput 3	Rela	y Output 4		Веер
Beep Cor	nditions				
	ra l	n. 1			
Add	Edit	Remove			
Duration	: 0	(0~86400	) sec)		
Duration TE : To n	ı : 0 nake Beep	(0~86400 alarm throug	) sec) gh PC soun	id card w	ihen cor
Duration TE : To n is hi	i : 0 nake Beep t by any e	(0~86400 alarm throug vent configur	) sec) gh PC soun ed above	id card w	ihen cor
Duration TE : Ton ishi	i: 0 nake Beep t by any e	(0~8640) alarm throug vent configur	) sec) gh PC soun ed above	id card w	ihen cor
Duration TE : To n is hi	i: 0 nake Beep t by any e	(0~8640) alarm throug vent configur	) sec) gh PC soun ed above	d card w	ihen cor
Duration TE : To n is hi	nake Beep t by any e	(0~8640) alarm throug vent configur	) sec) gh PC soun ed above	d card w	hen cor
Duration TE : To n is hi	i: 0 Nake Beep t by any e	(0~8640) alarm throug vent configur	) sec) gh PC soun ed above	d card w	hen cor

### Duration

This is to specify beep alarm period when the Beep Alarm is triggered. 0 means infinite while 86400 sec is equal to 1 day long alarm.

#### TIP

If you want to the beep alarm activated until you manually stop it, please set the duration time to 0 sec.

If you want to stop the beep sound, please click the beep control icon as show below. (Or select "Turn off Beep" in right mouse button menu on Manager in Server Registration menu.



### TIP

If you configure beep alarm condition by Motion detection, you need to configure **motion detection** area in the respective server.

### TIP

Beep alarm will be activated for the Duration you set up in the configuration menu. If you want to manually disable Beep alarm sound, you need to remove Beep alarm options from the server property setting.

Thus, you are required to set the right Beep alarm duration time.

## 10. Relay Output (DO) Configuration

You can control external device which is connected to FlexWATCH server using Relay output mode of FlexWATCH Manager. Through this mode, you can automatically turn on/off the light or siren when the event is happened following the Relay output condition. You can also manually control the Relay output.

## 10.1. Relay Output (DO) Configuration

This configuration is applied for FlexWATCH server, not respective cameras. Thus, you need to configure this option in the Server control window.

Configuration method for the Relay output control is the same as that of Recording configuration which is explained in detail in the following "Recording Configuration" chapter. Thus, you are required to refer to Recording configuration chapter to get better understanding of configuration method.

Relay Output control independently works from recording condition. But it is recommended that you refer to recording conditions to synchronize relay output control condition with recording conditions, if you want.

Depending on the server model, the number of relay output ports is different.

- *A)* Select FlexWATCH server from the **Server control window**.
- B) Click right mouse button and select server 'Properties'.
- C) Select Relay output number and configure alarm conditions by clicking [ADD] button.
   Depending on the FlexWATCH network camera or video server models, different number of DO port number will appear.

### **User Manual**

Relay Output	3   Relay Output	t4 Beep
Info	Relay Output 1	Relay Output 2
Alarm Condition	ns	
	- 10	
Add Ec	lit Remove	
uration: 0		
Nama	(0 00 000)	
		WA 12 100
TE: To automa the server	stically activate relay outp when condition hit by an	iut device connected v event
		,

#### Duration

Duration is to keep relay output device working for a specific period. 0 means infinite while 86400 sec is equal to 1 day long alarm.

#### Name

**Relay Output device name** can be given so that connected device can easily identified by the name through Relay output device control panel.

#### TIP

If you want to the Relay Output activated until you manually stop it, please set the duration time to 0 sec.

#### TIP

If another event is happened during the duration period, that event will be ignored and Relay output will be kept connected.

Relay output device connected to a server can be manually controlled by FlexWATCH Manager regardless of any configuration made above.

- A) Click right mouse button over an image (Or a camera name in Server or Camera Registration section) from a selected camera.
- B) Select 'Relay Output Control' option. (Or just click the Relay Output Control Icon as shown below image.) Then Relay Output control panel will come up.

### **User Manual**

🌯 😫 📰 🌌 🗮 💐 🗋	2307-11-14 10:92:50.66 MH-01	Relay Output Control
× Manager Manager Ew(832f3f) Cam_1 Cam_2 Cam_3 Cam_4 Ew(832c85)	Remove Forced Record PTZ Grid PTZ Dialog Touring Relay Output Control Alarm Information Properties 1 R2 R3	Relay Dutput Status         #1:         #2:         #3:         #4:         #5:         No name         #6:         OK         Cancel

Relay Output Control Icon

Relay Output Control menu

**Relay Output Control Panel** 

## 11. Recording Configuration

FlexWATCH Manager Program provides powerful recording options to enable you to record live video streams transmitted from FlexWATCH Network Cameras or Video servers. Followings are the key features of recording options provided by FlexWATCH Manager.

- Multiple recording options are provided such as Forced (Manual) recording, Schedule,
   Motion detection and Sensor Driven video recording option.
- Multiple recording conditions for each camera
- Pre/Post alarm option
- Recording frame rate control option

## 11.1. Forced(Manual) Recording

Forced recording option enables you to record any time regardless of any other recording

conditions. You can enable it by clicking "Forced" Recording icon on a camera name as shown below.



## 11.2. Recording Conditions and Criteria

### 11.2.1. Recoding by Conditions

FlexWATCH Manager supports various recording conditions such as Schedule, Motion Detection, and Event. The following is the Recording condition setup procedure.

- A) Please make sure that HDD configuration is already done so that video can be recorded right after recording configuration.
- B) Click the right mouse button over an image (Or a camera name in Server or Camera Registration section) from a selected camera and select 'Properties' option.
- *C)* Please select [Record] tab in the properties of camera.

e properties of camera	×
nto Video Motion Detection Record PTZ Advanced PTZ	
Add     Ealt     Hemove       Pre-Alarm:     0     (0~5 frames)       Post-Alarm:     0     (0~5 frames)	
MJPEG Dedicated Maximum Recording Speed: 30.00 (frame/sec)	
Record Audio	
OK Cancel Apply	

### Descriptions of Recording options in the properties of camera

Items	Descriptions
Add	To add a new recording condition
Edit	To edit a existing recording condition
Remove	To delete a recording condition
Pre-Alarm	Refers to total frame number to be saved before an event (0~5 frames)
	This is only for MJPEG Image.
Post-Alarm	Refers to total frame number to be saved after an event (0~5 frames)
	This is only for MJPEG Image.
MJPEG Dedicated	Maximum Frame number per second for recording.
Maximum Recording	This is only for MJPEG Image.
Speed	

Pre/Post-Alarm and Maximum Recording Speed applies for each camera. However, the recording speed depends on network bandwidth, the performance of a video server and FlexWATCH Manager installed PC.

*D*) Please click Add button to add a recording condition.

The following is the description about Recording Condition and Criteria. You need careful attention and good understanding about Recording conditions and Criteria in order for you to properly set up recording conditions and to achieve your goal.



#### **Description of Recording Conditions**

	Items	Descriptions
Condition	Always	To active Always Recording regardless of any other
Setup		conditions. If you select this condition Schedule and
		Event condition window become inactive.
	Schedule Only	To record based on the Schedule. Event condition
		window becomes inactive.
	Event Only	To record by events (Motion detection or Sensor)
		Schedule condition window becomes inactive.
	Schedule and Event	To record by events during the Schedule time. Thus if
		it is not in schedule, any event can't trigger the
		recording.
Schedule	Day of week	To select day of a week
Setup	Time	To set the desired time for recording. If Day of a week
		has not been selected, recording will be done
		during the selected time every day.
	Date	To set the desired data.

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Event Setup	Motion On	To select cameras for motion detection recording. If
		CH1 of the server is selected, when CH1 detects
		motions recording will begin. If CH1 & CH3 are
		selected, then when both CH1 & CH3 detect motions,
		recording will begin, meaning that if only CH1 detects
		motions, the recording will not begin.
		There are two types of motion detection functions such
		as by HW and SW. Please set the motion detection
		function based on your need.
	Alarm On	To select sensors for event recording. If #1 sensor of
		the server is selected, when #1 sensor gets an input,
		recording will begin. If #1 sensor & #3 sensor are
		selected, when both #1 & #3 sensors get inputs, the
		recording will begin, meaning that if only #1 sensor
		gets a input, the recording will not begin.
		If the function doesn't properly work, please
		check out if the sensors are properly connected
		to FlexWATCH server.

### 11.2.2. Schedule Driven Recording

- A) Click the right mouse button over an image(Or a camera name in Server or Camera Registration section) from a selected camera and select 'Properties' option and select [Record] tab and click "Add" to display the recording condition setup window.
- *B)* Select "Schedule Only". If you select "Always", then FlexWATCH manager will do recording all the times regardless of any other conditions.

### Example of Schedule Driven Recording

## **User Manual**

### Ex)

Between 1<sup>st</sup> of June and 1<sup>st</sup> of August, in every Saturday and Sunday, FlexWATCH Manager will record from 6AM to 1PM.

Alw Sch	vays nedule	Only				
° Eve ° Scl	ent Onl hedule	y and Eve	nt			
•	Day of	week F	7 [			<b>v</b>
•	Time	AM 6	200 +	∼ [	PM 1:00	) <u>+</u>
5	Date	06/01	<u>.</u>	~ [	08/01	-

*C)* Please click "OK" to finish the setting.

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### 11.2.3. Motion Driven Recording

There are two motion detection functions available including HW motion detection and SW motion detection. If FlexWATCH server supports HW motion detection, using HW motion detection rather than SW motion detection is better for the performance of FlexWATCH Manager. If you want SW motion Driven Recording, you first need to set the motion detection area in the properties of Camera. Please refer to the following steps for motion detection area setup.

Click the right mouse button over an image (Or a camera name in Server or Camera Registration section) from a selected camera and select 'Properties' option and select "Motion Detection" tab.



#### Description of [Motion Detection] menu

Item	Description
Display Screen	You can select up to 2 motion detection areas by Mouse Drag.
Motion Detection Area List	The current motion detection area list. If click on the Area #, you can see the selected motion detection area.
Detection Sensitivity	To adjust detection Sensitivity.
Detection Interval	To select Detection Interval of how often FlexWATCH Manager tries to detect the motions. The Interval values are between 1 sec to 15 sec.
Remove	To remove the selected motion detection area. Select Area # and click

### **User Manual**

Remove.

- A) In Display Screen, select desired motion detection area by a mouse drag and select other options. And Click "OK" or "Apply" to finish the setting.
- B) Move to "[Record]" tab and click "Add".
- *C)* Select either "Event Only" or "Schedule and Event".
- D) If you select "Schedule and Event" you need to setup the desired schedule with Event conditions. If you select "Event Only" you just setup the Event conditions.

#### Example of Motion Driven Recording

Ex)

Between 1<sup>st</sup> of June and 1<sup>st</sup> of August, in every Saturday and Sunday, FlexWATCH Manager will record when camera 1 has motion detected between 6AM and 1PM.

ways]
ly d Event
rek 🔽 🗖 🗖 🗖 🗖 🔽 🔽 Sun Mon Tue Wed Thu Fri Sat
AM 6:00 🔺 ~ PM 1:00 🔺
06/01 🔹 ~ 08/01 🔹
Motion State
Sensor status

*E)* Please click "OK" to finish the setting.

### 11.2.4. Event driven Recording by Sensor

- A) Please check out if a sensor is properly connected to DI of FlexWATCH server.
- B) Click the right mouse button over an image(Or a camera name in Server or Camera Registration section) from a selected camera and select 'Properties' option and select [Record] tab and click "Add".
- *C)* Select either "Event Only" or "Schedule and Event".
- D) If you select "Schedule and Event" you need to setup the desired schedule with Event conditions. If you select "Event Only" you just setup the Event conditions.

#### Example of Schedule and Event Recording

### **User Manual**

### Ex)

Between 1<sup>st</sup> of June and 1<sup>st</sup> of August, in every Saturday and Sunday, FlexWATCH Manager will record when sensor 1 is triggered between 6AM and 1PM.



## 12. Player Lite

Player Lite is a program which enables you to search and to playback the archived video based on each server. You can easily search the archived video data by selecting a date on the calendar. It also provides several functions such as enlargement, reduction, snap-shot, AVI conversion, print for the searched images.

You can launch the Player Lite by clicking Player Lite icon in the upper tool bar. Below is the screenshot of the Player Lite.



	- Player Lite Main Screen
Α.	- Network Sites for remote server Registration & Search
Network Sites & Local	- Local Sites for searching archived data in local site (FlexWATCH
Sites	manager installed PC)
В.	-Registered server list. When you click a server, all channels will appear
Server List	in the Display Window.
С.	-Each calendar day will be in red if it has archived data on that day.
Calendar	
D.	- Enlargement, Reduction, Print, AVI Conversion, Snapshot functions
Tools	
Е.	- When you click on the green bar displayed on the time bar, it will
Display Window	display the searched images.
F.	- tools for Playback the archived images.
Play bar	
G.	-It will show you the recorded data in green bar for each channel. By
Time bar	clicking on the green bar, you can playback the images from that time.

## 12.1.Network Site Registration

You can search archived video from registered FlexWATCH Manager or FlexWATCH 5000 series.

A) Please click the right mouse button on Network Site and select "Add Storage".

- 🗩 Netw	ork Sites
E 🔚 Loc.	Add Storage 📐
030040	Login Option W

*B)* Fill in the required fields with the proper information as shown below.

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A0IP Type	Г					
Server Name	I					
IP Address	[					
NIPP Port	50000					
User ID	1					
User Password						
Mac Address						
	Connectio	in Test				
	OK	Cancel				
erLite			× PI	ayerLite		
				• c	onnection is	e octablie
	onnect to ivetwork	< image Provi	der	<u>.</u>	onneedon is	o cottabili.

#### In case of error

#### In normal case

### 12.2.Search Images

Search functions for network sites or local sites are the same. Please refer to following steps.

A) Select desired server under Network sites or Local Sites. Then it will show you registered servers in the Server List. Please select a server to search.



B)

If the selected server has recorded images, Calendar will display days in red; otherwise the number will be in blue. The current selected day will be in green as shown below.

		F	ebr	uary	200	)6	
S	Gu	Мо	Tu	We	Th	Fri	Sat
				1	2	3	4
	5	6	7	8	<u>9</u>	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28				
-							
	44	4	1	Foda	iy –	•	**

- move to next month.
- ►► move to next year.
- move to previous month.
- ◀ ◀ move to previous year.
- Today move to current date.
- C) Please click one of the days appeared in red and check out the Time Bar.
   You will see the green bar which indicates that there are recorded data. When you click on the green bar, you can see a red vertical line at the selected time line with recorded images in the Display Window.

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Time Bar: If there are recorded data, you can see the green bar. If you click on the green bar, you can see a red vertical time line. The red line will move forward as playback.



## 12.3.Playback

If you click on the green bar, you can see the searched images in Display Window and Play Bar will be activated. The functions of Play Bar are as follows:

### Play Bar

Notmal							AM:		MIN- MIN+
1	2	3	4	5	6	7	8	9	10
1. Pla	ayback Spee	ed. (Slow	vest, Slo	ow, Nor	mal, Fa	st, Fastes	t)		
2. Re	everse Playb	ack							
<mark>3</mark> . Fo	orward Playt	back							
<b>4</b> . Pa	use								
5. St	ор								
<mark>6</mark> . Re	everse Playb	ack by 1	frame						
7. Fo	orward Playb	back by 1	frame						
<mark>8</mark> . Re	corded date	9							
<mark>9</mark> . Sh	low you the	images t	from 1 i	ninute	before (	It is in act	tive when it is pau	sed.)	
10. Sł	now you the	images	from 1	minute	after (It	is in activ	ve when it is paus	ed.)	

### 12.4.Tools

You can use various functions in Tools. While the playback, please click the pause button. And select a desired channel in Display Window. The icons in Tools will be activated at a paused image.

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0
4
Ø
Close

Enlargement of a paused image from a selected channel. Reduction of a paused image from a selected channel. Original paused image from a selected channel. Print a paused image from a selected channel. AVI Backup for the selected images. JPEG backup for the selected image. Termination of Player Lite.

### 12.4.1.Print

- *A)* At paused mode, please select the desired channel in Display Window to print out.
- **B)** If you click icon, you will see the Print Window. Select proper print options and Click "OK".
- *C)* Please enter the description for the image and click "OK".



### 12.4.2. AVI Backup

- *A)* At paused mode, please select the desired channel in Display Window.
- **B)** If you click icon, you will get the below pop-up window.



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*C)* Adjust the Frame Rate for AVI Backup and click "OK". Then you will see below pop-up window.

Start time			
AM 08:15		<u> </u>	
Recording seconds	e		
120			
File setting			
Progressing			
0			

D) You can adjust Start time and Recording duration by second. Please click the find button in File setting to select a location for AVI backup file. Enter the proper name for an AVI file and click "Record" to begin the AVI backup.

### 12.4.3. JPEG Backup

- *A)* At paused mode, please select the desired channel in Display Window for JPEG Backup.
- **B)** Please click icon, you will see the Save As window. Please select the location and enter then proper file name. Click "Save" and you will get a JPEG backup file.

## 13. Network Alarm Manager Configuration

FlexWATCH Manager supports Network Alarm Manager and the steps are as follows:

 A) Select Network Alarm Manager in the right mouse button menu on "Manager" in Server Registration section.



*B)* You will see "Network Alarm Manager" window as shown below.

o to three IF	'Addresses	could be use	ed
Enable			
IP (1)	<b></b>		
IP (2)	ſ		
IP (3)	ſ		

- *C)* If you enable it, you can enter up to 3 IP addresses for network alarm manager. And you can also configure the Recording Time between 1 and 10 minutes. Click "OK" to finish.
- D) Select a desired camera to be popped up when an alarm occurs. Please select "Alarm Information" in the right mouse button menu.



*E)* You will see below Alarm Information window.

Sensor			
Motion Det	ection		
nformation			
Level ;	High	~	
Alarm Name :			
Administrator :			
Location :			
Contact 1 :			
Contact 2 :			
Contact 3 :	<b></b>		
Adddress :			

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Sensor	If you want to send a signal to Alarm Manager by Sensor, check this
Motion Detection	If you want to send a signal to Alarm Manager by Motion Detection,
	check this.
Level	Indicate the level of Alarm (High, Middle, Low)
Alarm Name	Enter the name of Alarm
Administrator	Enter the name of Administrator
Location	Enter the name of the location
Contact 1,2,3	Enter the contact information such as telephone number
Address	Enter the address

(F

When FlexWATCH Manager works with a Network Alarm Manager, you can view the archived video from FlexWATCH Manager by Network Alarm Manager. To use this function, you need to enable the Remote Playback Service in FlexWATCH Manager.

## 14. ISENS-Central Configuration

ISENS stands for IP-SurvEillaNce System and this system is for the large scaled CCTV security solution. FlexWATCH Manager 2.06 or higher version supports ISENS. ISENS-Central is a Windows service which manages all the ISENS events, DB, etc. FlexWATCH Manager sends the information of all the events to ISENS-Central.

A)

Click right mouse button on "Manager" and select "ISENS-Central".



B) You will see below pop-up window.

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ISENS - Central	x
Send Alarm to ISENS Central:	
FlexWATCH Manager ID:	1
Session ID:	0
ISENS - Central IP:	
ISENS - Central Port:	12001
FwManager IP:	[]
FwManager MAC Address:	00000000000
OK	Cancel

Name	Remarks				
Send Alarm to ISENS Central	Check to work with ISENS				
	One ISENS can work with several FlexWATCH				
FlexWATCH Manager ID	Manager. Thus, you need to enter the appropriate				
	ID for FlexWATCH Manager.				
Session ID	Enter the same ID as FlexWATCH Manager ID				
ISENS Control ID	Enter IP address of ISENS-Central for TCP/IP				
	communication				
	Default port is 12001. If you change this, you also				
ISENS-Central Port	change the port number when you install the				
	ISENS-Central.				
FwManager IP	Enter IP address of FlexWATCH Manager installed				
	PC				
FWManager MAC Address	For future use				

*C)* Please fill in the required fields first. Then check the Send Alarm to ISENS Central.

D) Select a camera from which you want to send alarm information to ISENS central. And selectAlarm Information in the right mouse button menu.

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*E)* You will see below Alarm Information window.

Poliairiou			
🗂 Sensor			
Motion Detec	tion		
Information			
Level ;	High	¥	
Alarm Name :			
Administrator :	į		
Location :			
Contact 1 :			 
Contact 2 :			
Contact 3 :			
Adddress :			

Sensor	If you want to send a signal to ISENS-Central by Sensor, check this
Motion Detection	If you want to send a signal to ISENS-Central by Motion Detection,
	check this.
Level	Indicate the level of Alarm ( High, Middle, Low )
Alarm Name	Enter the name of Alarm
Administrator	Enter the name of Administrator
Location	Enter the name of the location
Contact 1,2,3	Enter the contact information such as telephone number
Address	Enter the address

F) If you want to search the archived data by ISENS, you need to enable the Remote PlaybackService and also need to add an account for Remote Playback Service as shown below.

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*G*) After all related setting is done; you need to export a file which is used for ISEND-DB. Please select Export Config in the right mouse button menu.



H) Please check all the desired servers working with ISENS and click "Export" button. Choose the location and name the export file. You will need this Export file to be loaded into ISENS Composer later. Please refer to ISENS User's Manual for more information.

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Serve	Server Name	IP	
<b>7</b> 0	shop	10.10.225.1	
21	museum	10.10.225.56	
2	Factory	211.33.109	
<b>⊻</b> 3	House	220.78.102	
⊻14 71 ⊂	200	116.47.137	Save As
			Save in: FlexWATCH Manager
1	Select All Unsel	ect All Export	File name: FWMenager@fgExcort

## 15. Trouble Shooting

Followings are basic trouble shooting guide. If you encounter problems which can not be resolved with below trouble shooting guide, please contact your local distributor or Seyeon Tech Co., Ltd. (<u>sales@flexwatch.com</u>).

## 15.1. Installation

*A) Symtoms:* A Key Lock can not be installed in PC. (Notice: a key lock is replaced by a coupon since 2005)

### Solution:

- If you are using FlexWATCH Manager Ver 1.0, you need to go to control panel and delete Key lock software first and then install it again.
- If you are to install FlexWATCH Manager for the first time, check out to see if the Key Lock is properly connected to your PC.



If you have another kind of a key lock connected to your PC for other software, FlexWATCH Manager can't be run.

## 15.2. Server Registration

 A) Symptoms: Can not register FlexWATCH server in the FlexWATCH Manager Solution:

-Check out whether FlexWATCH server and FlexWATCH Manager are connected

to Network, since FlexWATCH server must be on line

- If FlexWATCH server is registered in the AOIP server, please access to the AOIP server and check if the FlexWATCH server is correctly connected to AOIP server.
- **B)** Symptoms: Can not register FlexWATCH servers any more in the FlexWATCH Manager Solution:

Regardless of the number of registered FlexWATCH servers, you can't register more than the number of channels allowed by your FlexWATCH manager version. For example, if you use FlexWATCH Manager 36ch version, you can register up to 36 channels regardless of the number of servers.

*C) Symptoms*: FlexWATCH server can be accessed through AOIP server, but you can't register the FlexWATCH server into FlexWATCH manager.

### Solution:

- Please check if the address of AOIP server is correct. (The address of the AOIP server operated in Korea is <u>www.aoip.co.kr</u>; however, if your supplier operates their own AOIP server, the address would be different.)
- Please check if the S/N of the FlexWATCH server is correct.

## 15.3. Video Display

A) Symptoms: Can not view any video on the screen.

### Solution:

- Check whether you created at least one camera group and put registered cameras into the camera group.
- Check network status of your PC where FlexWATCH Manager is installed.
- B) Symptoms: Can not get video from FlexWATCH server

### Solution:

- Please check the status of FlexWATCH server in its homepage. If it is not alive, please fix the network status.

*C) Symptoms*: Overall display frame rate is so low and sometimes the image got frozen. *Solution*: Check out following points.

- Whether enough bandwidth is available between FlexWATCH Manager and FlexWATCH server, if multiple videos are being displayed.

-Especially when FlexWATCH servers are located in WAN network, there would be some network bottle neck.

-Check out whether PC specification meets manufacturer's recommendation.

-Check out actual live video streams through web browser whether you get good frame rate or not, while FlexWATCH Manager is running.

## 15.4. Video Recording

A) Symptoms: No "Schedule" driven recording is done Solution:

- Check whether there are enough HDD space is available. You need at least more than 100M bytes of HDD space. You can try if the recording works or not by forced recording option.

- Check whether the schedule condition is correctly done or not.

*B) Symptoms*: No video recording is done by motion detection option, although forced recording option is working

### Solution:

- Check whether a Motion detection area is correctly set up or not
- Check whether Motion sensitivity is correctly set up
- Check whether recording condition is correctly set up for the right camera.
- *C) Symptoms*: No video recording is done by alarm event.

### Solution:

- Check alarm event condition whether configuration is correctly set up.
- Check out whether the sensors are correctly working or not. Connect each

FlexWATCH sever and check out its sensors' functionality.

## 15.5. Relay Output Control

A) Symptoms: Alarm Output device does not work through Relay Output control panel of FlexWATCH Manager.

Solution:

- Check Relay Output tab in Server Property.
- Check DO activation configuration is correctly done or not.

- Check if DI is correctly working or not.

## 15.6. PTZ Control

A) Symptoms: PTZ does not work through FlexWATCH Manager.

Solution:

Check whether PTZ works through Web browser. If it doesn't work, check out PTZ cabling and PTZ configuration in the FlexWATCH server.

### 15.7. Virtual Memory Error Messages

A) Symptoms: When you see a virtual Memory Error message while displaying cameras.

**Solution**: In Windows 2000 or Windows XP, if your PC doesn't have enough virtual memory, you may get this kind of a message.

### Properties of "My Computer" $\rightarrow$ "Advanced" tab $\rightarrow$ "Settings" in Performance $\rightarrow$ "Advanced" tab $\rightarrow$ "Change" in Virtual memory.

Now you can change the virtual memory size by Custom size. It is recommended that you enter 2 times more than actual RAM size.