

# FlexWATCH®

## Smart NVR 2.0



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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.

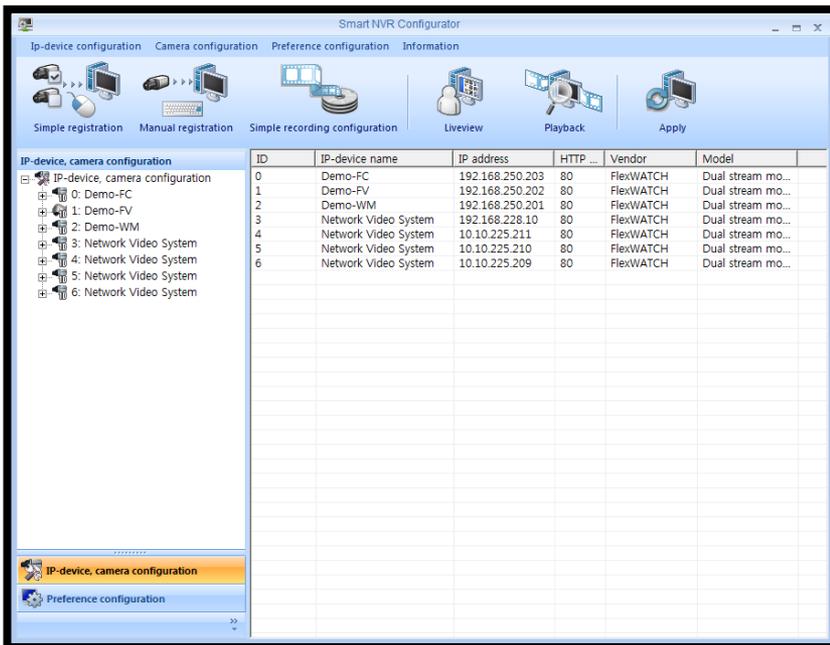
Regular maintenance by formatting microSD card in every 6 months is highly recommended as microSD card could be damaged by physical, or electrical characteristics. or its file system may be fragmented, resulted in degradation in performance by repeated access.

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

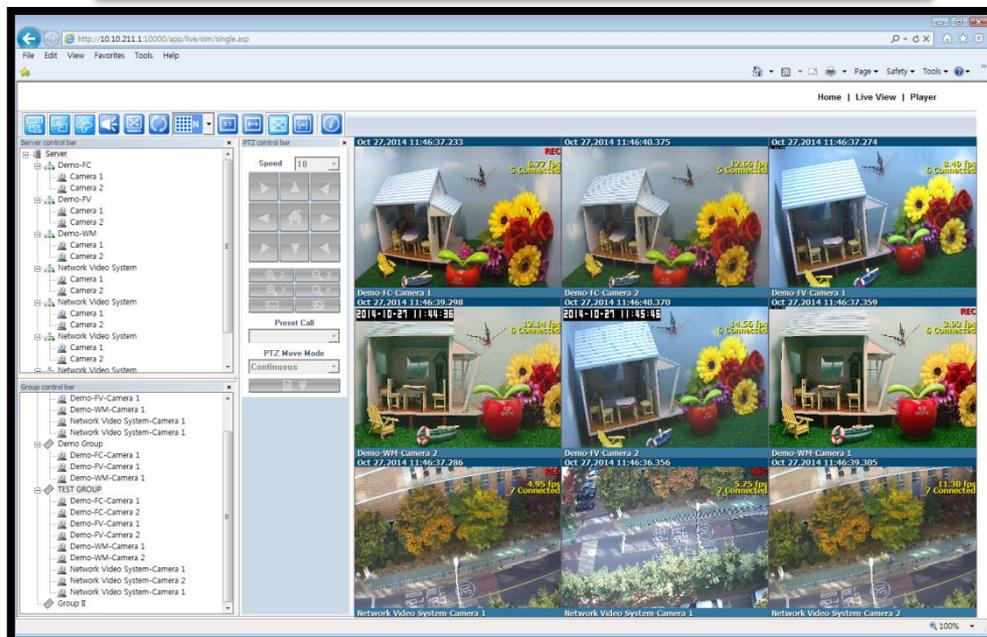
## Smart NVR 2.0

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2. Smart NVR Installation
3. Smart NVR Quick Guide
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6. IP-Device Configuration
7. Camera Configuration
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# Smart NVR 2.0 ?

Smart NVR is a software that provides management of other IP devices such as IP camera, NVS, NVR and even other Smart NVR for live view, recording, search and playback, backup and etc.



# How can I get Smart NVR's Product Key?

For all **Smart NVR** purchased, you will receive 'Coupon' number by CD or E-mail from us.

## Basic information

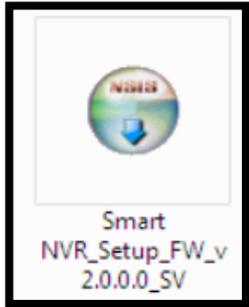
- Once you receive a **Coupon** from your local distributors or FlexWATCH, you can easily issue a **Product-key** on [www.goodskey.com](http://www.goodskey.com) (On-line product-key generator).
- You will be requested to select a key type; **Product-key** when you install the latest version.

## Benefits of the license key system

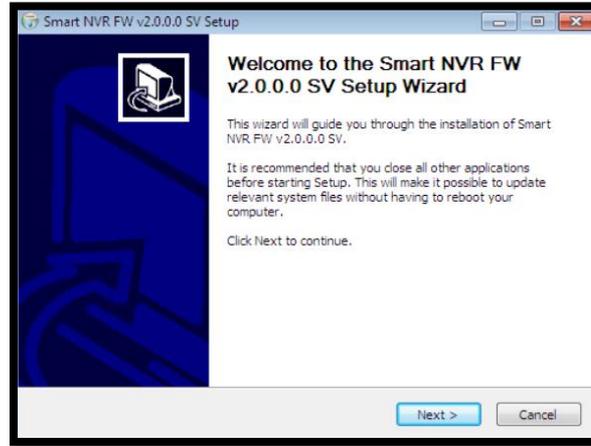
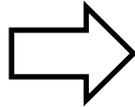
- It saves the delivery time and costs by E-mail when it's needed.
- It is much safer than 'H/W type USB-keylock' that can be lost or damaged.

If you need more detail guides  
Please refer to "Quick guide to Smart NVR Product-key" for details.

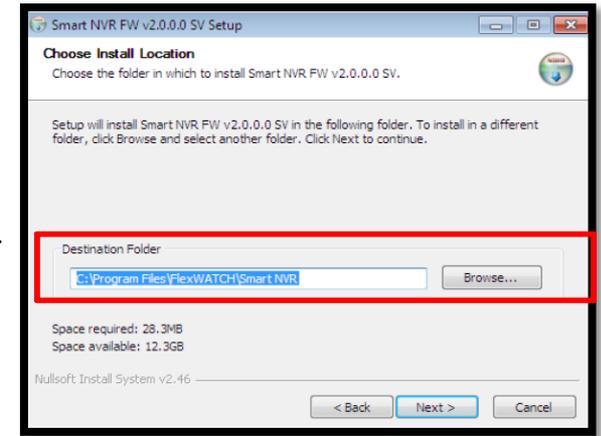
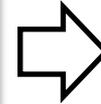
# Smart NVR Installation



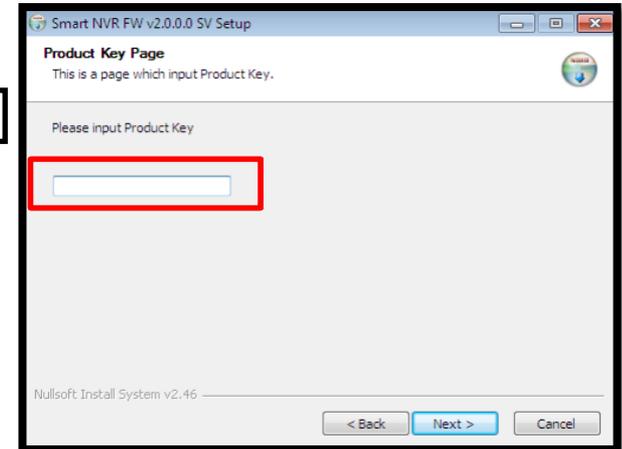
1. Double Click setup icon



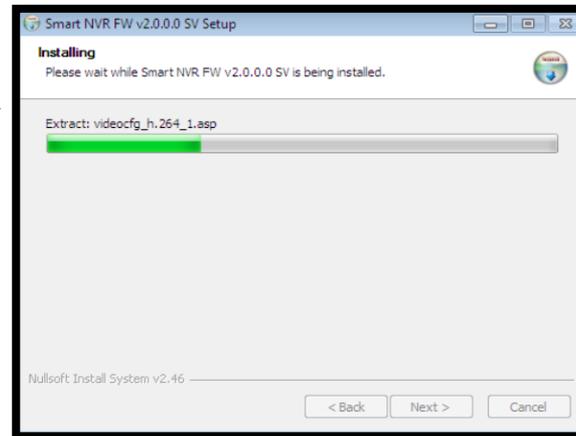
2. Click Next



3. Select destination folder

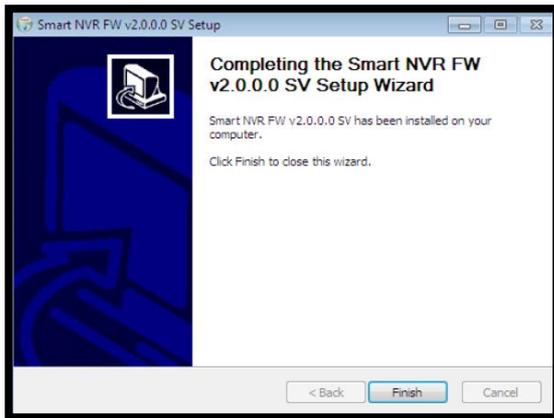


4. Enter Product Key  
(acquired from [www.goodskey.com](http://www.goodskey.com))



5. Installing

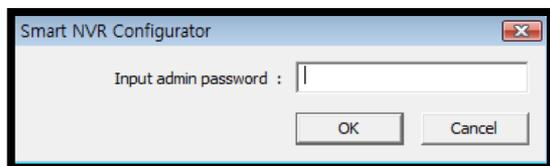
6. Install complete



**\* Entering Product Key is exempt for Lite version or Evaluation version**

# Smart NVR Quick Guide

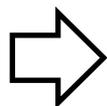
When connecting Smart NVR Configurator for the first time after installation, Quick guide from IP device registration to recording configuration and live view is guided.



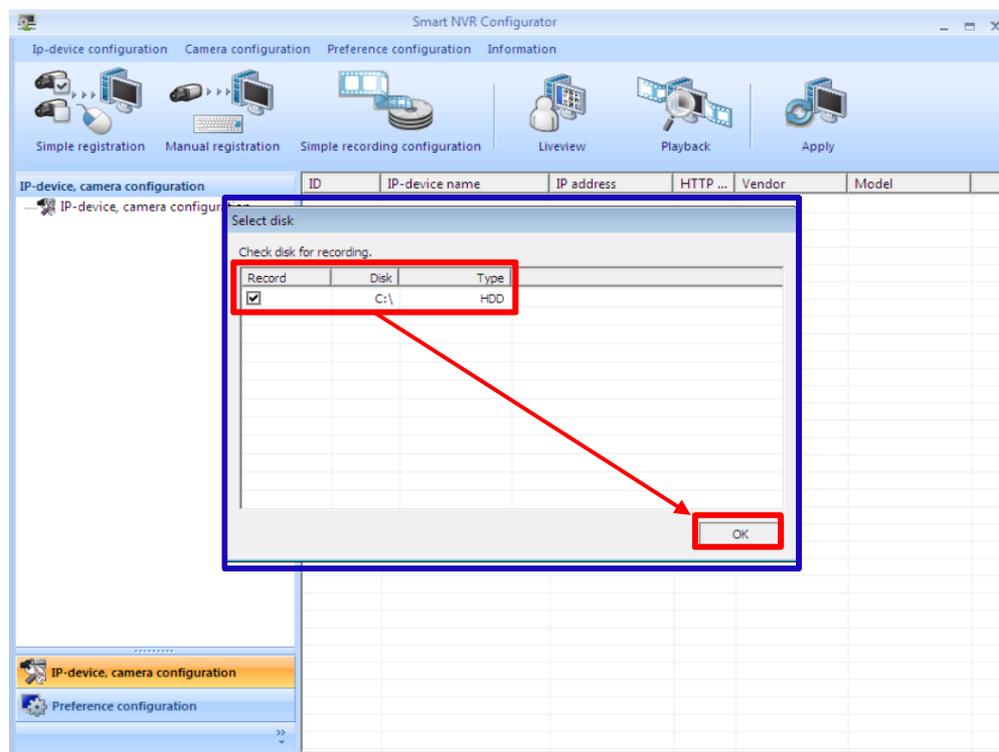
Smart NVR Configurator

Input admin password :

OK Cancel



**1. Enter administrator password**  
Default : root



Smart NVR Configurator

Ip-device configuration Camera configuration Preference configuration Information

Simple registration Manual registration Simple recording configuration Liveview Playback Apply

IP-device, camera configuration

ID	IP-device name	IP address	HTTP ...	Vendor	Model
...	IP-device, camera configur...				

Select disk

Check disk for recording.

Record	Disk	Type
<input checked="" type="checkbox"/>	C:\	HDD

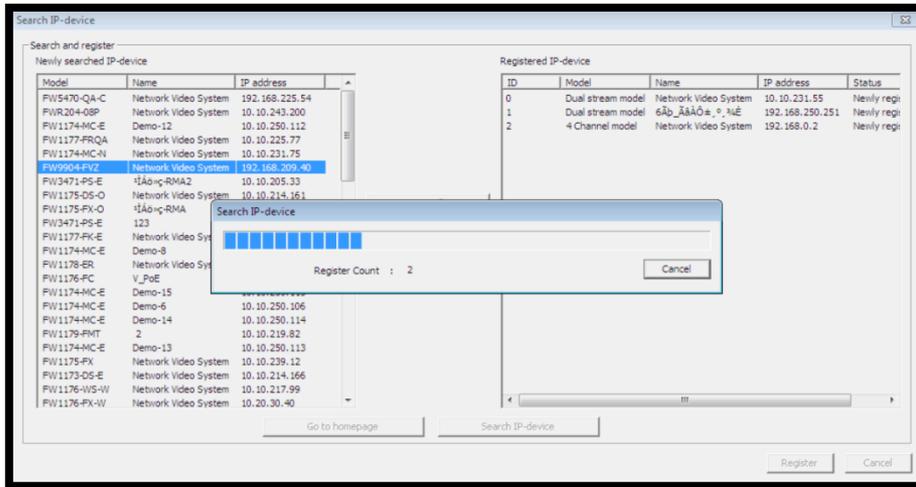
OK

**2. Select drive to store recorded files**

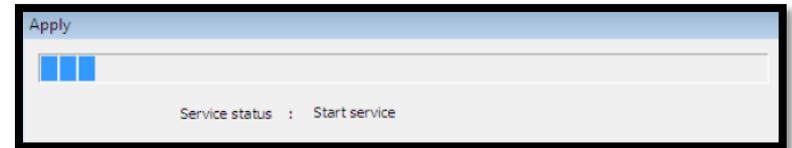
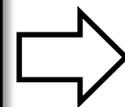
: check checkbox for multiple drives connected to PC directly or by network



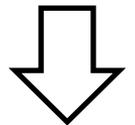
# Smart NVR Quick Guide



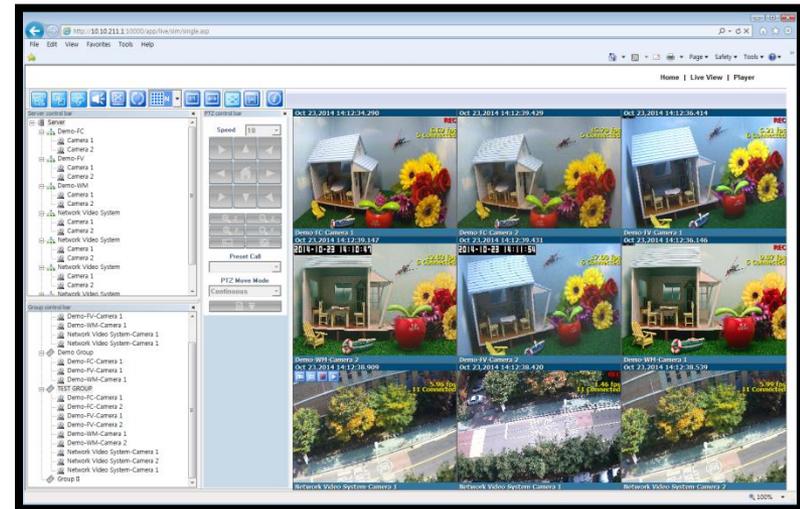
**5. Register**  
: Register IP-device selected  
\* **Default recording is set by motion-detection**



**6. Apply**  
: Apply changes made in Smart NVR Configurator



**7. Liveview**  
: View live images of registered IP-devices



# Smart NVR Composition

## Smart NVR Service

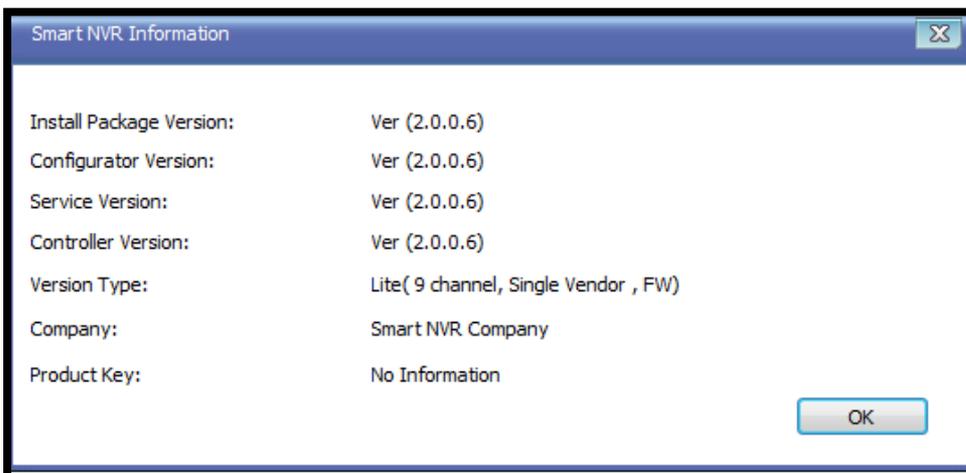
: It is form of Windows Service which requests, receives, records or re-transmits and manages live image and event from IP-devices.



Security Center	THE WSCSV...	Started	Automatic (U
Server	Supports fil...	Started	Automatic
Shell Hardware Detection	Provides no...	Started	Automatic
Smart Card	Manages ac...		Manual
Smart Card Removal Policy	Allows the s...		Manual
<b>Smart NVR Service</b>	<b>Network Vi...</b>	<b>Started</b>	<b>Automatic</b>
Smart NVR Service Watchdog	Smart NVR ...	Started	Automatic
SNMP Trap	Receives tra...		Manual
Software Protection	Enables the ...	Started	Automatic (0
SPP Notification Service	Provides So...		Manual

## Smart NVR Information

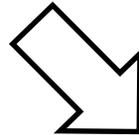
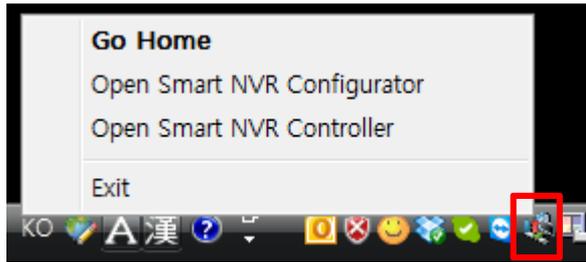
: It shows version, type, and product key of installed Smart NVR.



# Smart NVR Composition

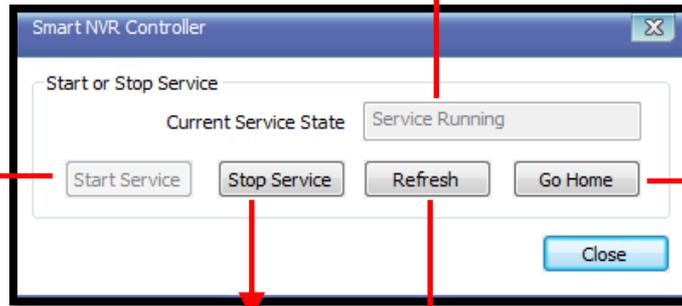
## Smart NVR Controller

- It controls and manages Smart NVR Service



**Current Service Status**  
: shows status of Smart NVR Service

**Start Service**  
: Start Smart NVR service



**Homepage**  
: View Smart NVR homepage via web browser

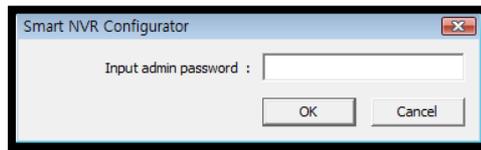
**Stop Service**  
: Stop Smart NVR service

**Refresh**  
: Refresh status

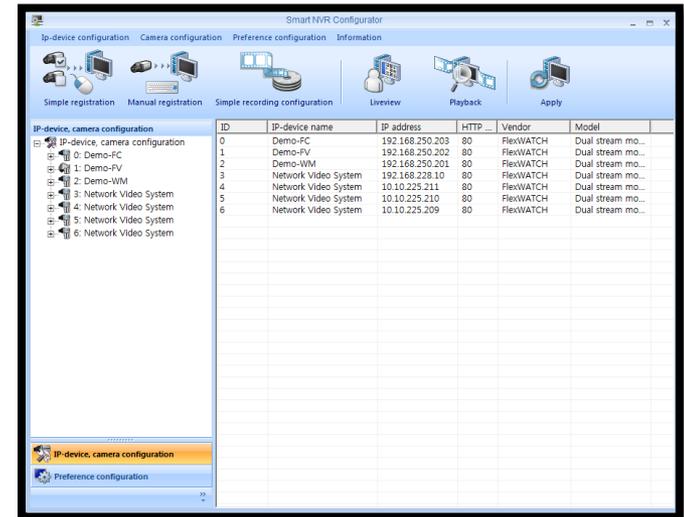
# Smart NVR Composition

## Smart NVR Configurator

- It is to configure Smart NVR Service



Smart NVR Configurator requires password  
\* Default : root



# Smart NVR Configurator

## IP-Device, Camera Configuration

The screenshot shows the 'Smart NVR Configurator' application window. The interface is divided into several sections:

- Menu Bar:** Located at the top, it contains tabs for 'Ip-device configuration', 'Camera configuration', 'Preference configuration', and 'Information'.
- Tool Bar:** Below the menu bar, it features icons for 'Simple registration', 'Manual registration', 'Simple recording configuration', 'Liveview', 'Playback', and 'Apply'.
- IP-device, camera tree:** A tree view on the left side of the main window, showing a hierarchy of configurations: 'IP-device, camera configuration' (expanded) with sub-items '0: Demo-FC', '1: Demo-FV', '2: Demo-WM', and '3: Network Video System' through '6: Network Video System'.
- Function Switch:** A vertical bar at the bottom left of the main window, with 'IP-device, camera configuration' selected and 'Preference configuration' visible below it.
- IP-device, camera list:** A table on the right side of the main window displaying a list of configured devices.

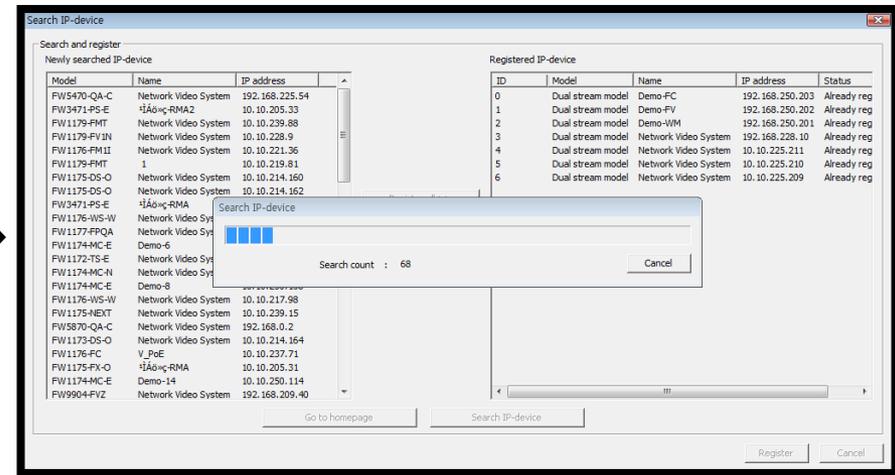
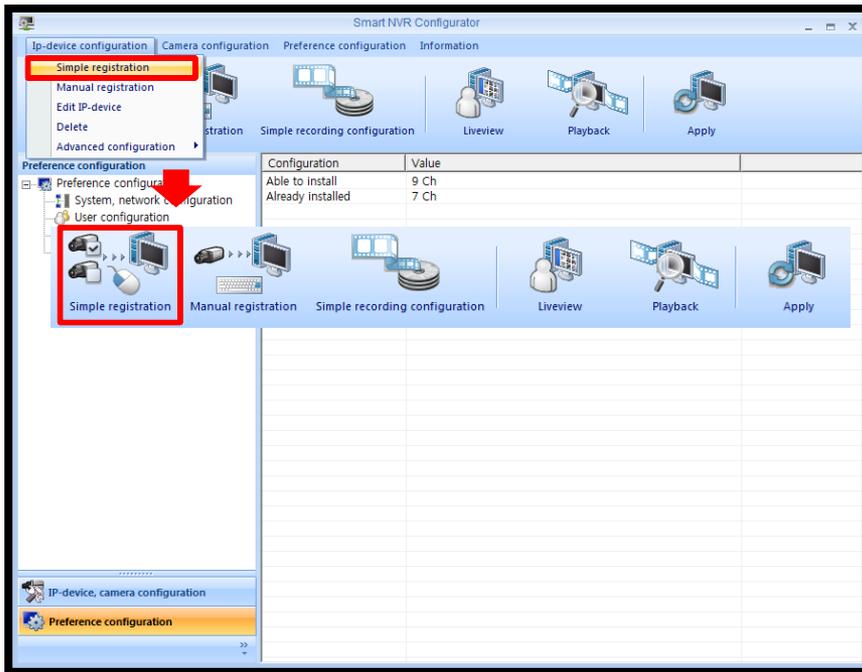
ID	IP-device name	IP address	HTTP ...	Vendor	Model
0	Demo-FC	192.168.250.203	80	FlexWATCH	Dual stream mo...
1	Demo-FV	192.168.250.202	80	FlexWATCH	Dual stream mo...
2	Demo-WM	192.168.250.201	80	FlexWATCH	Dual stream mo...
3	Network Video System	192.168.228.10	80	FlexWATCH	Dual stream mo...
4	Network Video System	10.10.225.211	80	FlexWATCH	Dual stream mo...
5	Network Video System	10.10.225.210	80	FlexWATCH	Dual stream mo...
6	Network Video System	10.10.225.209	80	FlexWATCH	Dual stream mo...



# IP-device Configuration

## Simple registration

: Quick register of FlexWATCH IP-devices, cameras within the local network



1. Click "Simple Registration" from IP-device configuration in Menu Bar or Tool Bar
2. After auto search complete, select all or some IP-devices
3. Click Register and Apply

# IP-device Configuration

**Search IP-devices that is not registered in Smart NVR**

**Already registered IP-devices**

Search IP-device

Search and register

Newly searched IP-device

Model	Name	IP address
FW1175-DS-O	Network Video System	10.10.214.160
FW1175-DS-O	Network Video System	10.10.214.162
FW1176-WS-W	Network Video System	10.10.217.99
FW1177-FPQA	Network Video System	192.168.100.7
FW1172-TS-E	Network Video System	10.10.239.55
FW1176-WS-W	Network Video System	10.10.217.98
FW1175-NEXT	Network Video System	10.10.239.15
FW5870-QA-C	Network Video System	192.168.0.2
FW1173-DS-O	Network Video System	10.10.214.164
FW9904-FVZ	Network Video System	192.168.209.40
FW1179-WM1P	Network Video System	192.168.2.211
FW1177-FK-E	Network Video System	10.10.101.44
FW1175-FX	Network Video System	10.10.239.12
FW1173MS-E	Network Video System	10.10.221.33
FW1179-FM1P	Network Video System	10.10.225.212
FWR204-08P	Network Video System	10.10.238.20
FW1178-PE-E	Network Video System	10.10.231.55
FW1175-DS-O	Network Video System	10.10.214.161
FW-5450-S	Network Video System	10.10.228.200
FW1175-MS-E	Network Video System	10.10.228.79
FW1174-MC-N	Network Video System	10.10.231.75
FW1175-DS-O	Network Video System	10.10.214.163
FW1178-ER	Network Video System	10.10.214.33

Registered IP-device

ID	Model	Name	IP address	Status
0	Dual stream model	Demo-FC	192.168.250.203	Already reg
1	Dual stream model	Demo-FV	192.168.250.202	Already reg
2	Dual stream model	Demo-WM	192.168.250.201	Already reg
3	Dual stream model	Network Video System	192.168.228.10	Already reg
4	Dual stream model	Network Video System	10.10.225.211	Already reg
5	Dual stream model	Network Video System	10.10.225.210	Already reg
6	Dual stream model	Network Video System	10.10.225.209	Already reg

Register all >>  
Register selected >  
< Cancel selected  
<< Cancel all

Go to homepage Search IP-device Register Cancel

**Register all**

: register all IP-device searched according to the channel limit of Smart NVR installed

**Register selected**

: register selected IP-device searched

**Cancel selected**

: \cancel register of selected IP-device

**Cancel all**

: \cancel register of all IP-device

**Go to homepage**

: open homepage of selected IP-device via web browser

\* Only for searched IP-device not registered

**Search IP-device**

: refresh list of IP-devices in the local network that is not registered

\* If IP Installer or Smart Multi Viewer Player is running, below message will pop-up.

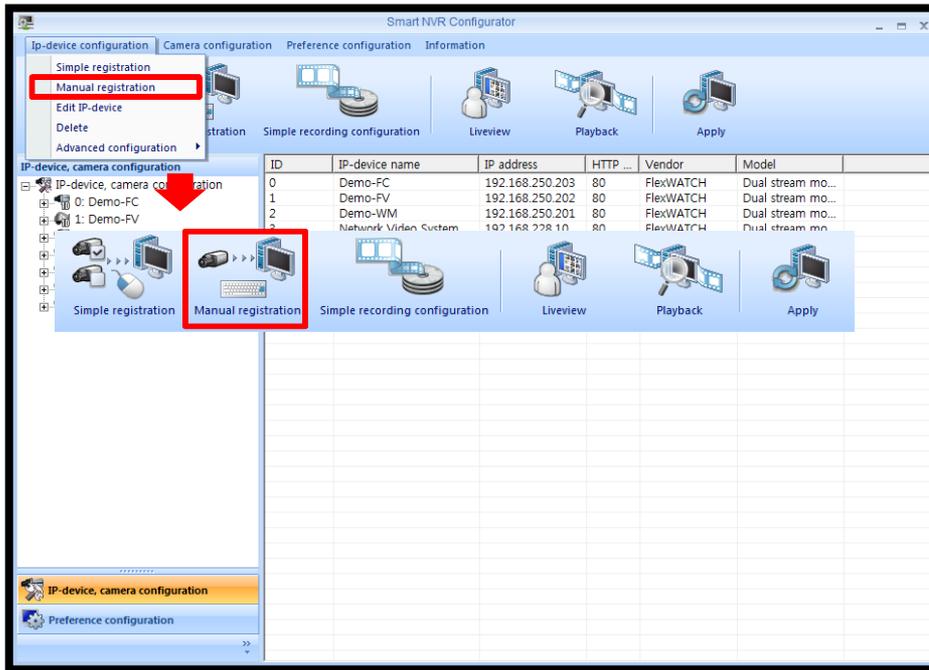
Smart NVR Configurator

Failed to search, check network or other program running.

# IP-device Configuration

## Manual Registration

: Register of FlexWATCH IP-devices, cameras within the local network manually or those out of the local network using external IP address.



Manual registration

Input IP-device info

ID: 7  
Vendor: [Dropdown]  
Model: [Dropdown]  
IP address: [Text]  
HTTP port: 80  
Login ID: [Text]  
Login password: [Text]  
Confirm password: [Text]  
VS module ID: 0 [Dropdown]  
Collect IP-device info: [Collect]  
Name: [Text]  
RTSP port: 554

Select the resolution supported by IP-device

<input type="checkbox"/>	QCIF (QQVGA)	176 x 144 ~ 160 x 112
<input type="checkbox"/>	CIF (QVGA)	352 x 288 ~ 320 x 240
<input type="checkbox"/>	Half D1 (Half VGA)	704 x 288 ~ 640 x 240
<input type="checkbox"/>	D1 (VGA)	704 x 576 ~ 640 x 480
<input type="checkbox"/>	SVGA	800 x 600 ~ 720 x 480
<input type="checkbox"/>	XGA	1024 x 768 ~ 960 x 720
<input type="checkbox"/>	HD720 (720P)	1280 x 720
<input type="checkbox"/>	SXGA	1280 x 1024
<input type="checkbox"/>	UXGA	1600 x 1200
<input type="checkbox"/>	1080P	1920 x 1080

Check PTZ camera  
 Camera1  Camera2  Camera3  Camera4

[Register] [Cancel]

1. Click "Manual Registration" from IP-device configuration in Menu Bar or Tool Bar
2. Enter info of IP-device, camera
3. Click Register and Apply

# IP-device Configuration

Manual registration

Input IP-device info

ID: 7

Vendor: FlexWATCH

Model: Dual stream model

IP address: 10.10.10.10

HTTP port: 80

Login ID: root

Login password: \*\*\*\*

Confirm password: \*\*\*\*

VS module ID: 0

Collect IP-device info: Collect

Name: Sample

RTSP port: 554

Select the resolution supported by IP-device

<input checked="" type="checkbox"/>	QCIF (QQVGA)	176 x 144 ~ 160 x 112
<input checked="" type="checkbox"/>	CIF (QVGA)	352 x 288 ~ 320 x 240
<input checked="" type="checkbox"/>	Half D1 (Half VGA)	704 x 288 ~ 640 x 240
<input checked="" type="checkbox"/>	D1 (VGA)	704 x 576 ~ 640 x 480
<input checked="" type="checkbox"/>	SVGA	800 x 600 ~ 720 x 480
<input checked="" type="checkbox"/>	XGA	1024 x 768 ~ 960 x 720
<input checked="" type="checkbox"/>	HD720 (720P)	1280 x 720
<input checked="" type="checkbox"/>	SXGA	1280 x 1024
<input checked="" type="checkbox"/>	UXGA	1600 x 1200
<input checked="" type="checkbox"/>	1080P	1920 x 1080

Check PTZ camera

Camera1  Camera2  Camera3  Camera4

Register Cancel

**ID** : ID number used within Smart NVR internally  
**Vendor** : Vendor of IP-device, camera (FlexWATCH)  
**Model**: 1ch / Dual stream / 4ch model accordingly  
**IP address** : IP address of IP-device, camera  
**HTTP port** : Port of IP-device, camera  
**Login ID** : ID of IP-device, camera  
**Login password** : Password of IP-device, camera  
**Confirm password** : Re-confirm above password  
**VS Module ID** : Internal ID number of IP-device, camera  
**Collect IP-device info** : Collect below info from IP-device, camera  
\* **Name, resolution supported, PTZ info**  
\* **Unavailable for Multi-Vendor devices**  
**Name** : Name of IP-device, camera used in Smart NVR  
**RTSP port** : RTSP port of IP-device, camera

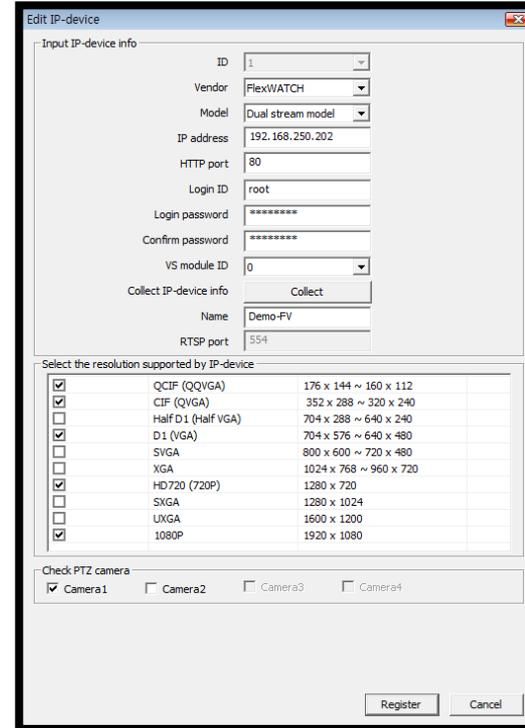
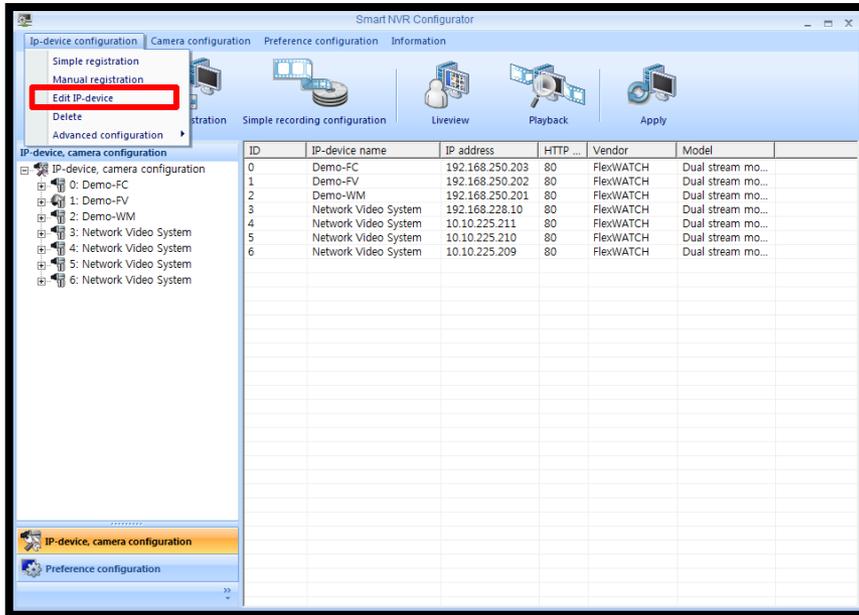
Resolution supported by IP-device  
\* **Even if it is unchecked or wrong, it does not effect any performance or functions of Smart NVR**

Check PTZ Camera  
\* **PTZ control bar in Live view is enabled only when this is checked**

# IP-device Configuration

## Edit IP-device

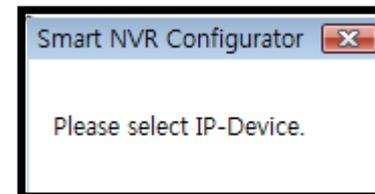
: Edit info of IP-devices, camera



1. Select IP-device to edit in the list
2. Click "Edit IP-device" from IP-device configuration in Menu Bar

**\*if device is not selected, error message will pop-up.**

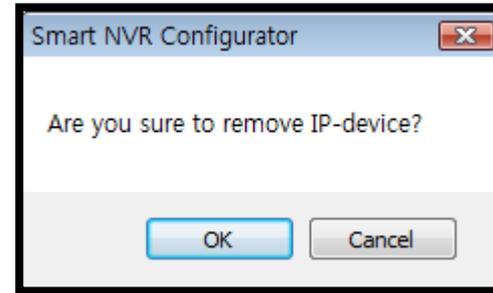
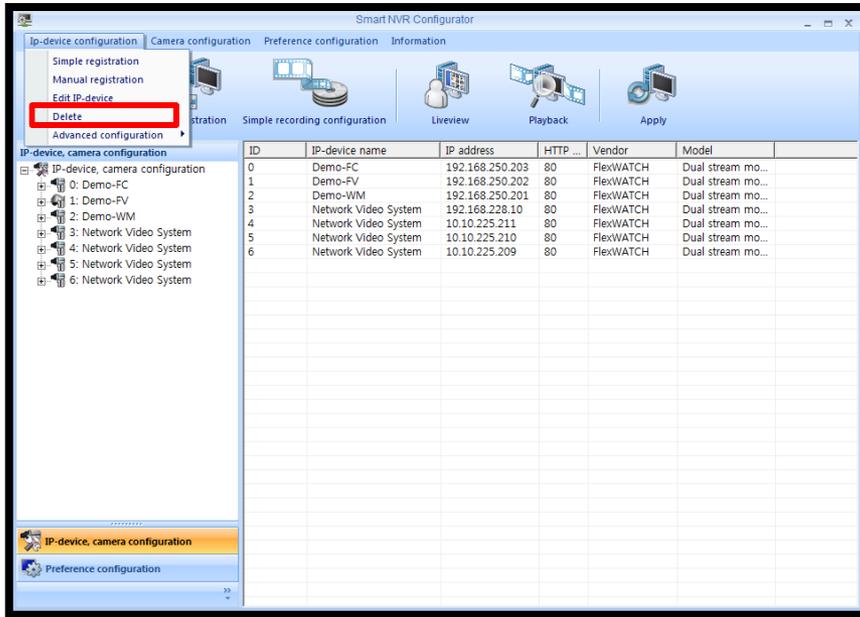
1. Edit info
2. Click Register and Apply



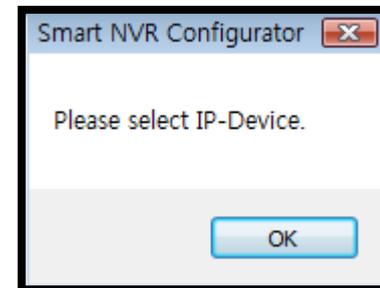
# IP-device Configuration

## Delete

: Delete IP-devices, camera registered



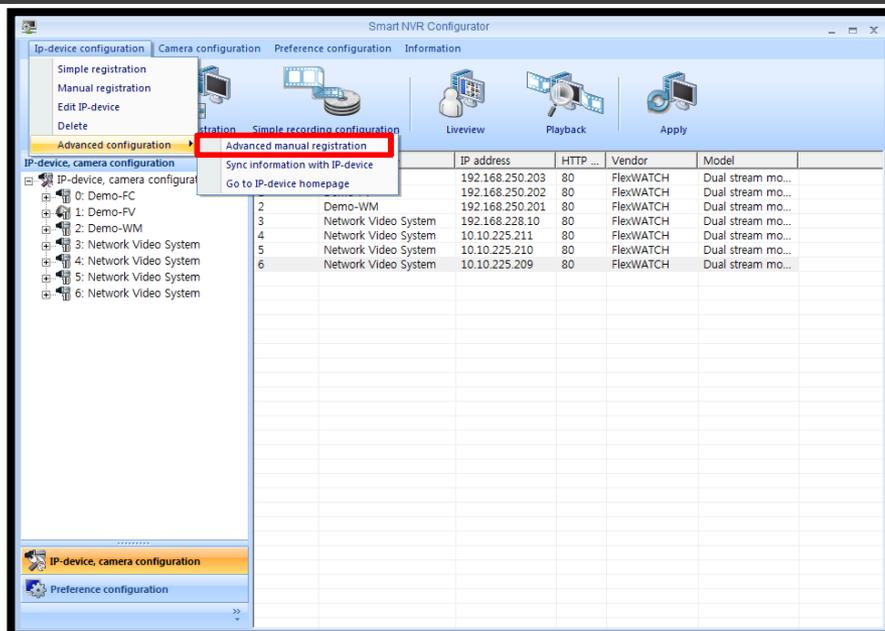
1. Select IP-device to edit in the list
  2. Click "Delete" from IP-device configuration in Menu Bar
  3. Click OK and Apply
- \*if device is not selected, error message will pop-up.**



# IP-device Configuration

## Advanced Configuration: Advanced manual registration

: Register of FlexWATCH IP-devices, cameras within the local network manually using range of IP address or Module ID of IP-devices, cameras



Advanced manual registration

Input IP-device info

ID: 7  
Vendor: [Dropdown]  
Model: [Dropdown]  
IP address: [Text]  
HTTP port: 80  
Login ID: [Text]  
Login password: [Text]  
Confirm password: [Text]  
VS module ID: 0  
Name: [Text]  
RTSP port: 554

Select the resolution supported by IP-device

<input type="checkbox"/>	QCIF (QQVGA)	176 x 144 ~ 160 x 112
<input type="checkbox"/>	CIF (QVGA)	352 x 288 ~ 320 x 240
<input type="checkbox"/>	Half D1 (Half VGA)	704 x 288 ~ 640 x 240
<input type="checkbox"/>	D1 (VGA)	704 x 576 ~ 640 x 480
<input type="checkbox"/>	SVGA	800 x 600 ~ 720 x 480
<input type="checkbox"/>	XGA	1024 x 768 ~ 960 x 720
<input type="checkbox"/>	HD720 (720P)	1280 x 720
<input type="checkbox"/>	SXGA	1280 x 1024
<input type="checkbox"/>	UXGA	1600 x 1200
<input type="checkbox"/>	1080P	1920 x 1080

Check PTZ camera  
 Camera1  Camera2  Camera3  Camera4

Range registration

No range:   
IP address range:  [Text] ~ [Text]  
Input VS module ID range:  [Dropdown] ~ [Dropdown]

Register Cancel

1. Click "Advanced Manual Registration" from Advanced configuration of IP-device configuration in Menu Bar
2. Enter info of IP-device, camera including range of IP address or Module ID or both of IP-devices, cameras
3. Click Register and Apply

# IP-device Configuration

## Using IP address range

Name

IF IP-device name is entered, it will automatically add number at the back of the name from 0 to above

Range registration

No range

IP address range  10.10.250.201 ~ 10.10.250.210

Input VS module ID range

## Using VS Module ID range

Name

IF IP-device name is entered, it will automatically add number at the back of the name from 0 to above

Range registration

No range

IP address range

Input VS module ID range  0 ~ 9



Smart NVR Configurator

Ip-device configuration Camera configuration Preference configuration Information

Simple registration Manual registration Simple recording configuration Liveview Playback Apply

IP-device, camera configuration

ID	IP-device name	IP address	HTTP ...	Vendor	Model
0	Name-0	10.10.250.201	80	FlexWATCH	Dual stream mo...
1	Name-1	10.10.250.202	80	FlexWATCH	Dual stream mo...
2	Name-2	10.10.250.203	80	FlexWATCH	Dual stream mo...
3	Name-3	10.10.250.204	80	FlexWATCH	Dual stream mo...
4	Name-4	10.10.250.205	80	FlexWATCH	Dual stream mo...
5	Name-5	10.10.250.206	80	FlexWATCH	Dual stream mo...
6	Name-6	10.10.250.207	80	FlexWATCH	Dual stream mo...
7	Name-7	10.10.250.208	80	FlexWATCH	Dual stream mo...
8	Name-8	10.10.250.209	80	FlexWATCH	Dual stream mo...

IP-device, camera configuration

Preference configuration

Smart NVR Configurator

Ip-device configuration Camera configuration Preference configuration Information

Simple registration Manual registration Simple recording configuration Liveview Playback Apply

IP-device, camera configuration

ID	IP-device name	IP address	HTTP ...	Vendor	Model
0	VS Module ID-0	10.10.250.110	80	FlexWATCH	Dual stream mo...
1	VS Module ID-1	10.10.250.110	80	FlexWATCH	Dual stream mo...
2	VS Module ID-2	10.10.250.110	80	FlexWATCH	Dual stream mo...
3	VS Module ID-3	10.10.250.110	80	FlexWATCH	Dual stream mo...
4	VS Module ID-4	10.10.250.110	80	FlexWATCH	Dual stream mo...
5	VS Module ID-5	10.10.250.110	80	FlexWATCH	Dual stream mo...
6	VS Module ID-6	10.10.250.110	80	FlexWATCH	Dual stream mo...
7	VS Module ID-7	10.10.250.110	80	FlexWATCH	Dual stream mo...
8	VS Module ID-8	10.10.250.110	80	FlexWATCH	Dual stream mo...

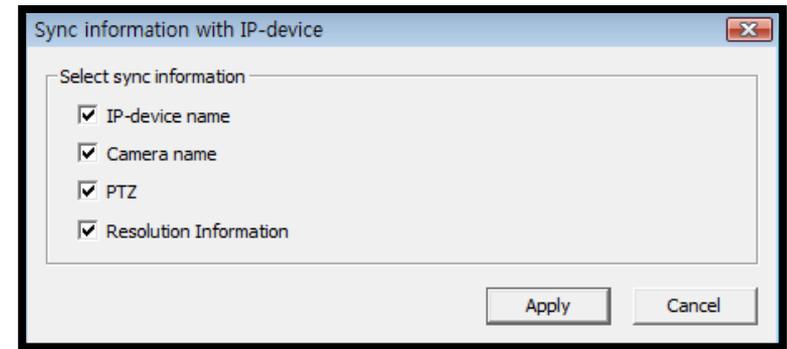
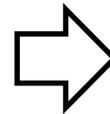
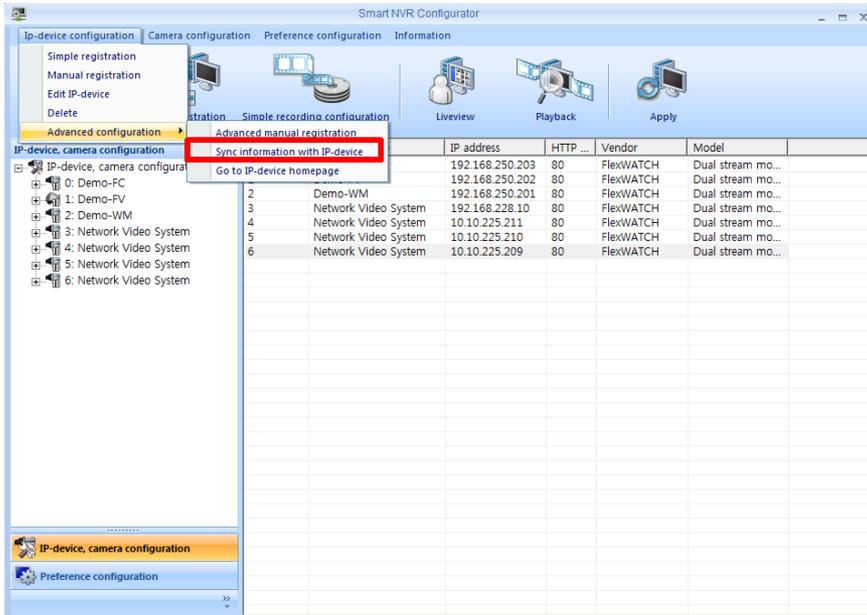
IP-device, camera configuration

Preference configuration

# IP-device Configuration

## Sync information with IP-device

: Sync changed info of IP-device, camera (if there is changes made in the device)



1. Select IP-device to edit in the list
2. Click "Sync information with IP-device" from Advanced configuration of IP-device configuration in Menu Bar
3. Select info to sync
4. Click Register and Apply

### IP-device name

: Sync name of IP-device

### Camera name

: Sync name of camera

### PTZ

: Sync PTZ of IP-device, camera

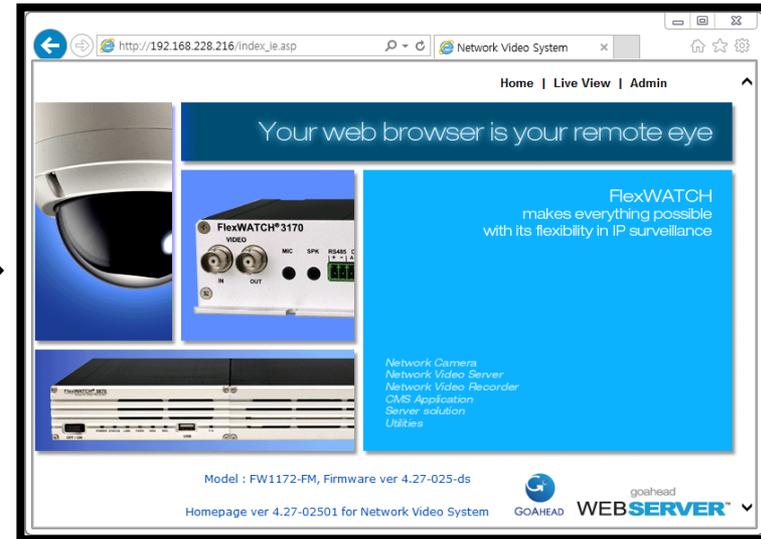
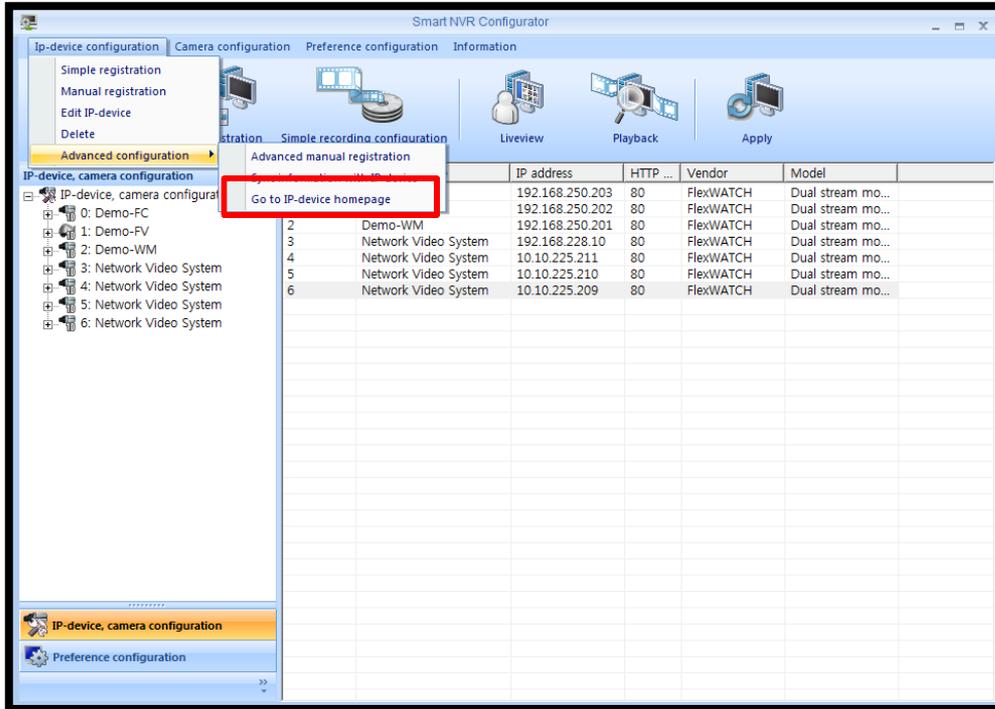
### Resolution information

: Sync supported resolution of IP-device

# IP-device Configuration

## Go to IP-device homepage

: Open homepage of IP-device via web browser

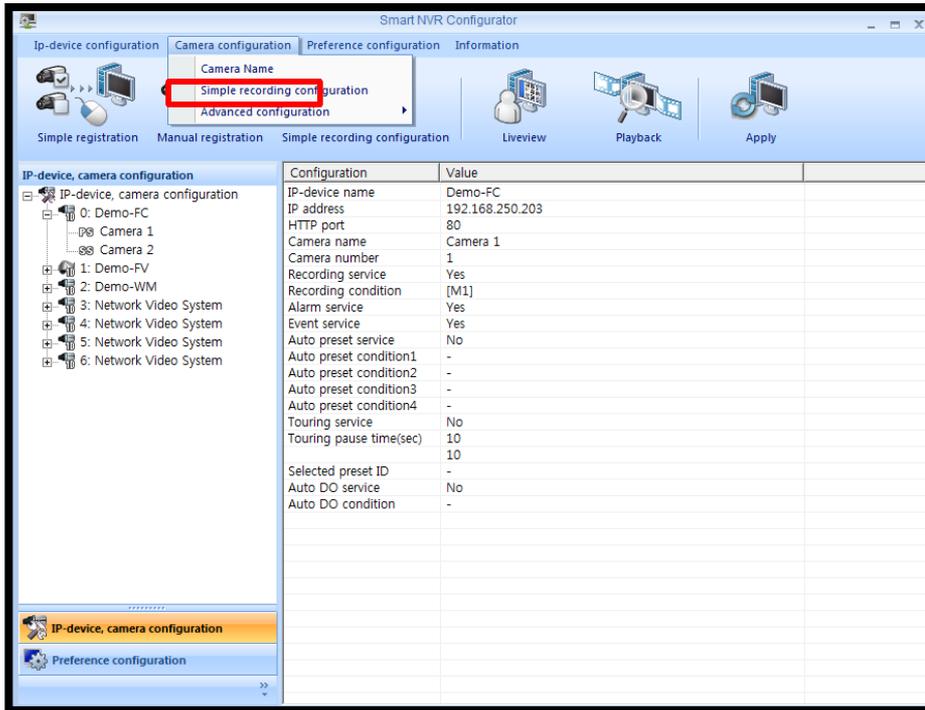


1. Select IP-device to open homepage in the list
2. Click "Go to IP-device homepage" from Advanced configuration of IP-device configuration in Menu Bar

# Camera Configuration

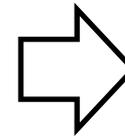
## Camera Name

: Edit camera name of IP-device (only in Smart NVR)



The screenshot shows the 'Smart NVR Configurator' interface. The 'Camera configuration' tab is active, and the 'Camera Name' option is highlighted in the menu bar. Below the menu, there are icons for 'Simple registration', 'Manual registration', 'Simple recording configuration', 'Liveview', 'Playback', and 'Apply'. The main area displays a tree view of IP-devices and a table of configuration parameters for 'Camera 1'.

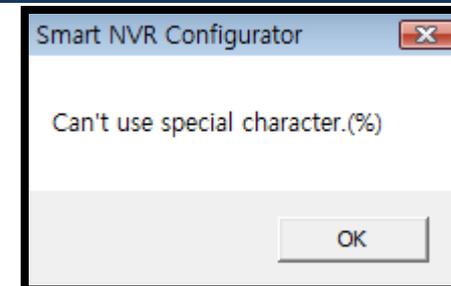
Configuration	Value
IP-device name	Demo-FC
IP address	192.168.250.203
HTTP port	80
Camera name	Camera 1
Camera number	1
Recording service	Yes
Recording condition	[M1]
Alarm service	Yes
Event service	Yes
Auto preset service	No
Auto preset condition1	-
Auto preset condition2	-
Auto preset condition3	-
Auto preset condition4	-
Touring service	No
Touring pause time(sec)	10
Selected preset ID	-
Auto DO service	No
Auto DO condition	-



The 'Camera Name' dialog box shows a preview of a camera feed with a house and flowers. The title bar reads 'Camera Name' and the status bar reads 'Camera 1(Connection established)'. Below the preview, the 'Name' field contains 'Camera 1'. A note below the field states '(Maximum 10 characters)'. There are 'OK' and 'Cancel' buttons at the bottom.

**Maximum 21 alphabet, number and special characters**  
**%, □ cannot be used**

1. Select camera to edit in the list
2. Click "Camera name" from Camera configuration in Menu Bar
3. Edit name
4. Click OK and Apply

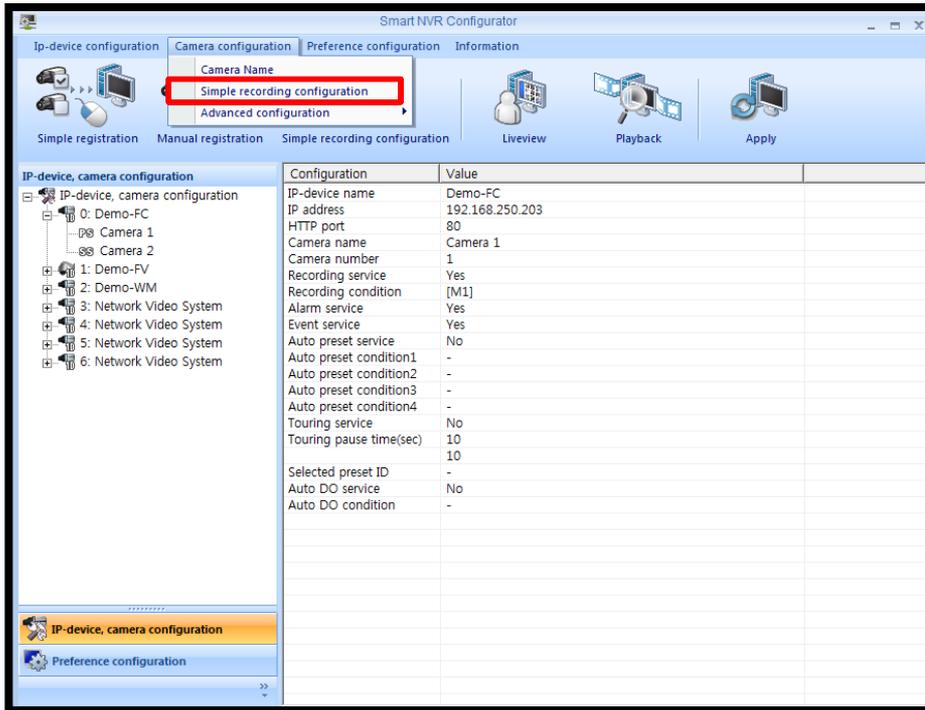


The error dialog box is titled 'Smart NVR Configurator' and contains the message 'Can't use special character.(%)'. There is an 'OK' button at the bottom.

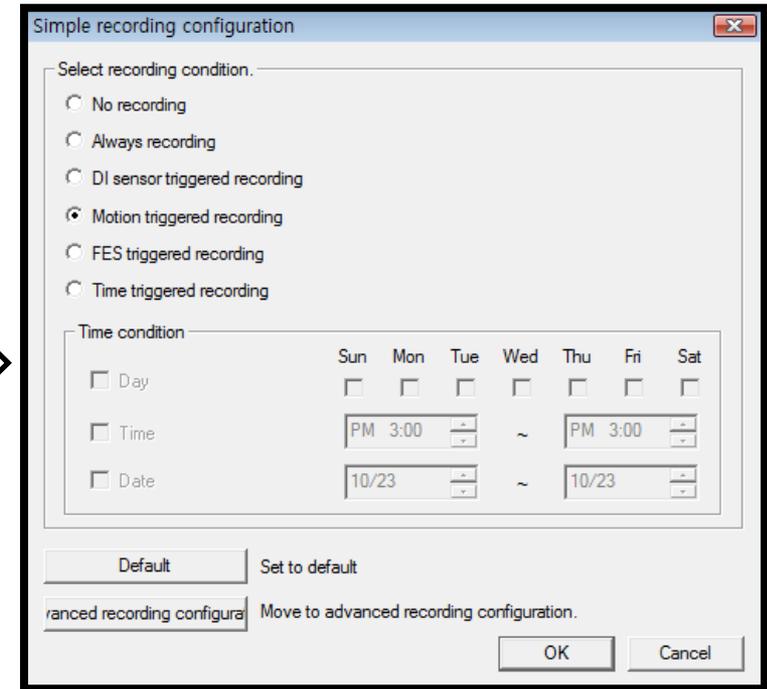
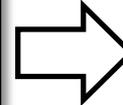
# Camera Configuration

## Simple recording configuration

: Simple configuration of recording for each camera



Configuration	Value
IP-device name	Demo-FC
IP address	192.168.250.203
HTTP port	80
Camera name	Camera 1
Camera number	1
Recording service	Yes
Recording condition	[M1]
Alarm service	Yes
Event service	Yes
Auto preset service	No
Auto preset condition1	-
Auto preset condition2	-
Auto preset condition3	-
Auto preset condition4	-
Touring service	No
Touring pause time(sec)	10
Selected preset ID	-
Auto DO service	No
Auto DO condition	-



Select recording condition.

No recording

Always recording

DI sensor triggered recording

Motion triggered recording

FES triggered recording

Time triggered recording

Time condition

<input type="checkbox"/> Day	Sun	Mon	Tue	Wed	Thu	Fri	Sat
<input type="checkbox"/> Time							
<input type="checkbox"/> Date							

Default Set to default

Advanced recording configuration Move to advanced recording configuration.

OK Cancel

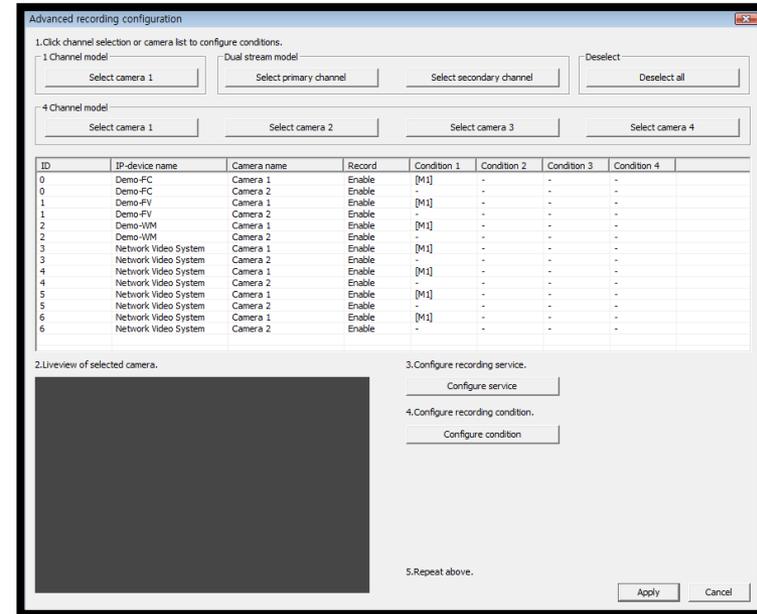
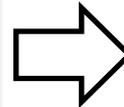
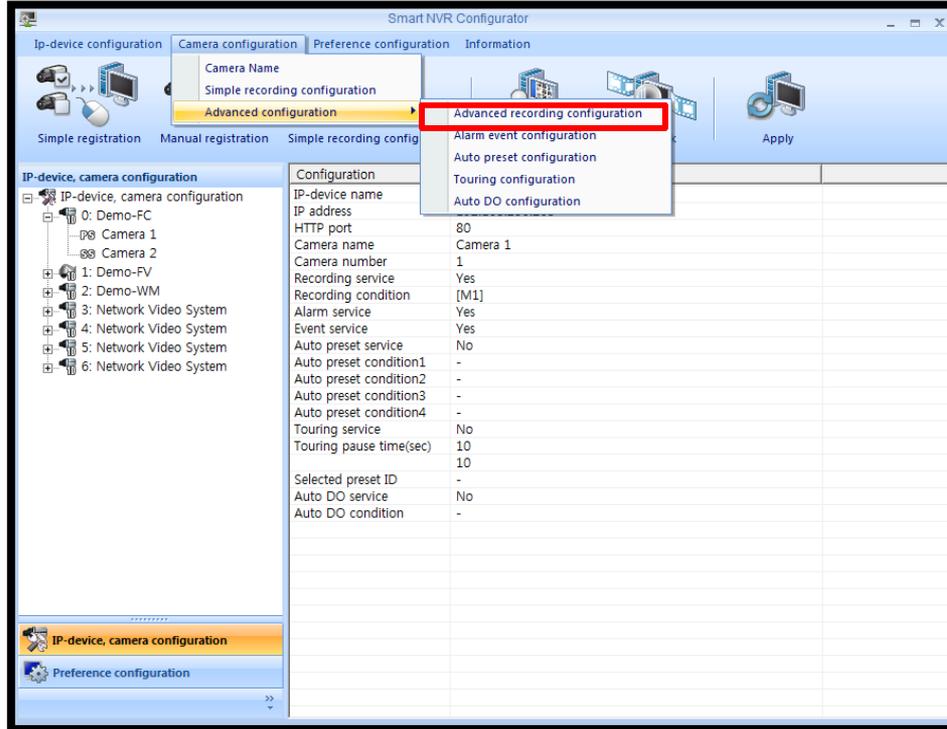
1. Select camera to configure in the list
2. Click "Simple recording configuration" from Camera configuration in Menu Bar or Tool Bar
3. Configure
4. Click OK and Apply

Default: : Motion triggered recording  
Advanced recording configuration : Move to advanced recording configuration

# Camera Configuration

## Advanced recording configuration

: Configure recording of all IP-device in details



1. Click "Advanced recording configuration" from Advanced configuration of Camera configuration in Menu Bar
2. Configure recording service and condition
3. Click Apply and Apply

# Camera Configuration

Common menu for all Advanced configuration of Camera configuration  
(From Advanced camera configuration to Advanced DO configuration)

Advanced recording configuration

1. Click channel selection or camera list to configure conditions.

1 Channel model

Dual stream model

Deselect

Select camera 1

Select primary channel

Select secondary channel

Deselect all

4 Channel model

Select camera 1

Select camera 2

Select camera 3

Select camera 4

ID	IP-device name	Camera name	Record	Condition 1	Condition 2	Condition 3	Condition 4
0	Demo-FC	Camera 1	Enable	[M1]	-	-	-
0	Demo-FC	Camera 2	Enable	-	-	-	-
1	Demo-FV	Camera 1	Enable	[M1]	-	-	-
1	Demo-FV	Camera 2	Enable	-	-	-	-
2	Demo-WM	Camera 1	Enable	[M1]	-	-	-
2	Demo-WM	Camera 2	Enable	-	-	-	-
3	Network Video System	Camera 1	Enable	[M1]	-	-	-
3	Network Video System	Camera 2	Enable	-	-	-	-
4	Network Video System	Camera 1	Enable	[M1]	-	-	-
4	Network Video System	Camera 2	Enable	-	-	-	-
5	Network Video System	Camera 1	Enable	[M1]	-	-	-
5	Network Video System	Camera 2	Enable	-	-	-	-
6	Network Video System	Camera 1	Enable	[M1]	-	-	-
6	Network Video System	Camera 2	Enable	-	-	-	-

2. Liveview of selected camera.

Camera 1(Connection established)

3. Configure recording service.

Configure service

4. Configure recording condition.

Configure condition

5. Repeat above.

Apply

Cancel

## 1 channel model

### Select camera 1

: Select all IP-device registered as 1ch model

### Dual stream model

### Select primary channel

: Select all primary ch of IP-device registered as dual stream model

### Select secondary channel

: Select all secondary ch of IP-device registered as dual stream model

### 4 channel model

### Select camera 1

: Select all camera 1 of IP-device registered as 4ch model

### Select camera 2

: Select all camera 2 of IP-device registered as 4ch model

### Select camera 3

: Select all camera 3 of IP-device registered as 4ch model

### Select camera 4

: Select all camera 5 of IP-device registered as 4ch model

### Deselect all

: Deselect all camera selected

Shows live view of camera selected

# Camera Configuration

Advanced recording configuration

1. Click channel selection or camera list to configure conditions.

1 Channel model: Select camera 1, Dual stream model: Select primary channel, Select secondary channel, Deselect: Deselect all

4 Channel model: Select camera 1, Select camera 2, Select camera 3, Select camera 4

ID	IP-device name	Camera name	Record	Condition 1	Condition 2	Condition 3	Condition 4
0	Demo-FC	Camera 1	Enable	[M1]	-	-	-
1	Demo-FV	Camera 2	Enable	-	-	-	-
1	Demo-FV	Camera 1	Enable	[M1]	-	-	-
2	Demo-WM	Camera 1	Enable	[M1]	-	-	-
2	Demo-WM	Camera 2	Enable	-	-	-	-
3	Network Video System	Camera 1	Enable	[M1]	-	-	-
3	Network Video System	Camera 2	Enable	-	-	-	-
4	Network Video System	Camera 1	Enable	[M1]	-	-	-
4	Network Video System	Camera 2	Enable	-	-	-	-
5	Network Video System	Camera 1	Enable	[M1]	-	-	-
5	Network Video System	Camera 2	Enable	-	-	-	-
6	Network Video System	Camera 1	Enable	[M1]	-	-	-
6	Network Video System	Camera 2	Enable	-	-	-	-

2. Liveview of selected camera.

Camera 1 (Connection established)



3. Configure recording service.

4. Configure recording condition.

5. Repeat above.

Apply Cancel

Advanced recording configuration

1. Select condition to configure.

Condition number	Condition name
1	[M1]
2	-
3	-
4	-

2. Configure recording condition.

Input condition:  Use condition  Don't use condition

Condition mode:  Always recording  Schedule triggered recording  Event triggered recording  Event and schedule triggered recording

Schedule:  Day  Time AM 9:00 ~ AM 9:00  Date 01/01 ~ 01/01

Event: Alarm sensor, Motion detection, FES

3. Click "Apply" to apply configured condition.

4. Repeat above.

Apply OK Cancel

## Select condition to configure

Maximum 4 conditions can be configured, starts recording when any of 4 conditions match **"OR" condition**

## Input condition

: Select to use or don't use condition

## Condition Mode

: To select mode from always recording, scheduled recording, event triggered recording and event & schedule triggered recording

Multiple conditions can be set within 1 condition **"AND" condition**

Recording service

Enable recording service  
Record according to recording conditions.

Disable recording service  
Don't record regardless of recording conditions.

Apply Cancel

## Apply

: Apply condition configured to the condition list

\* When OK is clicked without apply, below message will pop-up

Smart NVR Configurator

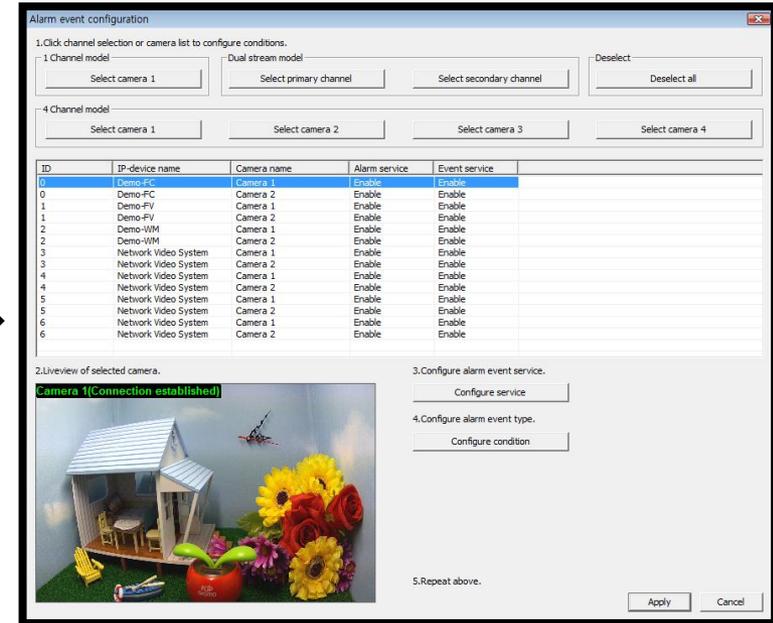
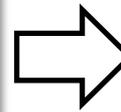
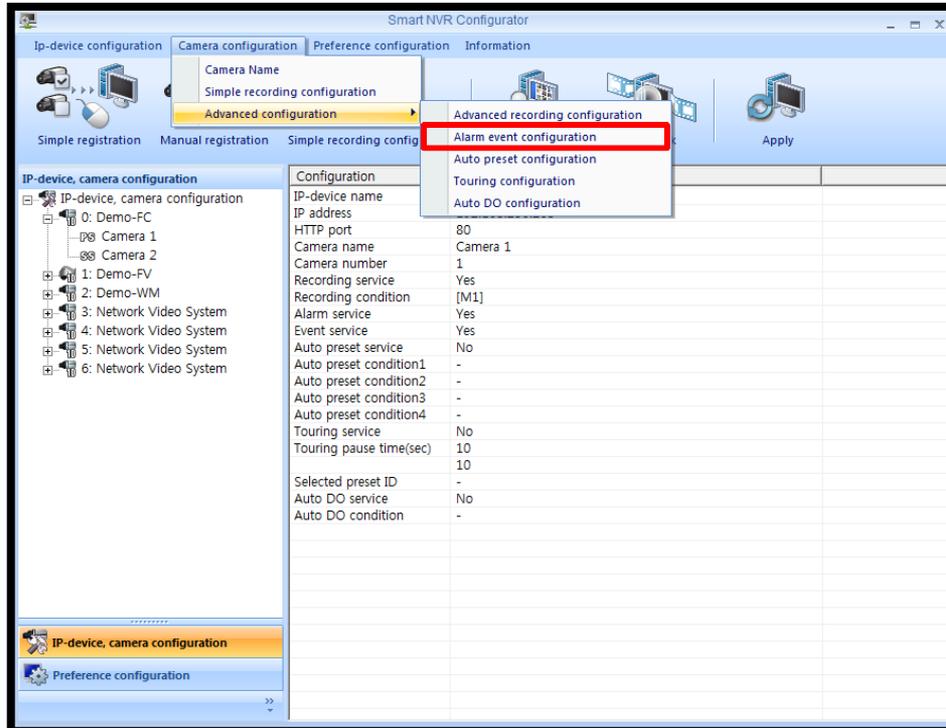
Are you sure to finish without configuring conditions?

OK Cancel

# Camera Configuration

## Alarm event configuration

: Configure alarm event service of IP-device



1. Click "Alarm event configuration" from Advanced configuration of Camera configuration in Menu Bar
2. Configure recording service and condition
3. Click Apply and Apply

# Camera Configuration

Alarm event configuration

1. Click channel selection or camera list to configure conditions.

1 Channel model

Dual stream model

4 Channel model

ID	IP-device name	Camera name	Alarm service	Event service
0	Demo-FC	Camera 1	Enable	Enable
0	Demo-FC	Camera 2	Enable	Enable
1	Demo-FV	Camera 1	Enable	Enable
1	Demo-FV	Camera 2	Enable	Enable
2	Demo-WM	Camera 1	Enable	Enable
2	Demo-WM	Camera 2	Enable	Enable
3	Network Video System	Camera 1	Enable	Enable
3	Network Video System	Camera 2	Enable	Enable
4	Network Video System	Camera 1	Enable	Enable
4	Network Video System	Camera 2	Enable	Enable
5	Network Video System	Camera 1	Enable	Enable
5	Network Video System	Camera 2	Enable	Enable
6	Network Video System	Camera 1	Enable	Enable
6	Network Video System	Camera 2	Enable	Enable

2. Liveview of selected camera.

Camera 1 (Connection established)



3. Configure alarm event service.

Configure service

4. Configure alarm event type.

Configure condition

5. Repeat above.

Apply Cancel

Alarm event configuration

Alarm service

Enable alarm service  
Alarm according to external alarm input.

Disable alarm service  
No alarm regardless of external alarm input.

Event service

Enable event service  
Output according to internal event.

Disable event service  
No output regardless of internal event.

Apply Cancel

Configure alarm event type

Select alarm type

Start recording

Enable DO

Disable DO

Run auto preset

Pop-up window

Start touring

Stop touring

Select event type

Start recording

Stop recording

Motion start

Motion stop

DI start

DI stop

Video normal

Video error

Network connected

Network disabled

Start touring

Stop touring

Enable DO

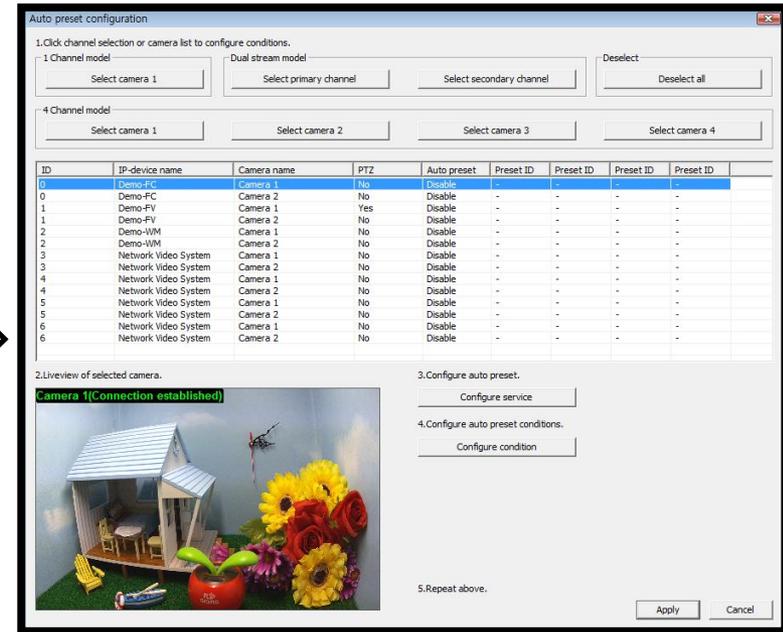
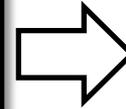
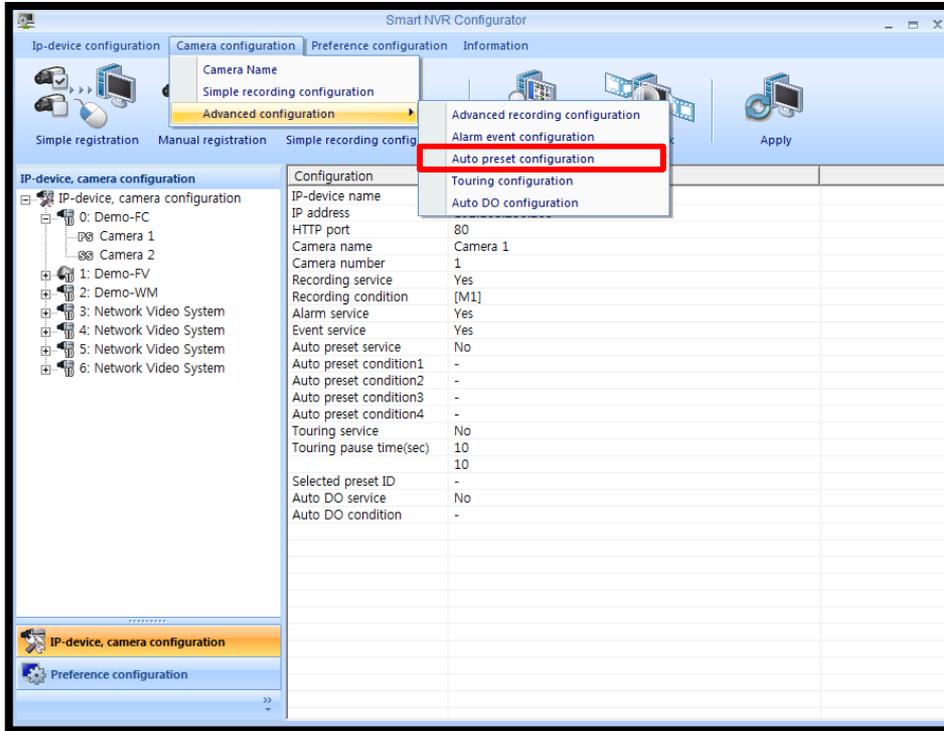
Disable DO

Apply Cancel

**Uncheck  
alarm/event that  
does not wanted  
to be received**

# Camera Configuration

## Auto preset configuration : Configure auto preset on event



1. Click "Auto preset configuration" from Advanced configuration of Camera configuration in Menu Bar
2. Configure recording service and condition
3. Click Apply and Apply

# Camera Configuration

Auto preset configuration

1. Click channel selection or camera list to configure conditions.

1 Channel model

Select camera 1      Dual stream model      Deselect

Select primary channel      Select secondary channel      Deselect all

4 Channel model

Select camera 1      Select camera 2      Select camera 3      Select camera 4

ID	IP-device name	Camera name	PTZ	Auto preset	Preset ID	Preset ID	Preset ID	Preset ID
0	Demo-FC	Camera 1	No	Disable	-	-	-	-
0	Demo-FC	Camera 2	No	Disable	-	-	-	-
1	Demo-FV	Camera 1	Yes	Disable	-	-	-	-
1	Demo-FV	Camera 2	No	Disable	-	-	-	-
2	Demo-WM	Camera 1	No	Disable	-	-	-	-
2	Demo-WM	Camera 2	No	Disable	-	-	-	-
3	Network Video System	Camera 1	No	Disable	-	-	-	-
3	Network Video System	Camera 2	No	Disable	-	-	-	-
4	Network Video System	Camera 1	No	Disable	-	-	-	-
4	Network Video System	Camera 2	No	Disable	-	-	-	-
5	Network Video System	Camera 1	No	Disable	-	-	-	-
5	Network Video System	Camera 2	No	Disable	-	-	-	-
6	Network Video System	Camera 1	No	Disable	-	-	-	-
6	Network Video System	Camera 2	No	Disable	-	-	-	-

2. Liveview of selected camera.

Camera 1 (Connection established)

3. Configure auto preset.

Configure service

4. Configure auto preset conditions.

Configure condition

5. Repeat above.

Apply      Cancel

Auto preset configuration

1. Select condition to configure.

Auto preset number	Selected preset ID	Condition name
1	-	-
2	-	-
3	-	-
4	-	-

2. Select preset to run.

(Liveview of selected camera in pop-up.)

3. Configure auto preset conditions.

Input condition

Use condition       Don't use condition

Condition mode

Always auto preset

Schedule triggered auto preset

Event triggered auto preset

Schedule and event triggered auto preset

Schedule

Day

Time      AM 9:00 ~ AM 9:00

Date      01/01 ~ 01/01

Event

	1	2	3	4
Alarm sensor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motion detection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. Click "Apply" to apply configured condition.

Apply

5. Repeat above.

OK      Cancel

## Select condition to configure

Maximum 4 conditions can be configured, auto presets when any of 4 conditions match

## "OR" condition

## Input condition

: Select to use or don't use condition

## Condition Mode

: To select mode from event triggered auto preset and event & schedule triggered auto preset

Multiple conditions can be set within 1 condition

## "AND" condition

\* When always auto preset or scheduled auto preset is selected, below message will pop-up

Auto preset service

Enable auto preset

Run auto preset according to conditions.

Disable auto preset

Don't run auto preset regardless of conditions.

Apply      Cancel

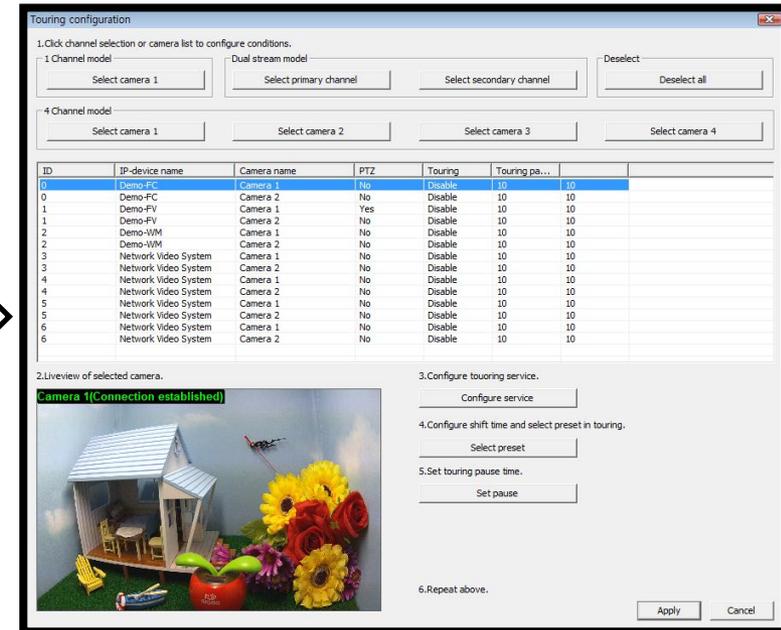
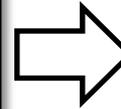
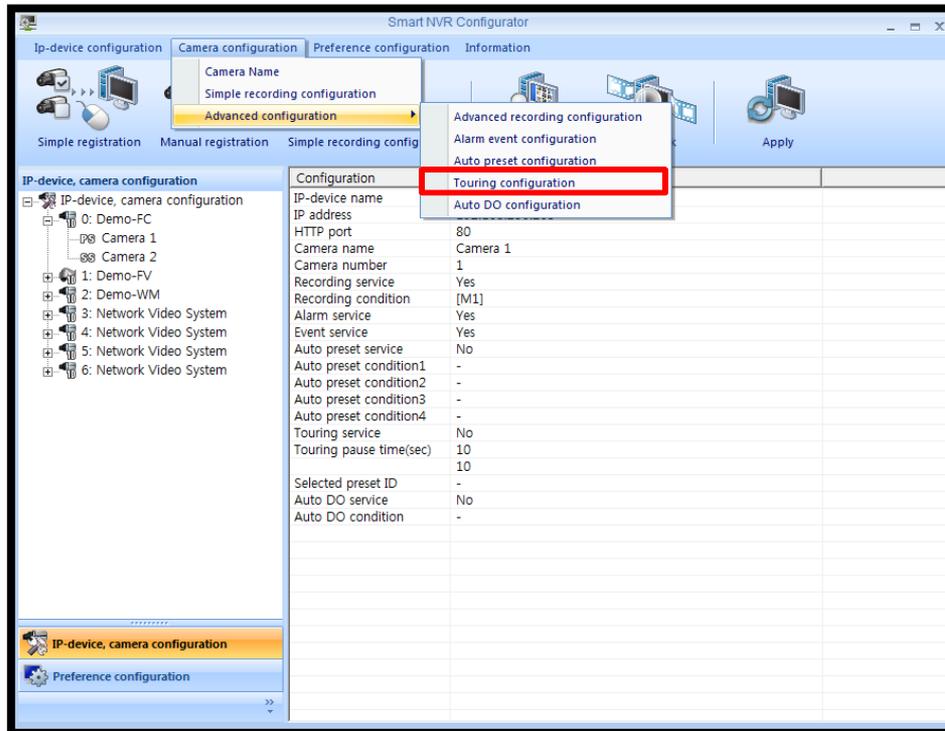
Smart NVR Configurator

Auto preset condition should include event.

OK

# Camera Configuration

## Touring configuration : Configure touring



1. Click "Touring configuration" from Advanced configuration of Camera System in Menu Bar
2. Configure recording service and condition
3. Click Apply and Apply

# Camera Configuration

Touring configuration

1. Click channel selection or camera list to configure conditions.

1 Channel model

Select camera 1      Dual stream model      Deselect

Select primary channel      Select secondary channel      Deselect all

4 Channel model

Select camera 1      Select camera 2      Select camera 3      Select camera 4

ID	IP-device name	Camera name	PTZ	Touring	Touring pa...
0	Demo-FC	Camera 1	No	Disable	10
0	Demo-FC	Camera 2	No	Disable	10
1	Demo-FV	Camera 1	Yes	Disable	10
1	Demo-FV	Camera 2	No	Disable	10
2	Demo-WM	Camera 1	No	Disable	10
2	Demo-WM	Camera 2	No	Disable	10
3	Network Video System	Camera 1	No	Disable	10
3	Network Video System	Camera 2	No	Disable	10
4	Network Video System	Camera 1	No	Disable	10
4	Network Video System	Camera 2	No	Disable	10
5	Network Video System	Camera 1	No	Disable	10
5	Network Video System	Camera 2	No	Disable	10
6	Network Video System	Camera 1	No	Disable	10
6	Network Video System	Camera 2	No	Disable	10

2. Liveview of selected camera.

Camera 1(Connection established)



3. Configure touring service.

Configure service

4. Configure shift time and select preset in touring.

Select preset

5. Set touring pause time.

Set pause

6. Repeat above.

Apply      Cancel

Touring configuration

Configure shift time

Shift time 10 (sec)

Select preset

Check preset

(Liveview of selected camera in pop-up.)

Select all      Deselect all

1	2	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	32

OK      Cancel

## Configure shift time

: Input interval time from preset to next preset

## Check preset

: See live view of selected preset

## Select all

: Select all 32 presets

## Deselect all

: Deselect all 32 presets

Touring service

Enable touring  
Run touring in order of preset set.

Disable touring  
Don't run touring.

Apply      Cancel

Set pause

Set touring pause time.

10

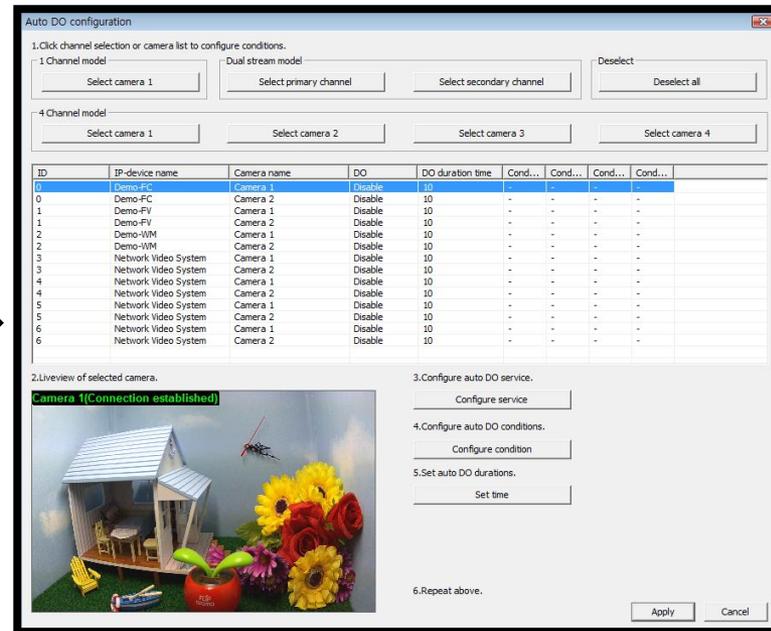
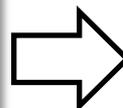
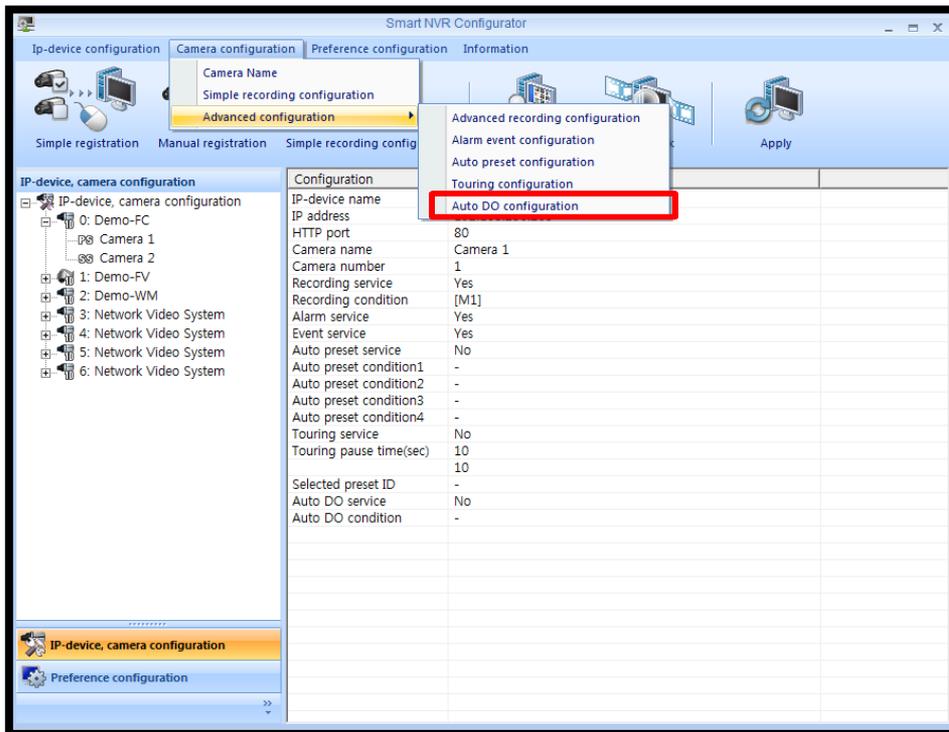
Apply      Cancel

## Set pause

When PTZ control is made during touring, set time will be paused then start back touring

# Camera Configuration

## Auto DO configuration : To configure DO for events



1. Click "Auto DO configuration" from Advanced configuration of Camera configuration in Menu Bar
2. Configure recording service and condition
3. Click Apply and Apply

# Camera Configuration

1. Click channel selection or camera list to configure conditions.

1 Channel model: Select camera 1, Dual stream model: Select primary channel, Select secondary channel, Deselect, Deselect all

4 Channel model: Select camera 1, Select camera 2, Select camera 3, Select camera 4

ID	IP-device name	Camera name	DO	DO duration time	Cond...	Cond...	Cond...	Cond...
0	Demo-FC	Camera 1	Disable	10	-	-	-	-
0	Demo-FC	Camera 2	Disable	10	-	-	-	-
1	Demo-FV	Camera 1	Disable	10	-	-	-	-
1	Demo-FV	Camera 2	Disable	10	-	-	-	-
2	Demo-WM	Camera 1	Disable	10	-	-	-	-
2	Demo-WM	Camera 2	Disable	10	-	-	-	-
3	Network Video System	Camera 1	Disable	10	-	-	-	-
3	Network Video System	Camera 2	Disable	10	-	-	-	-
4	Network Video System	Camera 1	Disable	10	-	-	-	-
4	Network Video System	Camera 2	Disable	10	-	-	-	-
5	Network Video System	Camera 1	Disable	10	-	-	-	-
5	Network Video System	Camera 2	Disable	10	-	-	-	-
6	Network Video System	Camera 1	Disable	10	-	-	-	-
6	Network Video System	Camera 2	Disable	10	-	-	-	-

2. Liveview of selected camera.  
Camera 1 (Connection established)

3. Configure auto DO service.  
Configure service

4. Configure auto DO conditions.  
Configure condition

5. Set auto DO durations.  
Set time

6. Repeat above.

Apply Cancel

1. Select condition to configure.

Condition number	Condition name
1	-
2	-
3	-
4	-

2. Configure auto DO conditions.

Input condition:  Use condition  Don't use condition

Condition mode:  
 Always auto DO  
 Schedule triggered auto DO  
 Event triggered auto DO  
 Schedule and event triggered auto DO

Schedule:  
 Day  
 Time: AM 9:00 ~ AM 9:00  
 Date: 01/01 ~ 01/01

Event:  
 Alarm sensor: 1, 2, 3, 4  
 Motion detection:   
 FES:

3. Click "Apply" to apply configured condition.  
Apply

4. Repeat above.  
OK Cancel

## Select condition to configure

Maximum 4 conditions can be configured, auto DO when any of 4 conditions match "OR" condition

## Input condition

: Select to use or don't use condition

## Condition Mode

: To select mode from event triggered auto DO and event & schedule triggered auto DO  
 Multiple conditions can be set within 1 condition "AND" condition

Auto DO service

Enable auto DO  
Run auto DO according to conditions.

Disable auto DO  
Don't run auto DO regardless of conditions.

Apply Cancel

Set duration time

Set duration time for auto DO.

10

Apply Cancel

Set duration time for auto DO

Smart NVR Configurator

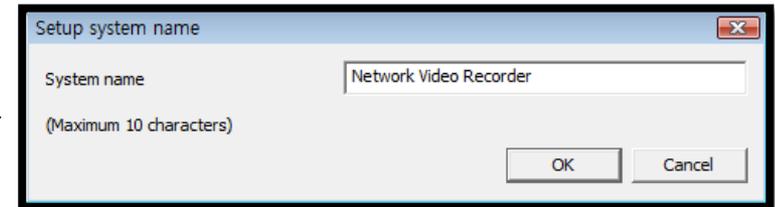
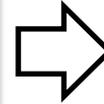
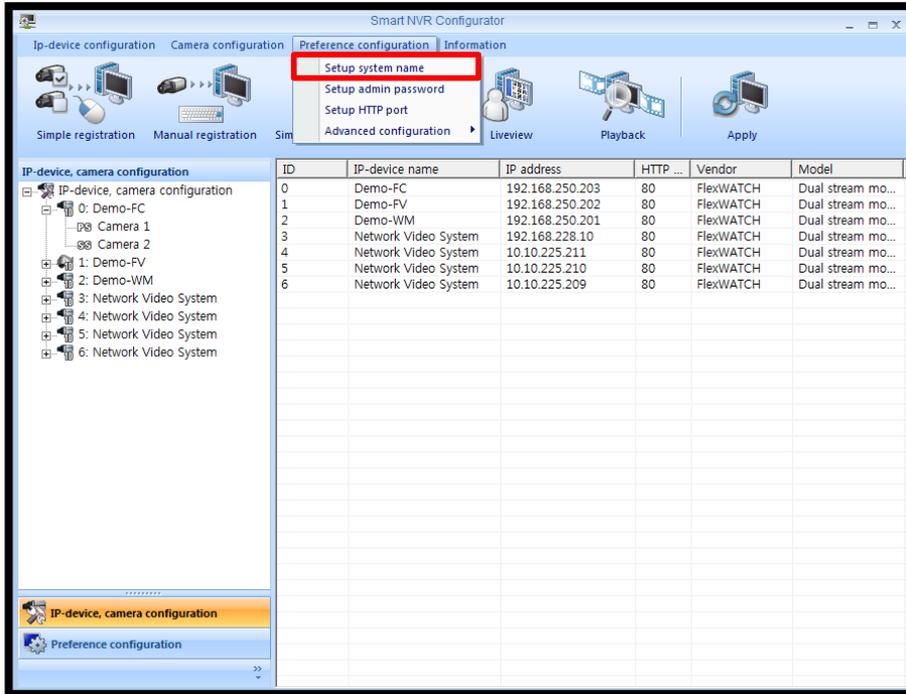
DO preset condition should include event.

OK

When always auto DO or scheduled auto DO is selected, below message will pop-up

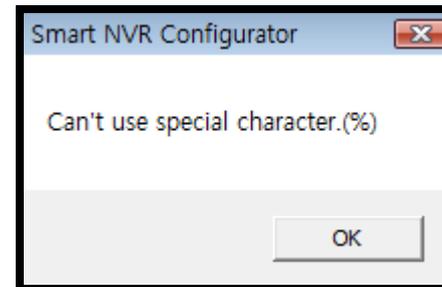
# Preference Configuration

## Setup system name : Set name of Smart NVR



**Maximum 21 alphabet, number and special characters**

**%, □ cannot be used**

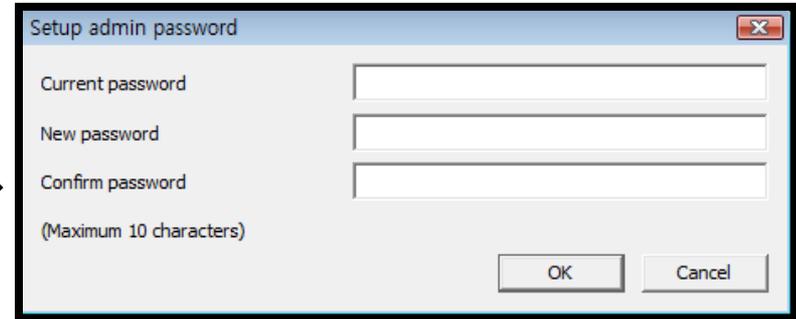
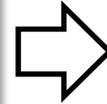
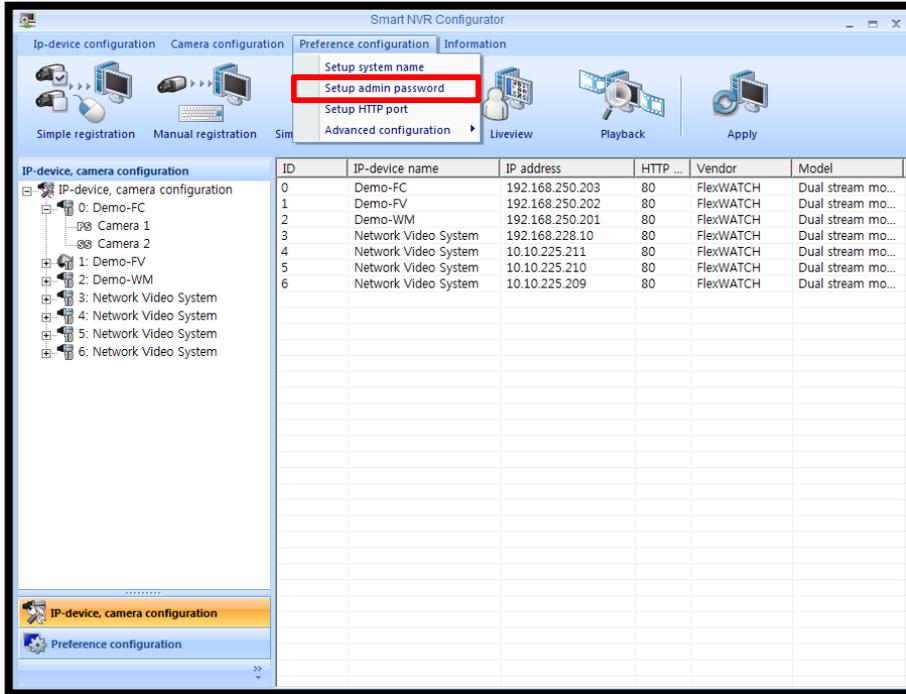


1. Click "Setup system name" from Preference configuration in Menu Bar
2. Set name
3. Click OK and Apply

# Preference Configuration

## Setup admin password

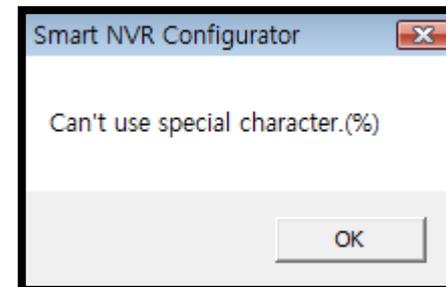
: Set password for admin account



**Maximum 23 alphabet, number and special characters**

**%, □ cannot be used**

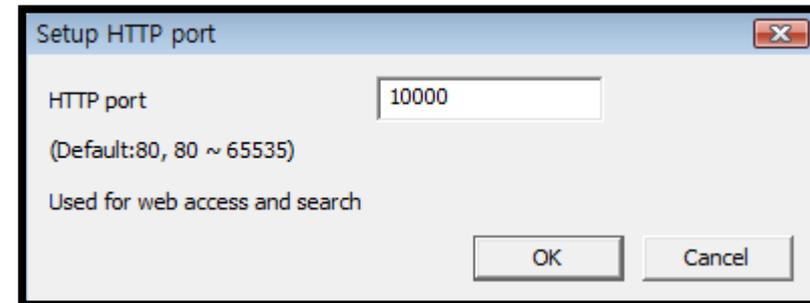
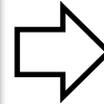
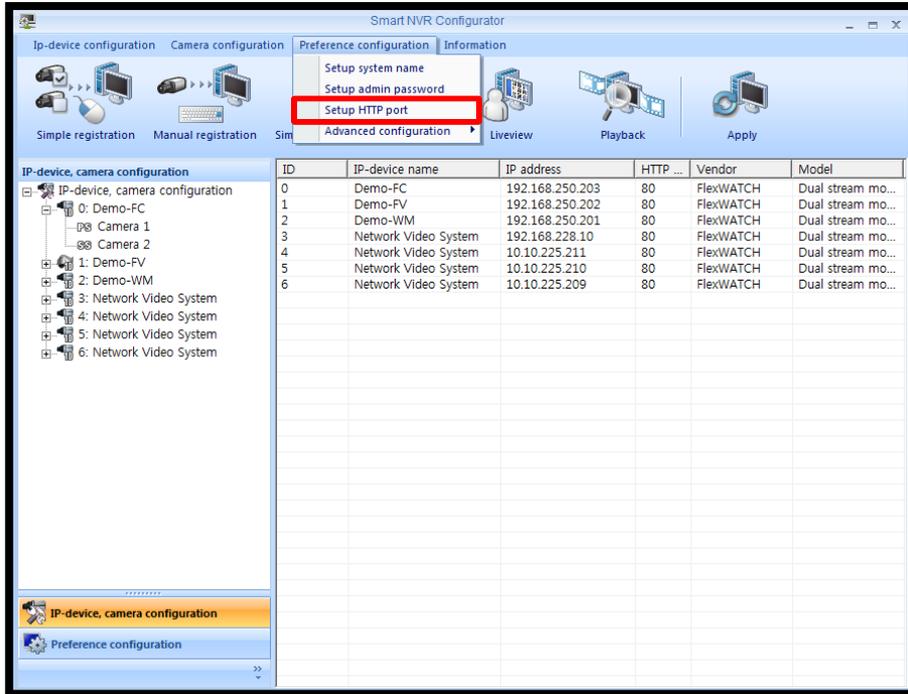
1. Click "Setup admin password" from Preference configuration in Menu Bar
2. Set password
3. Click OK and Apply



# Preference Configuration

## Setup HTTP port

: Set HTTP port for Smart NVR



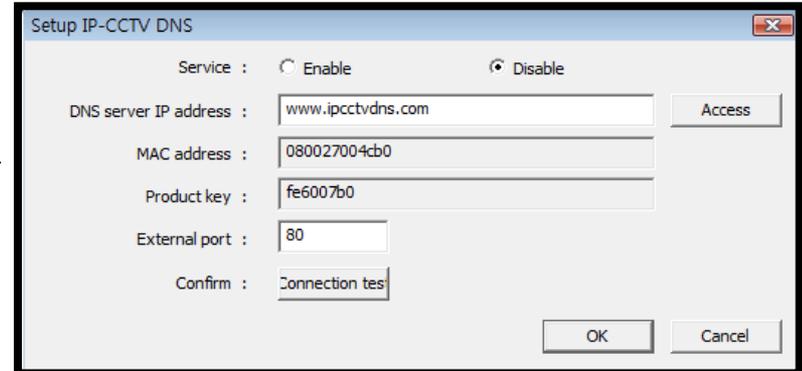
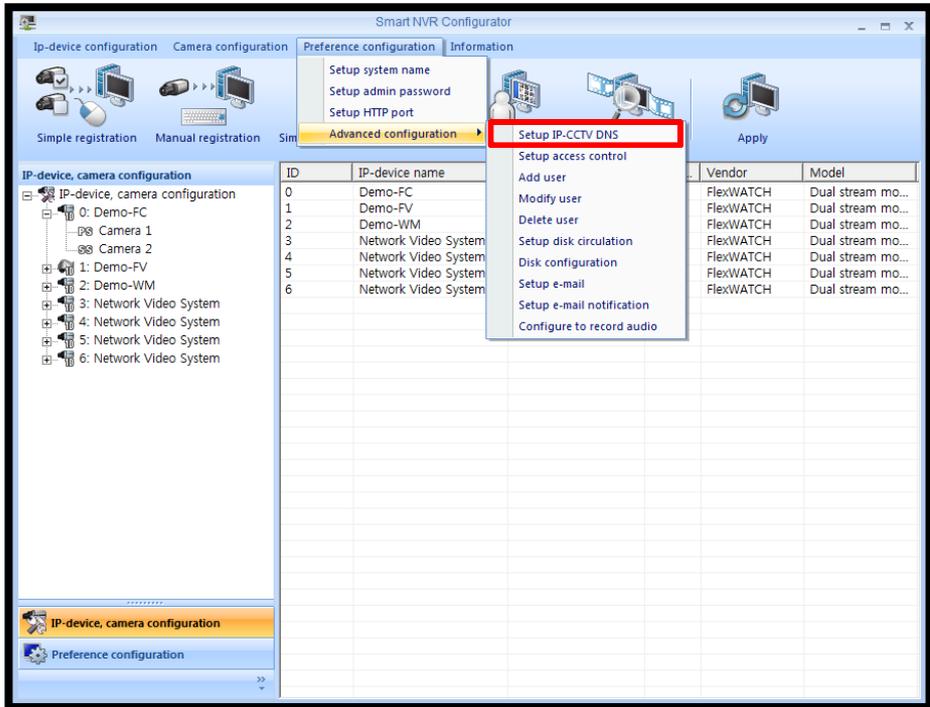
Default HTTP port is 80  
After selection Smart NVR must be accessed as  
below form of IP address  
[HTTP://IP:PORT](http://IP:PORT)

1. Click "Setup HTTP port" from Preference configuration in Menu Bar
2. Set port number
3. Click OK and Apply

# Preference Configuration

## Setup IP-CCTV DNS

: Set IP-CCTV DNS to view Smart NVR from other than local network



1. Click "Setup IP-CCTV DNS" from Advanced configuration of Preference configuration in Menu Bar
2. Set IP-CCTV DNS details
3. Click OK and Apply

# Preference Configuration

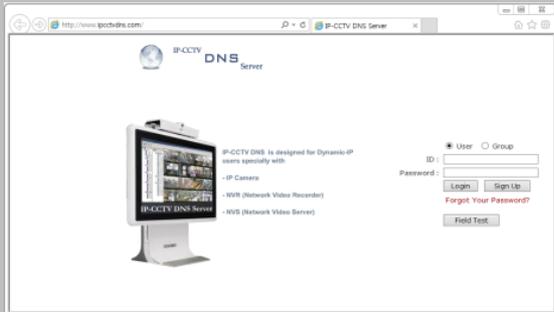
## Service

: Enable or disable service

## DNS server IP address

: Enter IP-CCTV DNS address

- Click Access to go to homepage of IP-CCTV DNS



## MAC address

: MAC address of PC where Smart NVR is installed

## Product Key

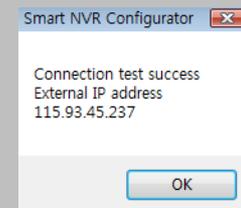
: Product key of Smart NVR

A screenshot of the 'Setup IP-CCTV DNS' dialog box. It contains several input fields: 'Service' with radio buttons for 'Enable' and 'Disable' (selected); 'DNS server IP address' with the value 'www.ipcctvdns.com'; 'MAC address' with '080027004cb0'; 'Product key' with 'fe6007b0'; 'External port' with '80'; and 'Confirm' with 'Connection test'. There are 'Access', 'OK', and 'Cancel' buttons.

## Confirm

: Check environment status of PC and router settings

- Connection test



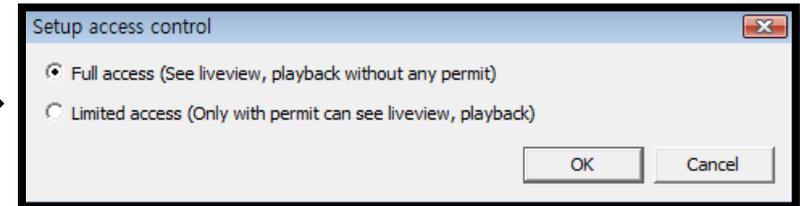
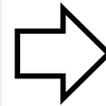
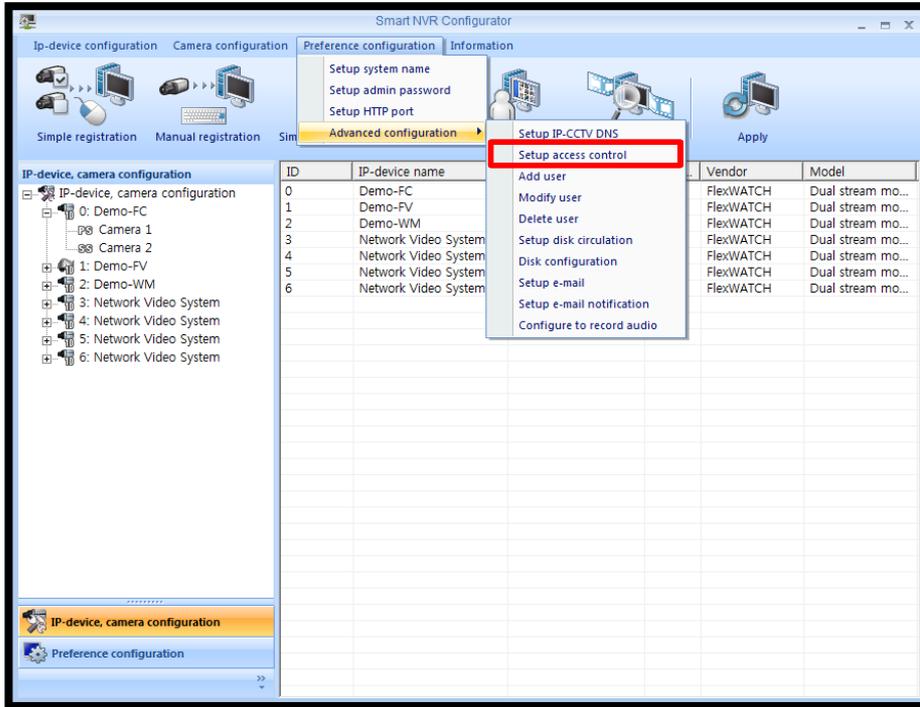
## External port

: External port of Smart NVR

# Preference Configuration

## Setup access control

: Set access control of Smart NVR



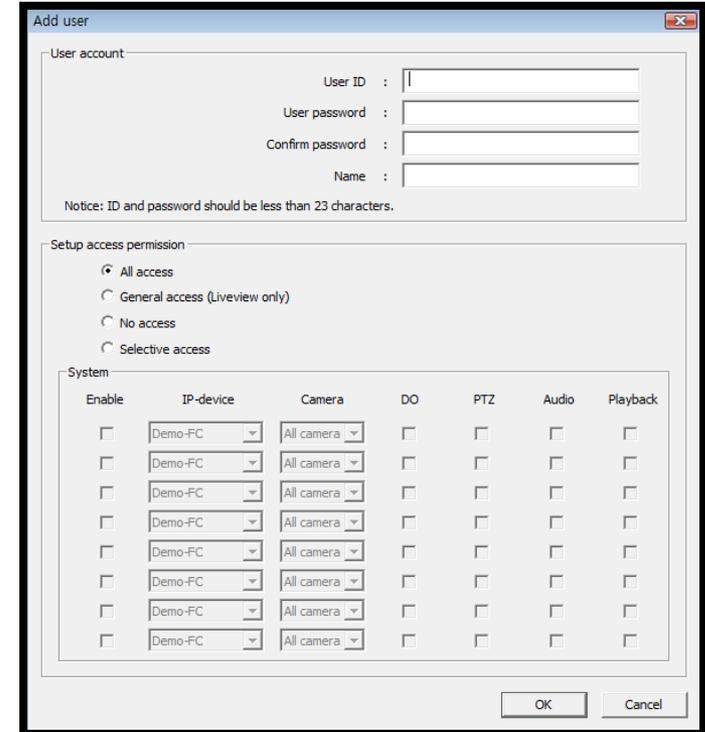
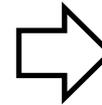
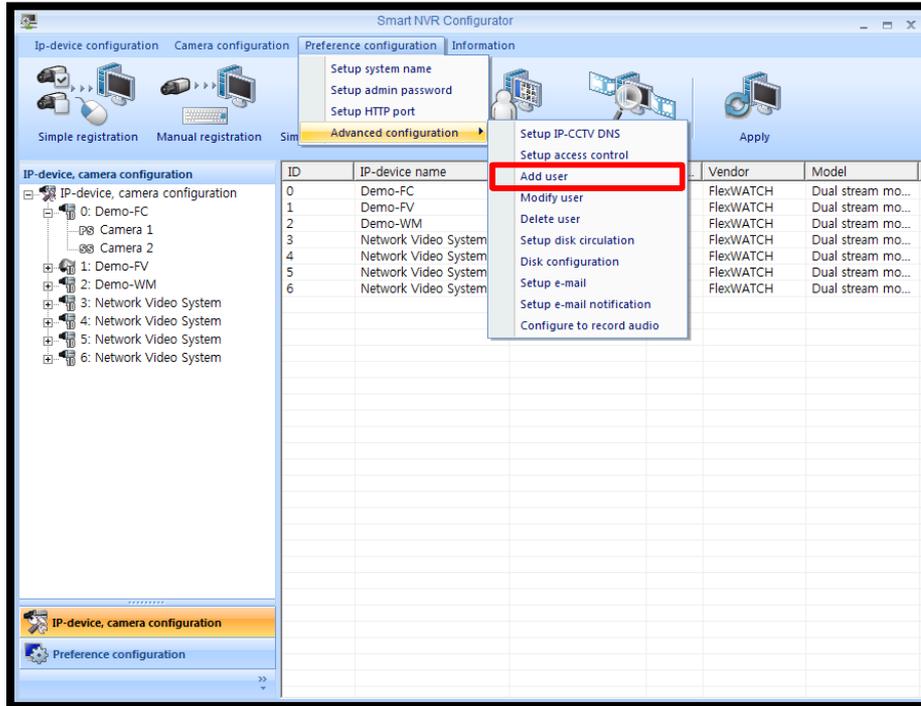
When set limited access, login is needed to live view or playback

1. Click "Setup access control" from Advanced configuration of Preference configuration in Menu Bar
2. Set access control
3. Click OK and Apply

# Preference Configuration

## Add user

: Add user account



1. Click "Add user" from Advanced configuration of Preference configuration in Menu Bar
2. Set user account
3. Click OK and Apply

# Preference Configuration

## User Account

**User ID:** Input ID to be used

**User password:** Input password

**Confirm password:** Re-type password

**Name:** Input name of user

## Setup Access permission

### All access

: All access permitted for all functions of Smart NVR except for access to Configurator

### General access

: Access permitted for live view only

### No access

: Access denied

### Selective access

: Selectively access permitted (Maximum 8 IP-devices)

Add user

User account

User ID :

User password :

Confirm password :

Name :

Notice: ID and password should be less than 23 characters.

Setup access permission

All access

General access (Liveview only)

No access

Selective access

System

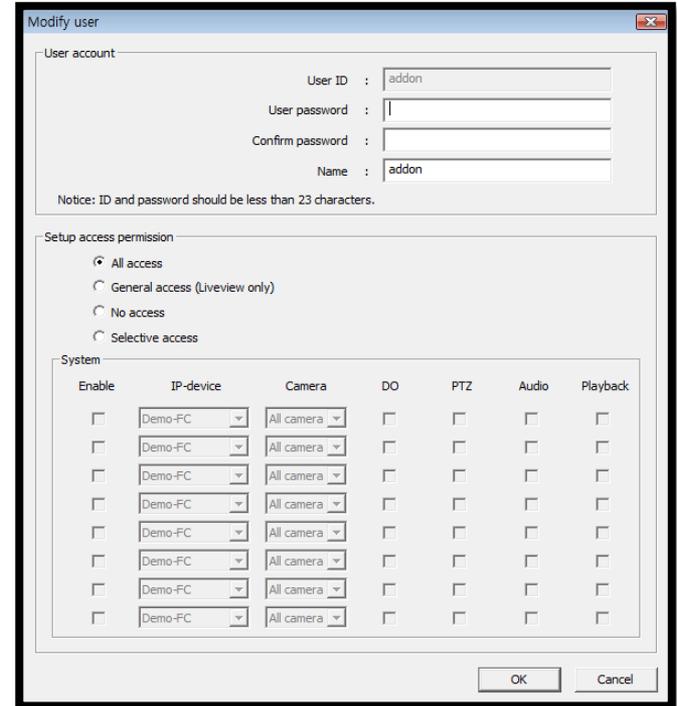
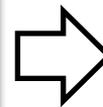
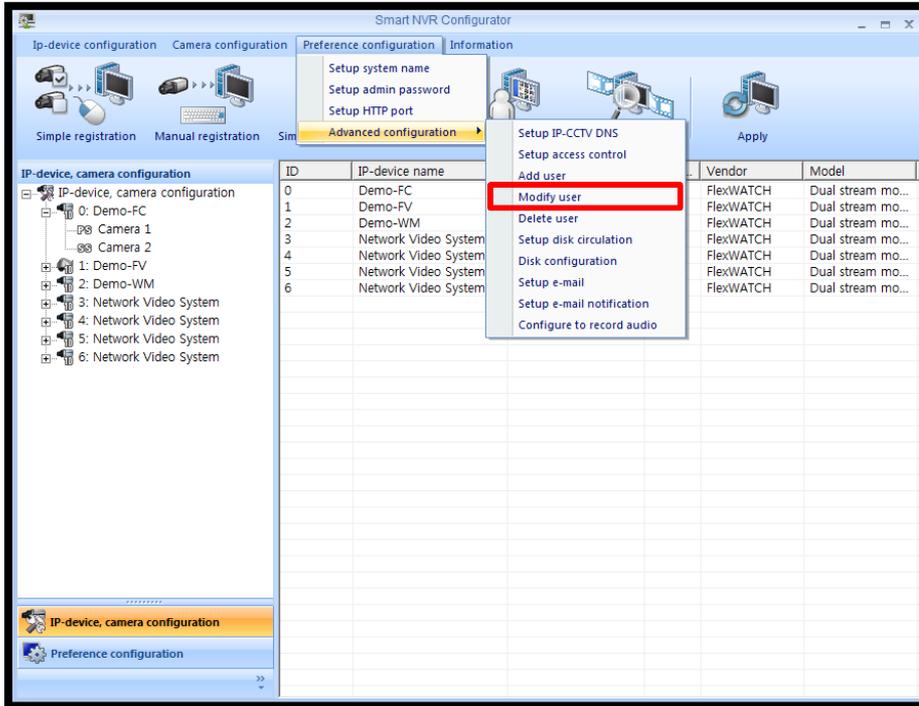
Enable	IP-device	Camera	DO	PTZ	Audio	Playback
<input type="checkbox"/>	Demo-FC	All camera	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Demo-FC	All camera	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Demo-FC	All camera	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Demo-FC	All camera	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Demo-FC	All camera	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Demo-FC	All camera	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Demo-FC	All camera	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Demo-FC	All camera	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OK Cancel

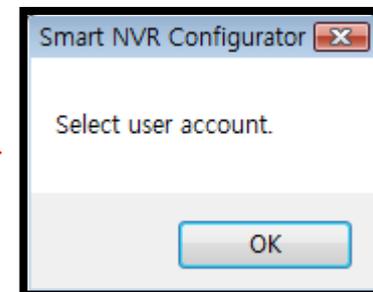
# Preference Configuration

## Modify user

: Modify user account



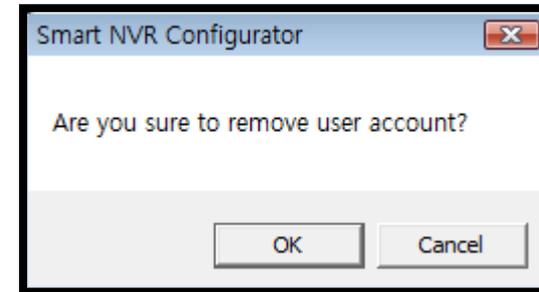
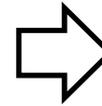
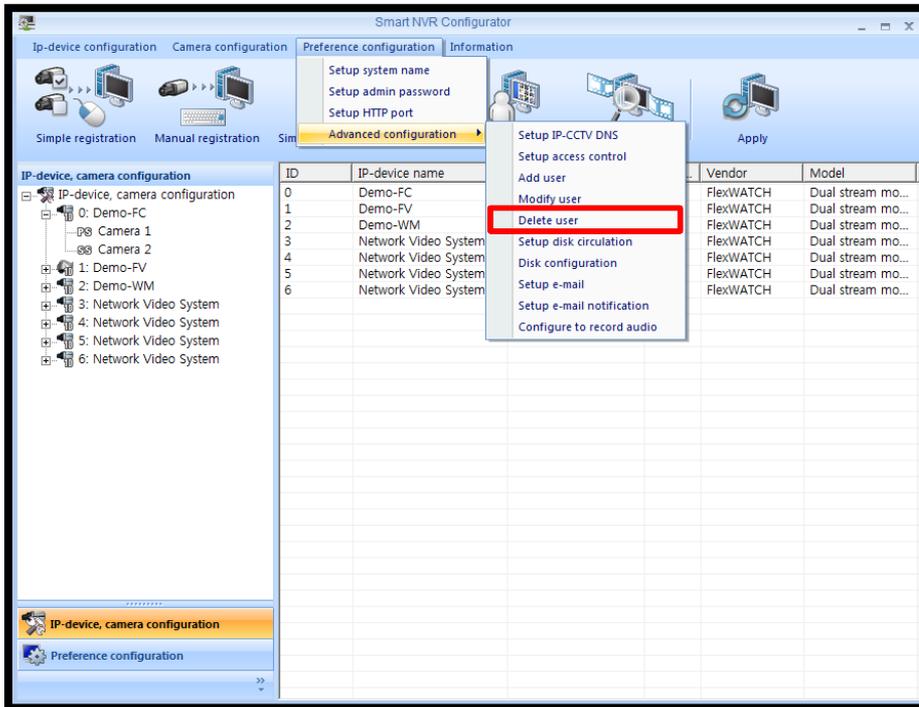
1. Select user account
2. Click "Modify user" from Advanced configuration of Preference configuration in Menu Bar
3. Modify user account (User ID cannot be modified)
4. Click OK and Apply



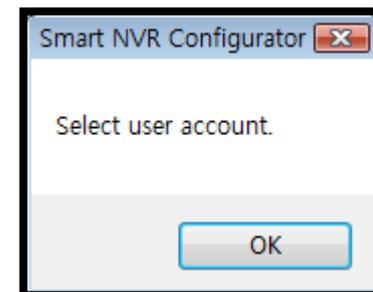
# Preference Configuration

## Delete user

: Delete user account

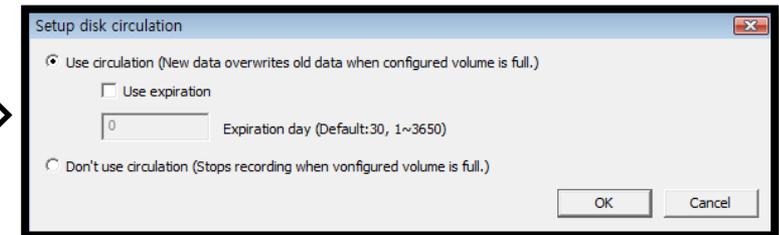
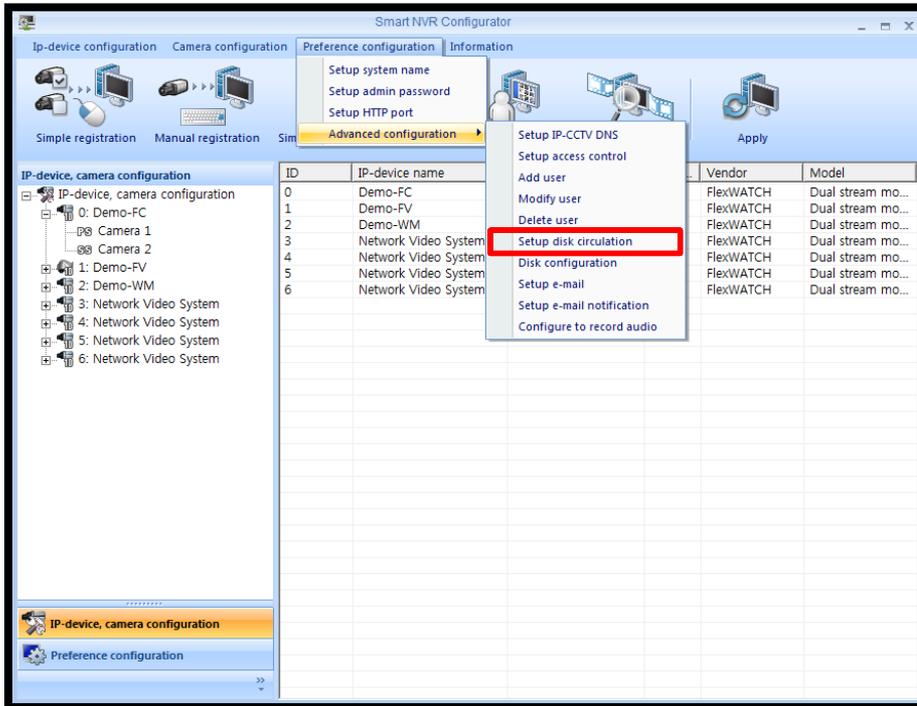


1. Select user account
2. Click "Delete user" from Advanced configuration of Preference configuration in Menu Bar
3. Click OK and Apply



# Preference Configuration

## Setup disk circulation : Set disk circulation



### Use expiration date

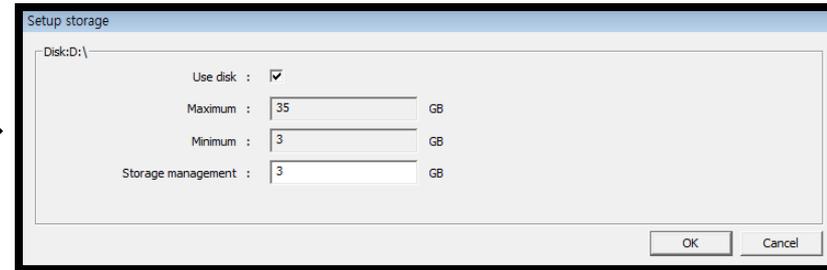
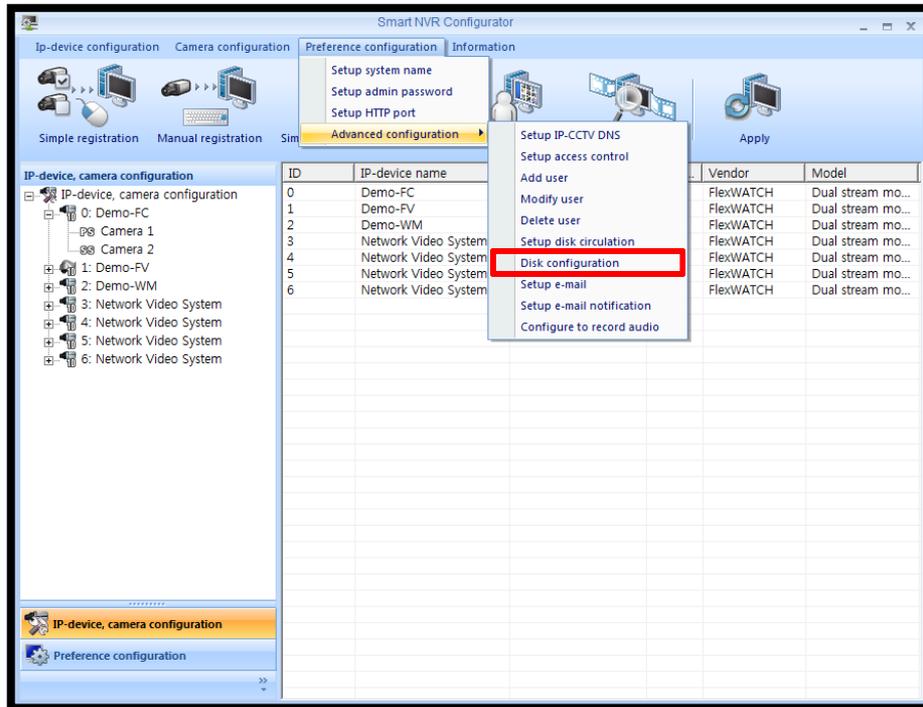
To delete recorded data after certain date passed

1. Click "Setup disk circulation" from Advanced configuration of Preference configuration in Menu Bar
2. Choose to use or don't use circulation
3. Click OK and Apply

# Preference Configuration

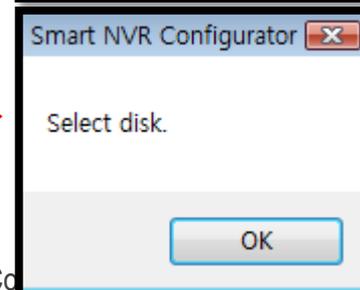
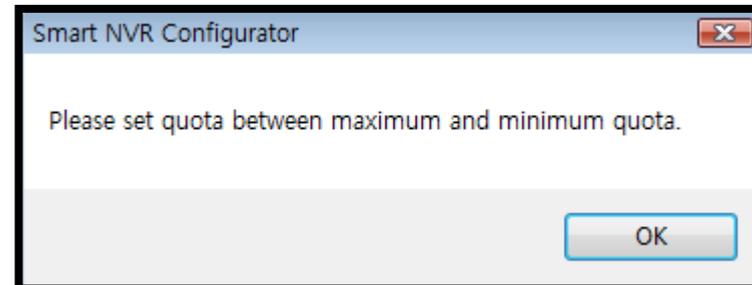
## Disk configuration

: Set disk space for recording



Use disk: When checked following disk will be used for recording  
Storage management : Set maximum space used  
**\* When exceeds maximum quota(or lower than minimum quota) below message will pop-up**

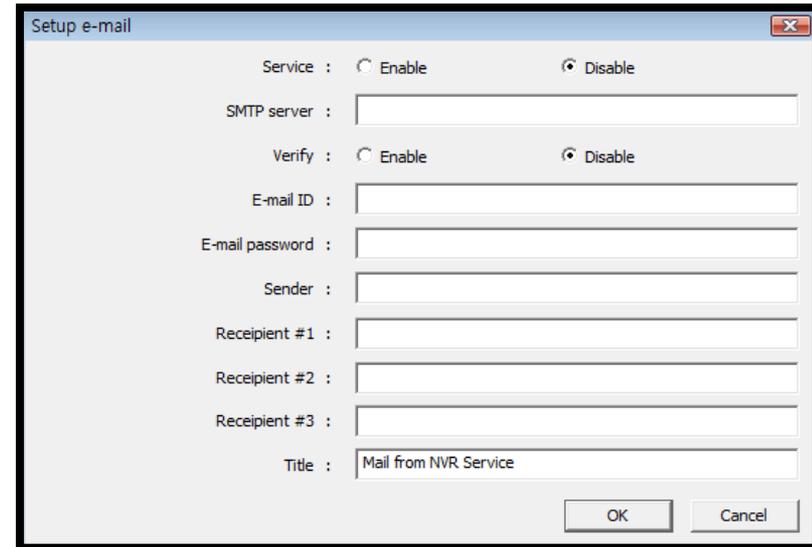
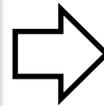
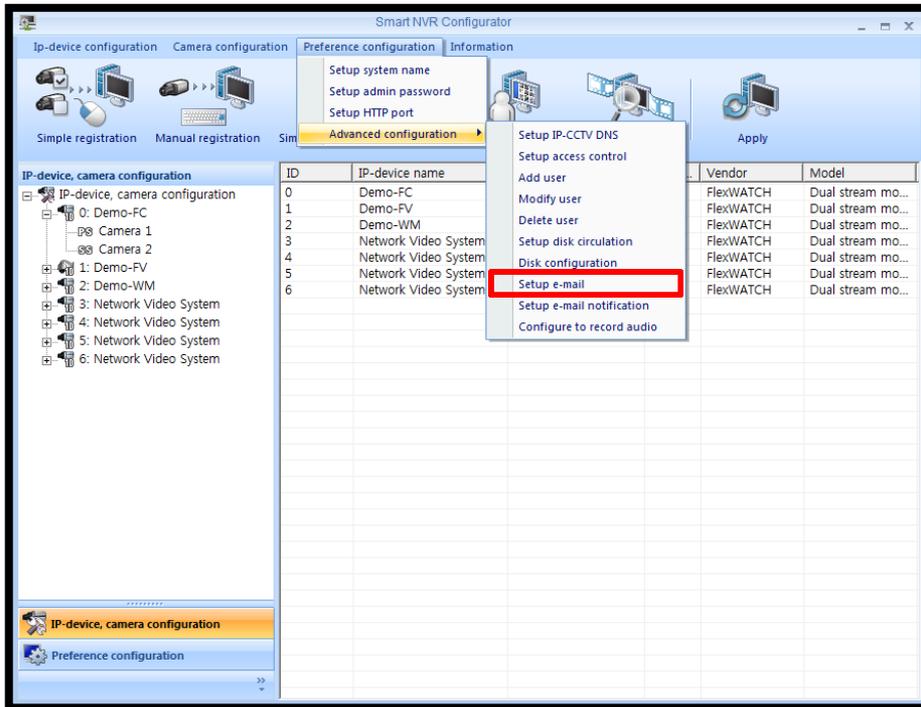
1. Select disk
2. Click "Disk configuration" from Advanced configuration of Preference configuration in Menu Bar  
**\* When disk is not selected message will pop-up**
3. Setup storage
4. Click OK and Apply



# Preference Configuration

## Setup e-mail

: Set e-mail address to receive notification



1. Click "Setup e-mail" from Advanced configuration of Preference configuration in Menu Bar
2. Input e-mail details
3. Click OK and Apply

# Preference Configuration

Setup e-mail

Service :  Enable  Disable

SMTP server :

Verify :  Enable  Disable

E-mail ID :

E-mail password :

Sender :

Recipient #1 :

Recipient #2 :

Recipient #3 :

Title : Mail from NVR Service

OK Cancel

## Service

: Enable or disable e-mail service

## SMTP server

: Enter SMTP server address of e-mail

## Verify

: Enable or disable SMTP server verification

## E-mail ID

: E-mail ID (usually full e-mail address)

## E-mail password

: E-mail password

## Sender

: Sender e-mail address

## Recipient #1~#3

: E-mail address to receive notification

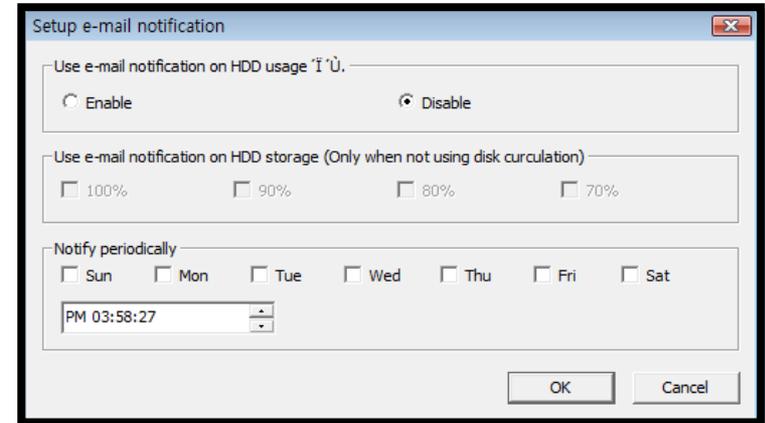
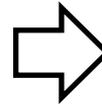
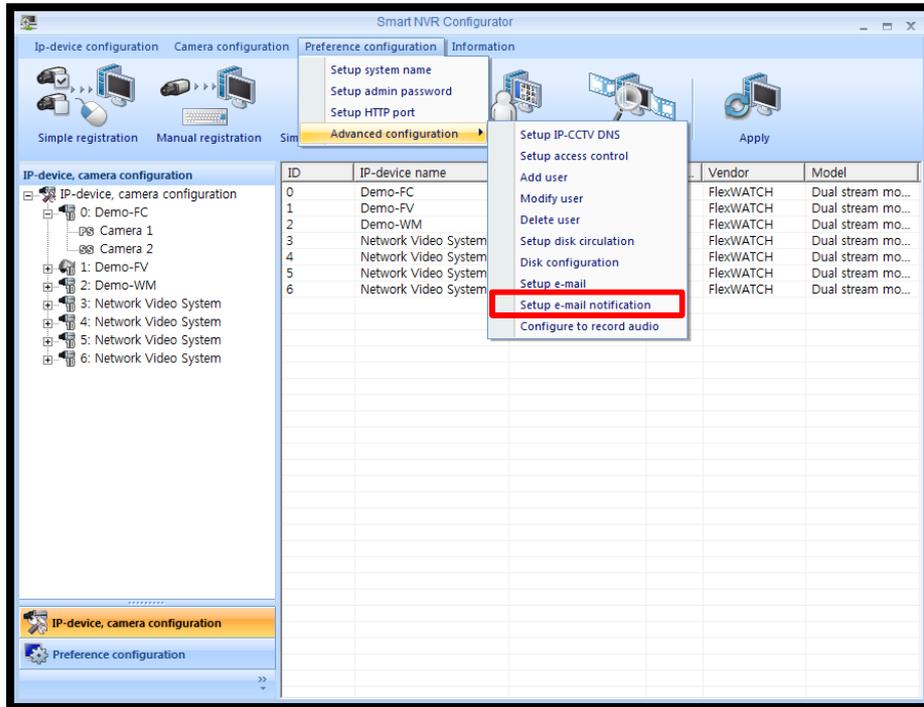
## Title

: Title of e-mail

# Preference Configuration

## Setup e-mail notification

: Set e-mail notification of Smart NVR



### HDD usage

: Enable or disable notification

### HDD storage

: Check when certain percentage is full

\* **only when circulation is disabled**

### Periodic

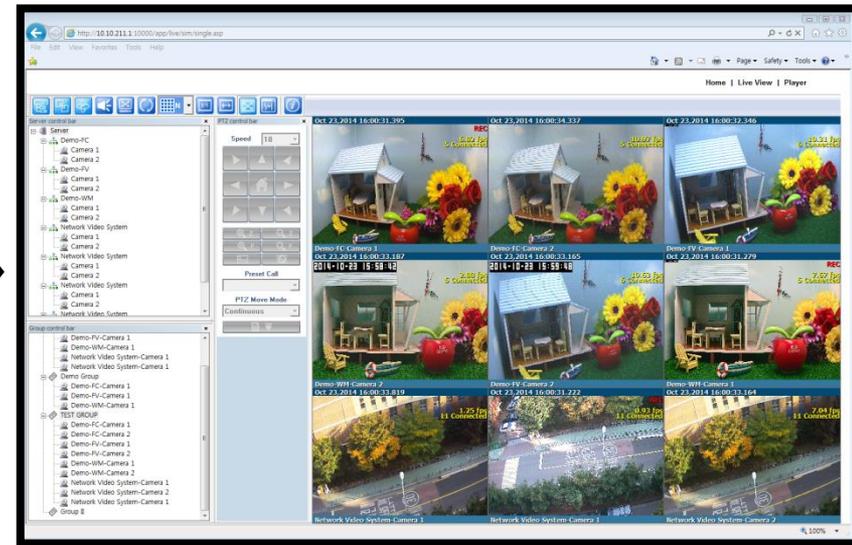
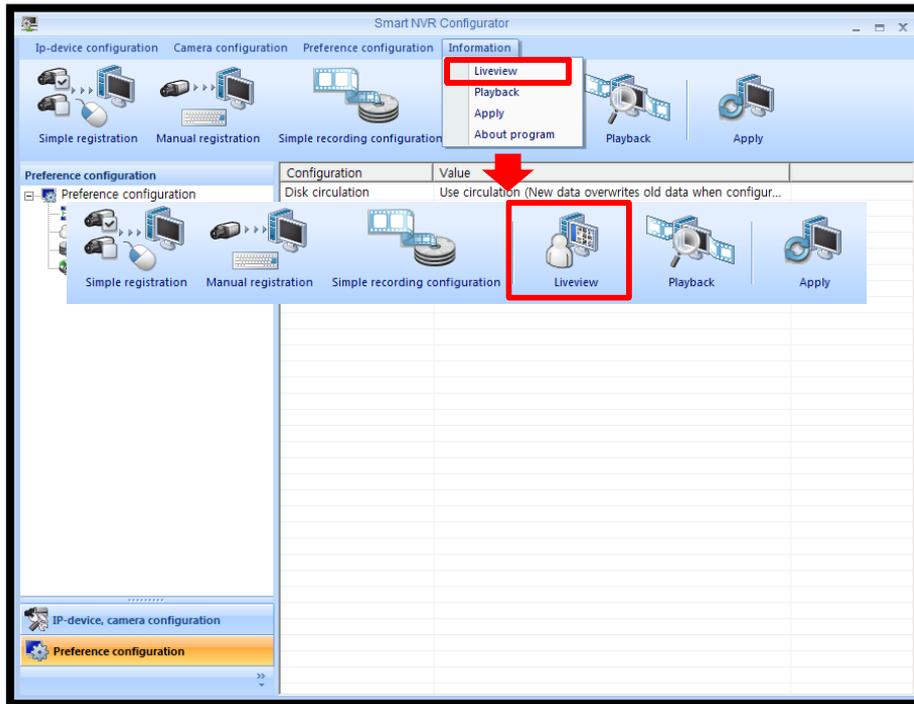
: Notify HDD status periodically

1. Click "Setup e-mail notification" from Advanced configuration of Preference configuration in Menu Bar
2. Select notification
3. Click OK and Apply

# Information

## Live view

: View live of all IP-devices, cameras registered

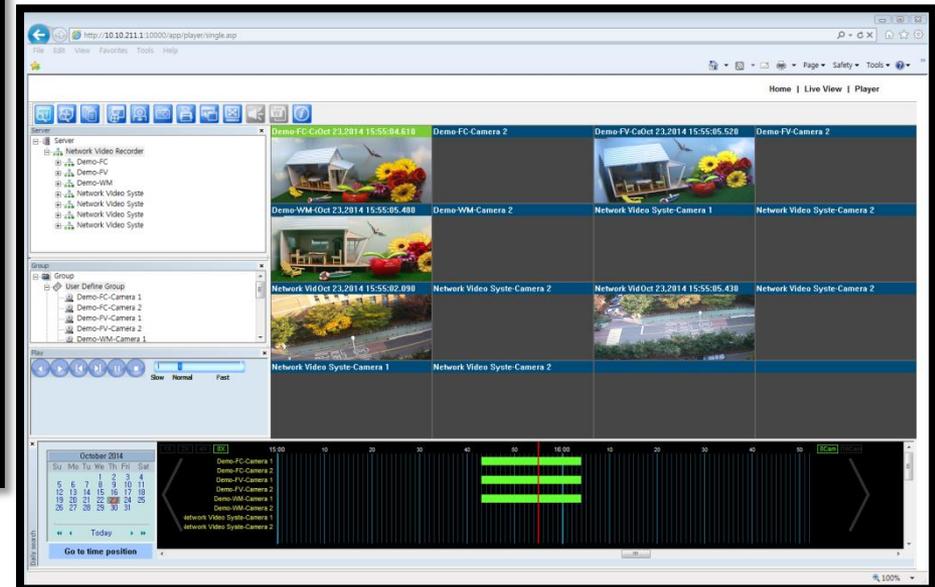
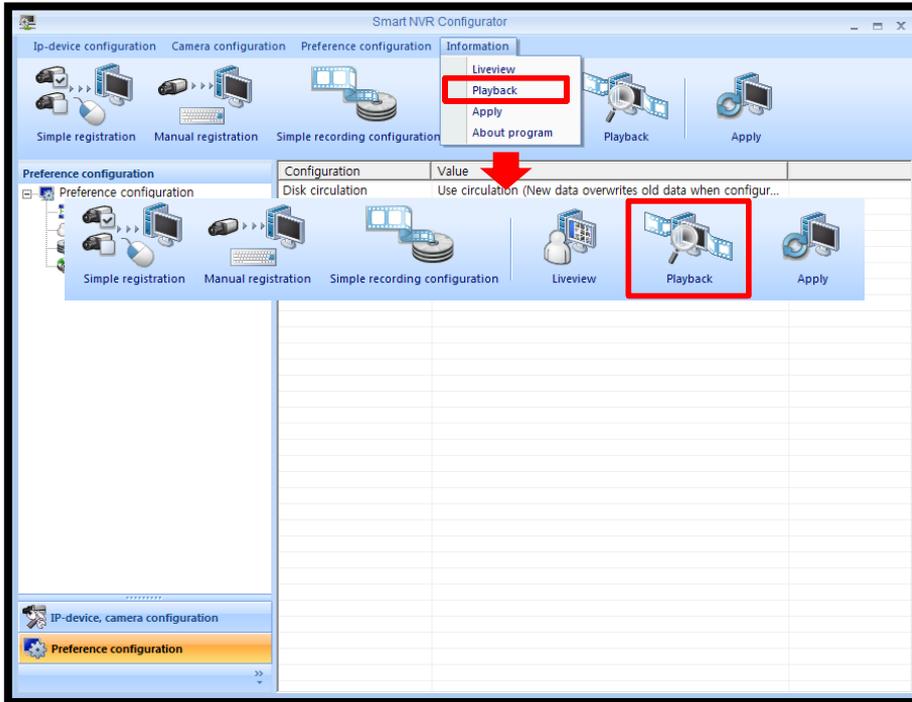


1. Click "Live view" from Information in Menu Bar or Tool Bar  
For details, please refer to Smart Viewer

# Information

## Playback

: Playback recorded files



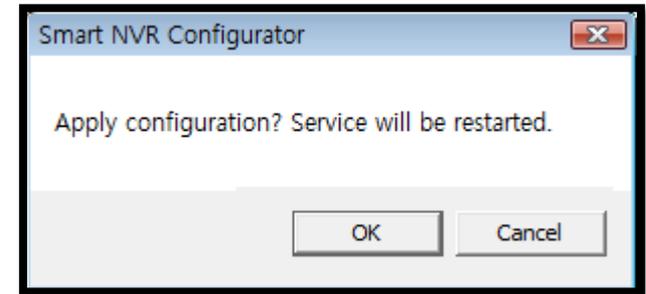
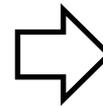
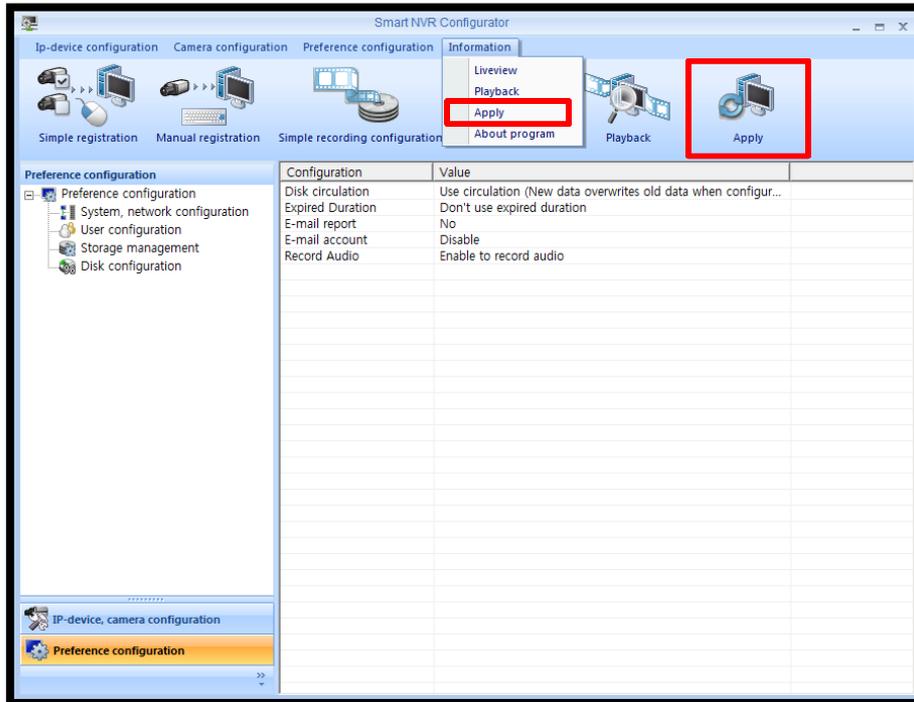
1. Click "Playback" from Information in Menu Bar or Tool Bar

For details, please refer to Smart Player

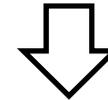
# Information

## Apply

: Apply any changes made in Smart NVR Configurator



**Click OK and restart service**



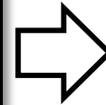
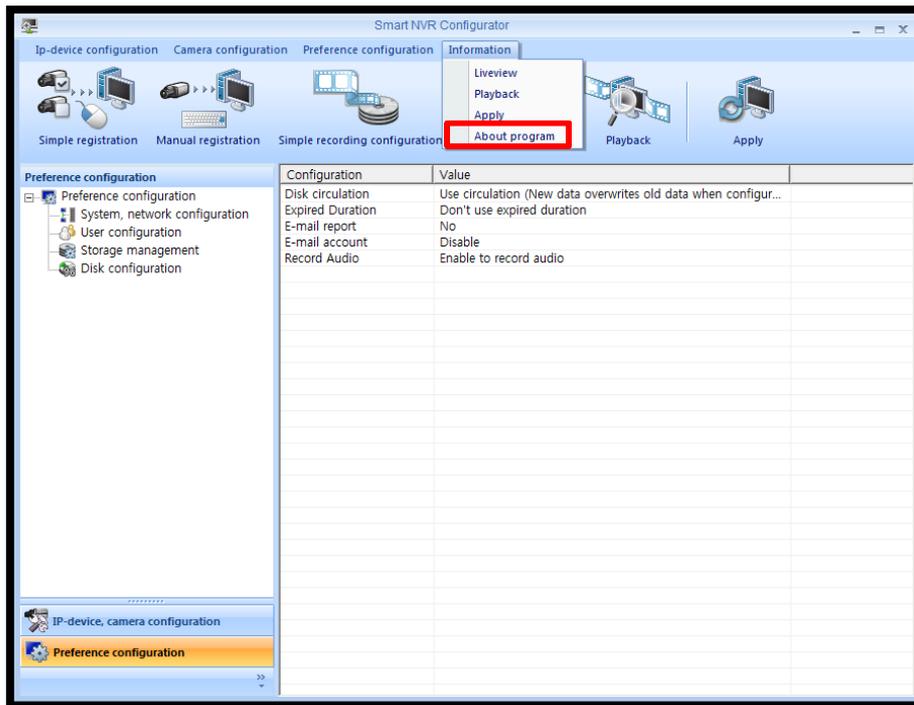
1. Click "Apply" from Information in Menu Bar or Tool Bar
2. Click OK

**After any changes made,  
APPLY should be made**

# Information

## About program

: Show info of Smart NVR Configurator



1. Click "About program" from Information in Menu Bar