FlexWATCH®
Smart Viewer

FlexWATCH®

SEYEON TECH

Copyright Information

GNU General Public License Information

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
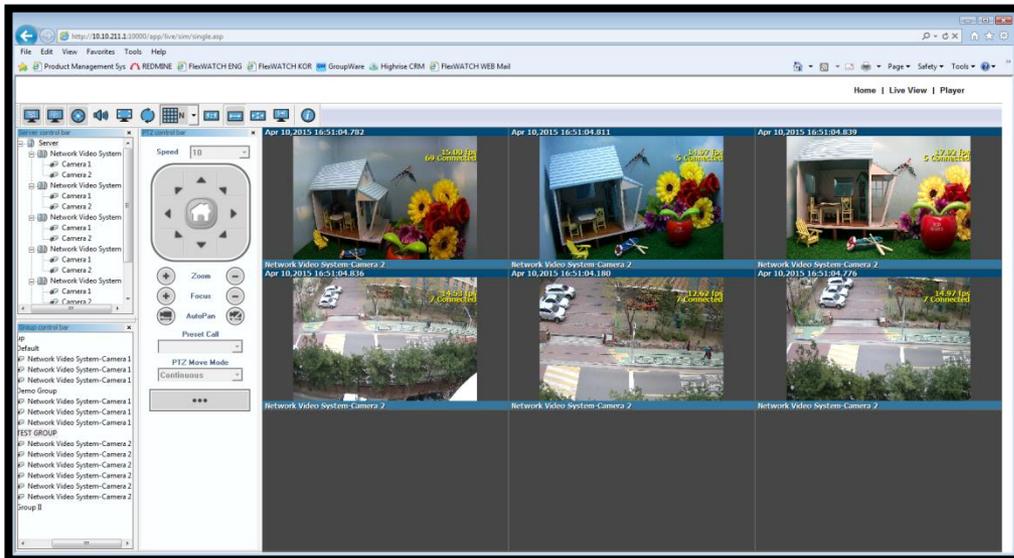
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Contents

Smart Viewer

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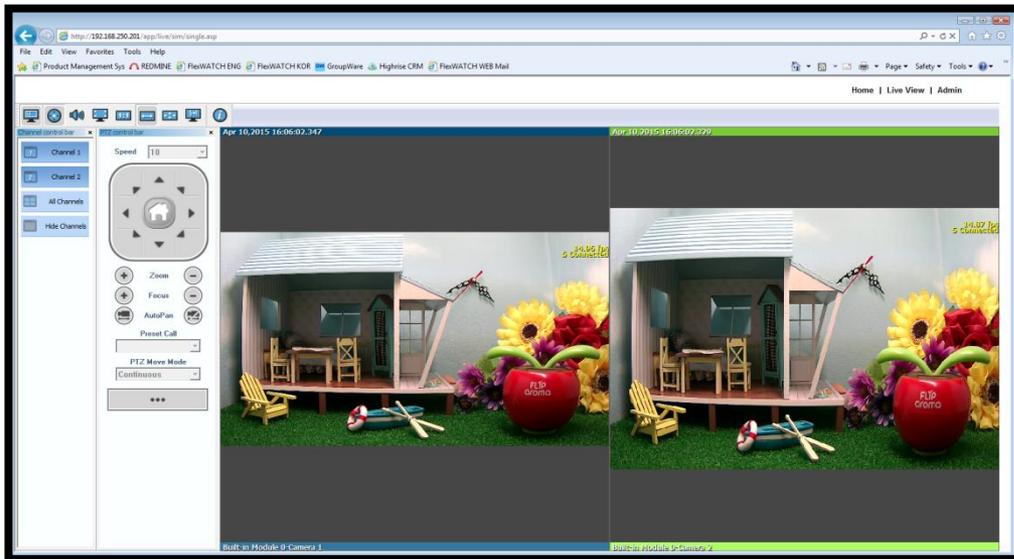
Smart Viewer ?

Smart Viewer is a software support real time live view in Internet Explorer

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Smart Viewer Installation

1 Click **Live View**

2 Click **Install**

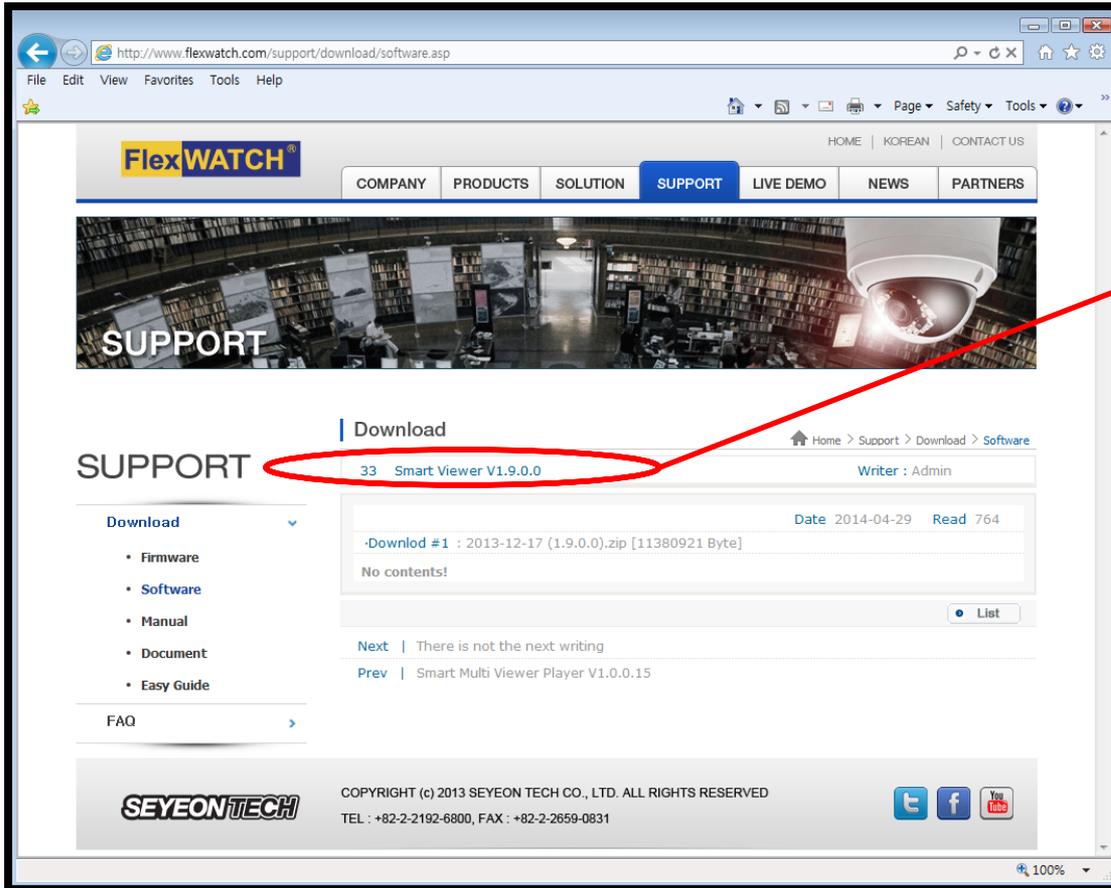This website wants to install the following add-on: 'SmartViewer.cab' from 'Seyeon Tech Co., Ltd.'.   What's the risk?   Install
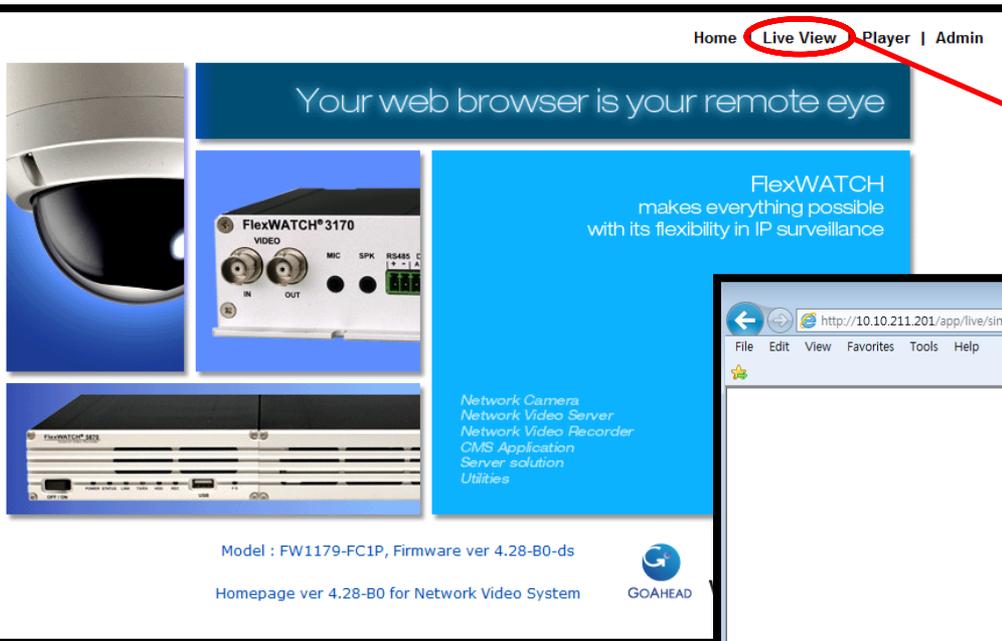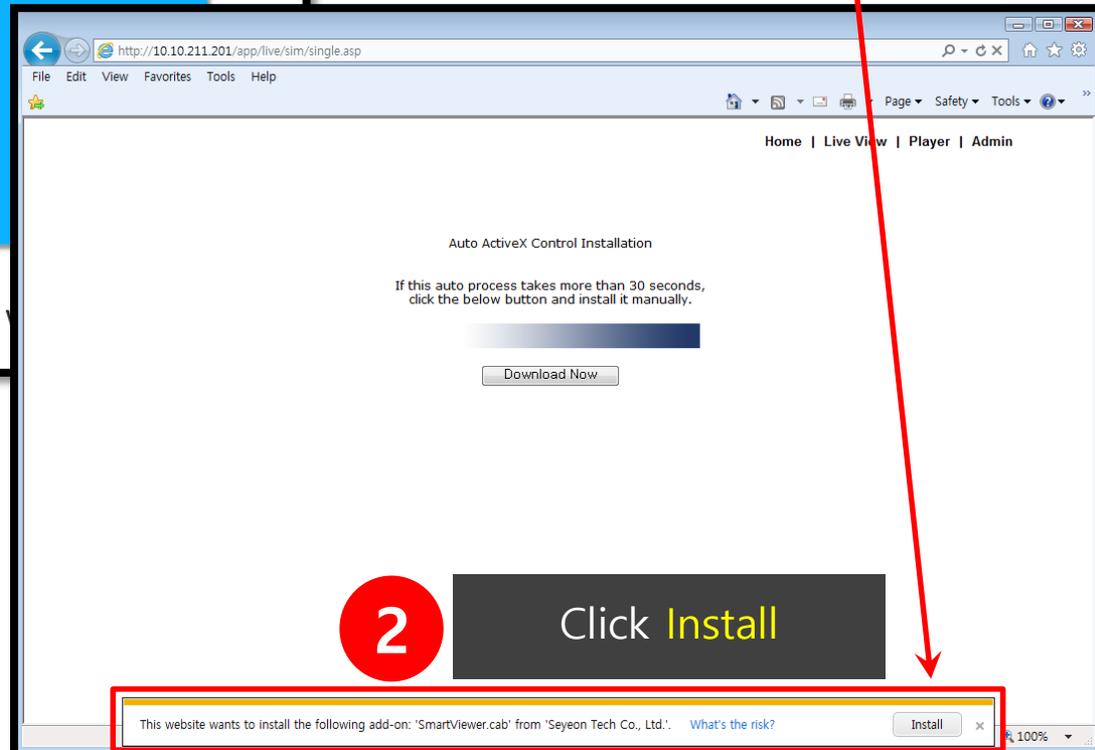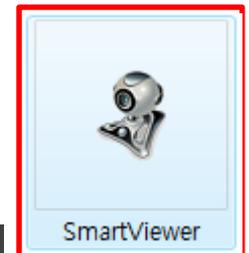
Smart Viewer Installation

Case 2 – Manual Installation

1 Download Smart Viewer.zip in FlexWATCH website

2 Double Click SmartViewer.exe

Smart Viewer Installation

Double Click SmartViewer.exe
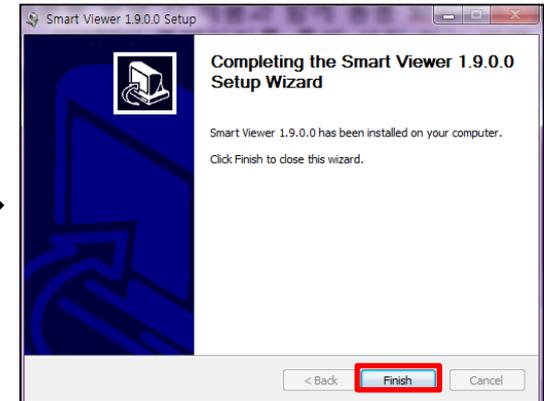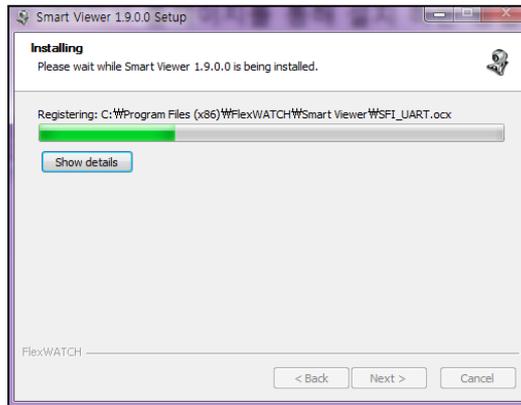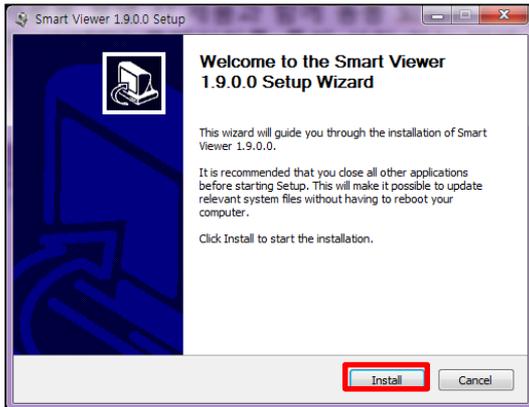
Smart Viewer ICON and Description

Case 1 – Direct Camera Connection

Menu Bar

Channel Control

Audio Control

PTZ Control

OSD Menu

Live View

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Smart Viewer ICON and Description

Case 2 – Connection with Network Video Recorder or Smart NVR

Smart Viewer ICON and Description

Control Menu Bar for Network Video Recorder or Smart NVR
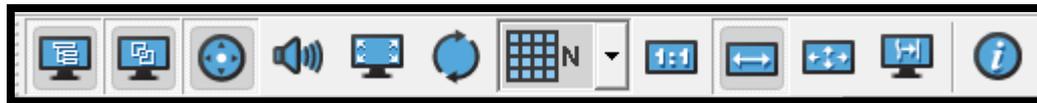
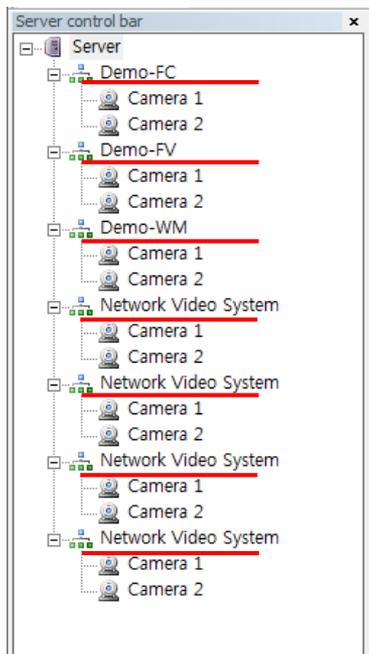| Icon	Description	Icon	Description
	Display / Hide Sever Control Bar	N	Window Layout
	Display / Hide Group Control Bar	1:1	1:1 Video (Original Resolution)
	Display / Hide PTZ Control Bar		Fit video to Window size
	Display / Hide Audio Control Bar		Display in the Entire screen
	Full Screen		Advanced Function
	Group Sequence	i	Program Information

Smart Viewer ICON and Description
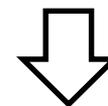
Sever Control Bar

Demo-FC
⋮
Network Video System

➡ Cameras registered in Smart NVR, Video Recorder

Camera 1
Camera 2

⬇

Support Dual Stream

Group Control
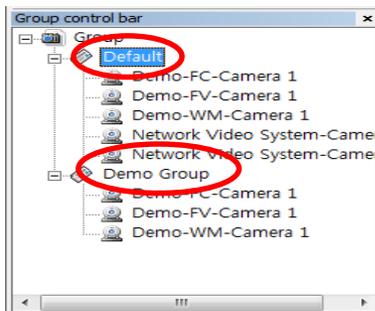
- **Default, Demo Group -> Made by User**
- **Demo-FC-Camera 1**
  (Camera registered in Group)

Smart Viewer ICON and Description

 ➡ PTZ Control Bar

Adjust moving speed of camera
Support 1~16 step
(Higher step is faster)

PTZ Controller
(Controls directions: Up, Down, Right, Left and Diagonal)

ZOOM Control

FOCUS Control

PRESET
Move to the preset position configured in ADMIN page

[STEP]
Camera moves as configured
It is effective for remote camera with slow network condition.
[Continuous]
Camera keeps moving while direction button is pressed
It is effective for local network condition with fast response

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Smart Viewer ICON and Description

... →

PTZ control bar ×

Speed **16** ▼

Zoom ⊕ ⊖

Focus ⊕ ⊖

AutoPan

Preset Call
Preset #1 ▼

PTZ Move Mode
Continuous ▼

...

		Assign Group number and run Group (Group No **1**)
		Run Tour as configured
		Turn LIGHT ON / OFF (AUX 1)
		Control AUX 2
		Control AUX 3
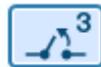
Notices : Menu button can be different depends on PTZ camera

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Smart Viewer ICON and Description

Audio control bar ✕

connected

🔊 |·········

🎤 |·········

Disconnect

The audio connection is already made
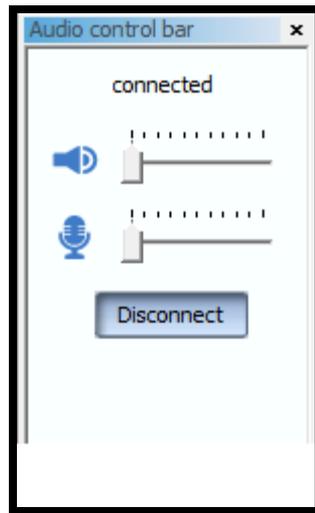
Click Disconnect button for audio disconnection

Audio control bar ✕

Disconnected

🔊 |·········

🎤 |·········

Connect

The audio connection is not made
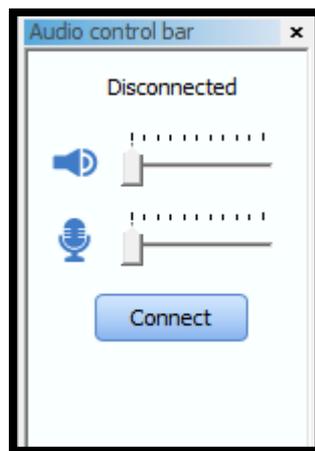
Click Connect button to make audio connection

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Smart Viewer ICON and Description

 ➡️ Full Screen
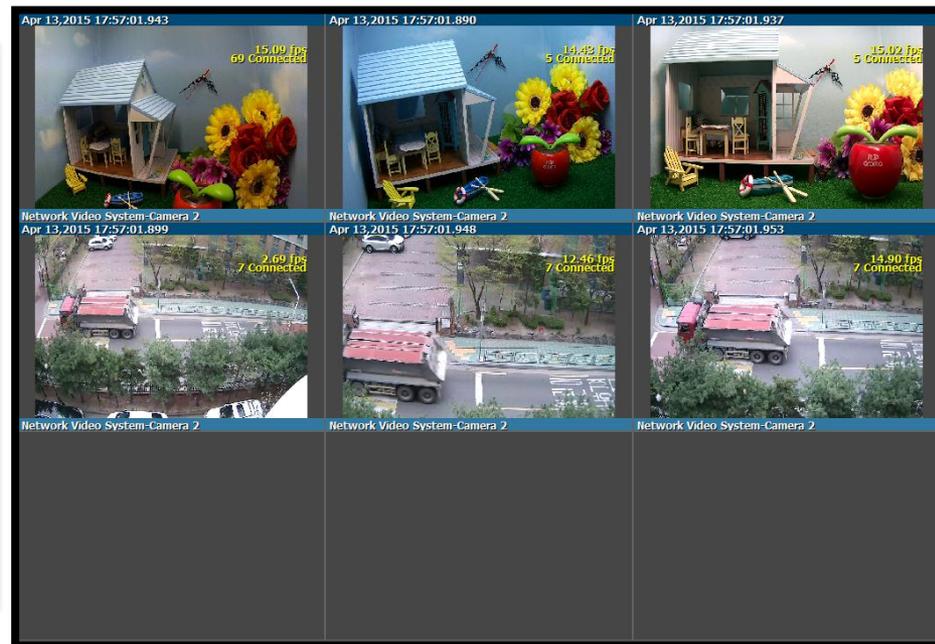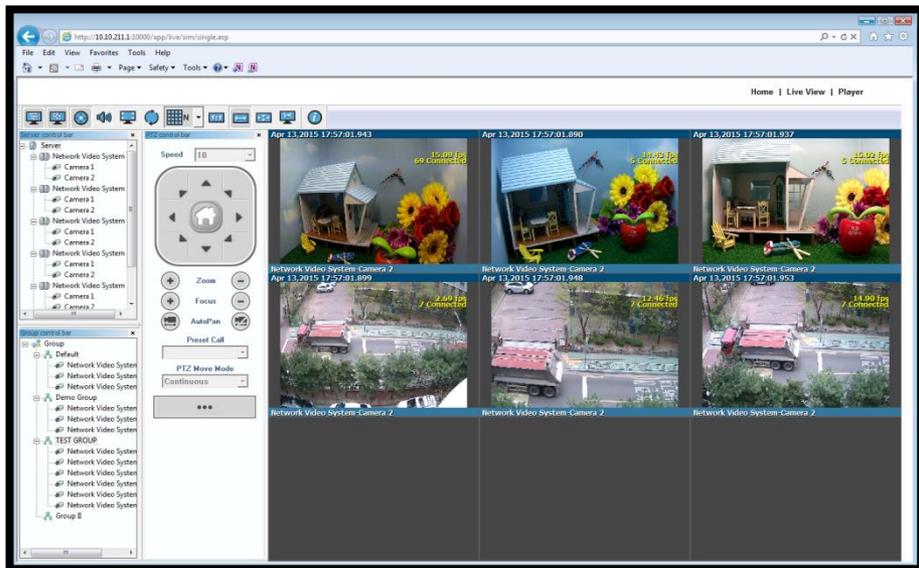
➡️ Standard mode Viewer

➡️ Full Screen mode Viewer

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Smart Viewer ICON and Description

Group Circulation

Configure duration time
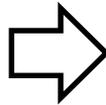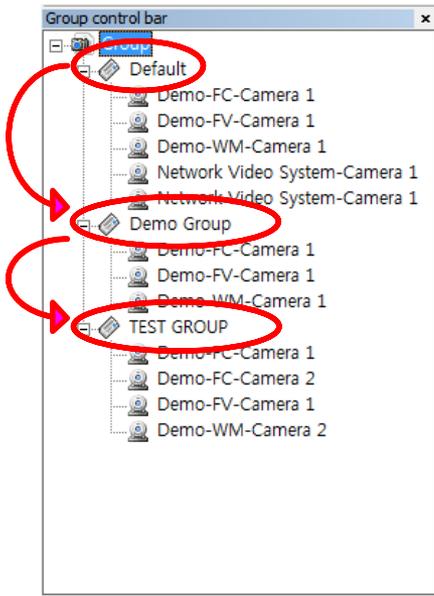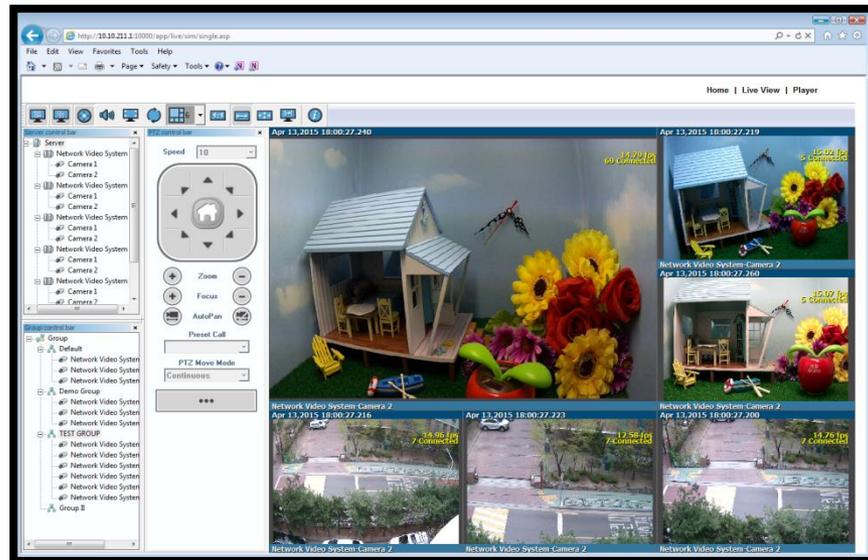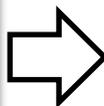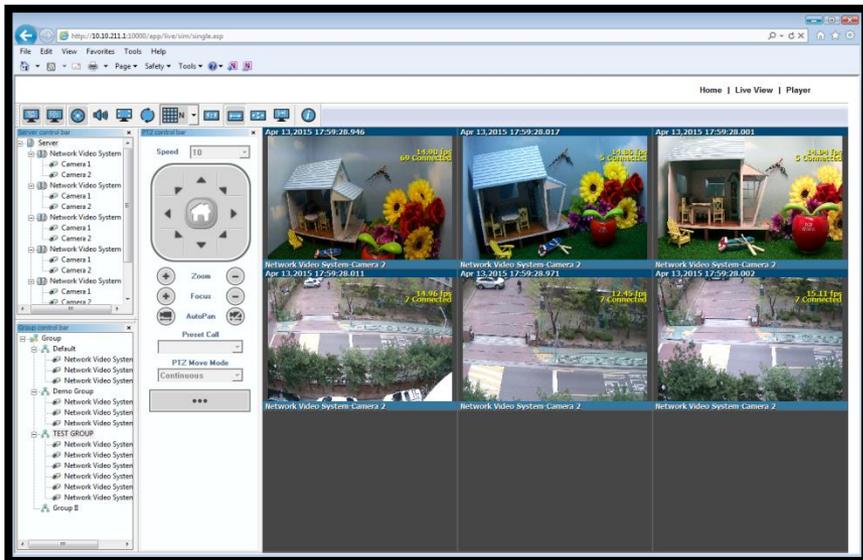
Circulation order :
Top ▶ Down in the list

Smart Viewer ICON and Description

Configure the number of live view channels

Standard display window

Changing display window

Support 11 mode of window layout

Support 9mode of window cell

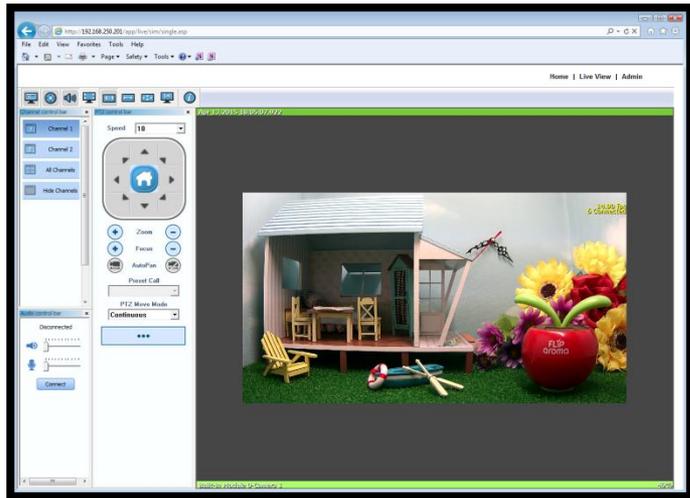|		
2X2	**3X3**	**4X4**
5X5	**6X6**	**7X7**
8X8	**9X9**	**10x10**

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Smart Viewer ICON and Description

| 1:1 | → | 1:1 View |

Display Video with original resolution (Support 10% ~ 1,000% Software Zoom)
- Support Software Zoom in / Zoom out using mouse wheel

1000x Zoom in

1:1 Initial window

10x Zoom out

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Smart Viewer ICON and Description

➡️	Video fit into display window (Keep same aspect ratio)

➡️ **Camera resolution is smaller than display window**
▶ Display original camera resolution

➡️ **Camera resolution is bigger than display window**
▶ Video fit into display window (Keep same aspect ratio)

Notice | Software ZOOM is not supported in this mode

Smart Viewer ICON and Description

Video fill the entire screen
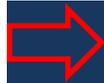

Notice ➡ Software ZOOM is not supported

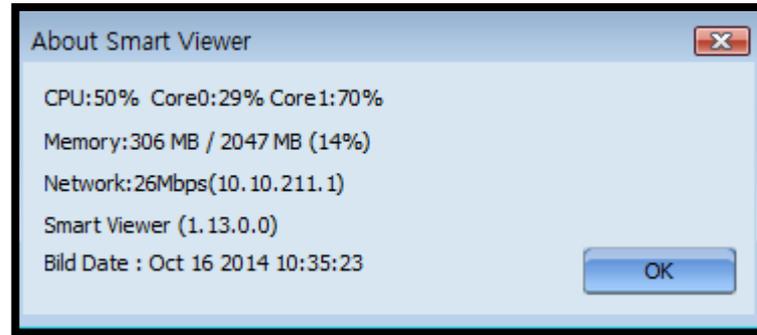# Smart Viewer ICON and Description

Enhanced Draw Mode

OFF

ON

Notice

▶ This function will be effective when you use this function for one camera
▶ Using with Smart NVR registered many cameras, It can causes
CPU overload

Smart Viewer ICON and Description

Smart Viewer Program information

About Smart Viewer

CPU:50% Core0:29% Core1:70%

Memory:306 MB / 2047 MB (14%)

Network:26Mbps(10.10.211.1)

Smart Viewer (1.13.0.0)

Bild Date : Oct 16 2014 10:35:23

OK

CPU:39% Core0:30% Core1:48%	CPU Usage
Memory:959 MB / 2047 MB (46%)	Memory Usage
Network:29Mbps(10.10.211.1)	Network Usage
Smart Viewer (1.10.0.0)	Smart Viewer Version
Bild Date : Sep 15 2014 11:32:48	Smart Viewer Build Date

Smart Viewer ICON and Description

Pop up Menu (Click right button in Live View)

Pause
FPS ▶
Flip ▶
Mute Audio
Do
Navigation
360-degree Camera View ▶

1 – Pause Video

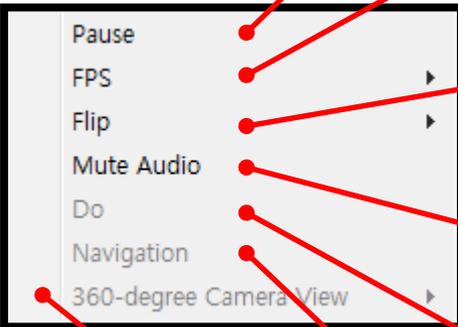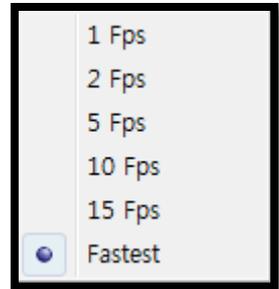2 – Control Frame Rate
(Support only in MJPEG)

3 – Mirror and flip of video

4 – Audio On/Off
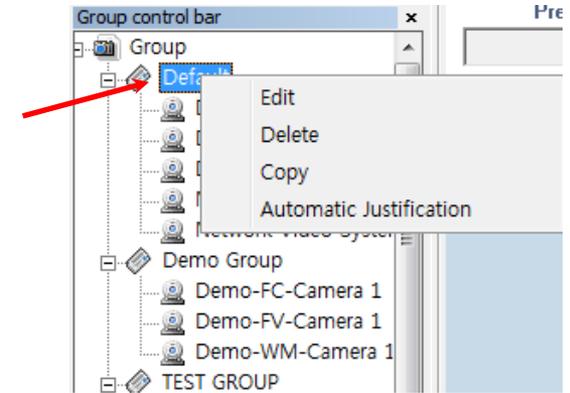
5 – DO Control
(LIGHT or Alram)

6 – Supoprt only in 1:1 view

7 – 360degree Camera View

1 Fps
2 Fps
5 Fps
10 Fps
15 Fps
◉ Fastest

Oct 21,2014 17:51:01.885   6 Connected

Built-in Module 0-Camera 1   110%

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Smart Viewer Features

Put Group Name
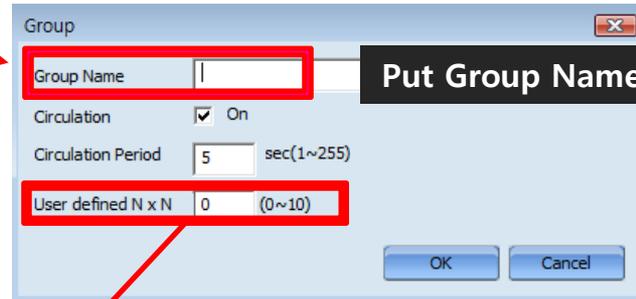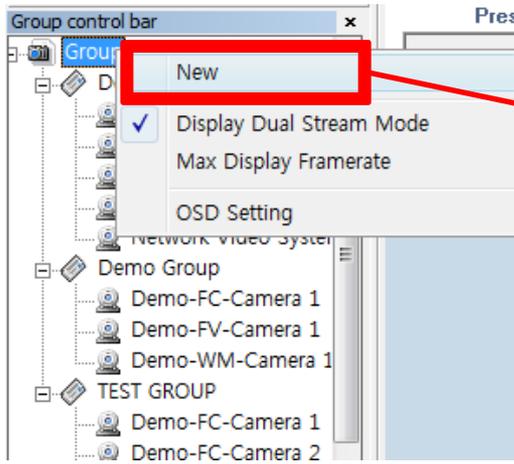
Right click

(10x10)

① Edit : Change group name
② Delete : Delete group
③ Copy : Copy group
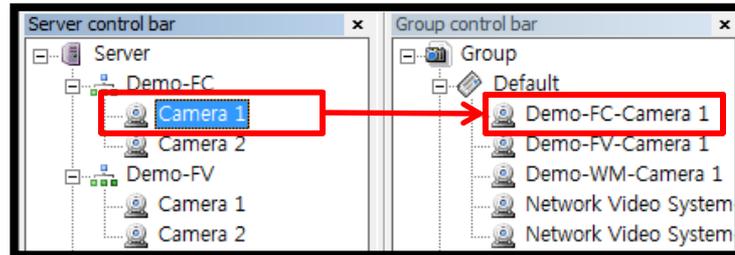④ Automatic Justification
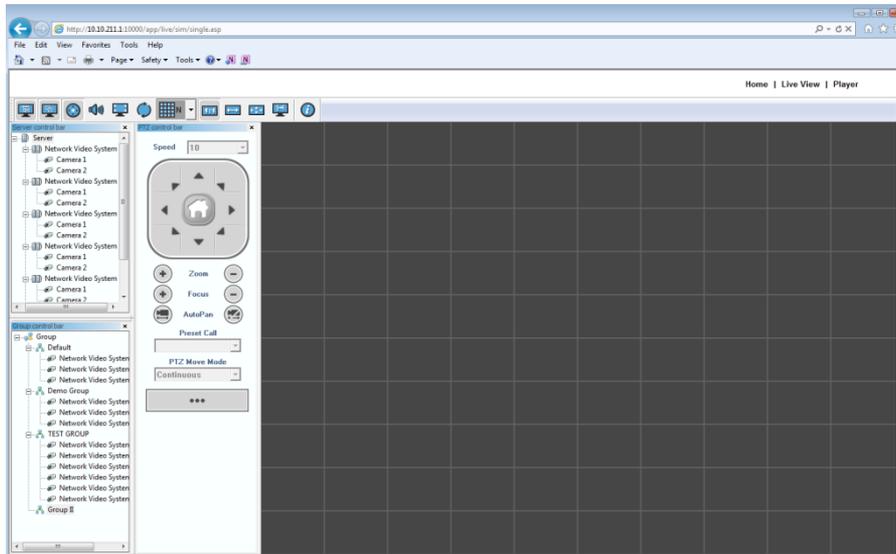
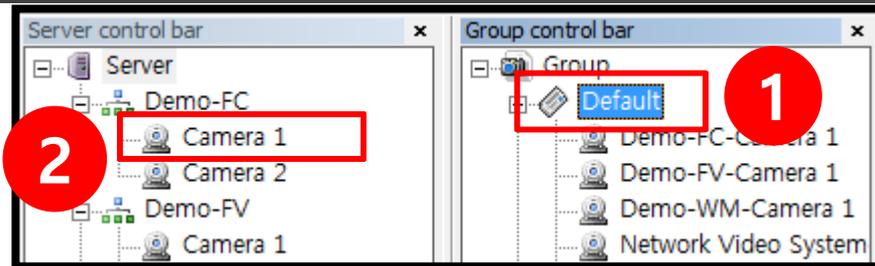# Smart Viewer Feature

(1) Group – Registeration

CASE 1	Drag and Drop

1. Choose camera in server control bar,
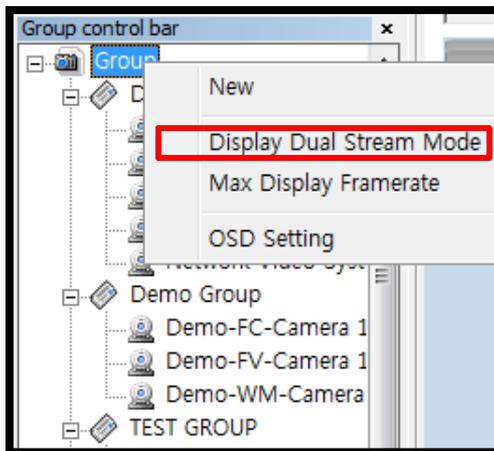2. Drag & Drop in the group

CASE 2	CTRL Key + Double Click

1. Choose a group ,
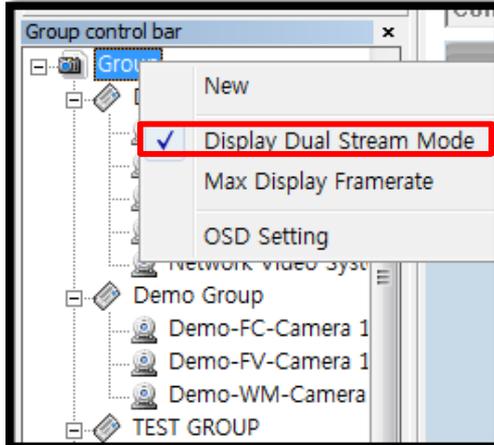2. [Ctrl] + double click the camera in server control bar.

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Smart Viewer Features

When display several camers in a screen ,
Display Secondary video to avoid decrease PC overload and Network traffic

Uncheck Display Dual Stream Mode
▶ Display Primary Stream

Check Display Dual Stream Mode
▶ Display Secondary Stream

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Smart Viewer Features

Setting Max Display Frame rate in Smart Viewer

When the video is not smooth, increase [Max Display Frame rate].
Notice : In case of low performance PC, it causes system Down

Example > Want to monitor 16camera with 30FPS,
          16 (Number of camera) X 30 (FPS) = 480
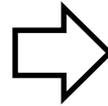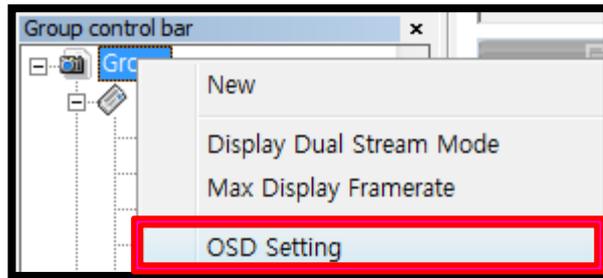   Put 480 in [Max Display Frame rate]
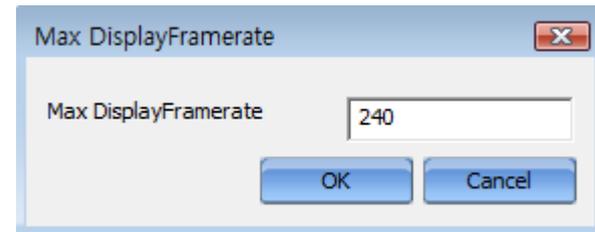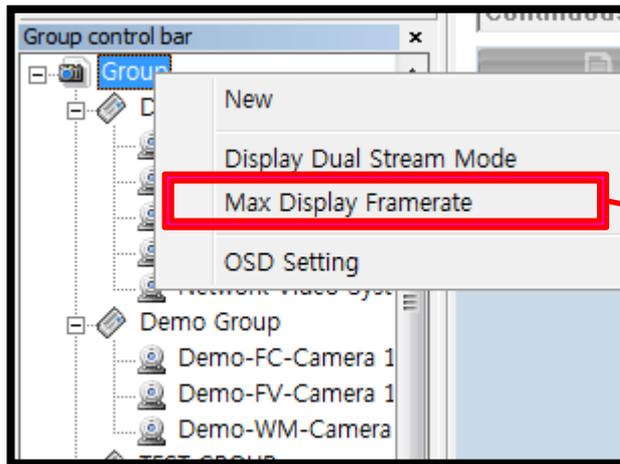
Smart Viewer Features

Menu for Changing OSD in displaying time information
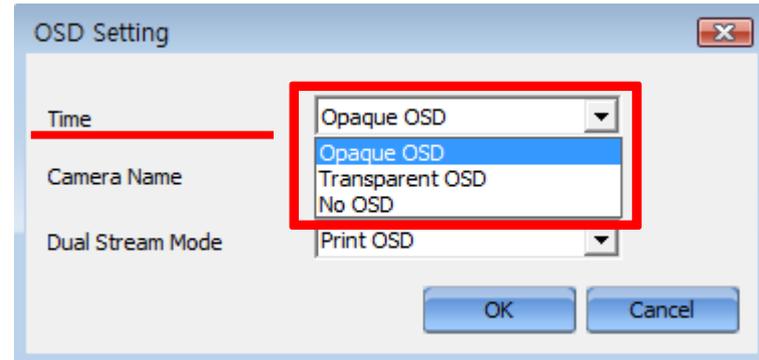
Opaque OSD

Transparent OSD

No OSD

Smart Viewer Features

Menu for Changing OSD in displaying Camera name

Opaque OSD

Transparent OSD

No OSD
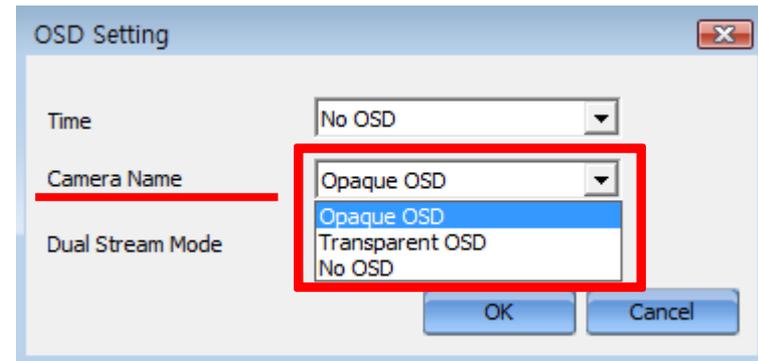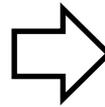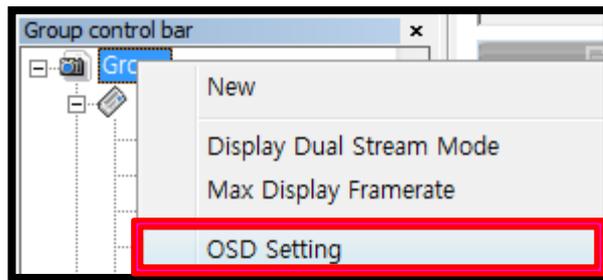
Smart Viewer Features

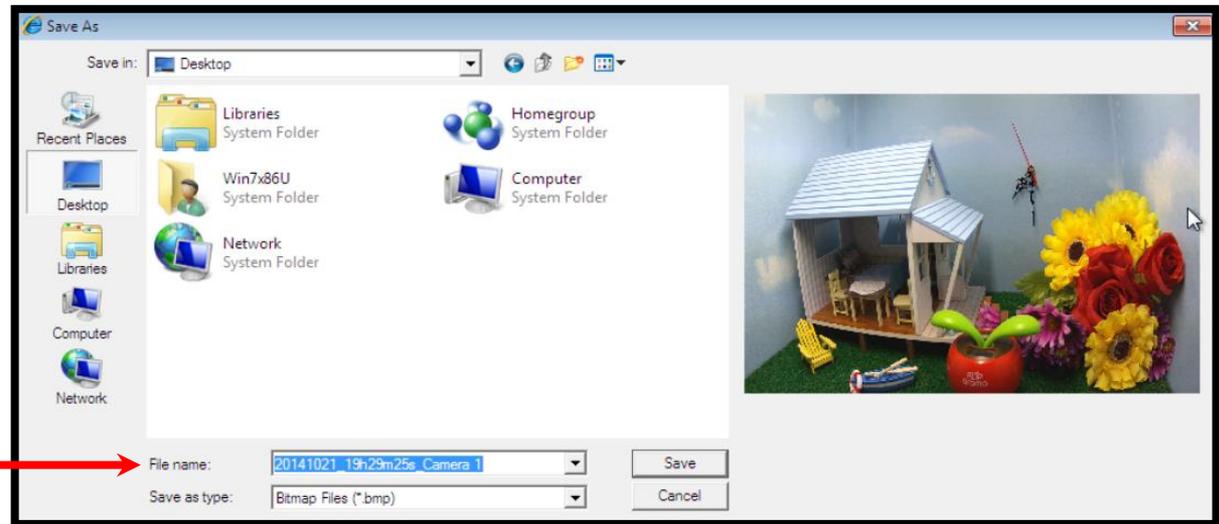Menu for Changing OSD in displaying information of dual stream

No OSD

Print OSD
Secondary

Print OSD
Primary
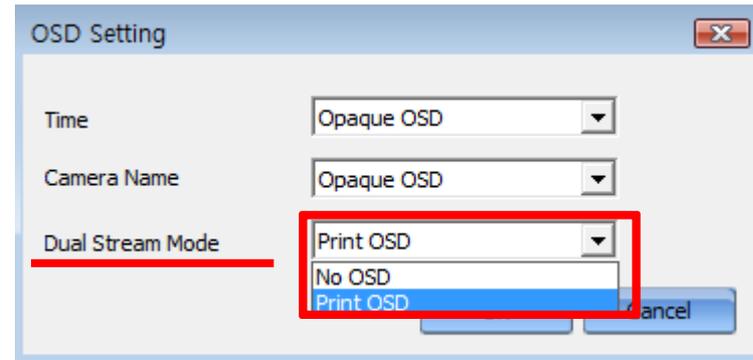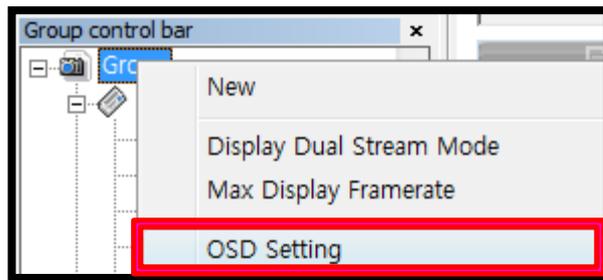
Smart Viewer Features

SCREENSHOT the video and recorded Image file

[Image format]

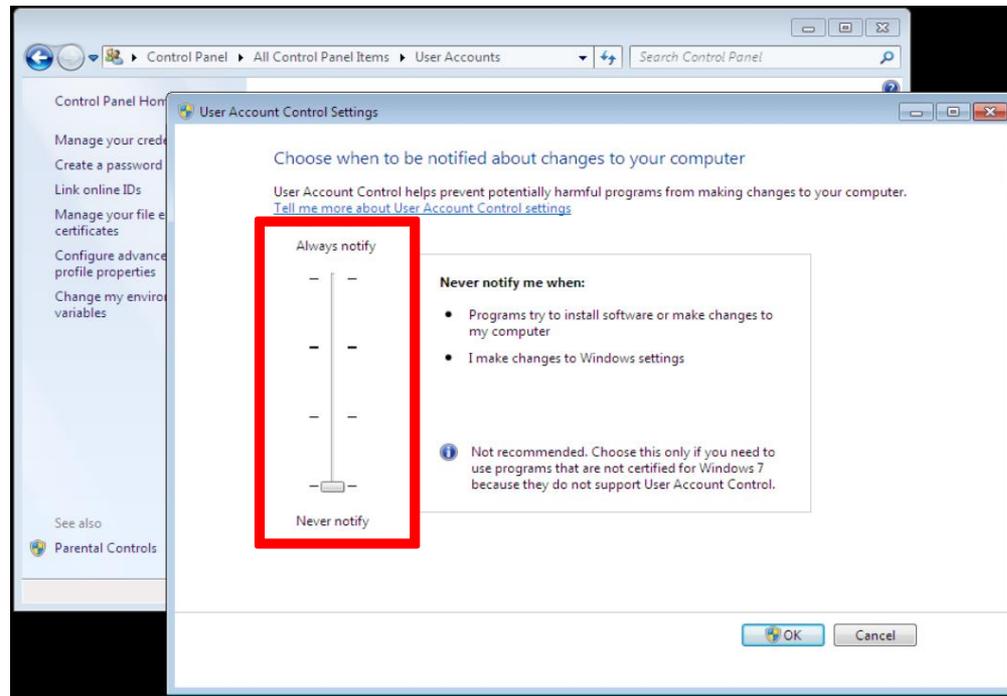Recorded in BMP : With H.264
Recorded in JPG : With MJPEG

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Smart Viewer Features

Notice → No Image after recording the Screenshot

Lower Security level of PC
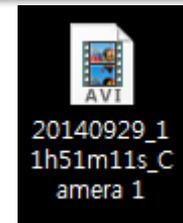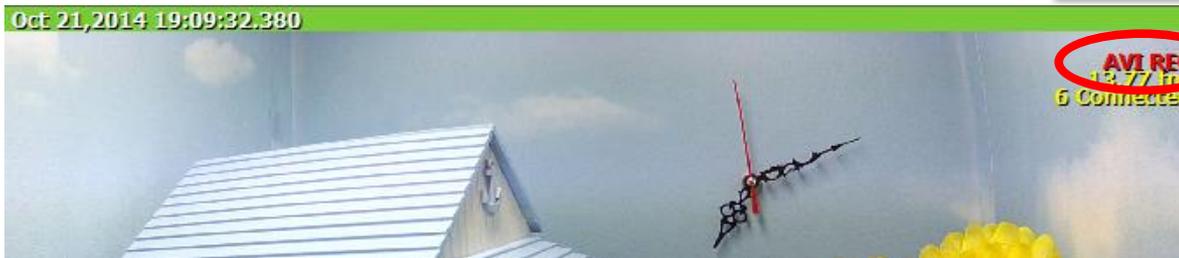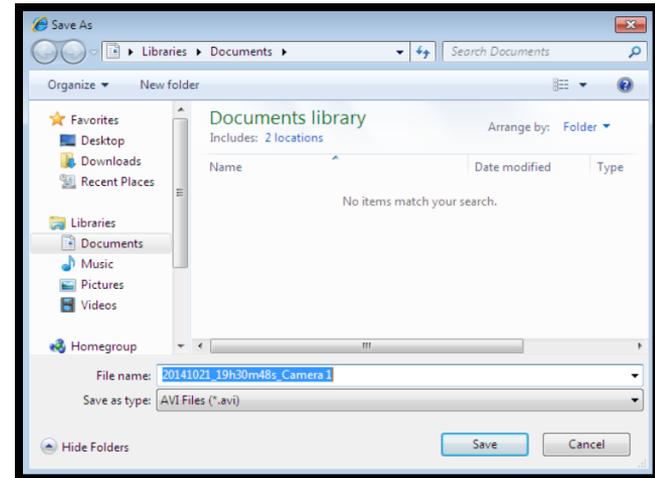< Above Microsoft Windows 7 ▶ Control panel – User accounts – User Account Control Settings>
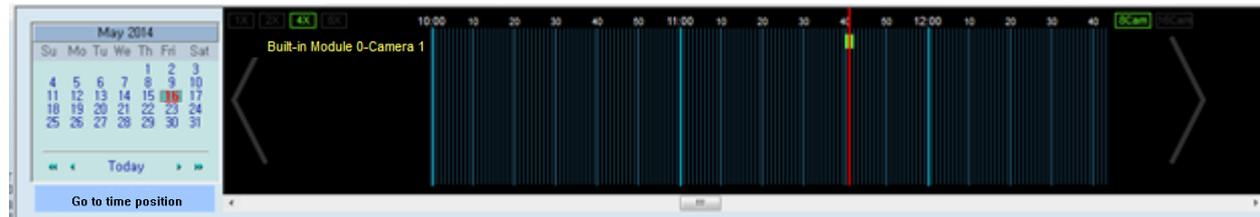
Smart Viewer Features

Recording current video for 10minutes

To stop recording : Click the recording button.
Recorded just before stop recording

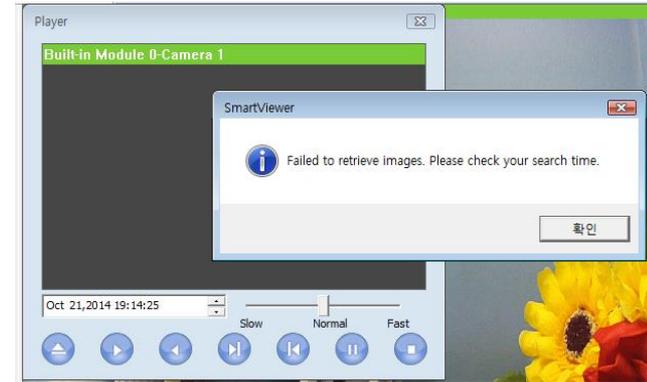# Smart Viewer Features

Recording current video for 1minute in Server

Can playback in Smart Player

To stop recording : Click the recording button.
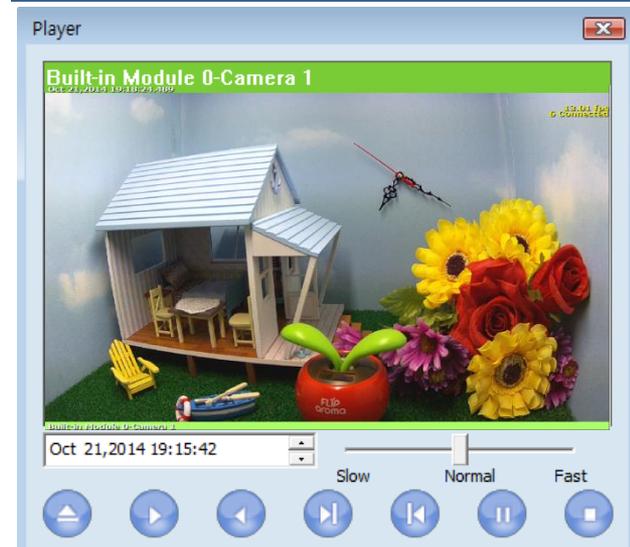Recorded just before stop recording

Smart Viewer Features

No recorded video 1minute before

Playback the video recorded 1minute before

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Smart Viewer Features

Choose a group and Drag & Drop to the secondary monitor

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Smart Viewer Features

Using Duplicate Tab Microsoft Internet Explorer
Drag and Drop the Smart Viewer in the secondary monitor.
It also support with Shortkey (CTRL + N)