

FlexWATCH® Smart Player



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Precaution on MicroSD Card

Do not use force, a thin stick or tweezers to remove the microSD card. If you cannot remove the microSD card, contact customer support.

To prevent any data damage, follows the below caution. We do not provide any guarantee for damaged data

- Do not remove a memory card or Do not turn off the IP Camera while reading or writing data,
- Do not operate the IP Camera in the location where static charge or electrical noise is present.

Do not remove the microSD card while IP Camera is recording. Disable the Recording configuration first and then turn off the IP Camera before removing microSD card. Do not insert a deformed microSD card into the Reader.

Do not try to access microSD card extracted from IP Camera on Windows PC or other devices. If Linux file system like ext3, ext4 is not installed, It may destroy all data of microSD card.

Regular maintenance by formatting microSD card in every 6 months is highly recommended as microSD card could be damaged by physical, or electrical characteristics. or its file system may be fragmented, resulted in degradation in performance by repeated access.

Formatting microSD card will delete all files stored on it. You may use FlexWATCH SmartPlayer to back up the recorded video stream as AVI file before formatting

Contents

Smart Player

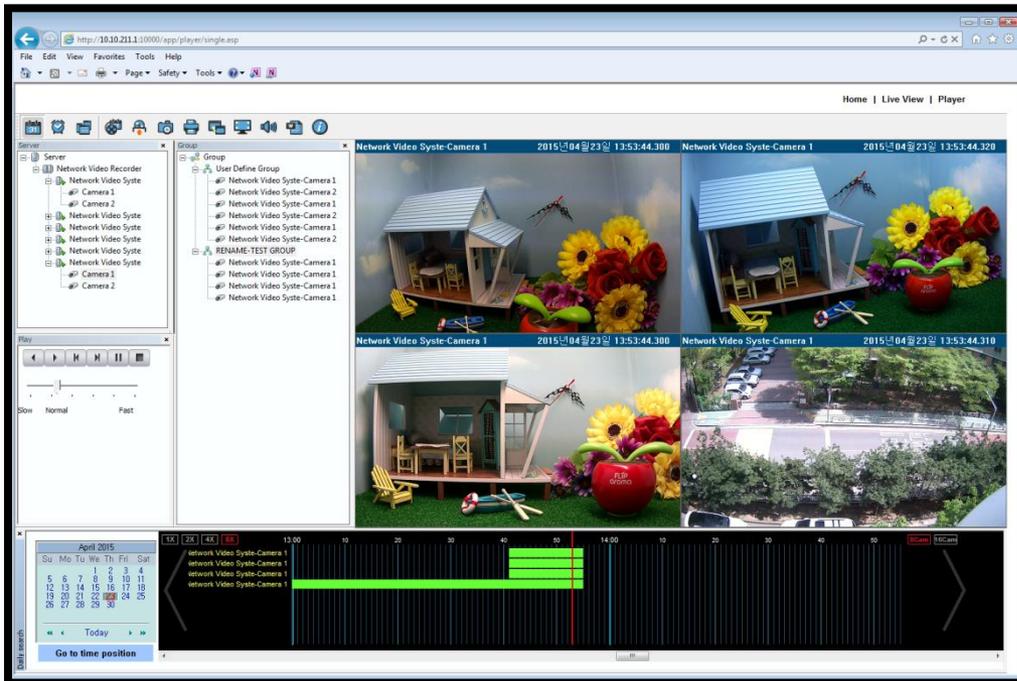
1. Smart Player?
2. Smart Player Installation
3. Smart Player Icon and Description
 - Calendar Search Mode
 - Condition Search Mode
 - Window Control
 - Backup
 - SnapShot
 - Print
 - Ratio Display
 - Group Registration
 - Play Control

Smart Player ?

Smart Player is a software support playback in Internet Explorer from video recorded in Smart NVR, Embedded NVR and IP Camera with Micro SD support.

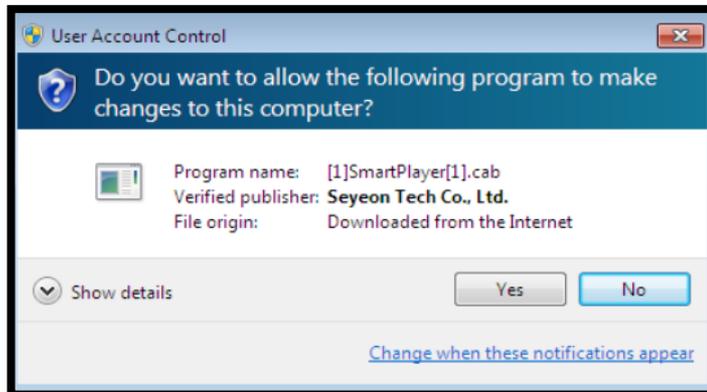
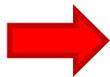
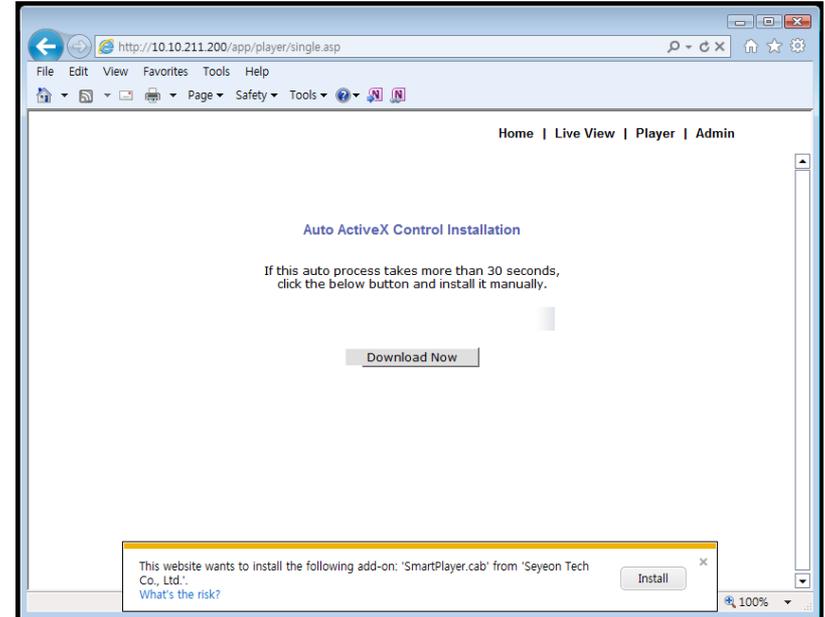
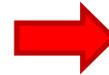
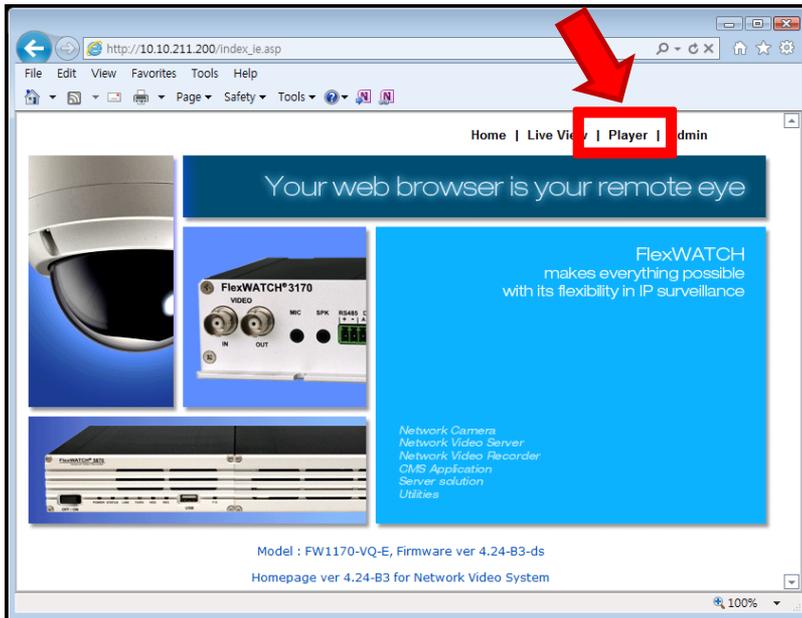
Search and Playback is done by daisy chain.

It can playback recorded files of multiple cameras of the same time.



Smart Player Installation

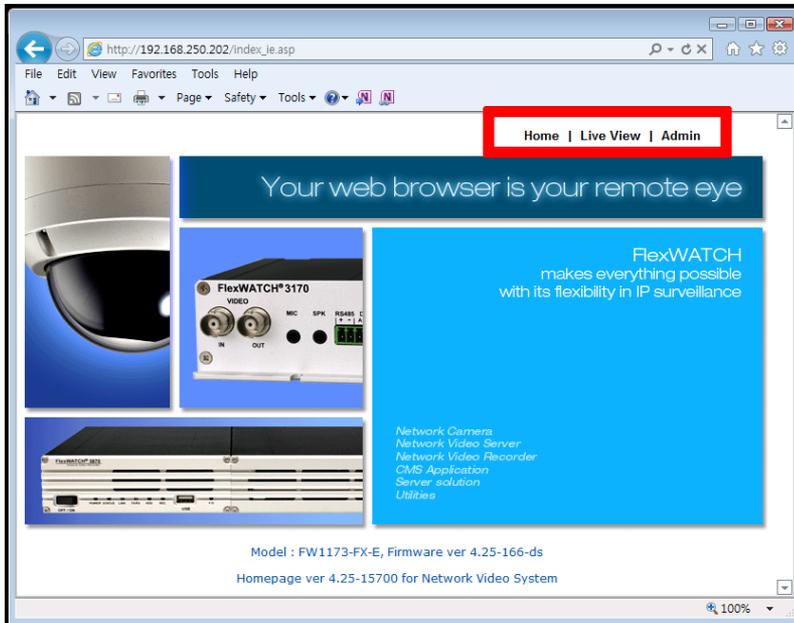
Case 1 – It will be automatically installed If PC is connected to internet



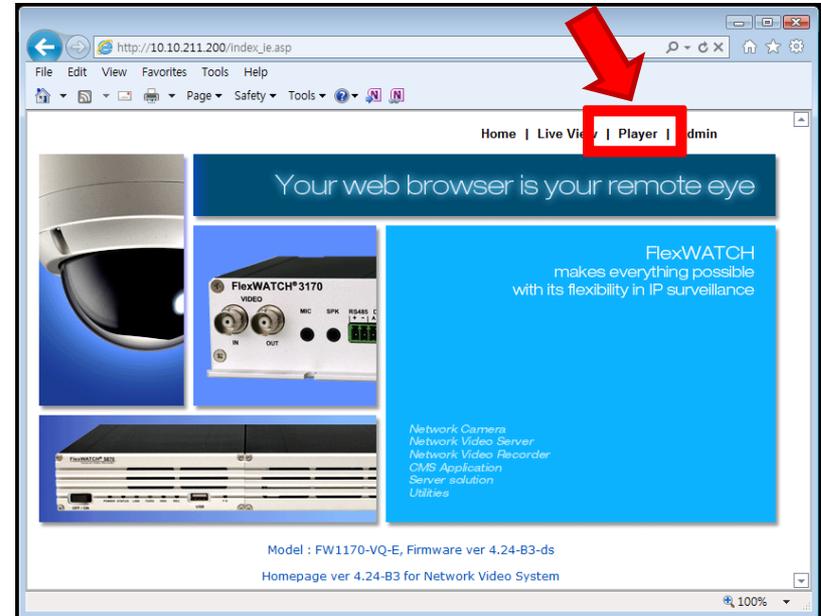
Smart Player Installation

< CAUTIONS >

Player button appears only when HDD/MicroSD is functioning.



HDD/MicroSD not installed or not recognized



HDD/MicroSD functioning

< When Player is not shown >

1. HDD/MicroSD not installed
2. HDD/MicroSD not recognized

Smart Player Installation

Case 2 – Manual Installation



www.flexwatch.com

Download Smart Player.zip
in FlexWATCH website

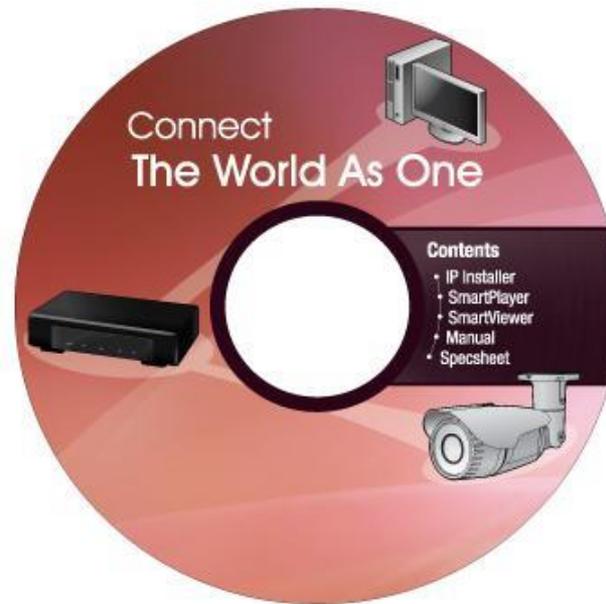
Double Click
SmartPlayer.exe

The screenshot shows the FlexWATCH website's support page. The 'SUPPORT' menu item is highlighted in the top navigation bar. In the left sidebar, the 'Download' link is highlighted, and the 'Software' sub-link is also highlighted. A red arrow points from the 'Software' link to a table of download items. The table lists various software versions, with the entry for 'Smart Player V1.4.0.0' highlighted in red. The table has columns for No., Subject, Writer, Date, Read, and File.

No.	Subject	Writer	Date	Read	File
33	Smart Viewer V1.9.0.0	Admin	2014-04-29	764	
32	Smart Multi Viewer Player V1.0.0.15	Admin	2014-04-29	632	
31	IP Installer(V3.0.13)	Admin	2014-04-28	737	
30	FTP Player V1.1.0.0	Admin	2014-04-21	334	
29	Smart Player V1.4.0.0	Admin	2014-04-21	433	
28	Smart NVR Setup V2.0.0.0 (Multivendor)	Admin	2013-11-18	852	
27	Smart NVR Setup V2.0.0.0 (FlexWATCH only)	Admin	2013-11-18	1116	
26	Smart Player V1.3.0.0	Admin	2013-11-18	745	
25	Smart Viewer V1.8.0.0	Admin	2013-11-18	852	
24	Smart Multi Viewer Player V1.0.0.13	Admin	2013-09-04	942	
23	FJPPPlayer V1.0.0.4	Admin	2013-03-15	1031	
22	IP Installer V3.0.9	Admin	2013-03-15	2455	
21	Add-On Application for NVR Installer	Admin	2013-03-15	810	
20	Add-On Service Pack for FW-Manager Installer	Admin	2013-03-15	843	
19	FW-Manager Remote Viewer (v4.02.00)	Admin	2013-03-15	1407	

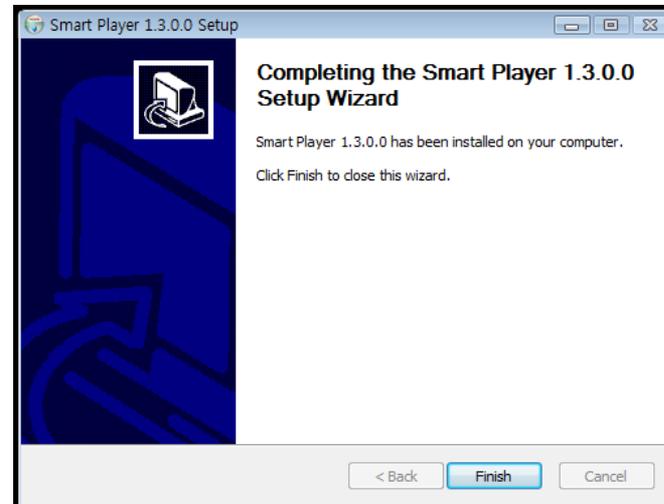
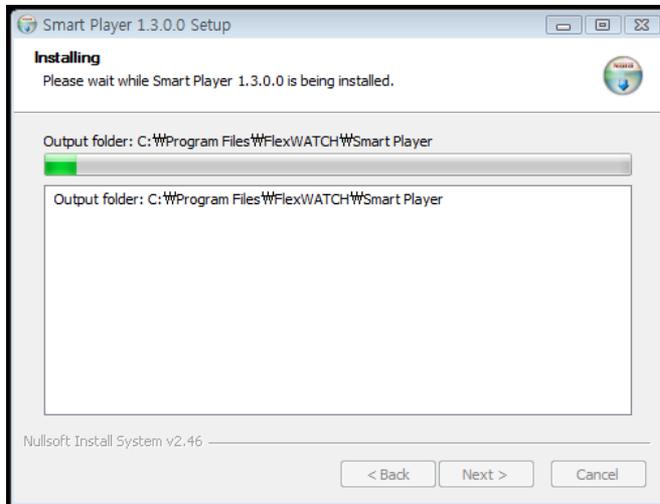
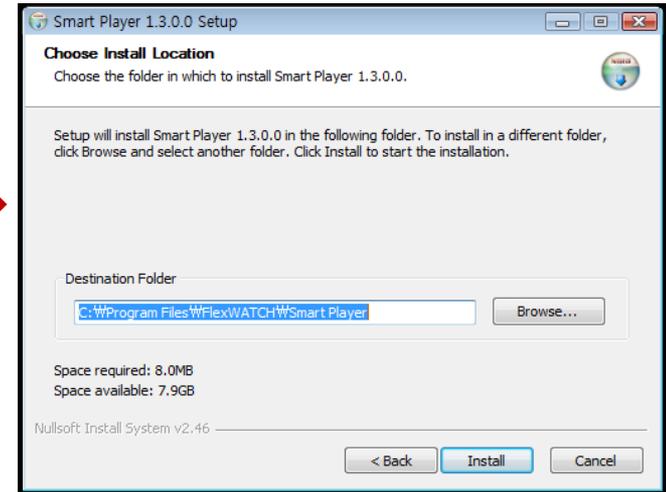
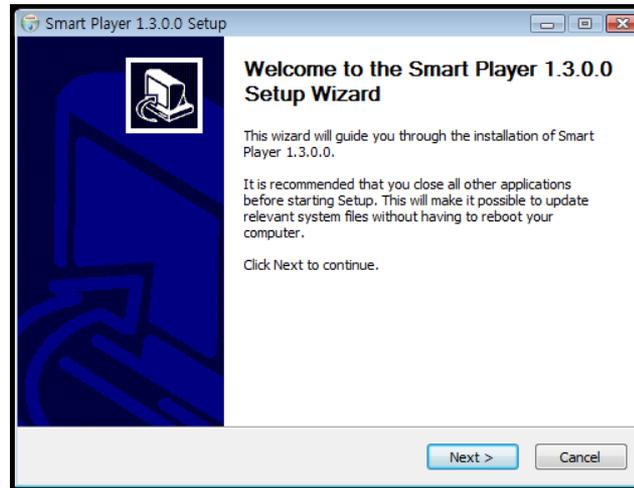
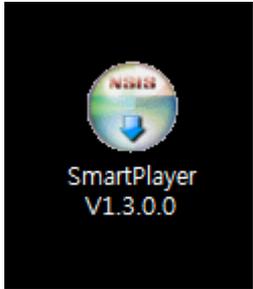
Smart Player Installation

Case 3 – Installation from CD



Smart Player Installation

Double Click SmartPlayer.exe



Smart Player

The screenshot displays the Smart Player web interface in a browser window. The address bar shows the URL `http://192.168.250.203/app/player/single.asp`. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The browser's toolbar shows various icons for home, search, and settings. The page title is "Home | Live View | Player | Admin".

The main interface is divided into several sections:

- Server and Group Tree:** On the left, there are two tree views. The "Server" tree shows "Server" and "8d" (with "Built-in Module 0" underneath). The "Group" tree shows "Group", "User Define Group", and two "Built-in Module 0-Camera" entries.
- Play Controls:** Below the trees, there is a "Play" section with playback buttons (back, play, stop, forward) and a speed slider ranging from "Slow" to "Fast".
- Camera Views:** The main area is split into two columns, "Built-in Module 0-Camera 1" and "Built-in Module 0-Camera 2". Both views are currently dark, indicating they are not active or have no feed.
- Calendar and Playback Timeline:** At the bottom left, there is a calendar for "May 2015" with a "Go to time position" button. To its right is a playback timeline showing a grid of time slots (09:00 to 11:00) with green bars indicating recorded data for "Built-in Module 0-Camera 1" and "Built-in Module 0-Camera 2".

Smart Player Icon and Description

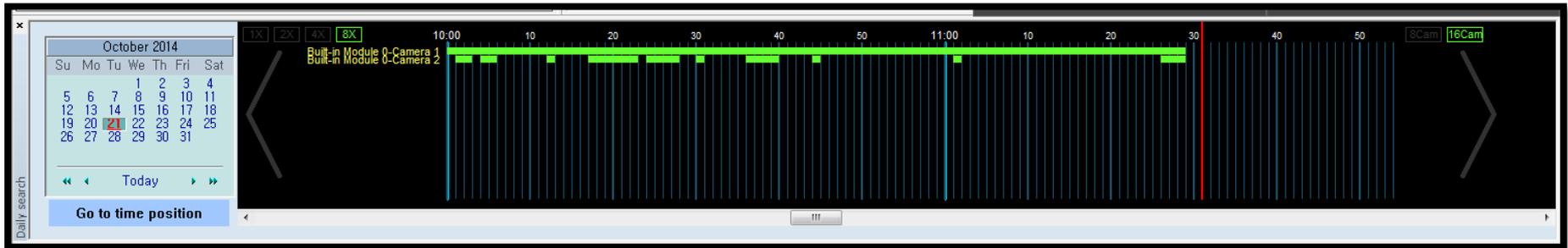
The screenshot shows the FlexWATCH web interface. A red arrow points to the **Menu Bar** at the top. A purple arrow points to the **PLAYBACK WINDOW** on the right. A blue box highlights the **Server / Group Control** panel on the left. A green box highlights the **Play Control** panel below it. An orange box highlights a search bar at the bottom left, which includes a calendar for May 2015 and a timeline view. The main playback area shows two camera feeds: "Built-in Module 0-Camera 1" and "Built-in Module 0-Camera 2".

- *Calendar Search Mode (Default)*
- *Condition Search Mode*
- *Control Bar changes according to the mode selected.*

Smart Player Icon and Description



Calendar Search Mode



RED : Recorded files exist.

Blue : No recorded file.

Calendar Search Mode

When the date is clicked, you can check the time of recorded files that exists according to the cameras.

Recorded files exists

No recorded file

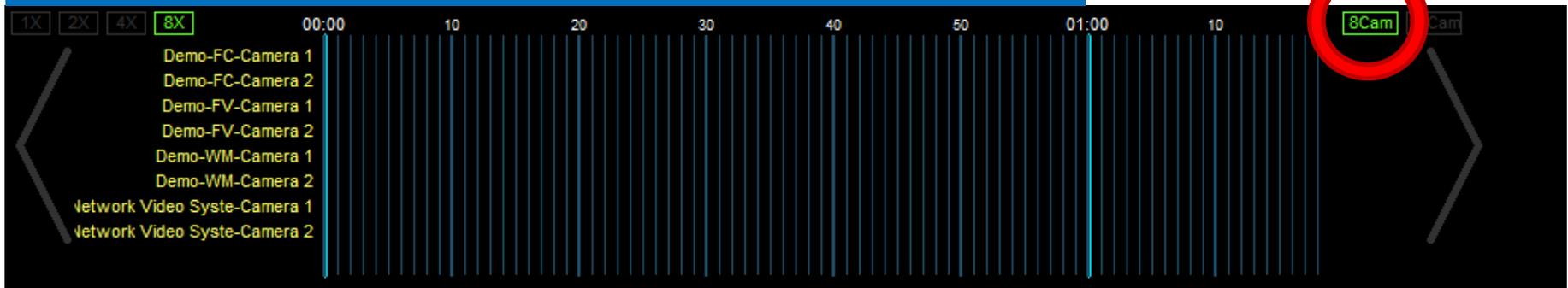
Left and Right Key to control search for time

1X / 2X / 4X / 8X is not for playback speed.
It is scalability of status bar for recorded files.

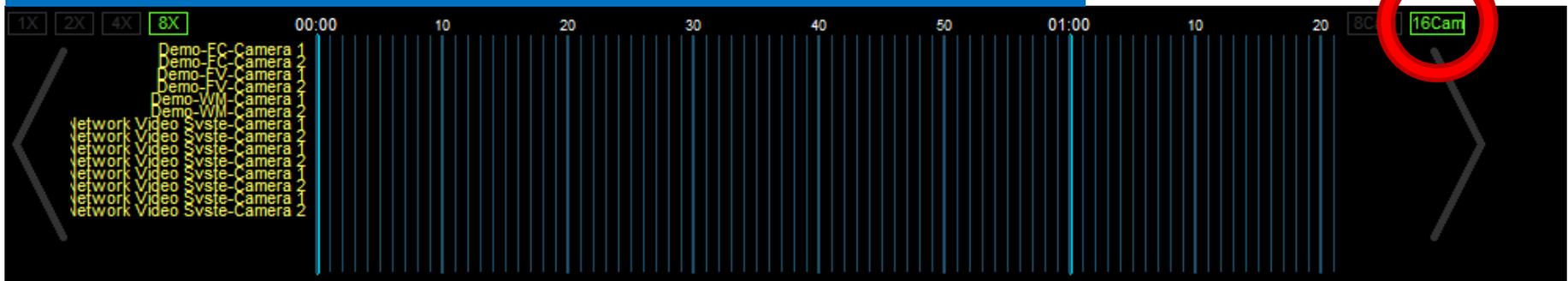
Calendar Search Mode

8cam mode and 16cam mode can be switched.

8 cameras shown for 8cam mode



16 cameras shown for 16cam mode



Calendar Search Mode

The screenshot displays a web browser window with the URL `http://10.10.211.1:10000/app/player/single.asp`. The browser's address bar and menu bar are visible. The main content area shows a video player interface with a grid of video thumbnails. The thumbnails are labeled with camera names and timestamps, such as "Network Video {2015년 05월 18일 11:19:10.110}" and "Network Video Syste-Camera 2".

On the left side, there is a "Server" tree view showing a hierarchy of "Network Video Recorder" and "Network Video Syste" devices. Below it is a "Play" control panel with buttons for play, stop, and volume, along with a speed slider ranging from "Slow" to "Fast".

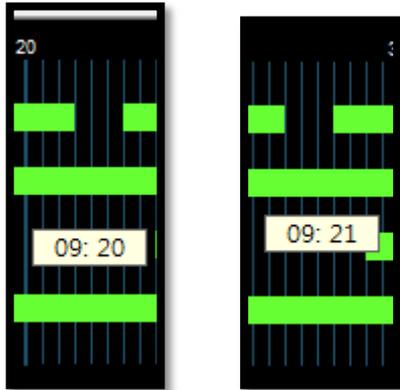
At the bottom left, there is a calendar for May 2015. The calendar shows the days of the week (Su, Mo, Tu, We, Th, Fri, Sat) and the dates (3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31). A red arrow points from the calendar to a specific time slot on the playback timeline.

The playback timeline at the bottom shows a time scale from 10:00 to 11:00. A red vertical line indicates the current playback position. A red arrow points from the calendar to this position. The timeline also shows a list of camera names and a "Go to time position" button.

Click time that playback is needed.

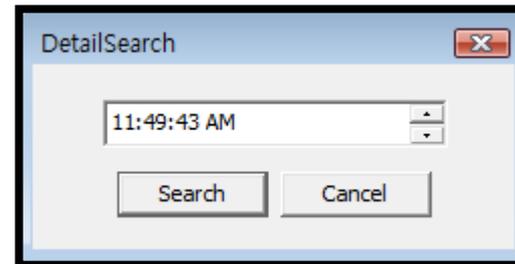
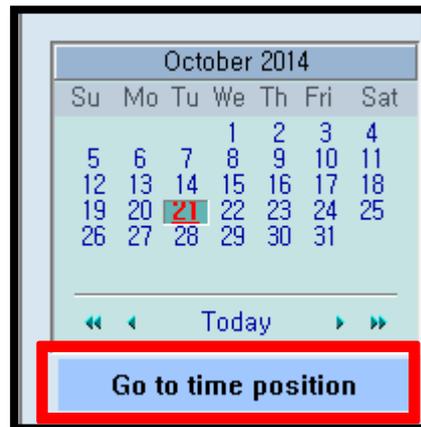
Calendar Search Mode

Search can be made by minutes.

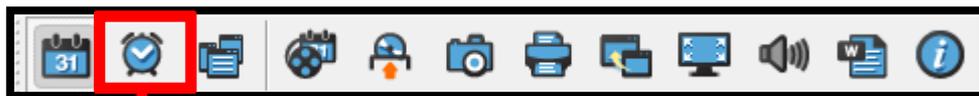


For example, when playback is needed from 9:20:30, click for 9:20 and wait for 30 seconds.

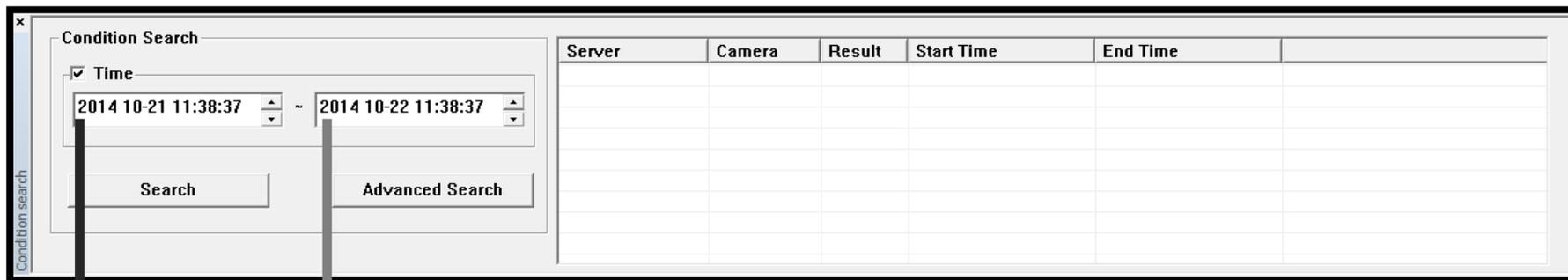
When Condition Search Mode is used. You can enter to seconds for search.



Smart Player Icon and Description



Condition Search Mode



Set time to end search

Set time to start search

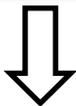
Condition Search Mode

Condition Search

Time

2014 10-21 11:38:37 ~ 2014 10-22 11:38:37

Search Advanced Search



Searching...

[9500] frame searched

Cancel



Server	Camera	Result	Start Time	End Time
Demo-FC	Camera 1	8238	2014/10/21 11:38:37	2014/10/21 11:53:57
Demo-FC	Camera 2	0	—	—
Demo-FV	Camera 1	12584	2014/10/21 11:38:37	2014/10/21 11:53:57
Demo-FV	Camera 2	0	—	—
Demo-WM	Camera 1	12391	2014/10/21 11:38:37	2014/10/21 11:53:57
Demo-WM	Camera 2	0	—	—
Network Video ...	Camera 1	0	—	—
Network Video ...	Camera 2	0	—	—
Network Video ...	Camera 1	3963	2014/10/21 11:38:37	2014/10/21 11:53:58
Network Video ...	Camera 2	0	—	—

1. Enter time to start/end search
2. Press "Search"

Searching for recorded data

Condition Search Mode



Oct 21,2014 11:54:00.860	Demo-FC-Camera 2	Oct 21,2014 11:54:00.840	Demo-FV-Camera 2
			
Oct 21,2014 11:54:00.830	Demo-WM-Camera 2	Network Video Syste-Camera 1	Network Video Syste-Camera 2
			
Oct 21,2014 11:54:00.740:ra 1	Network Video Syste-Camera 2	Oct 21,2014 11:54:00.730:ra 1	Network Video Syste-Camera 2
			

Playback starts after searching according to the condition input.

Condition Search Mode

Search List description

Server	Camera	Result	Start Time	End Time
Demo-FC	Camera 1	8238	2014/10/21 11:38:37	2014/10/21 11:53:57
Demo-FC	Camera 2	0	—	—
Demo-FV	Camera 1	12584	2014/10/21 11:38:37	2014/10/21 11:53:57
Demo-FV	Camera 2	0	—	—
Demo-WM	Camera 1	12391	2014/10/21 11:38:37	2014/10/21 11:53:57
Demo-WM	Camera 2	0	—	—
Network Video ...	Camera 1	0	—	—
Network Video ...	Camera 2	0	—	—
Network Video ...	Camera 1	3963	2014/10/21 11:38:37	2014/10/21 11:53:58
Network Video ...	Camera 2	110	2014/10/21 11:38:37	2014/10/21 11:53:58

Start time / End time
(Which matched condition input)

Result : Total Frame number searched

Camera : Name of the camera

Server : Name of the server

Condition Search Mode

Condition Search

Time

2014 10-21 11:38:37 ~ 2014 10-22 11:38:37

Advanced search

Time 2014 10-20 12:13:22 ~ 2014 10-21 12:13:22

Group, Camera Group: User Define C Camera ID: All

Event

Motion Alarm

Sensor

Extra Input Data

Search Condition

< Advanced Search >

More detailed condition input is available.

Conditions include time, group, camera, event and etc

Condition Search Mode

< Advanced Search >

The screenshot shows the 'Advanced search' window with the following elements:

- Time:** Two date-time pickers showing '2014 10-20 12:13:22' and '2014 10-21 12:13:22'.
- Group, Camera:** A 'Group' dropdown menu set to 'User Define C' and a 'Camera ID' dropdown menu set to 'All'.
- Event:** A section with checkboxes for 'Motion' and 'Sensor', each followed by six numbered checkboxes (1-6).
- Buttons:** 'Add Condition' (blue border), 'Del Condition' (green border), and 'Reset' (orange border).
- Search Condition:** A large empty text area for listing conditions.
- Search/Cancel:** 'Search' and 'Cancel' buttons at the bottom.

Callouts from the right side of the image point to these elements:

- A red arrow points from the 'Input condition' box to the top section of the window (Time, Group, Camera, Event).
- An orange arrow points from the 'Reset condition' box to the 'Reset' button.
- A green arrow points from the 'Delete condition' box to the 'Del Condition' button.
- A blue arrow points from the 'Press Add Condition...' box to the 'Add Condition' button.

Input condition

Reset condition

Delete condition
(If clicked without any check box ticked, 1 condition from top to bottom will be deleted at a time)

Press Add Condition to add input condition to the list.

Condition Search Mode

< Advanced Search >

Advanced search

Time 2014-10-20 10:00:00 ~ 2014-10-21 11:00:00

Group, Camera Group: User Define C Camera ID: (Demo-FV)Demo-FV-Ca

Event

Motion: 1 2 3 4 5 6 Alarm

Sensor: 1 2 3 4 5 6

Extra Input Data

Add Condition Del Condition Reset

Search Condition

[1:1][2014/10/20~2014/10/21][10:00~11:00][]

Search Cancel

Advanced search

Time 2014-10-20 10:00:00 ~ 2014-10-21 11:00:00

Group, Camera Group: User Define C Camera ID: (Demo-WM)Demo-WM-

Event

Motion: 1 2 3 4 5 6 Alarm

Sensor: 1 2 3 4 5 6

Extra Input Data

Add Condition Del Condition Reset

Search Condition

[1:1][2014/10/20~2014/10/21][10:00~11:00][]
[2:1][2014/10/20~2014/10/21][10:00~11:00][M1][]

Search Cancel

<Advanced Search condition 1>

2014-10-20 10:00:00 ~ 2014-10-21 11:00:00
Demo-FV Camera 1
Event : Disable

<Advanced Search condition 2>

2014-10-20 10:00:00 ~ 2014-10-21 11:00:00
Demo-WM Camera 1
Event : Motion Detection

Condition Search Mode

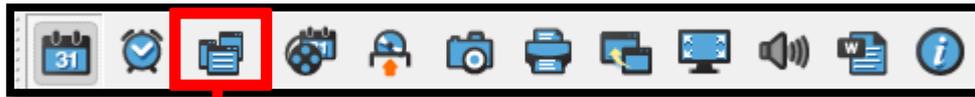
< Advanced Search >



Server	Camera	Result	Start Time	End Time
Demo-FC	Camera 1	0	---	---
Demo-FC	Camera 2	0	---	---
Demo-FV	Camera 1	12937	2014/10/21 12:02:35	2014/10/21 12:18:43
Demo-FV	Camera 2	0	---	---
Demo-WM	Camera 1	0	---	---
Demo-WM	Camera 2	0	---	---
Network Video ...	Camera 1	0	---	---
Network Video ...	Camera 2	0	---	---
Network Video ...	Camera 1	0	---	---

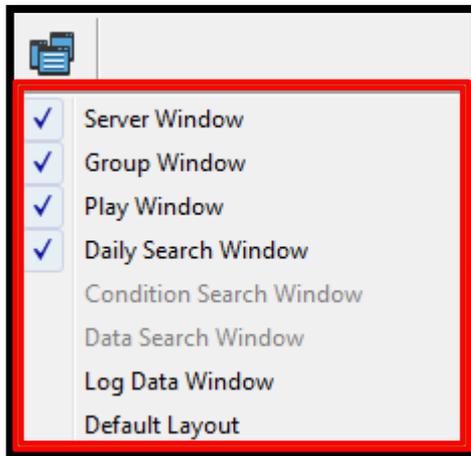
When search is complete recorded files that meets input conditions will be playback

Smart Player Icon and Description



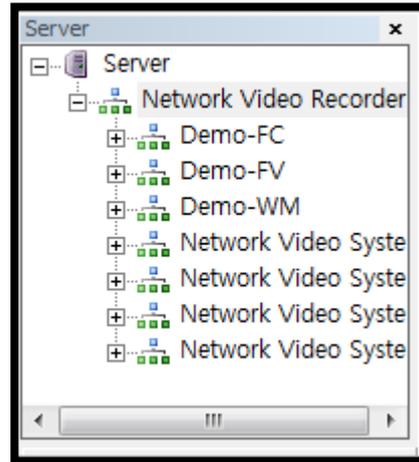
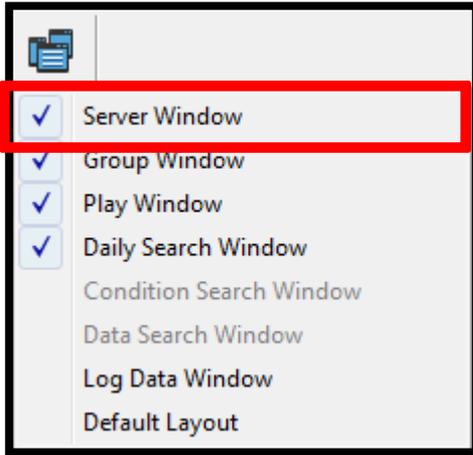
Window control

Window Control allows user to change inner interface appear and disappear according to their needs.

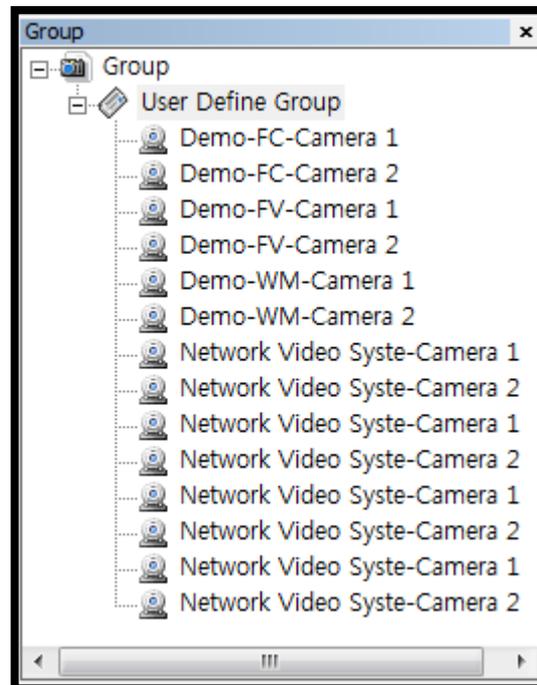
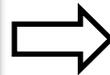
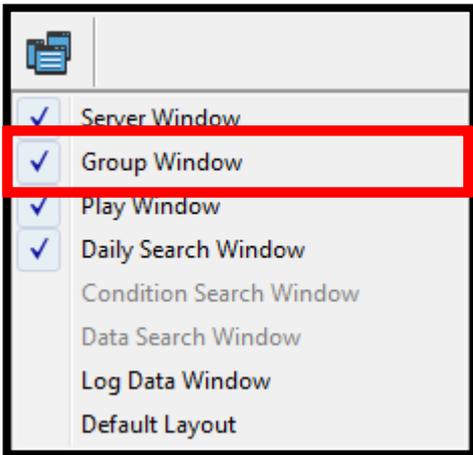


The control menu is as in the list.

Window Control

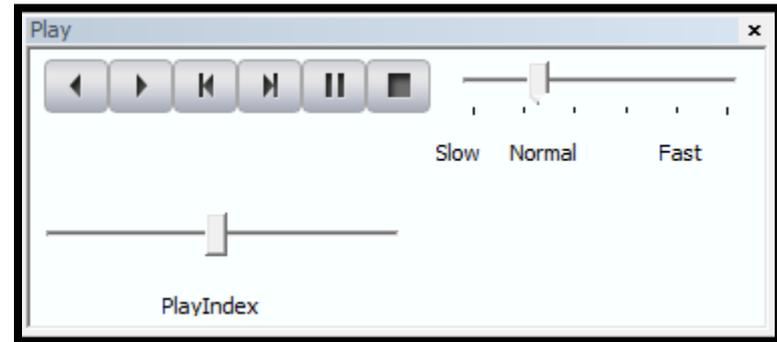
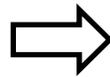
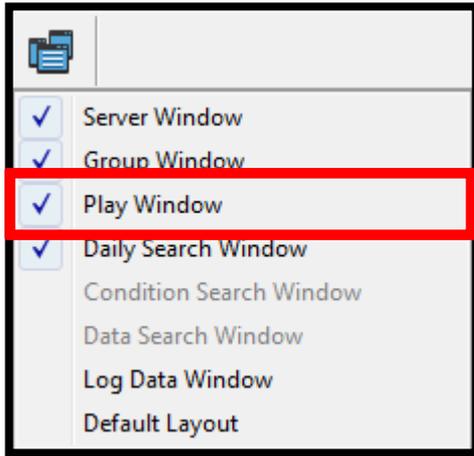


Control Server Window



Control Group Window

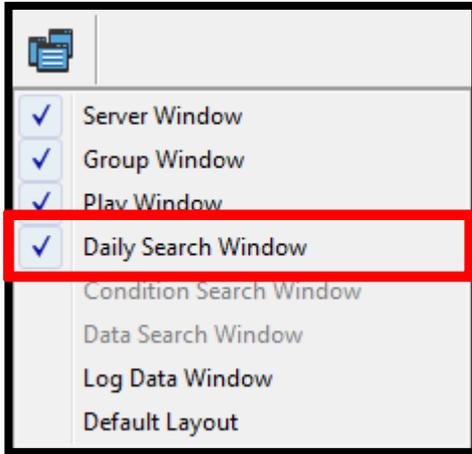
Window Control



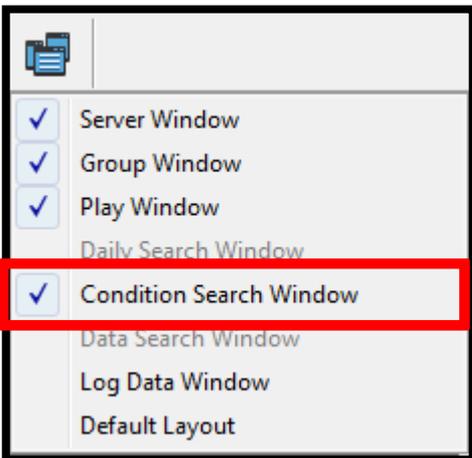
Control Play Window

Window Control

The menu changes according to Calendar Search Mode and Condition Search Mode.



Daily Search Window is enabled when using Calendar Search Mode
(Condition Search Window is disabled)

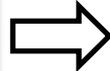
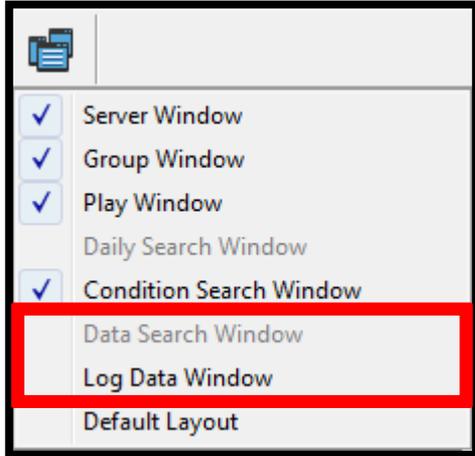


Condition Search Window is enabled when using
Condition Search Mode
(Daily Search Window is disabled)

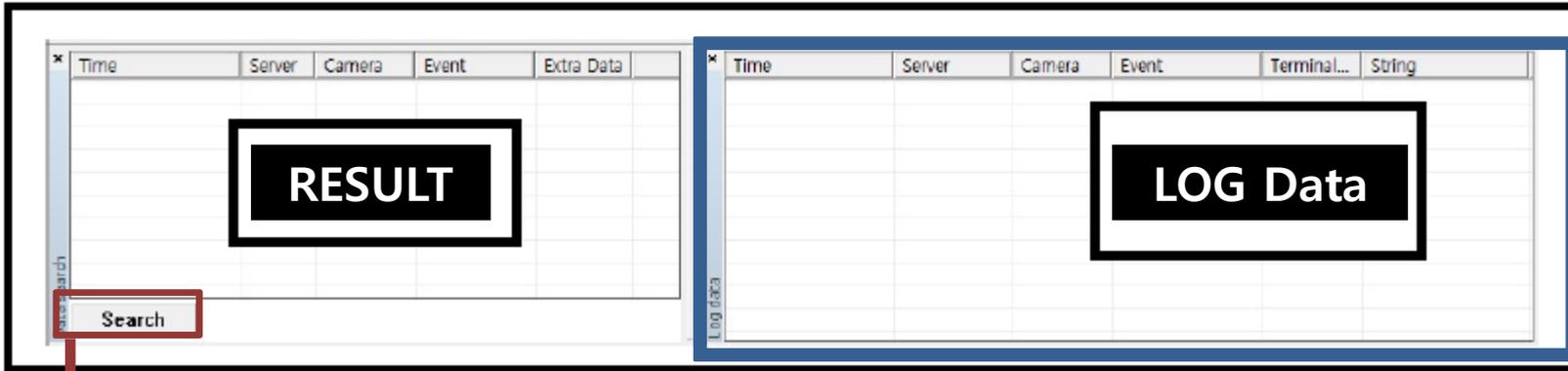
A screenshot of the 'Condition Search' window. It has a search criteria form with a 'Time' dropdown set to '2014 10-21 12:07:21' and a range selector set to '2014 10-22 12:07:21'. There are 'Search' and 'Advanced Search' buttons. Below the form is a table with search results.

Server	Camera	Result	Start Time	End Time
Demo-FC	Camera 1	0	—	—
Demo-FC	Camera 2	0	—	—
Demo-FV	Camera 1	12937	2014/10/21 12:02:35	2014/10/21 12:18:43
Demo-FV	Camera 2	0	—	—
Demo-WM	Camera 1	0	—	—
Demo-WM	Camera 2	0	—	—
Network Video ...	Camera 1	0	—	—
Network Video ...	Camera 2	0	—	—
Network Video ...	Camera 1	0	—	—
Network Video ...	Camera 2	0	—	—

Window Control



Data Search Window is enabled only when FES(Flexible Extra System) is installed.
This allows to search recorded video by FES

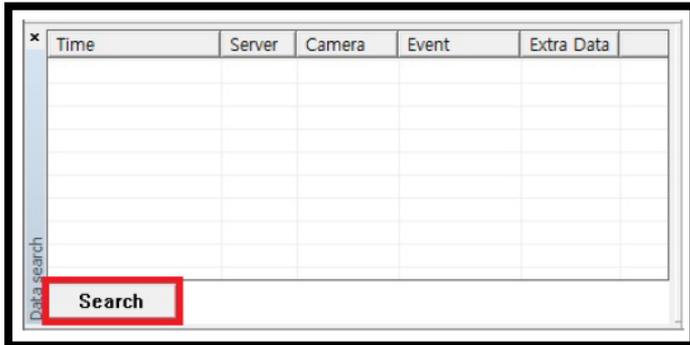


Data is listed for FES events during the searched.

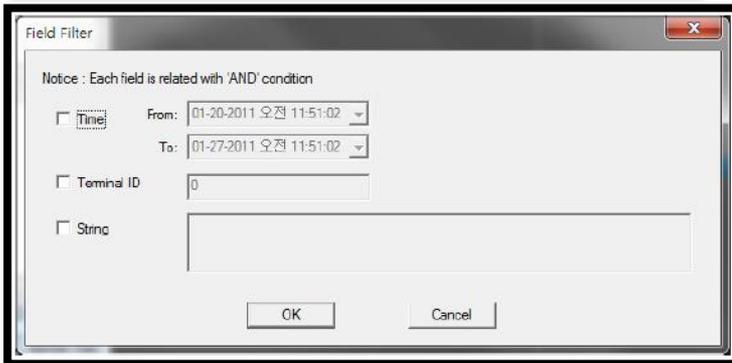
When Search button is pressed, search dialog is pop-up according to FES used. After search complete, the data are listed.
Double click the searched data to playback.

Window Control

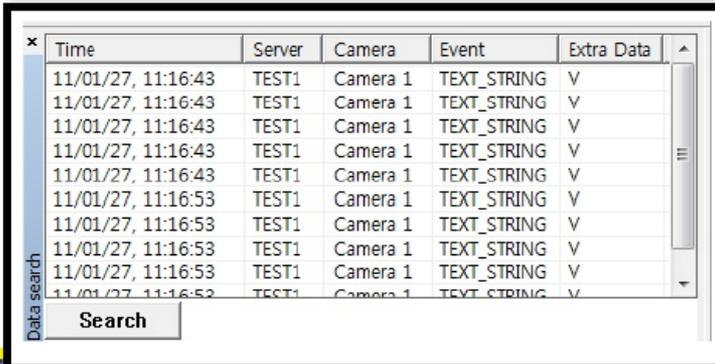
Among many FES, example on TEXT EVENT



Open Data Search Window and click Search button



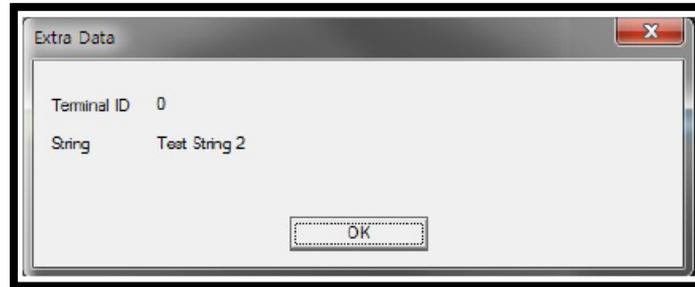
When event search dialog is open, input conditions such as time, terminal ID, string and etc. Then press OK.



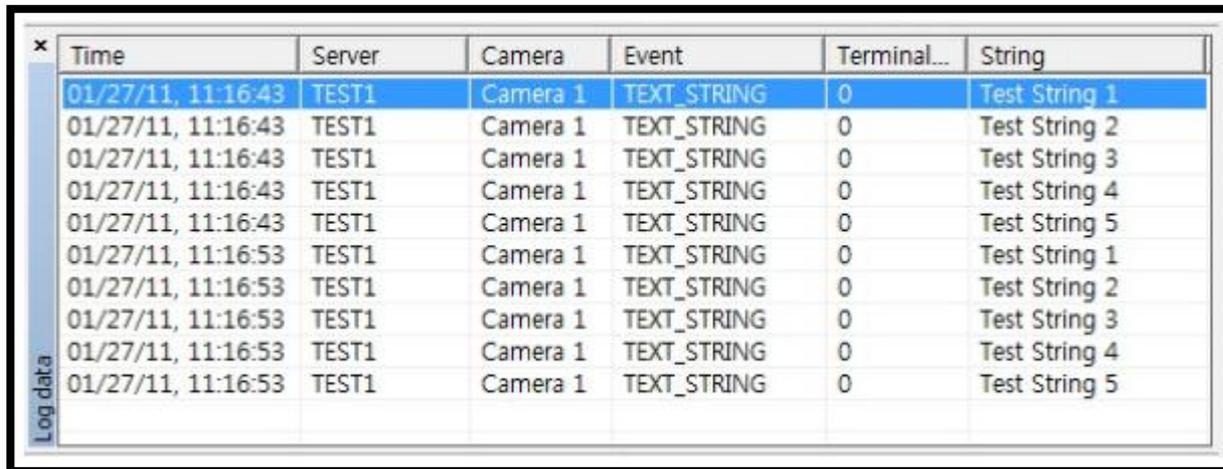
Text events according to the condition are listed.

Window Control

Right click and select Extra Data to see details of data.
Double click to playback.



If there is event data while playback, the events are listed in the log data.

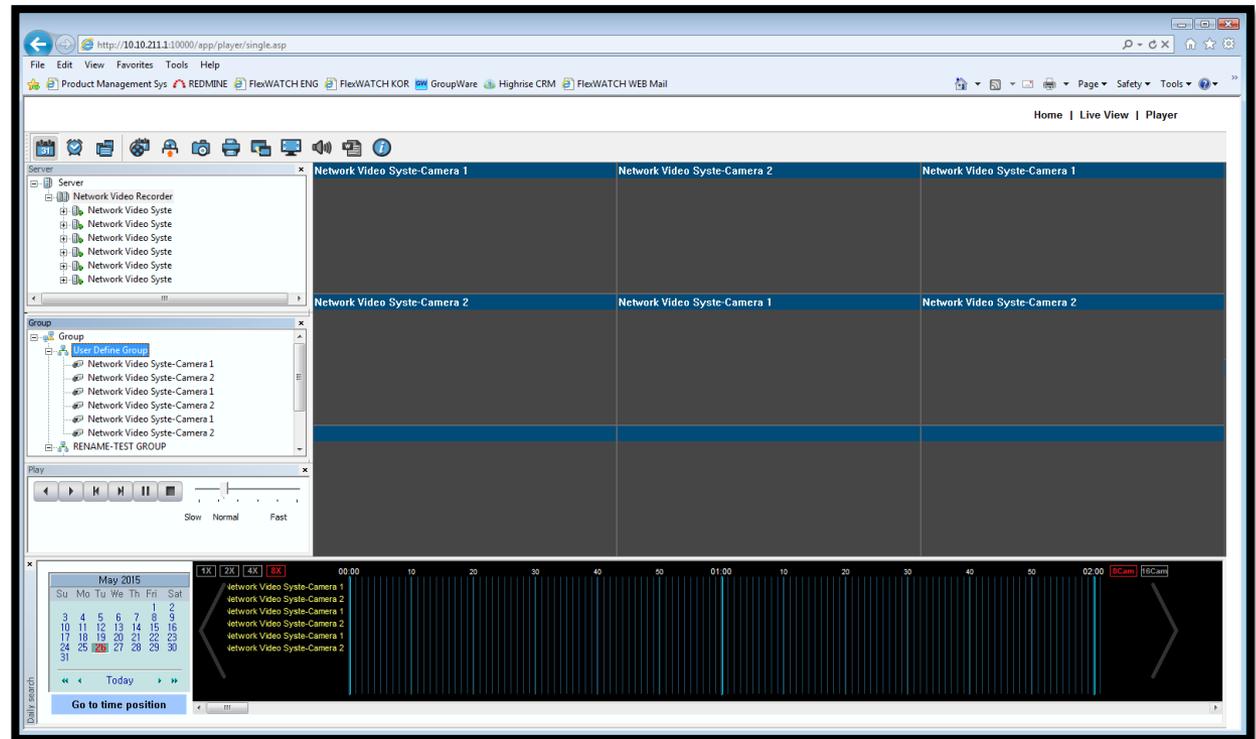
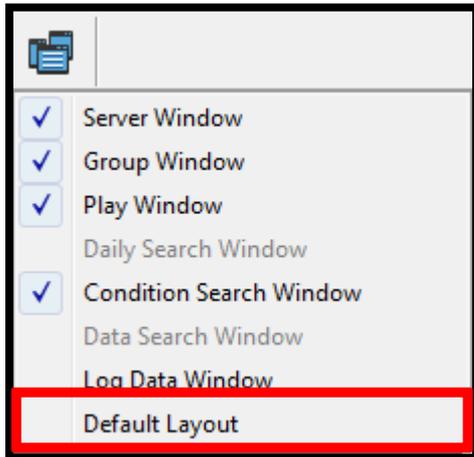


Time	Server	Camera	Event	Terminal...	String
01/27/11, 11:16:43	TEST1	Camera 1	TEXT_STRING	0	Test String 1
01/27/11, 11:16:43	TEST1	Camera 1	TEXT_STRING	0	Test String 2
01/27/11, 11:16:43	TEST1	Camera 1	TEXT_STRING	0	Test String 3
01/27/11, 11:16:43	TEST1	Camera 1	TEXT_STRING	0	Test String 4
01/27/11, 11:16:43	TEST1	Camera 1	TEXT_STRING	0	Test String 5
01/27/11, 11:16:53	TEST1	Camera 1	TEXT_STRING	0	Test String 1
01/27/11, 11:16:53	TEST1	Camera 1	TEXT_STRING	0	Test String 2
01/27/11, 11:16:53	TEST1	Camera 1	TEXT_STRING	0	Test String 3
01/27/11, 11:16:53	TEST1	Camera 1	TEXT_STRING	0	Test String 4
01/27/11, 11:16:53	TEST1	Camera 1	TEXT_STRING	0	Test String 5

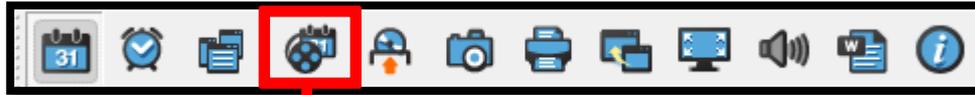
Window Control

Default Layout

To reset window control to the default.



Smart Player Icon and Description



Total Record Time

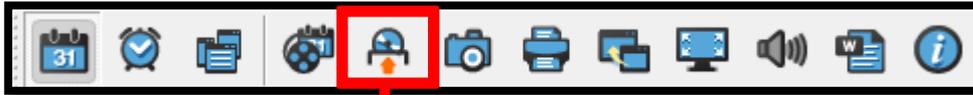
Total Record Time

Server	Camera	Start Time	End Time
Demo-FC	Camera 1	10/21	10/21
Demo-FC	Camera 2	--/--	--/--
Demo-FV	Camera 1	10/21	10/21
Demo-FV	Camera 2	--/--	--/--
Demo-WM	Camera 1	10/21	10/21
Demo-WM	Camera 2	--/--	--/--
Network Video Syste	Camera 1	--/--	--/--

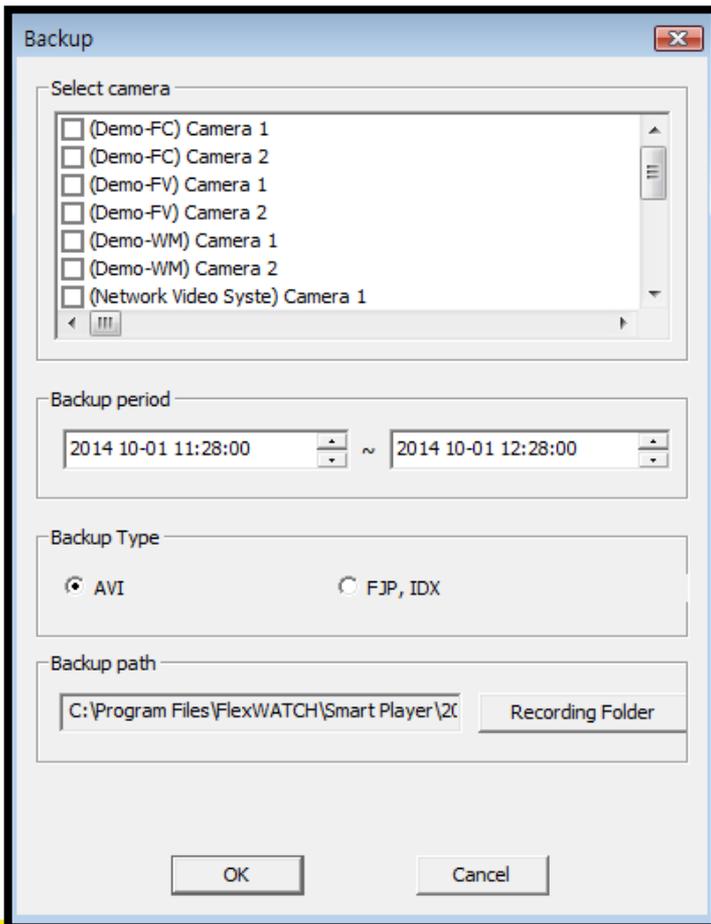
OK

**Provides time of latest recorded file and recent recorded file according to the server or camera.
Time for erased/overwritten recorded file is not shown.**

Smart Player Icon and Description



Backup

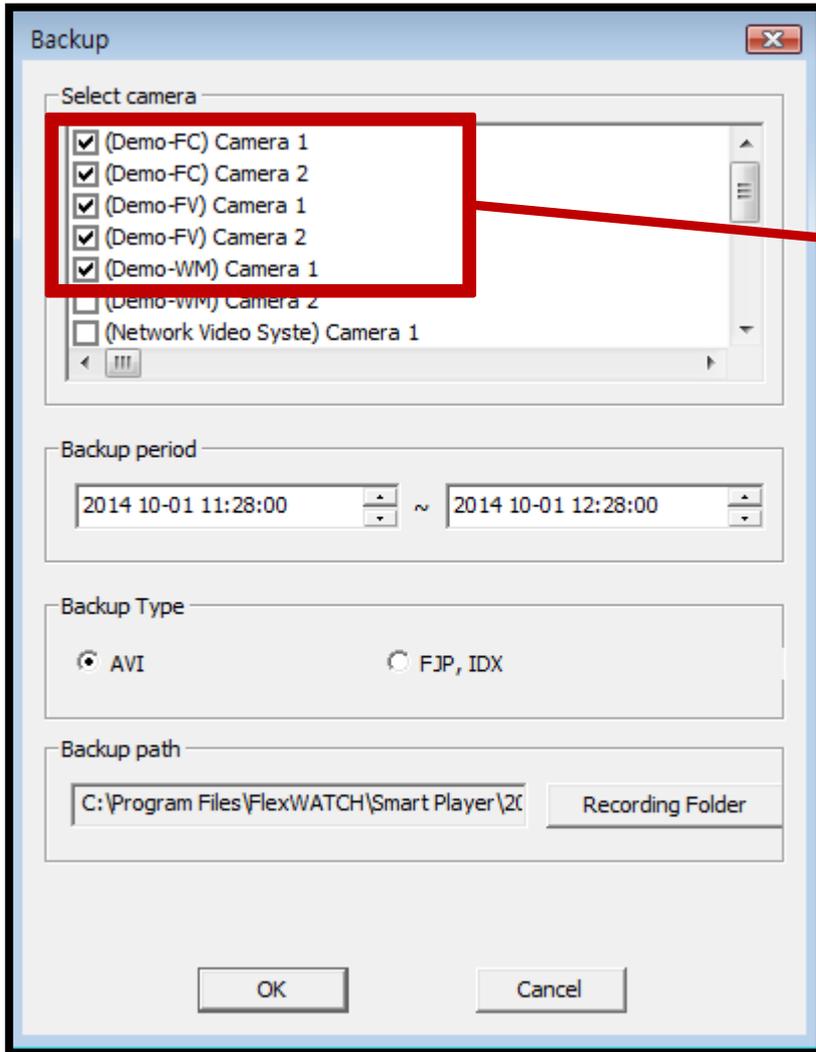


Select camera, date & time, type(avi or fjp), backup path to back up.

**Maximum file size of single backup file is limited to 700MB.
(If it exceed 700MB, the file is automatically split into multiple files)**

Backup

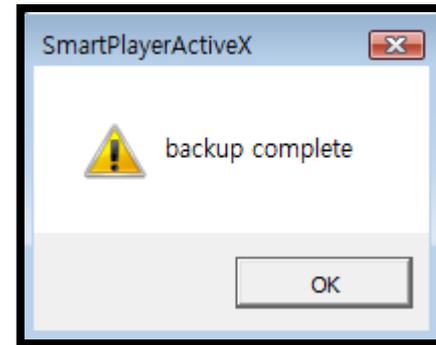
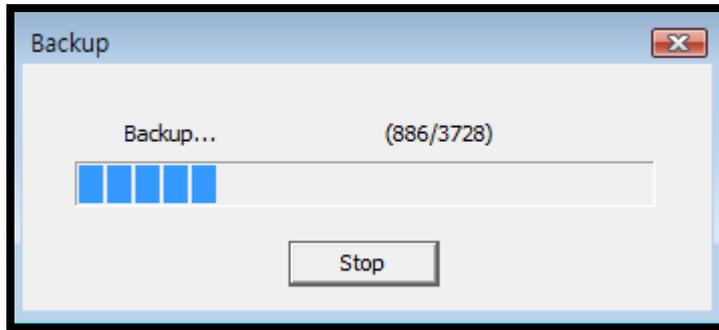
CAUTION : Only one camera can be selected for AVI type.



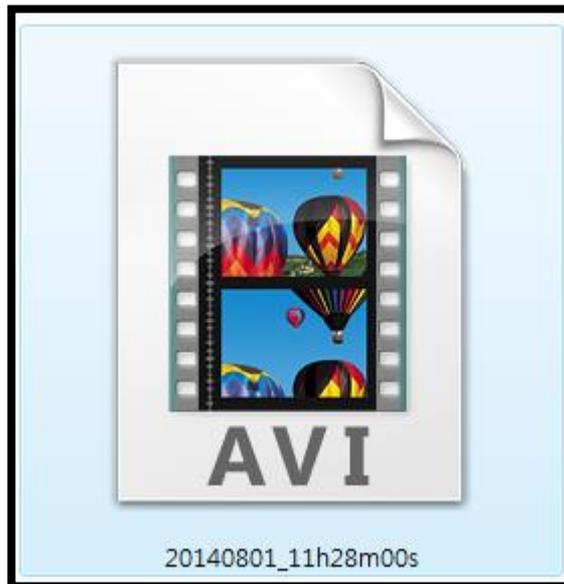
When multiple camera is selected for AVI type, error message will pop-up.

Only FJP type can backup multiple cameras at once.

Backup



When backup is complete, above message will pop-up and backup file can be found in the path designated.

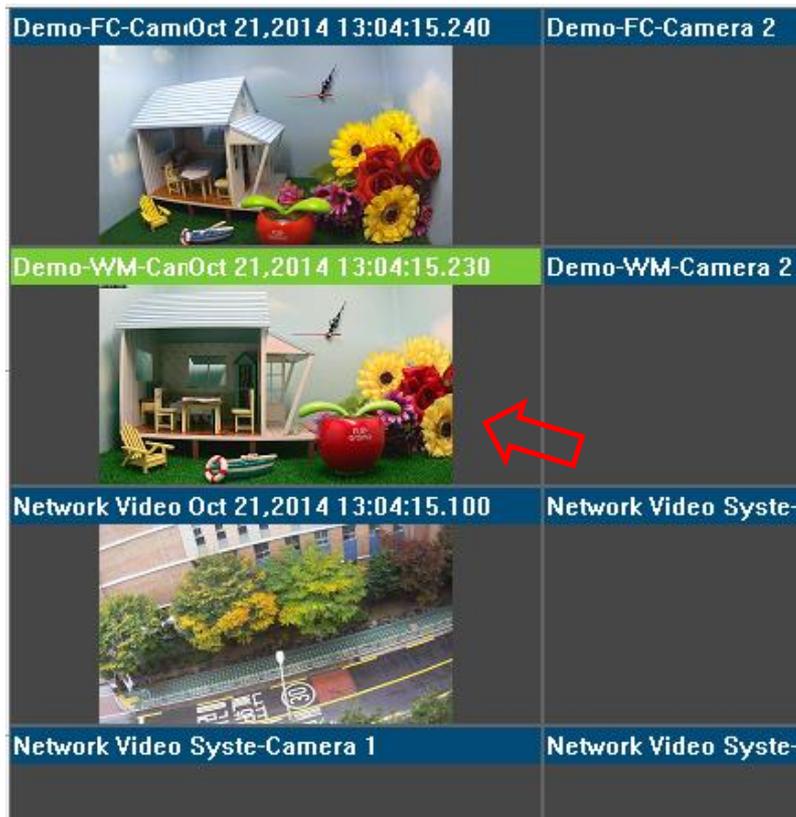


Smart Player Icon and Description



Snapshot

Screenshot function for playback video.



Select camera

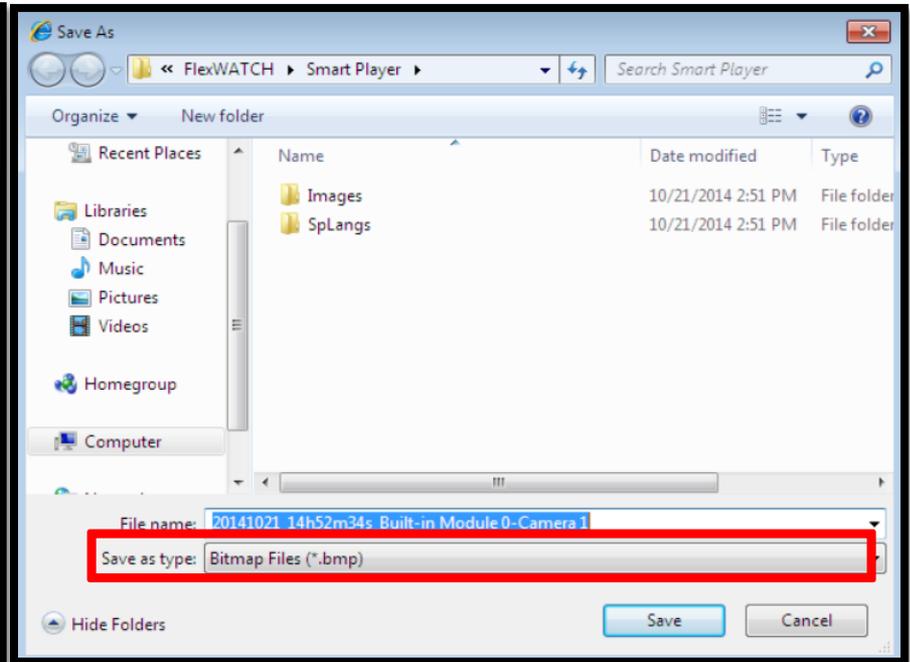
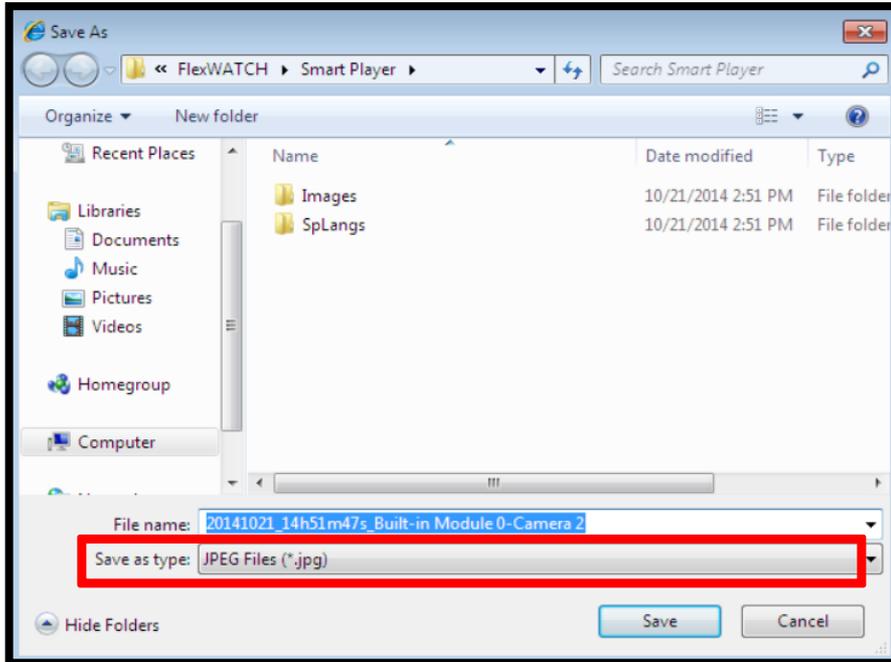


Click snapshot icon



Image file recorded

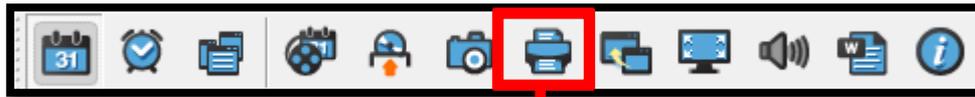
Snapshot



Snapshot may differ in file type.

MJPEG video will save JPG file snapshot
H.264 video will save BMP file snapshot

Smart Player Icon and Description



Print



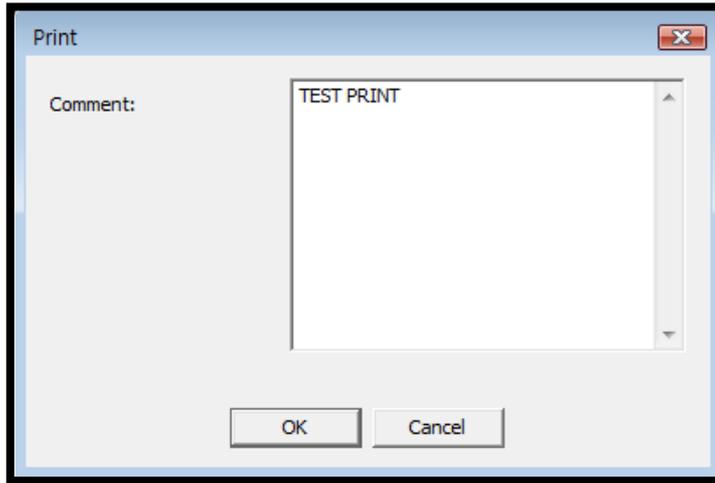
Select camera



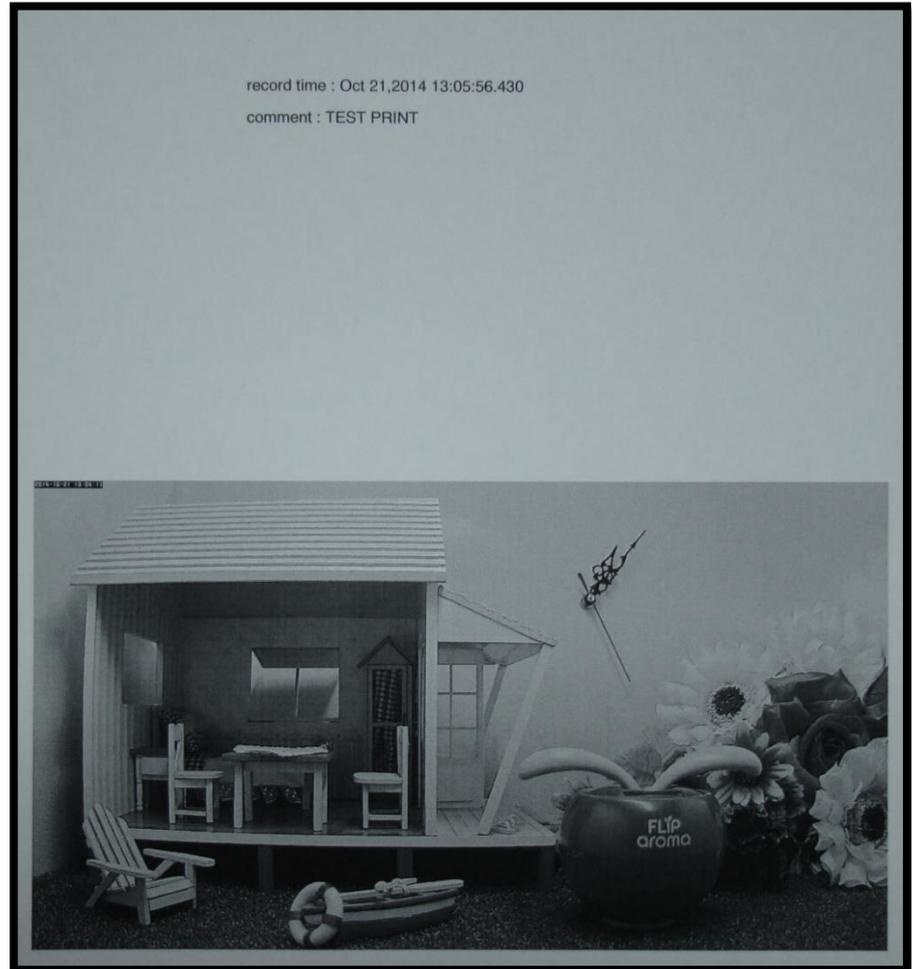
 Click Print



Print



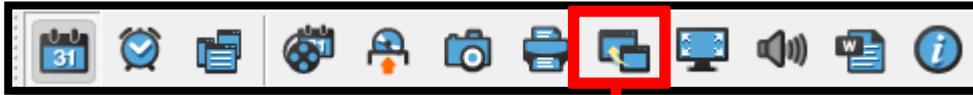
**Enter comment, and press OK.
Image will be printed with the comment**



**Only 1 line can be printed
though unlimited text can
be entered.**

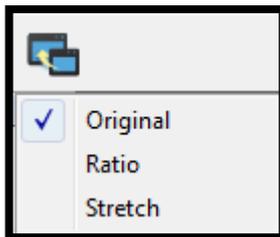
**Less than 50 characters of
Alphabet/Number is
recommended.**

Smart Player Icon and Description



Ratio Display

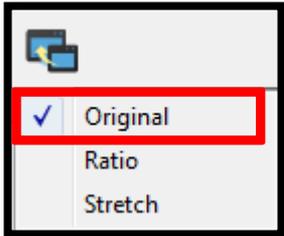
“Ratio Display” menu is to configure display ratio of playback images.



3 modes are available.

- 1. Original**
- 2. Ratio**
- 3. Stretch**

Ratio Display



When original image is bigger than the display window, mini-window will be created for navigation.

Display in original size according to display pixel/ratio of the monitor.

ZOOM In/Out is available using wheel of the mouse.

Ratio Display



Displays with same aspect ratio of the original image within the display window.

Ratio Display

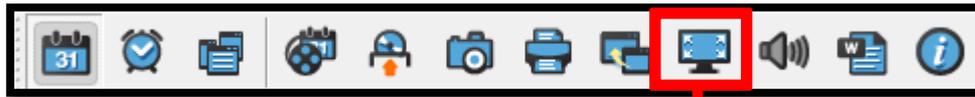


Stretch

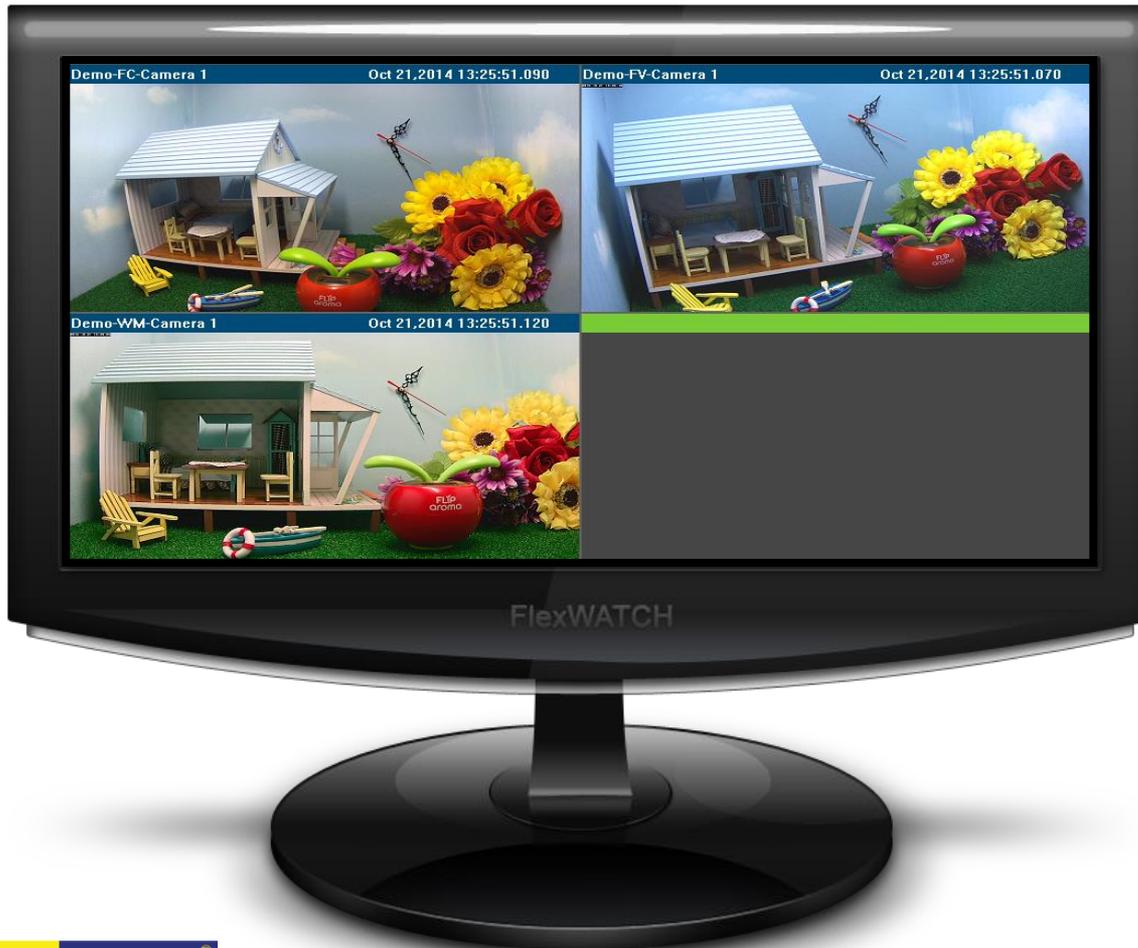


Stretch image within the display window regardless of the aspect ratio.

Smart Player Icon and Description

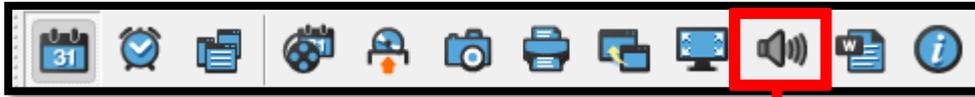


Full Screen



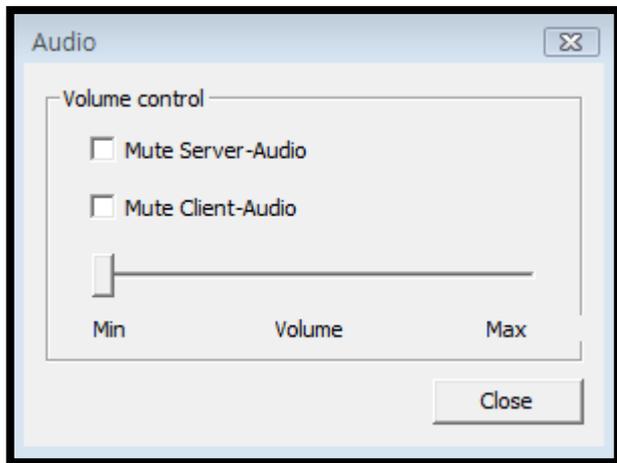
Shows display window
on full screen mode.

Smart Player Icon and Description



Audio Configuration

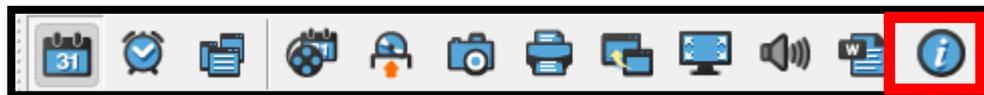
Audio can be enabled only when 1 camera is selected on the display window and when display speed is normal.



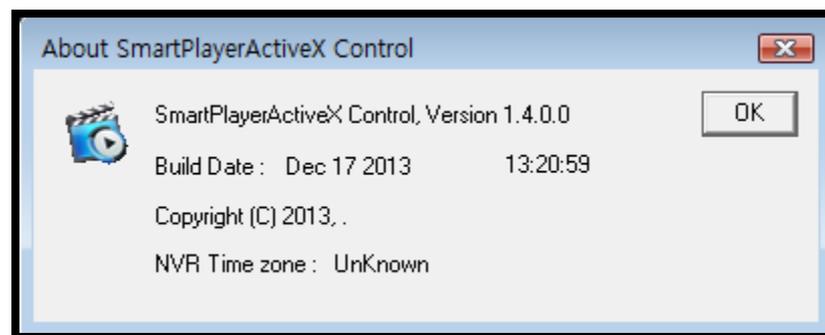
Audio control menu enables to mute or select volume.

Server-Audio : Audio from FlexWATCH server/camera to PC
Client-Audio : Audio from PC to FlexWATCH server/camera.

Smart Player Icon and Description



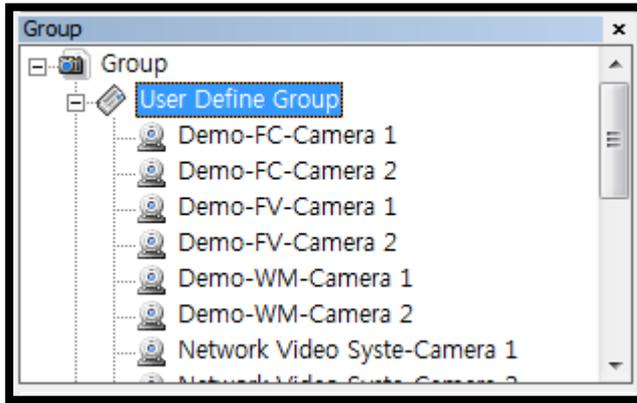
About



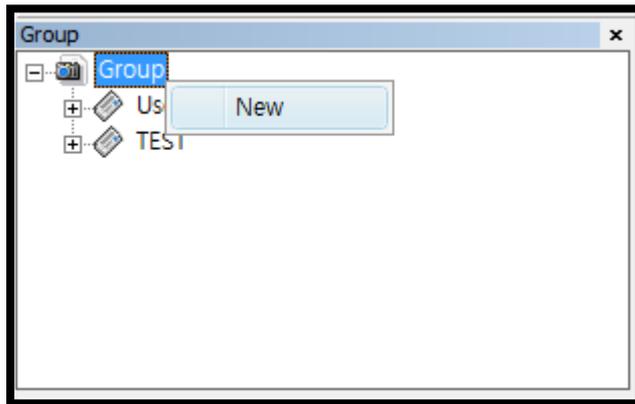
**Shows information on Smart Player
Smart Player Version, Build Date and etc**

Group Registration

To view playback, cameras from the server list should be registered in the group.

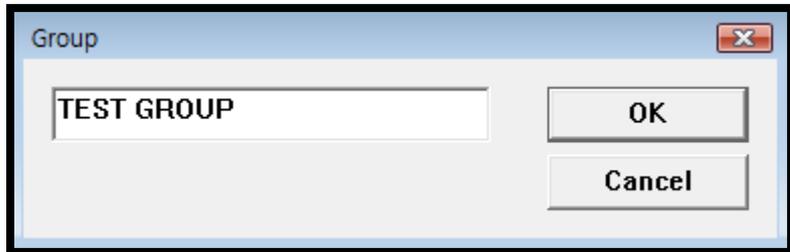


When cameras are registered in NVR, all cameras are registered in User Define Group as default.

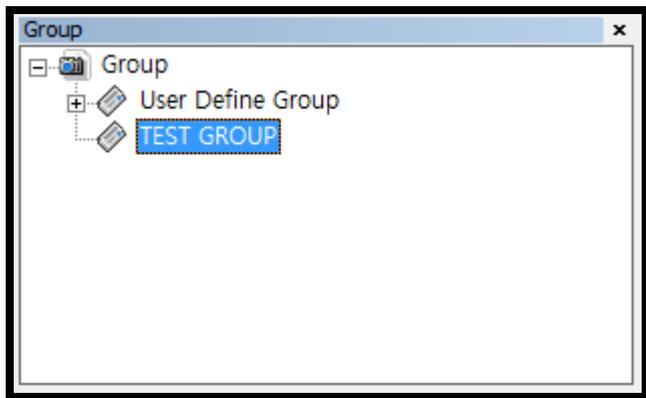


New group can be created according to user's need.
Right-click Group and press NEW to create a group.

Group Registration



Enter group name and press OK.

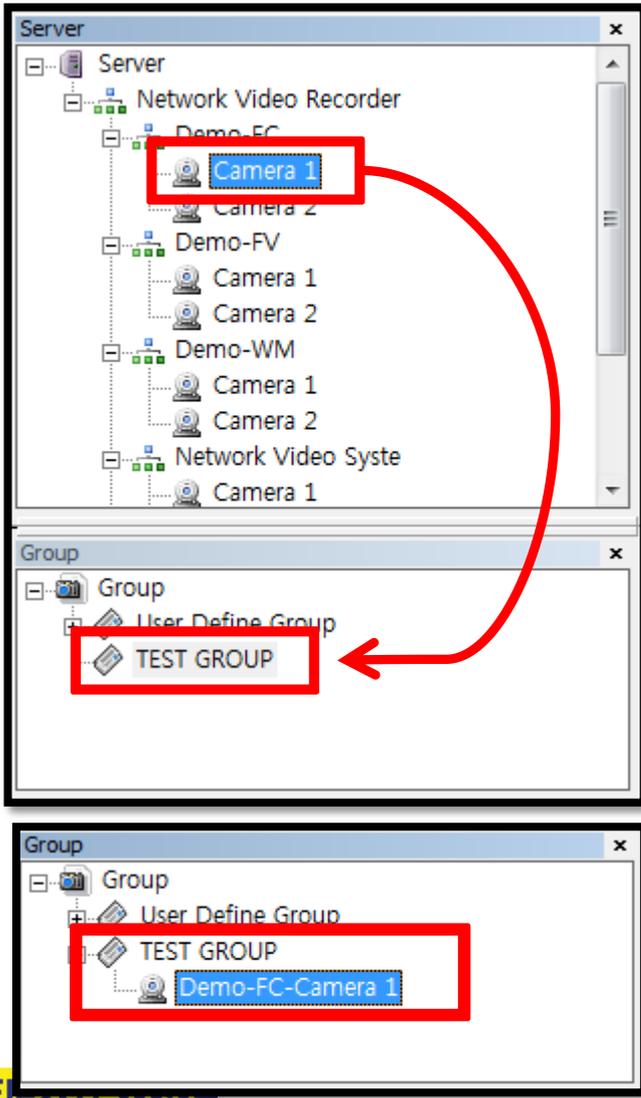


New group is listed.

Groups can be created unlimitedly.
Maximum 16 cameras can be registered in 1 group.

Group Registration

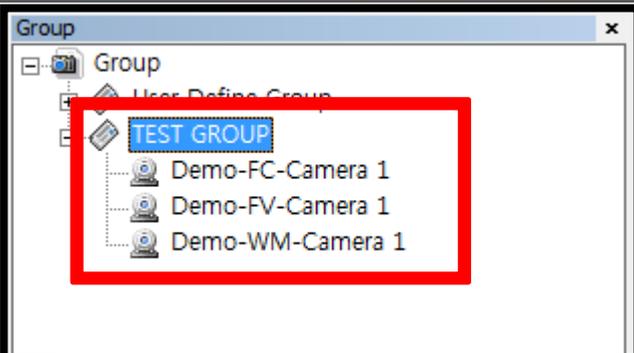
When selected camera is registered in the group, recorded image can be playback.



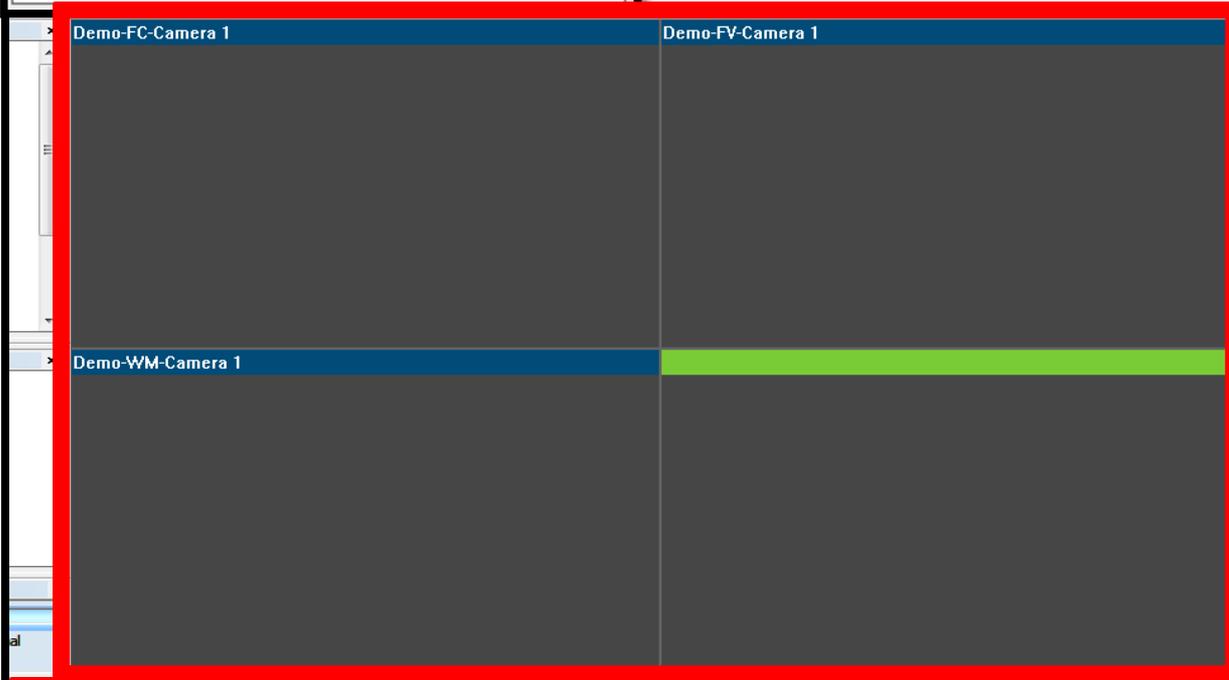
Drag & Drop selected camera from server list to group designated.

[CAUTIONS]
Drag & drop to group name, or else it will not be registered or registered in different group.

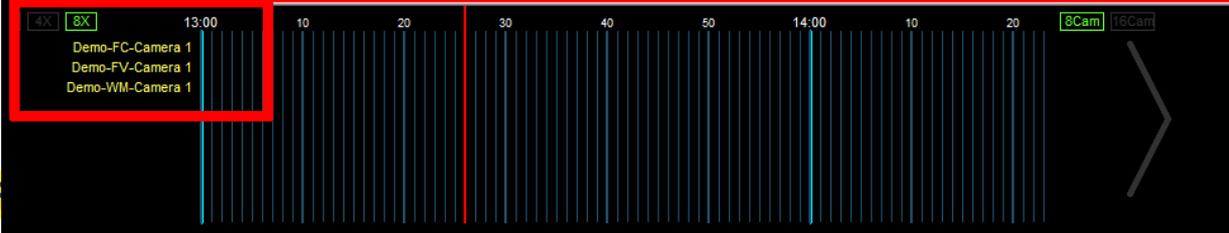
Group Registration



Continue drag & drop to finish group registration.



Select group and cameras are shown in display window.



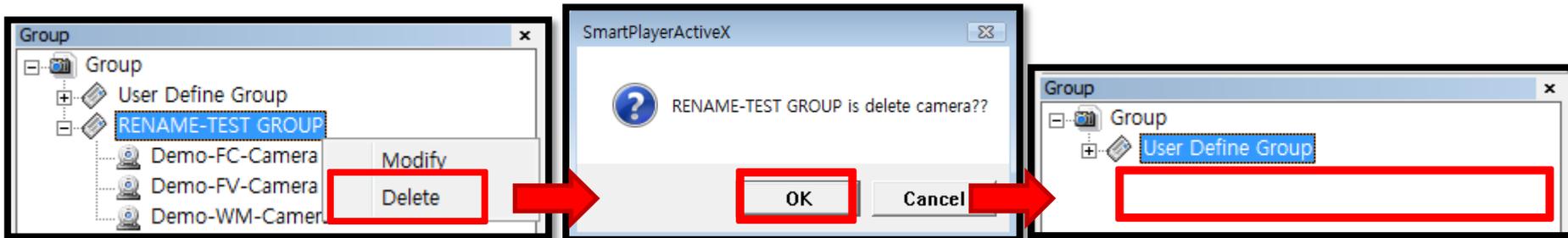
Group Registration

Modify group



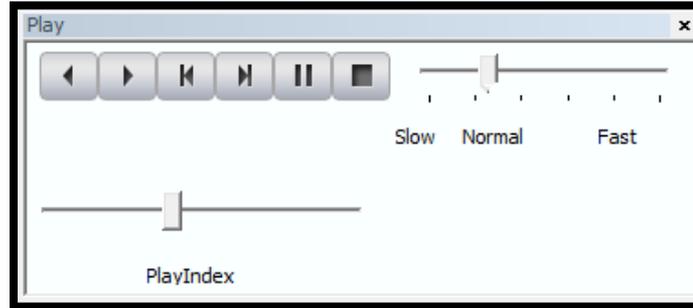
Right-click group name, select modify.
Enter new name and press OK.

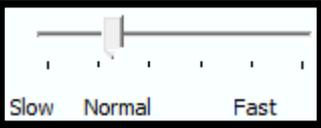
Delete group

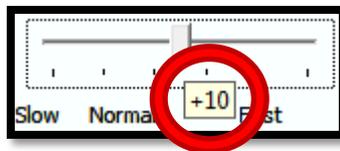


Right-click group name, select delete then OK.

Play Control



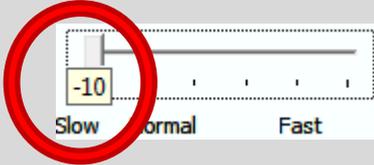
	Reverse Play (for H.264 only I frame display is supported)
	Play
	Reverse 1 frame (for H.264 only I frame display is supported)
	Forward 1 frame
	Pause
	Stop
	Control speed



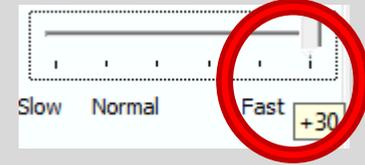
Speed "+10" does not mean 10x playback.
The playback speed can differ according to PC, network condition and etc.

(When playback H.264 image over speed "+11" only I frame display is supported)

Play Control



Control Speed Range
-10 (Slowest) ~ +30 (Fastest)



Progressive bar

Only available in Condition Search Mode.

