User's Guide FlexWATCH[®] 1120

Seyeon Technology Co., Ltd www.flexwatch.com

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Quick Installation

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Before You Begin

You must have the following :

Web Browser : Internet Explorer 6.0 or later Wired Hub / Switch / Router CD-ROM Drive

O/S : MS Windows XP, 2000, ME, 98 SE CPU : Pentium 4 1.4 GHz or AMD Athlon 1GHz (Recommend Pentium 4 2.0 GHz or above) Memory : DDR SDRAM 256MB or higher Network : 10/100 Mbps network card

Check Your Package

Please check and make sure all of following items are included in your package without any items missing.





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Signup your DDNS a	account. (Ex. Dy	nDNS)		
- Access DDNS Servi - Signup DDNS accou "Http://www.dyndns.c Reason is, supports i	ce site which IP S ant and running IE com" is suggested most of IP router.	Charer support. D, Password and Hostr as DDNS service pro	name. vider.	
🛞 Dyn DN	NS	Ler:	Tensi Leal theorem 2 - Septilar theorem	n
Installa Bal	About Services	Account Support	News	1. Click SignUp Nov
 Run your own server Mail delivery solutions Static and dynamic IPs Easy-to-use web interfactories Top-notch technical subsection 	ace pport	Learn more.	state and opnamic ID addresses sp Services alable mail dalwary ric Monalloving your online services, 24(7):365 rtflicaters alay digital portificates	2. Create Account (Input User name E-mail address, Password) 3. You will receive a e-mail containing instructions to
Resources What is Dre57 Home Solutions	roDHS Receives "Best Buy" Ranking Services Custom DHS Dynamic DHS	Support Knowledge Base Update Clerits	SSL OertRodes About DynDNS Search DynDNS DynDNS DynDNS Careers	activate your acc Follow for instructions.
Business Solutions	MailHop Cuthound	24/7 Premier Support	Contact Us	 4. Login DynDNS wi user name and password.
Http://www.dyndns	.com	an ter - Crist Lint - Cristian ration		 5. Click <u>Service</u> to register service.
Custom DNS - Secondary DNS Recursive DNS Dynamic DNS Static DNS - A	Our flagship DNS ma 5 - Add reliability to y - Ensure DNS resolu - A free DNS service for free DNS service for 5 for operators of cc'	nagement tool for your ov your own nameservers tion for your DNS queries for those with dynamic IP those with static IP address TLDs and gTLDs	vn domain addresses ses	6. Click <u>Dynamic Di</u> to register DDNS.
Add Dynamic DN	<u>15</u> - <u>Manage Existin</u> c	I Hosts		7. Click Add Dynam
New Dynamic D	NS™ Host			Dynamic DNS.
Hestnamez		dyndns.org 💌		8. Input Hostname
IP Addresss 22	22.106.247.158			and Click "Add Ho
Eashie Wilds and				



Note: For more information about setup IP sharer, please contact manufacturer of IP sharer.

Turne the re	
(By default	the router's address is 192.168.0.1).
The Setup	Mizard appears.
Linder Adv	anced click Port Forwarding on the left menu har
Ports	anced, check i of the warding on the left ment bar
Service &	Game Server IP Address
HTTP	Add Server
# 1	HTTP 80 80 192.168.0.3
	Outland Services Delate Services
Add	Lastom Service Edit Service Delete Service
A Po	t Forwarding Screen (Varies Slightly by Router)
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Note: For more information about setup IP sharer, please contact manufacturer of IP sharer.

The Setup Wizard 2. Enter the router's	appears. s username	ess is 192.	166.0.1).				
2. Enter the router's	s username						
3. Under Advanced		and passw	vord				
	, click Virtu	ual Server o	on the left n	nenu bar			
D -Link	_		AirF	Premi	erAct		
Building Networks for People		1	1a/11g Dualbar	nd Wireless 10	8Mbps Router		
DI-784	Home	Advanced	Tools	Status	Holo		
	Virtual Server	Autoniceu	10015	Status	neip		
Virtual Server	Virtual Server is	used to allow Intern	et users access to	LAN services.		\rightarrow	A. Select "Enable"
	Name	C Enabled C Di	sabled	Clear			
Applications	Private IP]				
	Protocol Type	TCP V					B. Input Name, Priva
Filters	Private Port						(IP address of FW-1
Firewall	Schedule	O Always					C. Select Protocol T
		O From time 00	▼ : 00 ▼ AM	♥ to 00 ♥ : 0	AM V		HTTP and input priv
DMZ		day Sur	n 🚩 to Sun 💌				port and public port
				C A	00		html port(80)
Performance	Virtual Servers	List		Appl	v Cancel Help		D select "Always" a
	Name	P D	rivate IP Protoco	ol Sc	hedule		schedule
	Virtual Serv	er HTTP 0.	0.0.0 TCP 80	0/80 alw	ays 🔄		
	Virtual Serv	er HTTPS 0. er DNS 0.	0.0.0 TCP 44	13/443 alw 3/53 alw	ays 📑		E. Click "Apply" to s
	Virtual Serv	er SMTP 0.	0.0.0 TCP 25	5/25 alv	rays 📑		configuration
4. Setup Dynamic I	DNS config	uration					
From the Main M	lenu of the	browser in	terface, un	der Tools,			
click "Misc" on t	the left mer	าน.					
Dumannia DNC							
DDNS	Enable	d 💿 Dicabler	ч				A. Select "Enable"
Sever Addrees		u 🕑 Lisabled	u				D 1
Jener Audress							B. Input Server add
nost Name							
Username				_			C. Input Host Name
Password							D. In must I lo anno 19
							D. Input Osername a
							Password.
				C A	0 0		Password.

Note: For more information about setup IP sharer, please contact manufacturer of IP sharer.

Installation of FwManager

1. Insert the FwManager CD



Find and run "fwmng_9ch.exe" file

Location : Software > FwManager 9ch freeware

2. Installation wizard will start to install the program. Click [Next] button.



3. Select "I accept the terms in the License Agreement" and click [Next] button.



4. Select the Folder in which you would like to install the FwManager. Default folder is 'C:\Program Files\Seyeon Tech\FlexWATCH Manager'. You can browse your folder and install the program in another folder as well.

Click [Install] button.

FlexWATCH Manager 2.05.00 Setup	
Choose Install Location Choose the folder in which to install FlexWATCH Manager 2.05.00.	
Setup will install FlexWATCH Manager 2.05.00 in the following folder. To instal folder, click Browse and select another folder. Click Install to start the installat	l in a different ion.
Destination Folder	owse
C.\Program Files\Seyeon Tech\FlexWATCH Manager	owse
Space required: 58.3MB	
Space available: 21.598	
exWATCH Install System	
< Back Install	Cancel
< Edge Tupen	Carloon

5. Please wait while FlexWATCH Manager is being installed.

istalling Please wait while FlexWATCH Manager 2.05.00 is t	eing installed.	
Extract: mot_off_352.bmp 100%		

Extract: Circulation_down.bmp 100% Extract: Circulation_focus.bmp 100% Extract: Circulation_up.bmp 100% Extract: Close_disable.bmp 100% Extract: Close_down.bmp 100% Extract: Close_focus.bmp 100% Extract: CirculsComp 100% Extract: FwbloSconnet.bmp 100% Extract: FwbloSconnet.bmp 100% Extract: FwbloSconnet.bmp 100% Extract: FwbloSconnet.bmp 100% Extract: rwbloSconnet.bmp 100% Extract: rwbloSconnet.bmp 100%		
WATCH Install System		
	e David	Canad

- 6. Now, FlexWATCH Manager Installation is finished successfully.
 - Click [Finish] button to close install wizard.

FlexWATCH Manage	er 2.05.00 Setup	
Flex WATC	Completing the Flex Manager 2.05.00 Se FlexWATCH Manager 2.05.00 he computer. Click Finish to close this wizard.	WATCH etup Wizard is been installed on your
	< Back	Einish Cancel

7. Run FlexWATCH Manager to use.

Location : Programs > FlexWATCH Manager > FlexWATCH Manager

	Windows Catalog Windows Update					
	Programs	•	Accessories FlexWATCH Explorer	•		
3	Documents	+	FlexWATCH Manager	٠	8	FlexWATCH
3	Settings		m Snaglt32 M FlexWATCH	* *		FlexWATCH Manager Player LITE
P	Search		FlexWATCH Voyager Control 3.0	•	8	Uninstall FlexWATCH Manager
?)	Help and Support		FlexWATCH LiveView Control			
	Run		\$			
P	Log Off Greg Kim					
ก	Turn Off Computer					

NOTICE!

If you need more information about using FW Manager 2.05, please refer user's guide

Part I

Product Overview

1. Overview of FlexWATCH[®] Server

What is FlexWATCH[®]?

The FlexWATCH[®] server is the Network camera Server, which transmits digital images captured by Analog CCD/CMOS cameras over the Internet. So users can view real-time live images over the Internet at anytime and anywhere using the standard web browser such as MS Internet Explorer or Netscape Communicator. There is no need for other specific software to view real-time live images over the Internet. The FlexWATCH[®] server is state-of-the art device and leads new generation of monitoring and security solution.

Introduction to FW-1120

FW-1120 is the stand alone camera server, which transmits 1 channel video input from built-in CMOS camera through IP(Internet Protocol) Network. FW-1120 can transmit the video data with maximum 30 fps(NTSC) through LAN, leased line, DSL and Cable modem. So user can view real-time live images over the internet at anytime and anywhere using the Web Browser (MS Internet Explorer or Netscape Communicator) where network is connected to FW-1120. FW-1120 supports three kinds of image resolution (640x480/ 320x240/160x120) and six kinds of image quality.



FW-1120

1.1. Key Features

Stand-alone camera with built-in web server 10M/100M auto-sensing Ethernet Camera administration and control by web browser Transmission speed up to 30 fps through TCP/IP network (50Hz power frequency area: 25fps) Dynamic IP network support Sensor Input, Digital Output supporting Multiple user level for security protection Image transmission through E-Mail

1.2. Product Specification

Model		FlexWATCH [®] -1120				
	CPU	32bit Embedded CPU				
Llordwore	OS	Embedded Linux				
Hardware	Flash Memory	4Mbyte				
	SDRAM	32Mbyte				
Image	Algorithm	Standard H/W M-JPEG, JPEG				
Compression	Level (6 Level)	Low compression, highest, high, normal, low, lowest				
Performance	Compression / Transmission Speed	Maximum 30fps(Power Frequency: 60Hz)/ 25fps(Power Frequency: 25Hz)				
Resolution		3 Level [640x480,320x240,160x120]				
Camera	Image sensor	VGA Class CMOS Sensor				
Camera	Light Sensitivity	Min 10 Lux				
Network	Protocol	HTTP, TCP/IP, ARP, Telnet, Ftp, RARP, PPP, SMTP, DHCP, etc				
Network	LAN Interface(RJ-45)	Ethernet 10/100 Base-T, PPPoE/DHCP				
Serial Port	Com port(RS-232)	Console				
Alarm Input/Output		Sensor 1 Input(NC/NO selectable) / Alarm 1 Output(Relay)				
	Mah Provisor	MS Windows Internet Explorer 6.0 or Higher				
	Web Browser	Web Browser support SUN JRE 1.4 or Higher(restricted				
Monitoring	Recording S/W	Monitoring/Control/Recording/Search with Voyager S/W(Freeware)				
	(Voyager s/w)	Alarm warning/DO control function				
Remote administration	System Upgrade	Upgrade Software(firmware/Web) by remote access				
Ontional	Image transmission	Image Capture and E-mail transmission by Sensor/Motion Detection				
Function	Dynamic IP Support	Dynamic IP Support with x-DSL/Cable modem(www.aoip.co.kr)				
	Motion Detection	Built-in Hardware Motion Detection				
Socurity function		Password access function by Administrator				
Security function	211	ID/Password access by multiple user				
Operating Temp	perature/Humidity	5℃~50℃(40°~125°F)/20%~80% RH				
Power supply U	sage	SMPS DC 12V/1.5A[AC 110/220V 50/60Hz]				
Measurement	Size(mm)	91(W)x140(D)x40(H)mm				
(WxDxH)	Weight(kg)	Approximately 170 g				

1.3. FW-1120 Packing List

Please check and make sure all of the following items are included in your FW-1120 package without any missing items.

FlexWATCH [®] 1120	1 unit	
Power Supply (Power Cable & SMPS DC12V Adapter)	1 unit	
Manual, Software CD	1 unit	Ø
Camera Bracket	1 unit	Ī
Screw Bolt	3 EA	

If there are any missing items, please refer to your local distributor.

1.4. Basic Network Connection Diagram

FlexWATCH[®] server provides flexible connectivity with any type of networks available around you such as Leased line, Cable modem, xDSL modem and PSTN modem. Thus it can be installed either LAN or WAN environment as long as there is network available not only public network but also private network. There are three connection methods to configure network for using FlexWATCH[®].

1.4.1. Leased Line connection

Public static IP is using leased line connection and assigns to FlexWATCH[®] and receives live view through local access and Internet access.



1.4.2. Static IP address from Cable modem or xDSL line



FlexWATCH[®] can be used by static IP through cable modem or xDSL line.

1.4.3. Dynamic IP address from Cable modem or xDSL line

FlexWATCH[®] can be used by dynamic IP through cable modem or xDSL line. AOIP Server from seyeon tech can be used for supporting Dynamic IP.



1.5. Application

FW-1120 is TCP/IP based remote video surveillance system for trusted and flexible network configuration. FW-1120 is capable of gathering remote video data from wide regions. Image from FW-1120 transfers through IP based network. Users can use functions of video monitoring, recording to client PC, and playback from recorded image. FW-1120 can be also connected with other FlexWATCH products for convenient control, recording, and playback.

Multiple FlexWATCH products can be configured through FlexWATCH Manager for much powerful surveillance system.

FW-1120 can be used as stand-alone or co-work with other FlexWATCH products for adapting various sites.

- Small shop, Franchise shop
- Distributed video recording for local facility
- Remote monitoring for office
- > Industrial monitoring for factory, power plant
- > Field office monitoring for multiple sites.
- > Monitoring for garage, warehouse, gas station.

2. Hardware Description

2.1. FW-1120 Front Panel View



А	State LED	Red	Red-light is on when powered on and initializing state
		Orange	Finish initializing and active state
В	LAN LED	Green	Indicate state that network access is possible
	(Network	Orange	LAN is connected normally but network setting is not
	State LED)		finished and communication is impossible (lights on when
			Booting or modifying network configuration.)
		Red	LAN cable is not connected when booting or modifying
			network configuration.
		Off	LAN cable is not connected.

2.2. FW-1120 Rear Panel View



А	LAN	LAN Port for 10/100M Base T Auto sensing
В	DI/DO	Connect to sensor input and alarm output
С	СОМ	Console port to device setting (UART-Out, UART-In)
D	Reset Button	Revert to factory default
E	DC12V COM	DC 12V 1.5A [SMPS]

3. FW-1120 installation and basic configuration

3.1. Check points before system installation

- > Please read this user's manual carefully before installation.
- Check user network environment (IP Address, Network Mask and default gateway)
- > Assign FW-1120 with secure IP address.

3.2. Factory Default

Please refer to the following factory defaults to change settings.

	Factory Default
Admin ID	Root
Admin password	Root
IP address	10.20.30.40
Network mask	255.255.255.0
Gateway	None

(F

Admin ID and password is case sensitive.

3.3. FW-1120 Hardware installation

Please follow instruction as below for FW-1120 installation.

- A) Locate place to install FW-1120.
- B) Connect LAN port of FW-1120 to local area network.
- *C)* Supply power to FW-1120.

Next steps of FW-1120 installation are as below.

First, setup network configuration (After IP Assignment, run web browser and input IP address) Second, setup camera setting(Direction, focus, function control with live view)

Third, setup for service (setup and save configuration through admin menu)

Refer to related chapter for more detailed information about setup. User must setup network configuration first! Due to FW1120 configuration is done through the web.

3.4. Network configuration

First step of network configuration is assigning IP address to FW1120 with network environment suitable to users. Other configuration should be conducted after first step. There are two methods of IP assignments. First method is by using FlexWATCH Explorer included in the CD. Second method is using **terminal emulation program** (Example: Hyper Terminal in Microsoft Windows)

3.4.1. IP assignment through FlexWATCH Explorer

You can easily setup basic IP assignments with FlexWATCH Explorer. After the assignment, other configuration setup can be done through the web browser. Please refer to FlexWATCH Explorer user's guide for installation of FlexWATCH Explorer (FlexWATCH Explorer (FlexWATCH Explorer_Installer_eng_1.01.exe in CD)



Select "Live View" menu to see live display of FW-1120.



4. FW-1120 Operation

4.1. "Home" screen

After network configuration from previous steps, users can access to FW-1120 through web browser on PC.



Move the cursor to 4 menu tabs on screen to show each simple description image on center area.

4.2. "Live View" menu

4.2.1. Live View

A) After installation, access to FW-1120 and click Live View, on the top of the right side security warning message window will pop-up as below.

Click 'Yes' then live view will be displayed. (Installation of ActiveX Control is needed to show live view when using windows XP)



(Windows XP Security Warning screen)



4.2.2. Camera Control Page Guide

	Menu Description
Image	Description
р сам	Camera Control menu
Speed fastest 💌	Control Frame speed.
Pause Play	Click to toggle pause or play current camera screen.
ញြံ Տոαρ	You can make a snapshot of video while viewing the live video as jpg file format named "Year,Month,Day_Hour,Min,Sec_cam1.jpg"
■ Voice	Enable two way voice communication with VoiceKit (FW-V10s)
% DO	Control DO for signal from DI.

4.2.3. PTZ Control button description

	PTZ Control menu button
🔹 РТZ	FW-1120 has no function to control PTZ device
	directly. Control menu will be disabled.

(F

Live Viewer program is ActiveX control for all FlexWATCH products. FW-1120 does not support PTZ control; PTZ control menu is shown but disabled.

4.3. "Admin" menu

On this menu, as an administrator, you can setup and save all configurations of FW-1120. To access admin menu, admin user ID and Password is required.

Factory default value of admin ID and Password is "root" and "root". You can change admin password after login to admin Menu.

Part II of this manual describes the detail information's of admin menu.

Part II

Admin Menu of Web Page

5. Admin Menu

You can setup and save all configurations of FlexWATCH[®] Server as an administrator. For login to admin menu, admin ID and Password is required.

Factory default value of admin ID and Password is "root" and "root". You can change admin password after login to admin Menu.

5.1. Accessing Admin Menu

A) Access FlexWATCH[®] Server through web browser, you may see screen as below.

Your browser i	your remote eye.					
8 AFT	e-surveillance leader !!	Home	Y Live View Y	Admin	Y Sample	
	A flexible way to watch the remote site					
		monitoring through web.				

B) Click admin menu, then admin login window will be shown as below.

A flexible way to watch the remote site monitoring through web.	STATE -	e-surveillance leader !!	Home	Y Live View	Admin	Sample
Enter Network Password This secure Web Site (at 10.10.232.254) requires you to log on. Please type the User Name and Password that you use for GoAhead. User Name Toot		A	lexible wa	y to watch the moni	remote sit toring thr	te ough web.
Please type the User Name and Password that you use for GoAhead. User Name Toot		Enter Network Passwo	r d 5 Site (at 10.10.232.254) r	equires you to log on.		
		Please type the	Jser Name and Password	I that you use for GoAhead.		

C) Input ID: root and Password (default: root) and press Enter key to access admin menu.



D) Menu Screen

① :List of admin menu is shown. FlexWATCH[®] Server has menus for System Status, System Setup, Network Setup, Device Setup, and Utility. Each menus have several sub menus.

② : Click each blue menu list (System Status, System Setup, Network Setup, Device Setup, Utility) to show small descriptions for menus and sub menus.

5.2. Admin Menu Structure

Admin Menu is structured as below. Each sub menus will be explained on next chapter.

Menu	Sub Menu
System Status	System Information
	Network Status
	Device Status
System Setup	System Setup
	User & Password Setup

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	Date & Time Setup
Network Setup	Network Setup
	Network Port Setup
	AOIP Setup
Device Setup	Camera Setup
	Alarm Notification
	Alarm Setup / Control
Utility	Save Configuration
	System Update
	Reboot

6. System Status Menu

System status menu shows the system status of FW-1120. This menu shows system information, time / date, network status, configuration status of video display, status of DI/DO and etc. Modification of configuration is not possible in this menu.



6.1. System Information

System Information shows system information of FlexWATCH[®] Server name, serial number, model, version, date/time and NTP server setting.

Suctom Statue			
» System Information			
» Device Status			
System Setup	System Information		
» User & Password Setup » Date & Time Setup	Server name Flex-W/ADSH		
	Serial number 00-30/6F/81/02/F.	5	
Network Setup Network Setup Network Port Setup AOIP Setup	Model FWA1126-A	1	
	Version 1.0.050419		
	Date (yyy/mm/dd) 2006 / 4	[29]	
Device Setup	Time (hh:mm:ss) 0.9 : 37 :	12	
20 Camera Setup	NTP Server ntp.ewha.net		
S Alarm Nutrication	NTP Status Disable	Disable	

Menu configuration

Server Name	Name of FW-1120
Serial Number	Serial Number of FW-1120 (Defined as MAC Address)
Model	Model name of FW-1120
Version	Product version of FW-1120
Date	Date of FW-1120 (local time)
Time	Time of FW-1120 (local time)
NTP Server	Address of NTP server, (Using NTP for time sync)
NTP Status	After booting, FW-1120 sync time from NTP server on every 24
	hours

6.2. Network Status

Network Status menu shows status of network, HTTP port and AOIP configuration.

System Status >> System Information >> <u>Network Status</u> >> Device Status	Network Status
System Setun	Common Status
» System Setup	Gateway 10.10 I 1
>> User & Password Setup	Gateway Device eth0
» Date & Time Setup	DNS1 168 126 63 1
Network Setup	DNS2 168 126.63.2
» Network Setup	I AN Status
» AOIP Setup	IP Address 10.10.227.20
Device Setup	Netmask 255/255/0,0
» Camera Setup	MAC Address 00:30 6F 81 02 F2
>> Alarm Notification >> Alarm Setup / Control	PPPoE Status
	Connection Status Link is down
Utility	IP Address
» System Update	Netmask
» Reboot	Wab Port Status
	Web Port BD
	AOIP Status
	AOIP Server IP www.aorp.dd.kr
	AOIP Service 🔄 Enable Disable
	60.02
	Kelbad

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6.3. Device Status

Device status menu shows status of camera and configurations of DI/DO.

System Status System Information		
Notwork Status Device Status	> Device Status	
	Camera Status	
w System Setun	Camera Name Camera 1	1
>> User & Password Setup	Image Size 320 × 240	
» Date & Time Setup	Image Quality Normal	
Network Setup	Motion Enable Enable Disable	
>> Network Setup	Power Frequency 👘 60Hz 50Hz	
» AOIP Setup	DI Status	
Device Onter	DI Name Di 1	
Setup	Mail Notification Enable Disable	
>> Alarm Notification	SMTP Server	
>> Alarm Setup / Control	Authentication Login Enable Disable	e.
Utility	DO Status	
Save Configuration	DO Name	
» System Update » Reboot	Current Status Enable Disable	
	Reload	

7. System Setup Menu

System setup menu shows the detailed method of FW-1120 for system configuration.



7.1. System Setup



7.1.1. Server Name

Input user defined server name. The server name can be 21-alpha-numeric or 10unicode. White character such as 'space', 'Tab' and Meta characters cannot be used for server name.

7.1.2. Access Permission

Access permission set's access permission to FlexWATCH® Server.

 Access Permission 	
Full Access (View and control camera & voice without permission)	
O Limited Access (in accordance with an user's permission.)	

Full Access	View and control camera without permission.
Limited Access	Users who are registered in system can access FlexWATCH server.
	If this option is selected, even administrator cannot use live view.

7.1.3. Frame Rate Control

Frame rate control menu enables you to control maximum video transmission speed of FW-1120. Select the values from among the 30,15,10,5,2,1 and then will be displayed as frame selected.

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7.1.4. Apply System Setup

After configuration of access permission and frame rate control, press "Apply" button on the bottom to apply selected configuration of FW-1120.

System Setup	System Information		
» <u>System Setup</u> » User & Password Setup » Date & Time Setup	Server name	Flex-WATCH	
Network Setup » Network Setup » Network Port Setup » AOIP Setup	Notice : The serv	er name can be 21-alpha-num mission	ieric ar 10-unicode.
Device Setup	O Full Access (View and control camera & void	ce without permission)
» Camera Setup » Alarm Notification » Alarm Setup / Control	Limited Acce	ss (In accordance with an user	's permission.)
Utility	/ Frame Rate	Control	
» Save Configuration	Maximum Frame	Rate 30 fps 💌	
» Reboot	Notice : Video tra It enable	nsmission speed can be set b s you to control the bandwidth. Apply	y frame rate per second.

7.2. User & Password Setup

User & password menu enables you to edit the password of administrator's password.

You may also add, edit, and delete user in this menu.

System Setun	 Administrator's P 	assword Configuration
>> System Setun	Administrator's ID	root
» User & Password Setup Date 9. Time Setup	Old Password	
	New Password	
Network Setup » Network Setup	Confirm Password	
» Network Port Setup » AOIP Setup	Notice : The password r	nust be alpha-numeric, within 4 ~ 23 characters.
Device Setup » Camera Setup » Alarm Notification » Alarm Setup / Control	 User Registration Add 	Apply n (Add) Edit O Delete O
» Save Configuration	UserID	
>> System Update	Password	
W REDUCT	Confirm password	
	Name	
	Notice : The User ID & Pa	assword must be alpha-numeric within 23 charecters.

7.2.1. Administrator Password Configuration

To edit password of administrator on FW-1120, input present defined password as "Old Password", input new user defined password as "New Password", and "Confirm Password". Press "Apply" button after input of passwords. "New Password" and "Confirm Password" must match to change password.

dministrator's ID	root
Id Password	
lew Password	
Confirm Doceword	

7.2.2. User Registration

User registration menu enables to register general users to FW-1120. Add, Edit, and delete can be selected from radio buttons shown as picture below.

User ID		
Password		
Confirm password		
Name		

A) User Add (Add)

User adds menu enables to create and add users. You can set ID, Password, and user name. After input of "User ID", "Password", "Confirm password", and "Name", click "Apply" button to add user.

User ID		
assword		
Confirm password		
Name		

B) User Edit (Edit)

This menu enables to edit user password and "Name" Select "Edit" from the top.

User ID	Select Userid 💌
Password	
Confirm password	
Name	

Click User ID combo box and select "Select UserId".

UserID		Select	Liserid 👻	
Password		Select	Userld	
Confirm passwori	Ч	test1 guest		
Jame	-			

After edit, click "Apply" to apply changes.

User ID	test1 💌
Password	••••
Confirm password	••••
Name	user

C) User Delete (Delete)

This menu enables to delete registered users. Select "Delete" from the top.

Select user ID on the registered user list and click "Delete" button.



7.3. Date & Time Setup

Date & time menu enables you to set date, time, time zone, and NTP configuration.

» User & Password Setup	Date (yyyy/mm/dd)	2006 / 4 / 29
» Date & Time Setup	Time (hh.mm.ss)	09 : 42 : 57
Vetwork Setup >> Network Setup >> Network Port Setup	Time Zone	Change Time Zone Asia/Seoul
» AOIP Setup	Notice : If you change the	e Time Zone' and click 'Apply' button, you need to reb
* AOIP Setup Device Setup * Camera Setup * Alarm Notification * Alarm Setup (Control	Notice : If you change the the system. • NTP Setup	• 'Time Zone' and click 'Apply' button, you need to reb
» AOIP Setup Device Setup » Camera Setup » Alarm Notification » Alarm Setup / Control	Notice : If you change the the system: • NTP Setup NTP server address	• Time Zone' and click 'Apply' button, you need to reb ntp.ewha.net
** AOIP Setup Device Setup ** Camera Setup ** Alarm Notification ** Alarm Setup / Control Utility ** Save Configuration	Notice : If you change the the system: • NTP Setup NTP server address Service	• Time Zone' and click 'Apply' button, you need to reb ntp.ewha.net O Enable O Disable

7.3.1. Date & Time Configuration

Date & time configuration menu enables to set internal date/time of FW-1120 item descriptions are as below.

Date (yyyy/mm/dd)	Display present date (Year / Month / Day)
Time (hh:mm:ss)	Display present time (Hour / Min / Sec). (24 hour mode)
Time Zone	Display local time zone.

Date and time on screen is a temporary time displayed on "Date & Time Setup" menu. This may have differences with present time of FW-1120.

7.3.2. NTP Setup

NTP setup menu enables to synchronize time of FW-1120 with time from internet time server once every 24 hours periodically.

	NTP Setup			
	NTP server address	ntp.ewha.net		
	Service	🔿 Enable 💿 Disable		
	NTP sever time	Get NTP server time		
NTP Server	Present defin	ed NTP server		
Service	Enable or dis	able to synchron	ize time of FV	V-1120 and time from
	NTP Server o	nce every 24 ho	urs periodical	ly. (Once every 24
	hours after b	oot, get NTP ser	ver time.)	
NTP server time	If click "Get N	NTP server time"	button time v	will synchronize with

present UTP time from defined NTP server immediately even
though service status is disabled. Time zone will be changed to
proper local time. To reduce error range by network transmission
delay, select closest NTP server from where FW-1120 is installed.

* NTP (Network Time Protocol) Server : A server that provide precise date and time information through Internet.

To use NTP server, FW-1120 must be connected through Internet to Server

7.3.3. Apply Date & Time configuration and NTP setup

After configuration of time and NTP setup of FW-1120, click "Apply" button.

System Setup	 Date & Time Setu 	q
» System Setup » User & Password Setup	Date (www.immidd)	2006 / 4 / 29
» Date & Time Setup	Time (hh:mm:ss)	09 : 42 : 57
Network Setup % Network Setup	Time Zone	Change Time Zone
🐅 Network Port Setup		
» AOIP Setup	Notice : If you change the	Time Zone' and click 'Apply' button, you need to rebo
» AOIP Setup	Notice : If you change the the system.	"Time Zone' and click 'Apply' button, you need to reboi
» AOIP Setup Device Setup » Camera Setup » Alarm Notification » Alarm Setup (Constral	Notice : If you change the the system. • NTP Setup	'Time Zone' and click 'Apply' button, you need to reboi
» AOIP Setup Device Setup » Camera Setup » Alarm Notification » Alarm Setup / Control	Notice : If you change the the system. • NTP Setup NTP server address	'Time Zone' and click 'Apply' button, you need to reboon not see to reboon not see to reboon not see to reboon not not not not not not not not not
AOIP Setup Comera Setup Alarm Notification Alarm Setup / Control Utility Save Configuration	Notice : If you change the the system. • NTP Setup NTP server address Service	Time Zone' and click 'Apply' button, you need to reboon not see the second seco

7.3.4. FlexWATCH[®] TIME

Generally, most of all O/S should set internal clock once after booting and Linux is same as other O/S. There are two ways to receive present time for O/S. The 1st way is using RTC inside of system and the 2nd way is using timeserver through network. Internal RTC clock have its own error range. In time-to-time, internal RTC will have time differences and error range will be enlarged. Even though you set the clock precisely. Time differences will happen and error range will be enlarged. Using timeserver to get present time will have some delay due to network latency. Getting the time from the time server will be more precise and has more advantages. FlexWATCH[®] can be used in network environment where access to time server is not possible. FlexWATCH[®] provides both ways to get present time.

Daylight Saving

FlexWATCH[®] supports Daylight Savings (Summer time). Different time zones or conditions can be selected from Date & Time Configuration. If FlexWATCH[®] is under daylight savings region, applicable time zone will be defined and be applied. There are two ways of knowing the time of the FlexWATCH[®]. 1st is through FlexWATCH[®] web page, 2nd is login to HyperTerminal and use 'date' command, displayed time will be local time where daylight savings is applied. Input time zone information to FlexWATCH[®] precisely.

UTC and Local Time

UTC means Universal Time and local time means local area time. Linux internal clock will express as UTC. Which will be displayed as local time to users, exchanging local time through time zone. FlexWATCH[®] uses Linux Internal clock, which is UTC and displayed time for user is local time.

NTP

Time from NTP is UTC. System will exchange this UTC time to local time through own its local time zone. NTP Server doesn't need to place in local region. But time differences can be happened when you use NTP server located in far from your country.

8. Network Setup

Network setup menu enables to setup whole network configuration of FW-1120.

System Status		
» System Information » Network Status » Device Status	This catagory shows th	Network Setup
System Setup	This category shows th	e detailed metilod for network system.
» System Setup	>> Network IP Setup	Configuration of Network(Static, DHCP, PPPoE)
» User & Password Setup » Date & Time Setup	»Network Port Setup	Modification of HTTP and other application network port numbers.
Network Setup	» AOIP Setup	Configuration of dynamic IP registration of FW-1120.
» Network Setup » Network Port Setup » AOIP Setup		
Device Setup » Camera Setup » Alarm Notification » Alarm Setup / Control		
Utility		
>> Save Configuration >> System Update >> Reboot		

8.1. Network Setup

Network configuration of FW-1120. Assign IP address, Net Mask, Gateway, DNS1 and DNS2, following network environment where FW-1120 is installed. You may also setup PPPoE configuration, if FlexWATCH[®] is connected to ADSL modem directly.

System Information Network Status Device Status System Setup System Setup User R Desenord Setup	Connection Type Static IP DF	ICP Client
» Date & Time Setup	IP Address	10 10 227 20
Network Setun	NetMask	255 255 0.0
» Network Setup » Network Port Setup	GateWay	10.10.1.1
» AOIP Setup	DNS 1	168.126.63.1
Device Setup	DNS 2	168.126.63.2
» Alarm Notification » Alarm Setup / Control (fility	• PPPoE Configuration	Apply
» Save Configuration	Service	🔿 Enable 💿 Disable
» System Update » Reboot	UserID	test
	User Password	
	Confirm Password	
	DNS 1	168.126.63.1
	DNS 2	168.126.63.2
	Notice : If you want to use AOIP or	Apply

8.1.1. IP Configuration on FW-1120

- A) Static IP: Select only if you can get static IP address from network where FW-1120 is installed. In this case, if assigned IP address is private IP address, direct access to FlexWATCH[®] is possible in intranet and access through dynamic IP function to FlexWATCH is possible in extranet. If assigned IP address is public IP address, you can access to FlexWATCH[®] without dynamic IP function directly.
- B) DHCP Client: If FW-1120 is located in network which have DHCP server or ISP provider support DHCP Server, DHCP client can be selected. In example almost ISP service (Cable modem, ADSL, VDSL) support DHCP service. Select DHCP client for auto IP assignment from DHCP server.
- C) PPPoE: If ADSL modem is connected to FW-1120 directly, PPPoE can be selected. In this case, ID and Password from ISP is required to login.

If Static IP or DHCP Client is selected, PPPoE can be set seperately.

8.1.2. Assign by Static IP

Select "Static IP" and input IP Address, NetMask, Gateway, DNS.

Static IP 💿 🔪	DHCP Client 🔘	
etwork Configur	ation : Static IP	
P Address	10.10.10.22	
NetMask	255.255.255.0	
GateWay	10.10.10.1	
DNS 1	168.126.63.1	
DND 2	168 126 63 2	

After input, click "Apply" button to apply settings to FW-1120.

Static IP 💿	DHCP Client 🔘	
etwork Configura	ation : Static IP	
IP Address	10.10.10.22	
NetMask	255.255.255.0	
GateWay	10.10.10.1	
DNS 1	168.126.63.1	
DNS 2	168.126.63.2	

When result message pop-up, click "Close" to close web browsers that FW-1120 is connected.



Please wait for an about 1 minute, and you can access FlexWATCH[®] via web browser with assigned IP address.

8.1.3. Assign by DHCP Client

You can use DHCP client when network where FW-1120 is installed, have DHCP server. Select DHCP Client and input DNS information.

o on the out of the	
Static IP 🔘	DHCP Client 💿
Network Config	guration : DHCP Client

After input click "Apply" button.

 Connection Type 	be
Static IP 🔿	DHCP Client 💿
 Network Config 	juration : DHCP Client
	Long States and

When result message is pop-up, click "Close" to close web browsers that FW-1120 is connected.

Approximately 1 minute is needed to IP assignment. If you use DHCP Client, access with previous IP address would may not possible. So check assigned IP address by using FlexWATCH Explorer, you can access FlexWATCH[®] by newly assigned IP address.

8.1.4. Assign by PPPoE

PPPoE can be used If FW-1120 is connected to ADSL modem directly and protocol from ISP is PPPoE. For using PPPoE, select "Enable" as below and input ID and Password from ISP.

	enable o Disable	
Jser ID	Sylalood	
Jser Password	******	
Confirm Password	*******	1

After Input, click "Apply" button.

Service	🖲 Enable 🔘 Disable	
UserID	syta1000	-
User Password	*******	
Confirm Doceword		

When result message pop-up, click "Close" to close web browsers, which FW-1120 is connected. PPPoE network configuration is now applied.

	Result
New netw Please re-	ork configuration is applied. connect with the new ip address if necessary.
	Close

Static IP/DHCP IP will not changed if PPPoE is selected.

8.2. Network Port Setup

Set port numbers when FW-1120 is communicated via TCP/IP protocol.

System Setup	Network Port Configuration		
System Setup	HTTP Port	80	(Default:80, 80 ~ 65535)
» Date & Time Setup	Advanced Ports Control Ports Control		
Network Setup » Network Setup <u> » Network Port Setup</u> » AOIP Setup Device Setup	Notice • HTTP Port : Fo • If you want to s please click "F	r web access and video tr et up the other ports. Ports Control" button above Apply	ansmission. 9.

8.2.1. Setup HTTP port

HTTP port is a port where FlexWATCH[®] is accessed in Web browser. This port may be changed as user defined. Default port is 80 and maximum selective port is 65535. (It must be different with other port number.)

System Setup	Network Port Configuration		
» System Setup	HTTP Port	80	Default:80, 80 ~ 65535)
» Date & Time Setup	Advanced Ports Control	Ports Control	
Network Setup » Network Setup » <u>Network Port Setup</u> » AOIP Setup	Notice • HTTP Port : Fo • If you want to s please click "F	ir web access and video (set up the other ports, Ports Control'' button aboy	transmission. 1e.
Device Setup		Apply	

(F)

* If you change number of HTTP Port, HTTP port number must be included to the end of URL on web browser. Example, if IP address of FW-1120 is "192.168.1.100" and HTTP Port is 8080,you should input URL as follows : <u>http://192.168.1.100:8080</u>

8.2.2. Advanced Ports Control Setup

NVCP-Tx and VDCP port can be set by advanced ports control. For ports edit, click "Ports Control" button as below.

System Setup	Network Port Configuration		
» System Setup	HTTP Port	80	(Default:80, 80 ~ 65535)
» Date & Time Setup	Advanced Ports Control	Ports Control	
Network Setup » Network Setup » Network Port Setup » AOIP Setup	Notice • HTTP Port : F • If you want to please click "	or web access and video tr set up the other ports. Ports Control" button above	ransmission. e.
Device Setup » Camera Setup		Apply	

Advanced Ports configuration menu will be shown as below. You may set NVCP-Tx and VDCP port.



8.2.3. NVCP-Tx (Network Video Control Protocol) Port

A) Port Number is used as transfers of the video data from FW-1120 to other FlexWATCH[®] product

- **B)** Default value is 50200 and changeable within 10000 and 65535 range. (This must be different with other port number.)
- C) NVCP-Tx port is used to receive video data of FW-1120 from the other FlexWATCH[®] products (as NVR) on network

8.3. AOIP Setup

Notice : AOIP service is not a DDNS(Dynamic Domain Name Service). It's for System Integration purpose only, and prohibited for general use.

If you want to use DDNS service on Internet access of FlexWATCH[®] in general purposes, please refer to Internet access guide on this manual.

AOIP[®] Server has functions to access FlexWATCH[®] when IP address type is dynamic IP. In this menu, you can decide enable of AOIP[®] service. If service is enabled, FW-1120 report its dynamic IP and port to AOIP[®] server. Input AOIP server address and select "Enable" to use AOIP service. FW-1120 must be registered to AOIP[®] server.

» User & Password Setup	AOIP™ Setup		
» Date & Time Setup	AOIP Service	💿 Enable 🔿 Disable	
Network Setup >> Network Setup	AOIP Server IP	www.aoip.co.kr	
» AOIP Setup	Notice • AOIP servic It's for Syster	e is not a DDNS(Dynamic Domain Name Service). em Integration purpose only, and prohibited for general use. to use DDNS service for internet assess to ElevMATCH® in	
Device Setup » Camera Setup » Alarm Notification » Alarm Setup / Control	If you want to use DDNS service for internet access to Hex/WATCH@ in general purpose, please refer to Internet access guide on User's manual. • To establish a communication with AOIP server, you must register you FW server on AOIP server list.		
Utility			
» Save Configuration » System Update » Reboot	 AOIP serve your area. For more d 	r IP address may differ depending on AOIP service provider in etail, please contact your local distributor.	
		Apply	

9. Device Setup

Device setup menu is used on configuration of internal camera. DI and DO of FW-1120.

System Status » System Information			
» Network Status		Device Setup	
W Device Status	This category shows the detailed method for Device Configuration.		
System Setup	» Camera Setup	Configuration of camera mode and the details.	
» User & Password Setup	» Alarm Notification	Configuration of Alarm notification.	
» Date & Time Setup	» Alarm Setup / Control	Configuration of Alarm Input/Output name.	
» Network Setup » Network Port Setup » AOIP Setup			
Device Setup » Camera Setup » Alarm Notification » Alarm Setup / Control			
Utility » Save Configuration » System Update » Reboot			

9.1. Camera Setup

Users can set image size, quality, and motion of FW-1120.

System Setup >> System Setup	Light Frequency (Electric Power Frequency)		
» User & Password Setup » Date & Time Setup	Light Frequency	🔘 60Нz 🛞 50Нz	
Network Setup » Network Setup » Network Port Setup » AOIP Setup	🕴 Camera Config	_Apply	
Device Setun	Camera Name	Camera 1	
» Camera Setup » Alarm Notification	lmage Size	320 x 240 💉	
» Alarm Setup / Control	limage Quality	Normal	
Utility	Motion Detection	O Enable 💿 Disable	
» Save Configuration » System Update » Reboot	Motion Detection O Enable O Disable Notice : The camera name can be 21-alpha-numeric or 10-unicode. FW Manager SW is highly recommended for a high-end security site by selecting various motion sensitivities. Apply Default		

9.1.1. Light Frequency Setup

FW-1120's built-in camera use CMOS sensor. Almost CCD/CMOS cameras can have stripe shape of video noises by power frequency of light. This symptom occurs when level of brightness is changed by power frequency. (Cases of lamp not using electronic stabilizer or glow lamp) In Light Frequency menu from the above, you may select the Light frequency to lower the level of noise. Max transfer frame per second (fps) is electronic power frequency/2. You may select light frequency where FW-1120 is installed.



9.1.2. Camera Configuration

In Camera Config menu, users may setup camera name, image size, quality, and motion configuration of FW-1120

Camera Name	Camera 1
Image Size	320 x 240 💌
mage Quality	Low
Motion Sensitivity	Low
Motion Enable	💿 Enable 🔘 Disable

A) Camera Name: Set internal camera name.

- **B)** Image Size: Set size of image. Size of image has 3 levels : 640x480, 320x240, and 160x120.
- *C)* Image Quality: Set image quality. Quality of image has 6 levels and best quality level is "Low Compression"

D) Motion Enable: Select motion detection function as enabled or disabled.

9.2. Alarm Notification

Alarm Notification menu has e-mail alert function when sensor receives the signal. Sensor is connected to DI of FW-1120.

- User 9, Descuerd Cotup	Service	O Enable (Disable
» Date & Time Setup	Sensor Input Type	 Normal Open Normal Close
Network Setup	Alarm Output Type	Normal Open O Normal Close
»Network Setup	SMTP server address	
>> Network Port Setup	Authentification Login	Enable Disable
arrier corep	UserID	
Device Setup	Password	
» Alarm Notification	Sender (Email)	
» Alarm Setup / Control	E-mail address 1	
Jtility	E-mail address 2	
>> Save Configuration >> System Update >> Reboot	E-mail address 3	
	E-mail address 4	
	Image Count	0

Also in this menu, user may set DO activation when external device is connected to DO.

Service	Select Enable or Disable E-mail send function by input of DI
Sensor Input Type	Setup sensor operation method for sensor connected DI
Alarm Output Type	Setup device operation method for alarm connected DO
SMTP server address	Input SMTP server address for send e-mail by DI input. Input
	mail server where network is connected to FW-1120.
Authentication Login	SMTP server may require authentication to send e-mail. In this
	case select "Enable" and input ID and Password from network
	service provider.
User ID	Input user ID for authentication for SMTP server.
Password	Input password for authentication for SMTP server.
Sender (Email)	To send e-mail, sender e-mail is required. Input e-mail address of
	administrator who can recognize FW-1120.
E-mail address 1	Input e-mail address of receiver.
E-mail address 2	
E-mail address 3	
E-mail address 4	
Image Count	Select number $(0 \sim 5)$ of attached image to e-mail from FW-1120.

9.3. Alarm Setup / Control

In Alarm Setup / Control menu, Users may set name of DI/DO of FW-1120 and control alarm output (DO) directly.

System Setup » System Setup » User & Password Setup	+ Alarm Input / Output N	ame Configura <mark>tio</mark> n	
» Date & Time Setup	Input Name	Output Name	
Network Setup	Di 1	Do 1	
» Network Setup » Network Port Setup » AOIP Setup	Notice The input & Output name (It means your own chara	e can be 31-alpha-numeric or 15-unicode. acters.)	
Device Setup	Charles and the second second		
» Camera Setup	 Alarm Output(DO) Control 		
» Alarm Notification » Alarm Setup / Control	On / Off		
Utility >> Save Configuration		Apply	

9.3.1. Set DI name

DI name can be changed for easy identification.



9.3.2. Set DO name

DO name can be changed for easy identification.

Input Name	Output Name
Di 1	Do 1

9.4. Alarm Output (DO) control

Alarm Output device connected DO can be controlled manually.

 Alarm Output(DO) Control 		
On / Off		

9.5. Apply changes

Click "Apply" button to apply changes name of DI/DO and control DO operation manually.



10. Utility

In Utility menu, Users may save configuration, system upgrade, and reboot.

» Network Status		Utility
W DEVICE Status	This category shows th	e detailed method for Device Configuration.
System Setup		Update flack memory with the new configured
» System Setup » User & Password Setup » Date & Time Setup	>> Save Configuration	data.
	» System Update	Update web or firmware.
	» Reboot	Reboot the system.
» Network Setup » Network Port Setup » AOIP Setup		
Device Setup		
» Camera Setup » Alarm Notification » Alarm Setup / Control		
Utility » Save Configuration » System Update » Reboot		

10.1. Save Configuration

Save Configuration menu enable all configuration of FW-1120 to be saved on flash memory. If configuration is changed, save configuration is highly recommended to save information's to flash memory.

System Setup	 Save Configuration
» System Setup » User & Password Setup » Date & Time Setup Network Setup	 Save Configuration is required after changing any config values on admin menu. Otherwise, the new configurations will not be saved
» Network Setup » Network Port Setup » AOIP Setup	and applied.
Device Setup » Camera Setup » Alarm Notification » Alarm Setup (Control	Save
Intilito	· Pactory Default
> Save Configuration > System opdate > Reboot	 Once you lick "Pactory behave buccor, an seconds will revert back to factory default condition only except IP address and network-related configurations.
	Factory Default

10.1.1. Save all configuration

Save all configuration of FW-1120 to flash memory.



10.1.2. Revert back to factory default condition of FW-1120

Once you click "Factory Default" button, all settings of FW-1120 will revert back to factory default condition, except IP address and network-related configurations.

Once you click "Factory Default" button, all settings
will revert back to factory default condition only
except IP address and network-related
configurations.
conigurations.

10.2. System Update

System Update is used for updates of the firmware on FW-1120. Also firmware version of FW-1120 is displayed.

Sustan Catur	y system op	uate		
» System Setup » User & Password Setup	All (Firmware, RAM	1 disk, System, Web) Update	Start	
w Date & Time Setup	System and Web	System and Web Update		
letwork Setup			-	
whether bergh	The second second second			
» Network Port Setup » AOIP Setup Device Setup	-			
» Network Port Setup » AOIP Setup Jevice Setup » Camera Setup » Alarm Notification	+ System Inf	ormation		
» Network Port Setup » AOIP Setup Device Setup » Camera Setup » Alarm Notification » Alarm Setup / Control	← System Inf Web	ormation Version 3.0 (Build:2006/04/29)		
» Network Port Setup » AOIP Setup » Camera Setup » Alarm Notification » Alarm Setup / Control	★ System Inf Web Firmware	ormation Version 3.0 (Build:2006/04/28) Version 3.0 (Build: 2006/05/02)	
» Network Port Setup » AOIP Setup » Camera Setup » Alarm Notification » Alarm Setup / Control Itility » Save Configuration	► System Inf Web Firmware Serial Number	Version 3.0 (Build:2006/04/28) Version 3.0 (Build: 2006/05/02 00:30:6F:81:02:F2)	

FW-1120 has 4 parts of firmware. Firmwares are called 'kernel image', 'RAM disk image', 'System image' and 'Web image'. Users may update firmware partially. System update is divided as complete update and partial update.

 System Update 	
All (Firmware, RAM disk, System, Web) Update	Start
System and Web Update	Start
Web Only Update	Start

For system update, users must have new firmware in PC. Access FW-1120 by web browser on user PC, go to admin > utility > system update menu and click "start" button to start firmware update. After completion of update, FW-1120 must be rebooted for updated firmware to apply.

* You can download latest firmware from "Downloads" menu from Seyeon Tech website. (<u>www.flexwatch.com</u>)

Kernel Image	a_ker_ep
RAM Disk Image	a_rfs_ep.gz
System Image	a_sys_ep.tar.gz
Web page Image	a_web_ep.tar.gz

Firmware file name of FW-1120

10.2.1. Complete (Kernel, RAM disk, System, Web) Update

Complete Update of Firmware on FW-1120.

A) Select All (Firmware, RAM disk, System, Web) Update and Click "Start" button; update screen will pop up as below. If you select "Cancel", update will be stopped and if you select "OK", update will proceed to next step.



B) If you click "OK" button, below message will pop up. Click "OK" button to close webpage.



 C) First, window locations of firmware image will appear. Click "Browse" button to search "a_ker_ep" file in PC, find saved "a_ker_ep" file and click "OK" button, click "Next" button, and update will be executed.

User's Manual

Update Firmware Image	
Please uplo <mark>ed "a_ker_ep" file for Financian</mark> If you don't want to upload this, click "Skip" to go to the next step. For the system safety, "Do not close this window compulsory."	Please find "a_ker_ep" file for upload. Click
Select file : Browse	"Browse" button and click "Next"

(F)

If popup blocker is installed in PC, above window may not be able to appear. So please disable popup blocker for firmware update.

D) Click "Browse" button, search and locate the latest kernel image in PC. Click



E) Go on to the next step, click "Next" button. If "Skip" button is pressed, Firmware Image will not be updated and go on to the next step.

Update F	irmware Image
Please upload " a_ker_ep " file for Firmware. If you don't want to upload this, click "Skip" to go to t For the system safety, " <mark>Do not close this window co</mark>	he next step. mpulsory."
Select file : \UX\UEpson-Image\060329\a_ker_ep	Browse
Next Skip	

F) You can check file name and size on next window.

Please	click "Next" and wait fo	or a while.	
(It will	take a few seconds.)		
After p	procedure is completed,	you will go to the next step.	
If you	click "Cancel", this syst	em will reboot.	
If you For the	click "Cancel", this syst e system safety, " <mark>Do no</mark>	em will reboot. It close this window compulsory. "	
If you For the	click "Cancel", this syst e system safety, " <mark>Do no</mark>	em will reboot. ot close this window compulsory."	
If you For thi	click "Cancel", this syst e system safety, "Do no File	em will reboot. ot close this window compulsory." Information	•
If you For the	click "Cancel", this syst e system safety, "Do no File File Name	em will reboot. at close this window compulsory." Information a_ker_ep	
If you For the	click "Cancel", this syst e system safety, "Do no File File Name File Size	em will reboot. ot close this window compulsory." Information a_ker_ep 529 KB	

If you click "Previous" button, it will be back to step **B**). If you click "Next" button update for specified program will be executed and will go on to the next step. If you click "Cancel" button, update will be canceled.

G) Next step is update RAM Disk image procedure.

			Updat	e RamDIsk Image
Please upload "a_ If you don't w ant For the system sa	fs_ep.gz to upload t fety, " <mark>Do n</mark>	' file for Rar his, click "S tot close th	nDIsk. kip" to go to <mark>is window (</mark>	o the next step. compulsory."
Select file : [Browse
	Previous	Next	Skip	

H) Rest procedure is as same as step C) to F).

I) Next step is update system image and web page and it also same as step C) to F).
 J) After all update steps are completed, user must reboot the system. Click "Reboot" button to system reboot and wait for about 1~2 minutes and access system by web browser.



10.2.2. System and Web Update

This procedure is similar with all update.

Only system image and web image will be updated.

II (Firmware, RAM disk, System, Web) Update	Start
System and Web Update	Start

10.2.3. Web Update

This procedure is similar with all update. Only web image will be updated.

System Update	
All (Firmware, RAM disk, System, Web) Update	Start
System and Web Update	Start
Web Only Update	Start

10.2.4. System Information

Firmware version and Mac address of LAN will be appeared.

 System Information 		
Web	Version 3.0 (Build:2006/03/29)	
Firmware	Version 3.0 (Build: 2006/03/29)	
Serial Number	00:30:6F:FF:FF:A1	

10.3. Reboot

Reboot FW-1120

» System Setup » System Setup » User & Password Setup	* Reboot
» Date & Time Setup	 System reboot is required to apply all the changed
Network Setup	configurations properly onto the system.
» Network Setup	
>> Network Port Setup	
S AOIP Setup	Reboot!!
Device Setup	
» Camera Setup	
» Alarm Notification	
» Alarm Setup / Control	
Utility	
» Save Configuration	
w System Undate	
» Reboot	

Click "Reboot!!" to reboot FW-1120.

Notice

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810-12 Yeok Sam-dong, Kang Nam-gu, SEOUL, 135-081,KOREA TEL : 82 2 3017 0855 FAX : 82 2 3017 0843 URL : <u>http://www.seyeon.co.kr</u> <u>http://www.flexwatch.com</u>

Warning

To prevent risk of electric shock, **Do not** remove system-case. No user serviceable parts inside. Any repair or modification for the product will be allowed to qualified service personal only.

Do not expose this appliance to water or moisture.

Do not install this product in Hazardous areas where highly combustible or explosive products are stored or used.

Important Information

• Before installation, please read and observe all instructions and warnings contained in this manual. Retain this manual with the original receipt for future reference and warranty.

• If any items are missing from the package when you open the box, please DO NOT install or OPERATRE FlexWATCH[™] server. Contact the local Dealer or Distributor.

• Please record following information **for technical support and the track record** in case of any theft or loss. Serial Number can be found underside of FlexWATCH[™] server

Product Model :	
Purchase Date :	
Serial Number :	