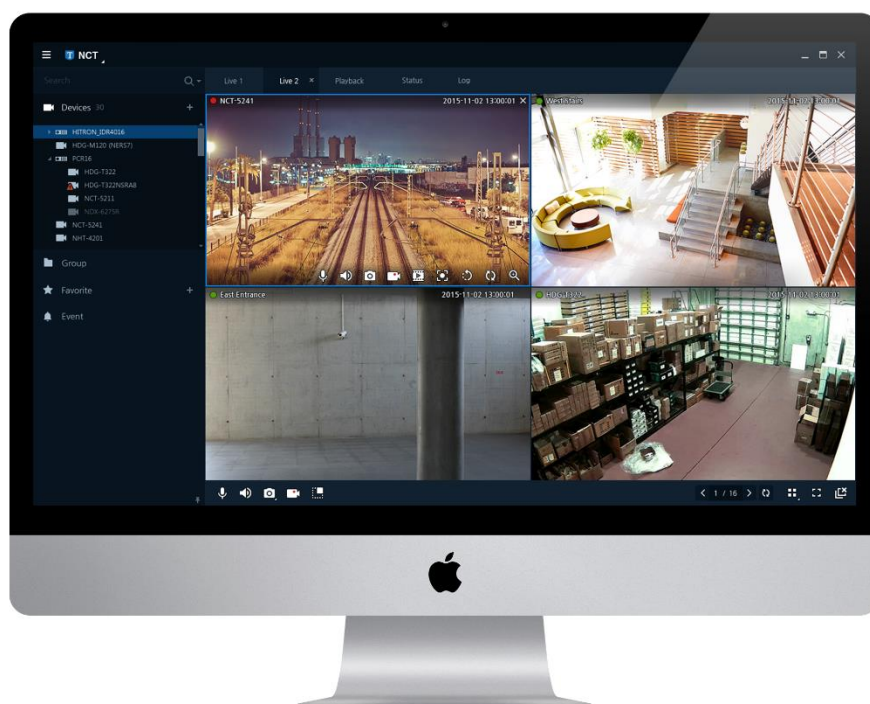


ATVision IP Client User Manual



v1.0

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1. Overview

ATVision IP Client VMS (Video Management Software) is a professional centralized monitoring system, applied to all range of applications and projects. It allows you to connect multiple surveillance devices such as Mega-Pixel Cameras and Recorders (NVR, DVR). It offers more intelligent and the most enhanced management surveillance solution for your system.

Features:

- Live screen (Max. 4 monitors, 64 divisions)
- Live display (Max. 16 channels)
- Multiple display layouts (User Layouts)
- Real Time event monitoring
- Smart Discovery
- Maximum 4K resolution display
- Dual stream support
- Real Time device status
- ONVIF support
- Instant playback support
- Intuitive UI design
- Windows OS and Mac OS support

1.1 System Requirements

The system requirements are as follows:

Table 11-1 Product specification

	Minimum	Recommended
OS	Microsoft Window 7 OS X El Yosemite (10.10)	Microsoft Window 7 OS X El Capitan (10.11)
CPU	Core™ i5 processor	Core™ i7 processor
Memory	4GB	8GB
Network	100 Mbps	1 Gbps
Graphic card memory	FULL HD resolution 2GB memory	4K resolution 4GB memory
Monitor	FULL HD	4K resolution

2. Installation

Before the install, uninstall the previous installed version.

Please, double check the network & the graphic driver.

2.1 Install



Remark Need at least 500MB free Spaces to install.

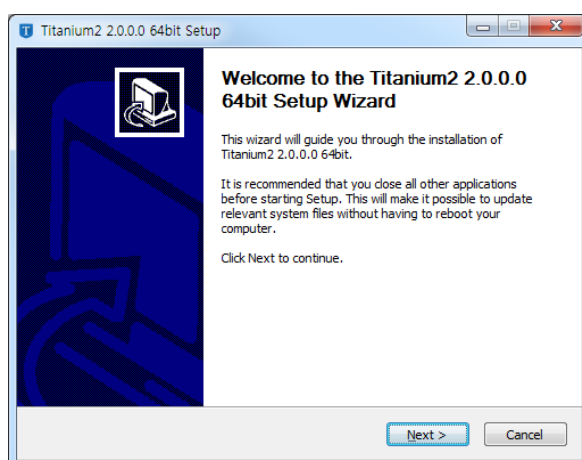
2.1.1 Windows Version

- 1 Insert CD / DVD into the PC and click the "Setup" file.

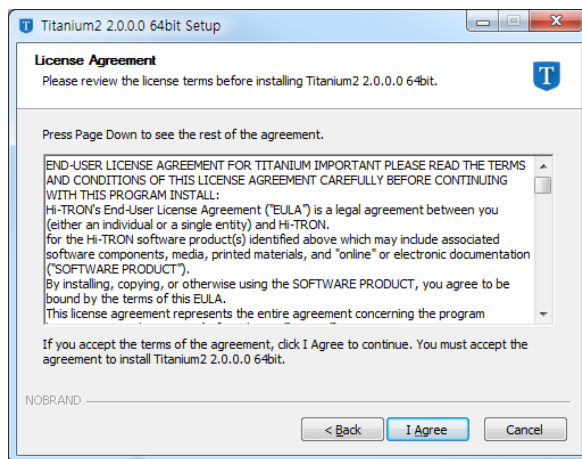
The warning message will appear depending on your security setup, such as firewall, vaccine, etc.

If the system does not need any action for your security, please, press "Proceed" button.

- 2 When "Wizard" starts, click "Next" to proceed.

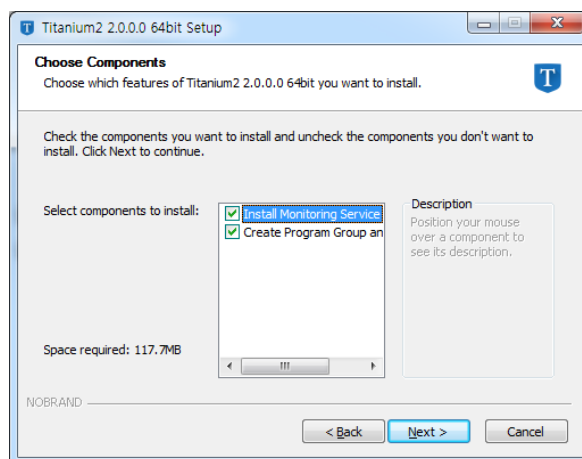


- 3 Read End User License Agreement (EULA) and click "I Agree" if you agree.



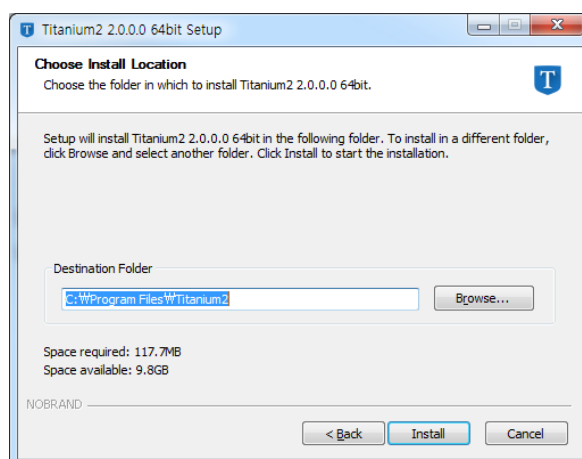
- 4 Check the items to install from the lists and press "Next".

For the first install, recommend to select all and proceed.



- 5 Choose the location to install and click the "Install" button.

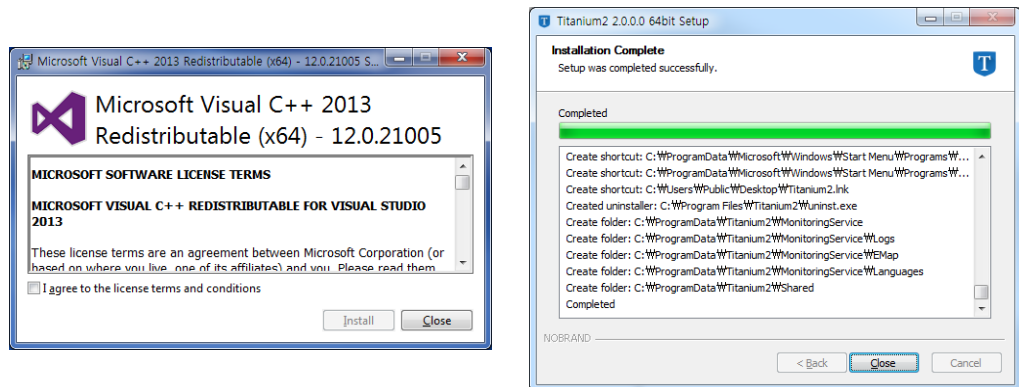
During the install, do not turn off the PC power; it may cause the problem.



- 6 If Microsoft Visual C++ 2013 redistribution packages are not installed, Installation wizard appears.

Mark the Check box to agree the terms of license and proceed the "Install".

7 When the install is done, please, click the “Close” to finish.



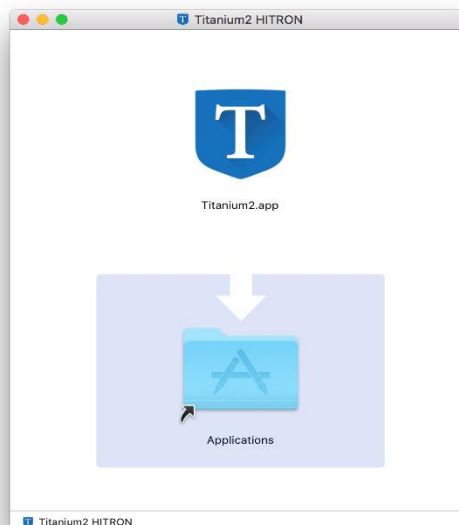
Note

- If Microsoft Visual C++ 2013 redistribution packages are not installed, the program may not run properly.

2.1.2 OS X Version

1 Insert CD / DVD into the PC and click the “Setup” file.

When the install file(.dmg format) runs, the finder message appears as below:



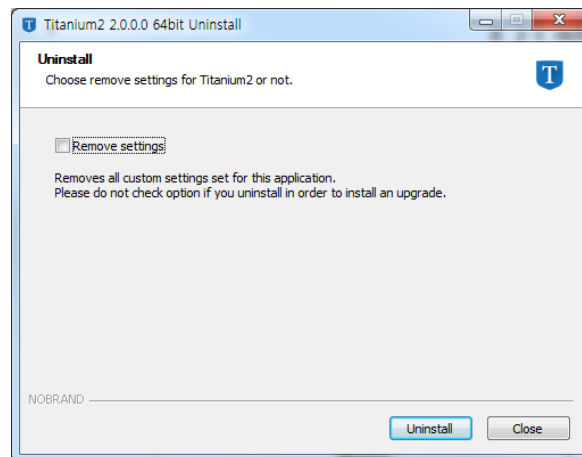
2 Drag or Drop the file into the window to finish.

2.2 Uninstall

2.2.1 Windows Version

- 1 Click Start – Control Panel – Program and Function menu.
- 2 Select installed program and click the right button of a mouse on “Delete/Change” menu. Install wizard appears.
- 3 When Delete Setup information, click the check box and press “Uninstall.”

Delete the Setup information is not recoverable. We recommend you not to delete it.



Completing Delete ends automatically Installation wizard.

2.2.2 OS X Version

- 1 Move to Finder – Apply or installed route.
- 2 Drag and drop the installed APP(.app file format) to Waste icon to remove the file.

3. Screen Configuration

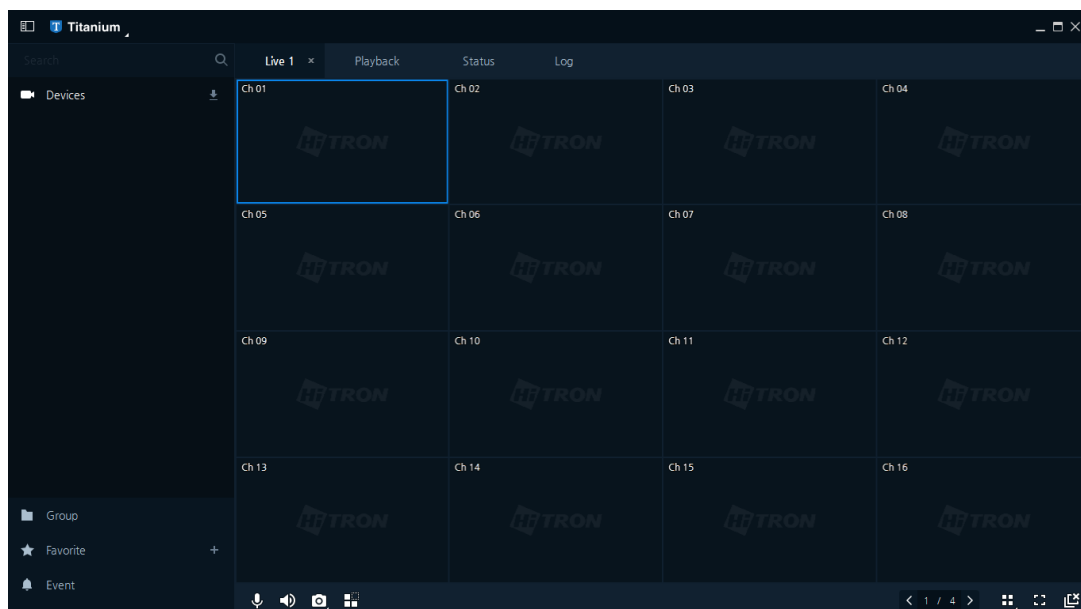


Figure 3-1 UI Screen Configuration

Table 3-1 Description of UI Screen Configuration






No.	Item	Description
1	Title Bar	Title Bar is located in the corner of upper screen. System Menu, screen size, and side menu can be operated.
2	Side menu	Side menu is located in the left side of the screen. Device Lists, Group lists, Favorite, and Event lists can be operated.
3	Display screen	Display Live, Playback, Device status, and Log

3.1 Title Bar



Figure 3-2 Title Bar

Table 3-2 Description of Title Bar

No.	Item	Description
1		Hide or show the side menu
2		Execute the program System Menu
3		Minimize the program screen
4		Maximize the program screen
5		Close the program

3.2 System Menu

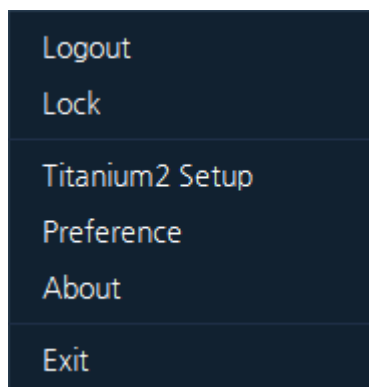


Figure 3-3 System Menu

Table 3-3 Description of System Menu

No.	Item	Description
1	Log out	Log out the program
2	Lock / Unlock	Lock or unlock the program
3	Titanium2 Setup	Setup the Device, User & Group registration, and Event

No.	Item	Description
4	Preference	Setup the program Preference (System, Device, Display, User & Log)
5	About	Show the program version and license information
6	Exit	Exit the program

3.3 Side Menu

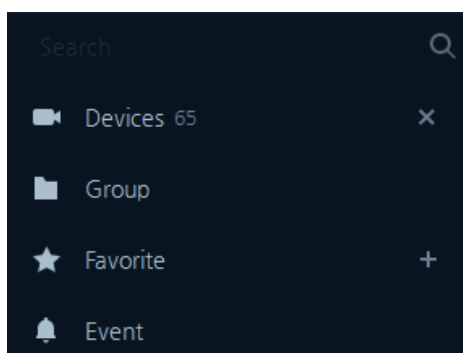





Figure 3-4 Side menu

Table 3-4 Description of Side menu

No.	Item	Description
1	Device	Show registered Device Lists on the Network Popup Menu = device connection, web page save
2	Group	Show registered Device Lists by creating group Popup Menu = device connection
3	Favorite	Show registered Favorite Popup Menu = basic Setup Apply, Modify, and Delete
4	Event	Output of Real Time event Popup Menu = Live, Playback
5		Start / Stop Smart Discovery
6		Add favorite lists
7		Search for designated device on the network

3.4 Display Screen

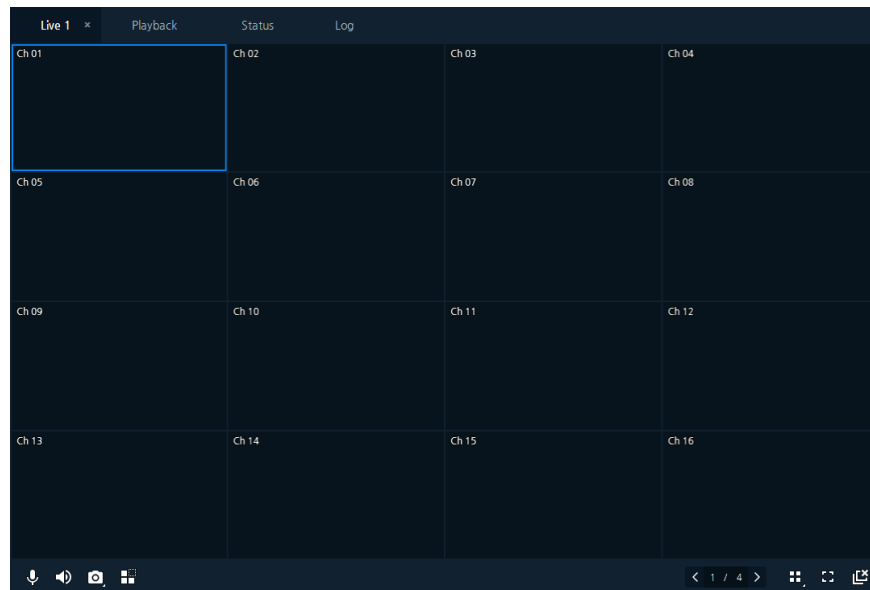


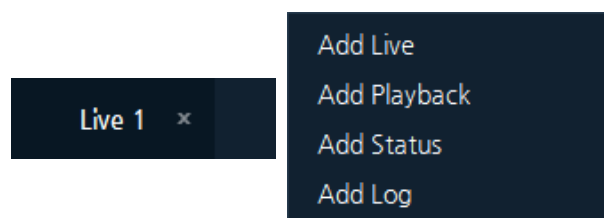
Figure 3-5 Display screen

Table 3-5 Description of Display screen

No.	Item	Description
1	Live	Display Live Video
2	Playback	Playback recorded data on HDD or Device
3	Status	Display Status of device information, connection and recording
4	Log	Display system log

3.4.1 Add Screen

1. Use Mouse right button to show the pop-up menu as below:



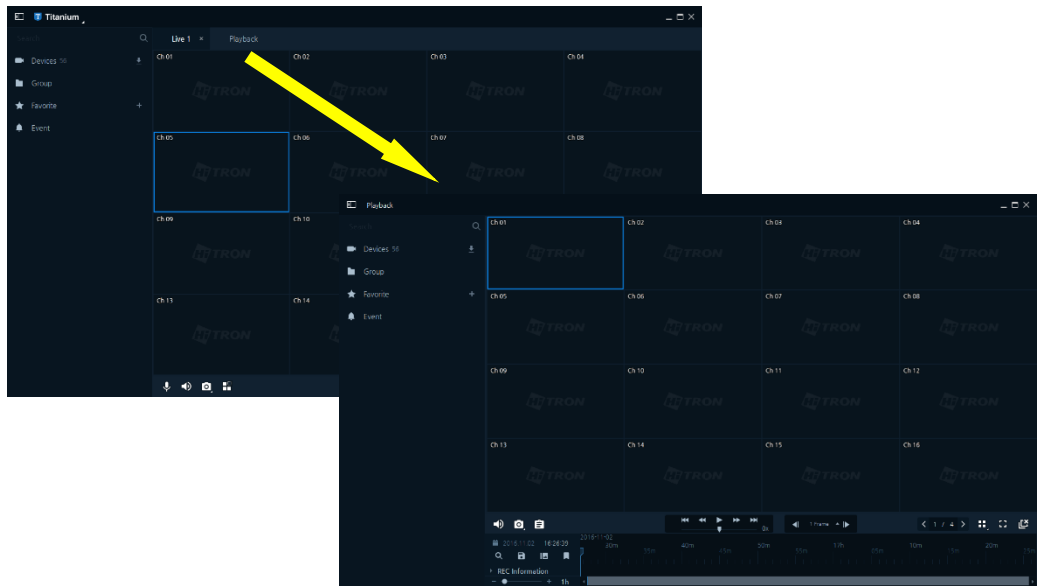
2. Select the menu from the pop-up to add on your tap as below:



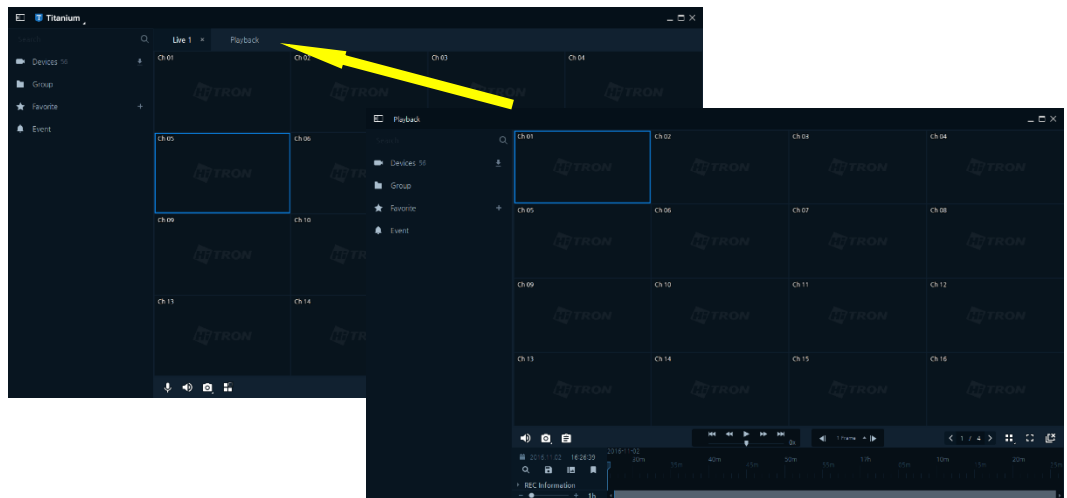
3. Each Tap will be separated by dragging or dropping as shown:

Note

- Separating Tab is useful for multi-screen monitoring system.
-



4. Separated Tab will be re-united by dragging & drop as shown:



4. System Function

4.1 Log-in / Log-out

■ Log-in

1. Execute the program and Log-in pop-up will appear.

Default user ID and password are both **"Admin and Admin"**.

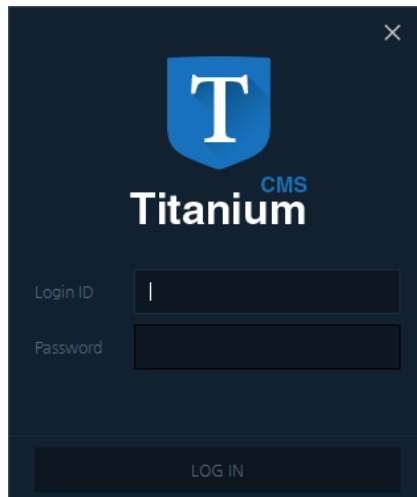


Figure 4-1 Log-in screen

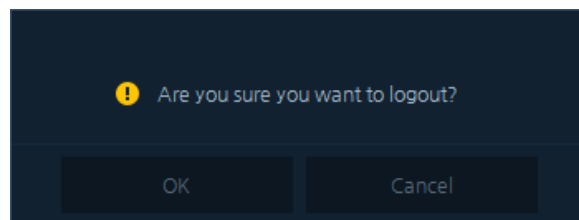
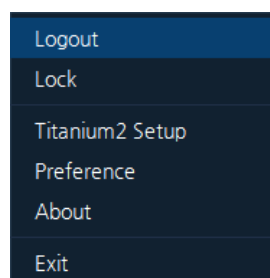
2. Enter ID and password and press "Log-in" button.
3. If you enter the invalid information, you will not be able to Log-in.

Note

- System Preference and Set up depends on the Log-in User's Authority
-

■ Log-out

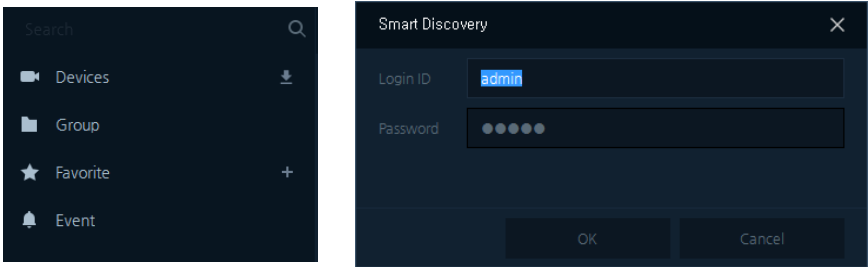
1. Execute Systems menu to Log-out from the quick menu as below:
Select the Logout, and the message will pop up to confirm the Log-out.




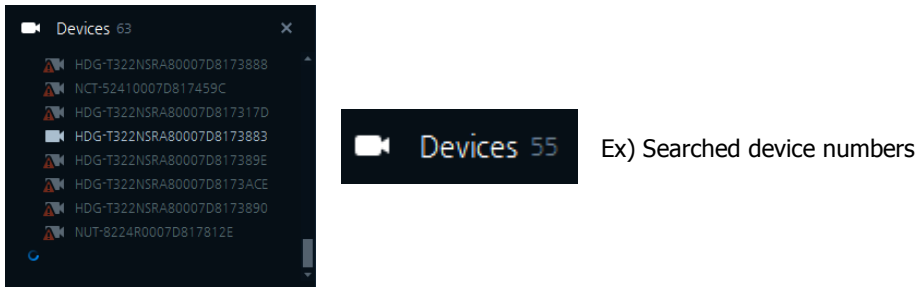
2. After Log-out, Log-in screen will appear as above:

4.2 Smart Discovery




1. Execute  button from the left Side menu to execute the Smart Discovery.



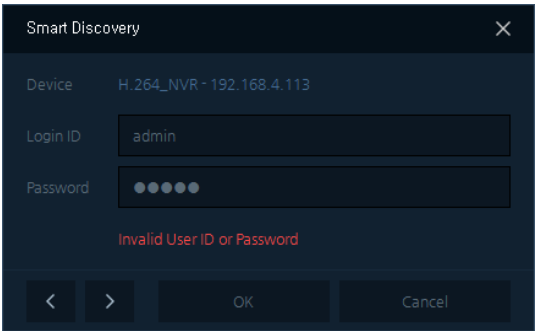
2. Smart Discovery will ask you to enter valid User ID & Password to execute as above:
3. During the Smart Discovery, Execute  button to stop discovering.



4. After Smart Discovery, Searched Device will be displayed as below:

		No.	Description
 HDG-T322NSRA80007D8173888		1	Device connection failure
 NVX-4306R0007D818A746		2	Device log-in failure
 NVX-2253R0007D8181A74		3	Device connected

5. Confirm the network connection, IP setup or Valid User ID&PW for Failure devices.
6. Searched Device Lists automatically saved in the system and go to “Titanium 2 Set up in System Menu” for the detailed information.



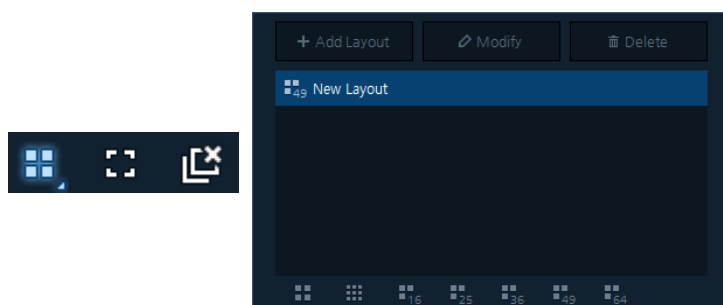
Note

- If you enter invalid User ID & PW, warning message will be shown as above:
 - All the Devices must connect through the network to run the Smart Discovery.
 - Smart Discovery may discover limited Onvif Devices
-

4.3 User Layout

4.3.1 Add Layout

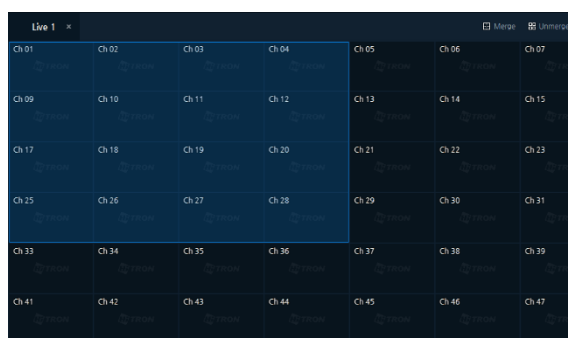
1. Execute "Layout" button at right bottom and Layout configuration Pop-up will appear as below:

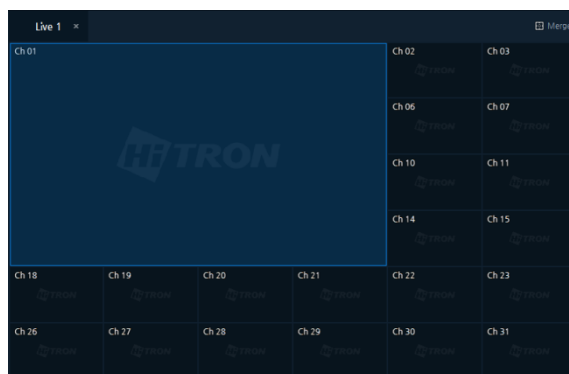


2. Execute "Add Layout" and Layout-edit menu will appear as below:

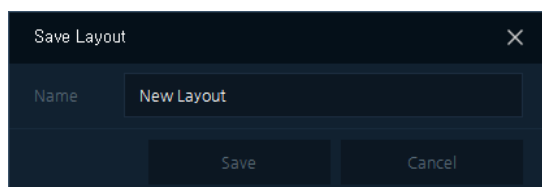


3. Customize the layouts by selecting channels "Merge" or "Unmerge"

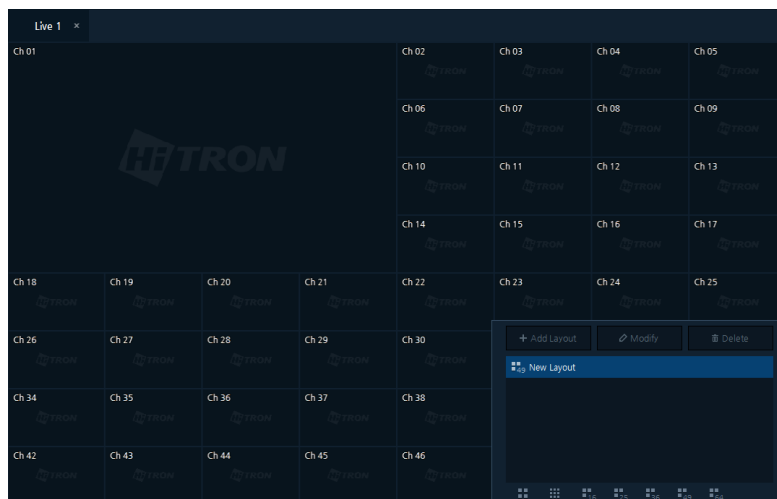




4. Execute "Save Layout" to create the custom layout.



5. Confirm the created example layout as below:



Note ■ Channel Layout Merge support from Up, Down, Left, Right and continuous.

4.3.2 Modify Layout

1. Select the layout to revise and execute "Modify"
2. Custom or Revise the selected layout and Execute "Save Layout"
3. Confirm the revised new layout.

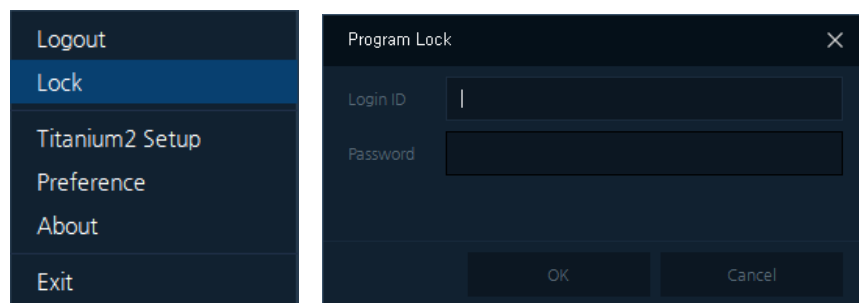
4.3.3 Delete Layout

1. Select the layout to delete and execute "Delete"
2. Confirmation message will Pop-up to delete and execute "ok"
3. Confirm the deleted layout from the lists.

4.4 Lock / Unlock

■ Lock

1. Execute "Lock" menu from "System Menu" and "Program Lock" window will appear.



2. Enter Valid User ID & Password to lock the program.

■ Unlock

1. Execute "Unlock" menu from "System Menu" and "Program Lock" window will appear.



2. Enter Valid User ID & Password to unlock the program.

4.5 Favorite

Favorite function offers customized preference for below items:

Table 4-2 Description of Favorite Menu

No.	Item	Description
1	Live, Playback, Status, Log screen	Save the current setup on the screen * If the tab is separated, it will save current status as on the screen.
2	Channel Assignment	Save the current created channel assign status for each screen.
3	Screen Layouts	Save the created current layout for each screen.

No.	Item	Description
4	Side Menu	Save the Device, Group, Favorite, and Event menu UI status.

Note ■ Favorite setup may not operate properly in case of multi-monitoring system, device connection status.

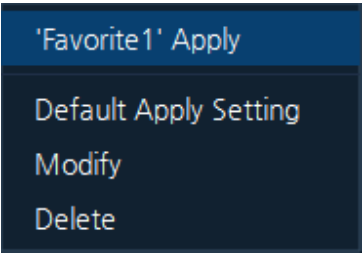
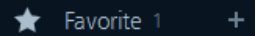


Figure 4-3 Favorite Popup Menu

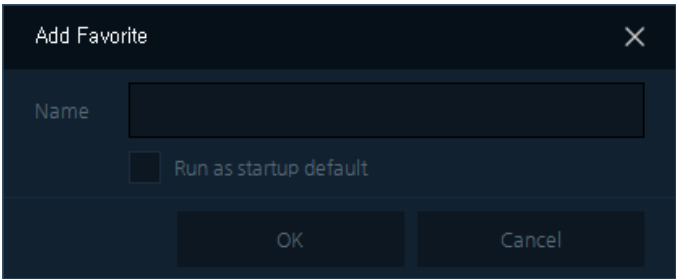
Table 4-3 Description of Favorite Popup Menu

No.	Item	Description
1	Favorite Apply` `	Apply the selected Favorite.
2	Default Apply Setup	Apply the selected Favorite as a default Setup.
3	Modify	Modify the selected Favorite.
4	Delete	Delete the selected Favorite.

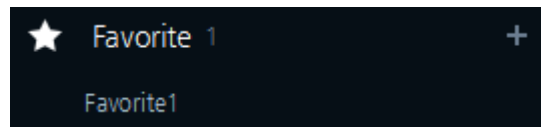
■ Favorite Add

1.  "Favorite" appears when users click "+" button.

Note ■ Check the check box to apply "Run as startup default"
 ■ Selected Favorite will automatically apply when the program starts.

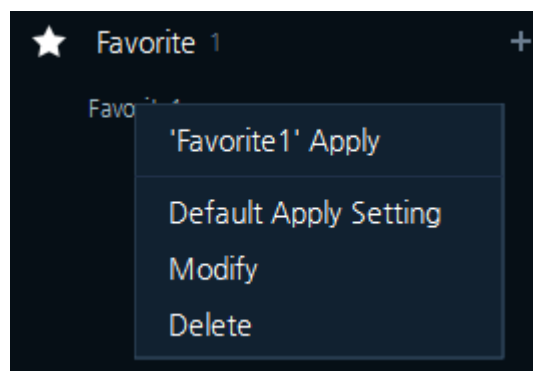


2. Click "Ok" button after Enter the name of Favorite. Favorite will add as below:



■ Favorite Modify

1. Select the created Favorite name, use mouse right button to open the Favorite menu to Modify.
2. Click Ok to finish the favorite Modify.
3. Check the changed items.



■ Favorite Delete

1. Select the created Favorite name, use mouse right button to open the Favorite menu to delete.
2. Click Ok to finish the Favorite Delete.

4.6 Real Time Event Display

Display Real Time Event from connected devices event.

Event		
Name	Event	Date / Time
CAM 2	Motion	2016/11/02 17:52:09
HDG-T322NSRA80007D817388C	Motion	2016/11/02 17:52:09
NCT-52110007D817451F	Motion	2016/11/02 17:52:09

Figure 4-4 Real Time Event

Table 44-4 Items and Description of Real Time Event

No.	Item	Description
1	Name	Display device name
2	Event	Display received event type
2	Date and Time	Display Date and Time of received event

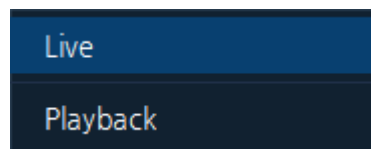


Figure 4-5 Real Time Event Popup Menu

Table 44-5 Description of Real Time Event Popup Menu

No.	Item	Description
1	Live	Execute Real Time Live from event-occurred device
2	Playback	Playback saved data from event-occurred device

■ Live Output

Click “Live” and quick live viewer pop-up will appear as below:

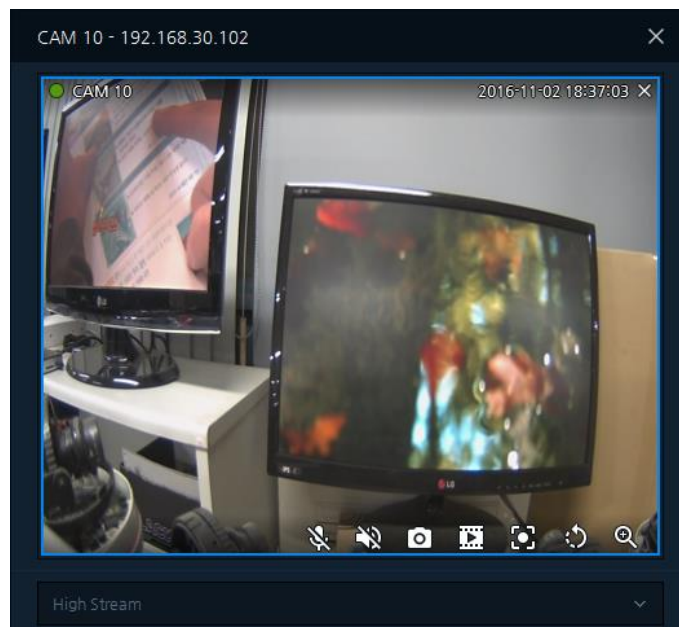


Figure 4-6 Quick Live Viewer

Table 44-6 Description of Quick Live Viewer

No.	Item	Description
1	Live Display	Display Real Time Live
2	High Stream / Low Stream	Select high / low Stream to display

■ Playback Output





Click "Playback" and Quick playback viewer pop-up will appear as below:



Figure 4-7 Quick Playback Viewer

Table 44-7 Description of Quick Playback Viewer Screen

No.	Item	Description
1	Video Clips	Display Quick Playback Viewer Screen
2		Rapid Reverse Playback recorded data
3		Reverse Playback recorded data by steps
4		Play / Pause recorded data
5		Forward Playback recorded data by steps
6		Rapid Forward Playback recorded data

No.	Item	Description
7		Display Playback speed
8		Move Playback Search Time
9		Capture the Screen Shot from Quick Playback Viewer.
10		Search / Move the time from recorded data.

4.7 Setup

In Setup, Device / Users / Event / Backup Setup functions are provided.

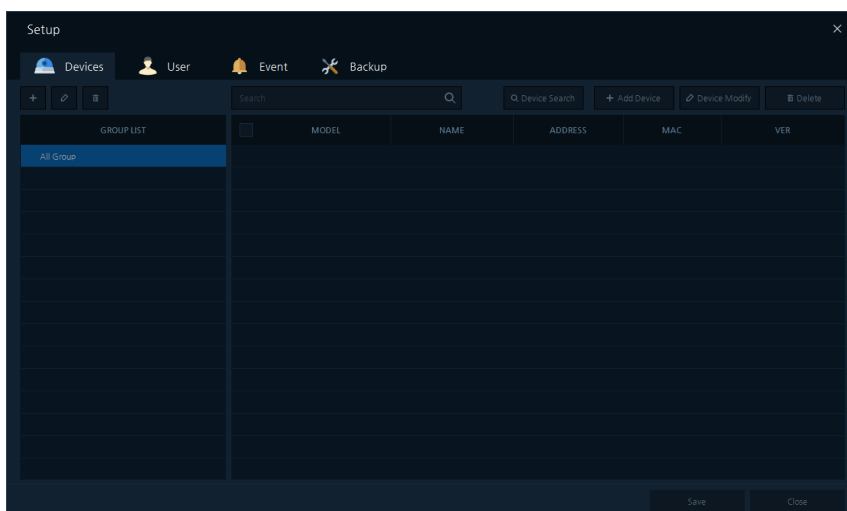


Figure 4-8 Setup

Table 4-8 Description of Setup Menu

No.	Item	Description
1	Device	Setup for Device and Device Group
2	User	Setup for User & User Groups
3	Event	Setup for Event Type
4	Back-up	Back-up / Restore the setup information
5	Save	Save the setup information
6	Exit	Exit the setup process

4.7.1 Device

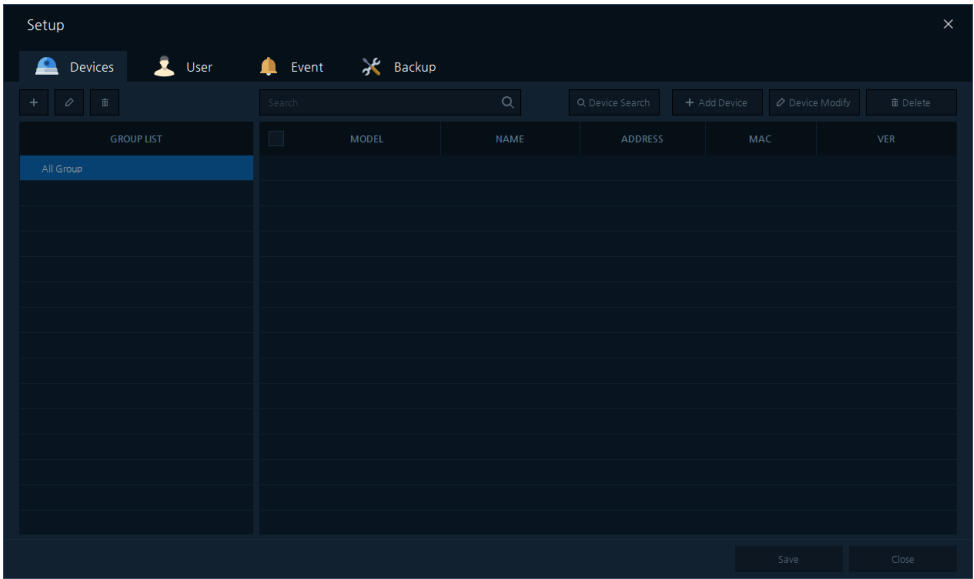





Figure 4-9 Setup – Device

Table 4-9 Description of Setup – Device Menu

No.	Item	Description
1		Add Groups
2		Modify Groups
3		Delete Groups
4	All Groups	Represent all the registered devices
5	Search	Search for entered device name (Device name filter)
6	Device Search	Search for connected devices on the network
7	Add Device	Add devices manually
8	Modify Device	Modify registered device information
9	Delete	Delete registered devices

4.7.1.1 Device Search and Registration

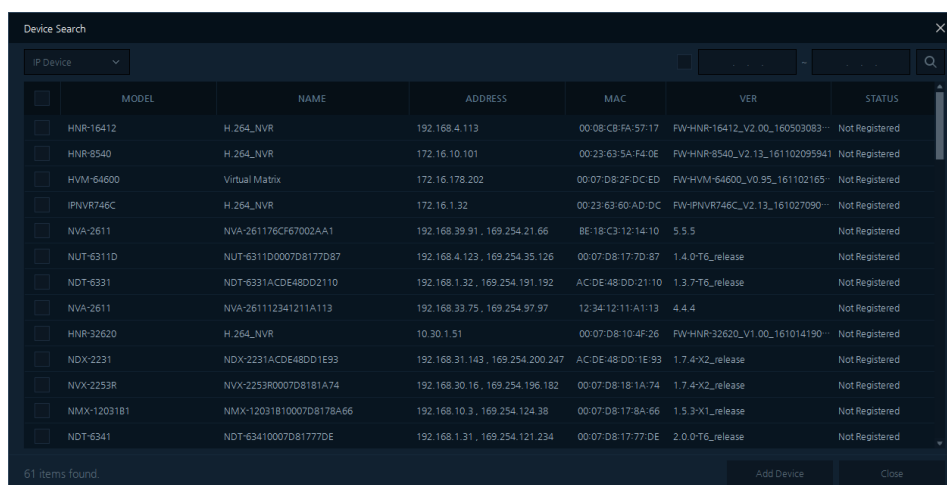

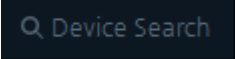


Figure 4-10 Setup – Device Search

Table 4-10 Description of Setup – Device Search Menu

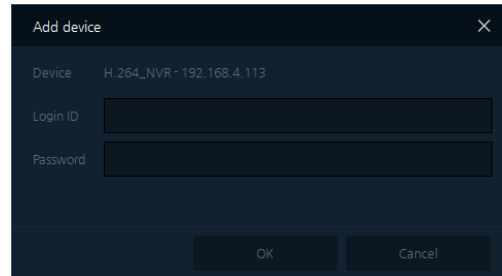
No.	Item	Description
1	Search Protocol	Device Search by IP device or ONVIF device * Search Results may different between IP Device and Onvif Device Search
2	IP Search Filter	Search devices by designated IP range e.g.) 192.168.4.1 ~ 192.168.4.10 = 10 detections
3		Start Device Search
4	Model/Name	Show the device model type / Model name
4	IP ADDRESS/ MAC	Show device IP / MAC address
5	Version	Show device firmware information
6	Status	Show the device status for registration (registered / unregistered) *Registration Device Lists are inactivated.
7	Add Device	Add Devices in the Device Search Lists
8	Exit	Exit Device Search Menu

1. Clicking  button in Device Tab opens Device Search.
2. Select "IP device" or "ONVIF device" and then, press "Search"; devices connected on the network.

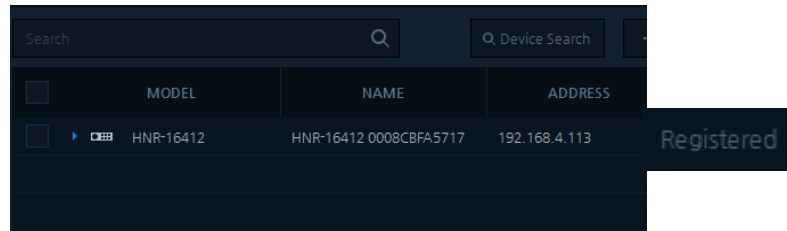
3. Press "Add Device"

(Note: If the Device is already registered as "Registered", it cannot be duplicated)

4. Enter the Device Valid ID / Password and click "Ok".



5. When the device is registered, the message "registered" is presented on the Device Lists. In failure of device registration, user information input screen appears as above again.
6. After the device is registered, Exit the Device Search Menu.
7. Confirm the added devices on the Device Search lists.



	MODEL	NAME	ADDRESS	
<input type="checkbox"/>	HNR-16412	HNR-16412 0008CBFA5717	192.168.4.113	Registered

8. Exit the Setup Menu.

4.7.1.2 Add Device

This section explains how to add devices manually.

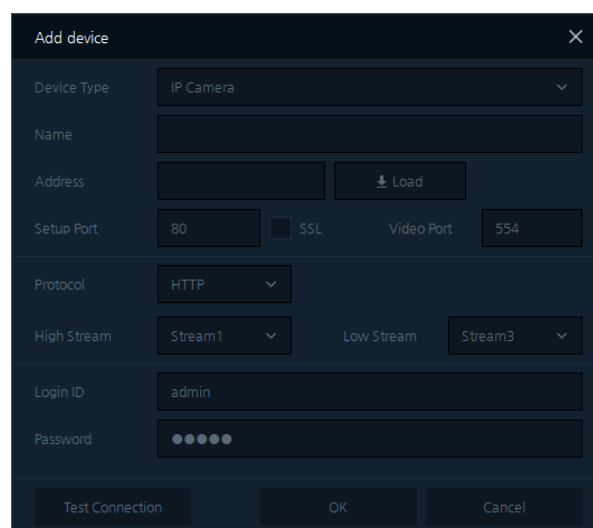

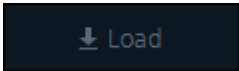


Figure 4-11 Setup – Add Device

Table 4-11 Description for Setup – Add Device Menu

No.	Item	Description
1	Device types	Select the Device Types for Search Option (IP camera/ ONVIF camera/ NVR)
2	Name	Enter the device name
3	Address	Enter the IP address
4	Load	Enter the IP Address to get information automatically from the device on the Network. * Available for connected device on the network
4	Setup Port	Setup the Device web page port
6	Video Port	Setup for the Video Stream Port (Default - camera: 554, NVR : 9350)
8	Protocol	Setup the device Protocol Connect Type * HTTP or TCP protocol are provided.
9	High Stream	Setup the high resolution stream
10	Low Stream	Setup the low resolution stream
11	Channel	Select the Recorder's Max Channel * Channel Section is only available for Recorders.
12	DVRNS use	Select the Checkbox if you want to use DVRNS
13	DVRNS ID	Enter DVRNS ID
14	Log-in ID	Enter device log-in ID
15	Password	Enter device log-in password
16	Connection test	Test the Connection test
17	Ok	Exit after Save
18	Cancel	Cancel the Add Device

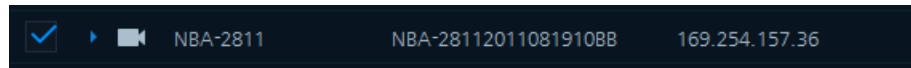
1. Clicking  button opens "Add Device" as above figure.
2. Enter connection information (IP ADDRESS, port) of the devices
3. Clicking  button automatically filled the device information.
4. Enter device ID and password and proceed with "Connection Test".
* Connection Test is not mandatory for registration.
5. If the connection test succeeds, click "Confirmation" to add the device.
6. Confirm added devices are on the Searched listed.

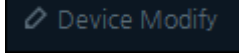
Note

- Unless users select "Load" button, some information may not be presented in the device list such as MAC , firmware version)

4.7.1.3 Device Modify

1. Select the device to Modify as below:



2. Click  button to execute the "Device Modify" Menu.
3. Setup is the same as "Add Device" menu. **(See section 4.7.1.2 Add Device)**
4. Confirm the Modified items on the device lists.


Note

- Allow to change the device type, but device modify allows you one device at a time.
-

4.7.1.4 Delete Device

1. Select the device to delete on the device lists as below:

<input checked="" type="checkbox"/>		NBT-6311	NBT-63110007D817A83C	192.168.4.150	00:07:D8:17:A8:3C
<input checked="" type="checkbox"/>		NBA-2811	NBA-281120110819108B	169.254.157.36	0E:2A:DD:BE:C2:3E

2. Click  button to delete the device in the list.
3. Press "Save" Button and Exit the Setup Menu.

Note

- Allow to delete Multiple Selected devices.
-

4.7.1.5 Add Group


The 'Add Group' dialog box contains the following elements:

- Group:** A dropdown menu currently showing 'Root Group'.
- Name:** An empty text input field for the group name.
- Search:** A text input field with a magnifying glass icon.
- Device List:** A list of devices, each with a checkbox and a unique ID:
 - ☐ HDG-T322NSRA80007D817389D
 - ☐ HDG-T322NSRA80007D8173AE2
 - ☐ HDG-T322NSRA80007D8173AD2
 - ☐ HDG-T322NSRA80007D8173888
 - ☐ HDG-T322NSRA80007D817388C
 - ☐ NUT-4201D-P0007D8170918
 - ☐ HDG-T322NSRA80007D817389E
 - ☐ HVR-4781 0007D8FFFFF0
 - ☐ HNR-16560 0023635AF5C0
- Select Devices list:** An empty list area on the right, intended for devices moved from the left list.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.
- Footer:** A message 'Please select the device you want to add to the group'.

Figure 4-12 Setup – Add Group

Table 4-12 Description of Setup – Add Group Menu

No.	Item	Description
1	Group	Select the Parent Group for New Created Group Devices * "Root Group" means the topmost group.
2	Name	Enter the group name to create
3	Search	Search the designated device on the below device list table
4	All Device Lists	Show all the Device Lists registered
4	Selected Device Lists	Select the Check Box to move device to Select Device List under created Group and Name
6	Ok	Save information entered and Exit the program
7	Cancel	Cancel Add Group

1. Click  button to open "Add Group" screen as above:
2. Select the "Group" to choose the Parent Group for selected devices on the lists.
3. Enter the "Name".
4. Select the device from the lists, the Selected Devices will be added automatically under your new created group.

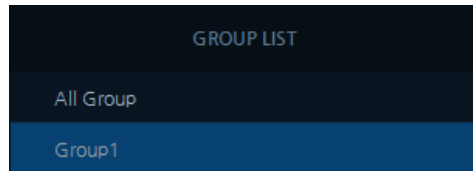
This screenshot shows the 'Select Devices list' area with the following items:


- ☒ NBT-63110007D817A83C
- ☒ NBA-28112011081910BB
- ☒ NBA-28112011081910BB

5. Confirm as "Ok" button, then exit.

4.7.1.6 Modify Group

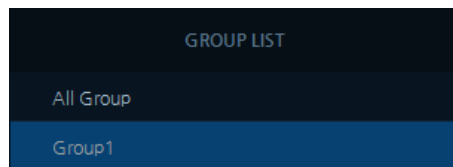
1. Select the device to Modify as below.




2. Clicking  button to open the "Modify Group" Menu.
3. Setup is the same as "Add Group" Menu. (**See section 4.7.1.5 Add Group**)
4. Confirm the Modified information on the group list.

4.7.1.7 Delete Group

1. Select the Group Name to delete from the Group Lists.



2. Click  button to delete the selected Groups in the list.
3. Save Setup and Exit.

Note

- - If the Parent Group is deleted, sub group will be automatically deleted.
-

4.7.2 Users

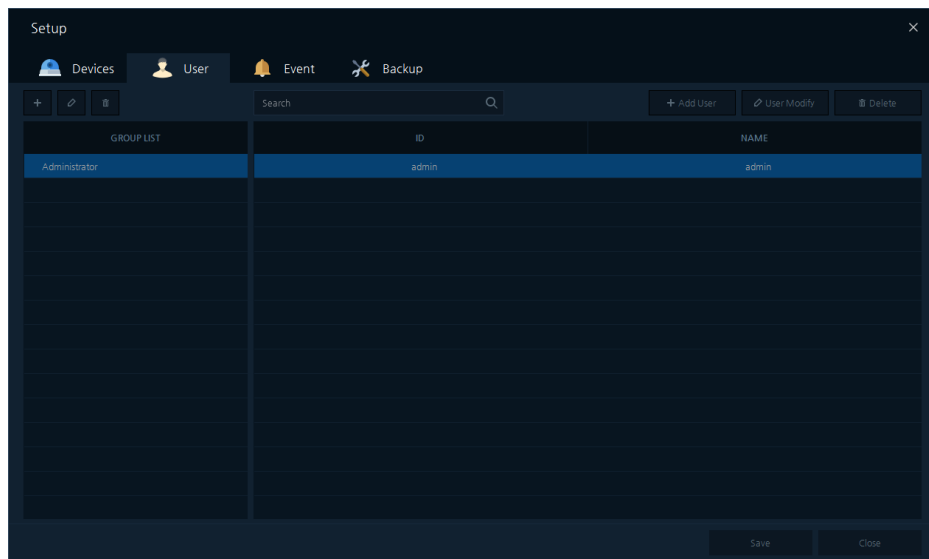





Figure 4-13 Setup – User

Table 4-13 Description of Setup – User Menu

No.	Item	Description
1		Add the User Group.
2		Modify the User Group.
3		Delete the User Group.
4	"Administrator"	Default as Administrator Group * (Note: Users are not allow to modify or to delete the Administrator.)
4	Search	Search the designated Group Name on the below name table
5	Add User	Add User
6	User Modify	Modify the registered user information
7	Delete	Delete the registered user information

4.7.2.1 Add User

■ Add User

Add User

Name

Device

Device Group

Favorite

Authority

Group

Administrator

Name

Login ID

Password

Confirm

OK

Cancel

Figure 4-14 Setup – Add User

Table 4-14 Description of Add User Menu

No.	Item	Description
1	Name	Enter the user information (name, ID, and password)
2	Device	Select the device under the User Name
3	Device Group	Select the user Group
4	Favorite	Select the user device Favorite
5	Authority	Setup the Selected User Group Function Control Authority

■ Add User – Name

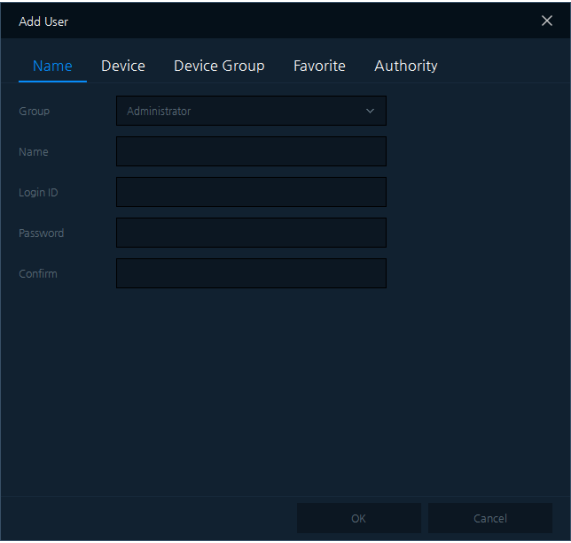


Figure 4-15 Add User – Name

Table 4-15 Description of Add User – Name Menu

No.	Item	Description
1	Group	Select the User Group Default is as "Administrator" who has full Authority.
2	Name	Enter the user name
3	Log-in ID	Enter the user ID
4	Password	Enter the user password
5	Password Confirmation	Re-Enter the user password to confirm.

■ Add User – Device

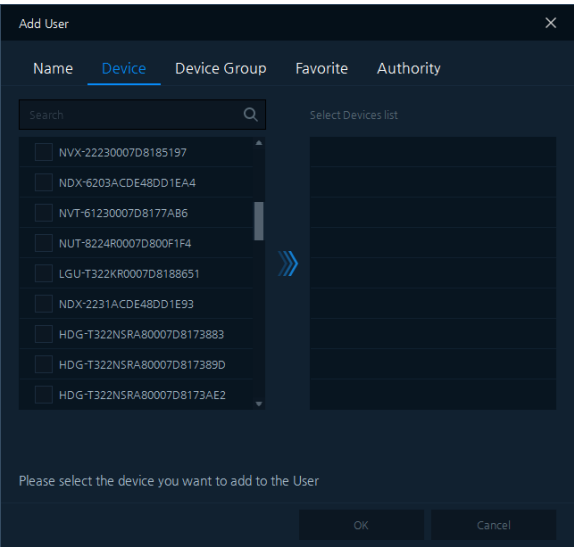


Figure 4-16 Add User – Device

Table 4-16 Description of Add User – Device Menu

No.	Item	Description
1	Search	Show all the Device Lists on the network to Search
2	All Device Lists	Show all the registered device lists
3	Selected Device Lists	Show Selected Device Lists under User Name

■ Add User – Device Group

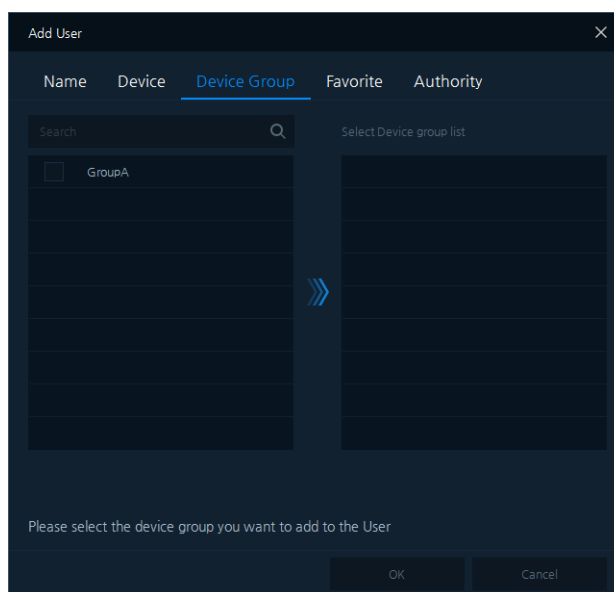


Figure 4-17 Add User – Device Group

Table 4-17 Description of Add User – Device Group Menu

No.	Item	Description
1	Search	Display all group lists related to Groups users want to Search
2	All Device Lists	Display all group lists registered
3	Selected Device Lists	Group lists allowable to new users

■ Add User – Favorite

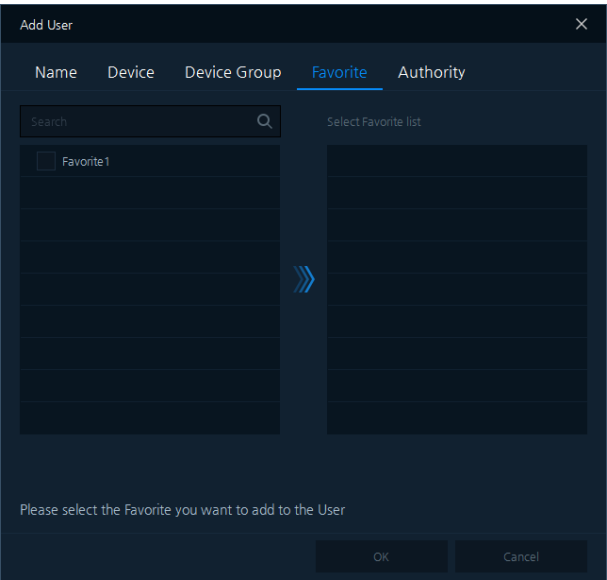


Figure 4-18 Add User – Favorite

Table 4-18 Description of Add User – Favorite Menu

No.	Item	Description
1	Search	Display all Favorite lists to Search
2	All Device Lists	Display all registered Favorite lists
3	Selected Device Lists	Display Selected Favorite name apply to new created user group

■ Add User – Authority

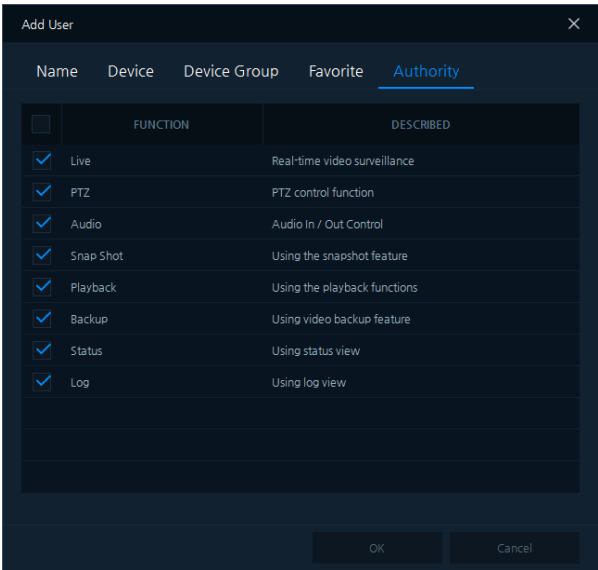
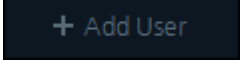


Figure 4-19 Add User – Authority

Table 4-19 Description of Add User – Authority Menu

No.	Item	Description
1	Live	Setup for Live Authority
2	PTZ	Setup for PTZ Authority
3	Audio	Setup for Audio Authority
4	Snapshot	Set Up for Snapshot Authority
5	Playback	Setup for Playback Authority
6	Back-up	Setup for Back-up Authority
7	Status	Setup for Status Authority
8	Log	Setup for Log Authority

1. Click  button to open "Add User" as above figure
2. Select the "Name" tab (**Table 4-15 Items and Description of Add User – Name**)
3. Select the "Device" tab (**Table 4-16 Items and Description of Add User – Device**)
4. Select the "Device Group" (**Table 4-17 Items and Description of Add User – Device Group**)
5. Select the "Favorite" (**Table 4-18 Items and Description of Add User – Favorite**)
6. Select the "Authority" (**Table 4-19 Items and Description of Add User – Authority**)
7. After Finished setup, press "Ok" to add users.
8. Confirm the Added User on the lists.

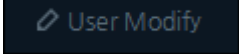
Note

- Log-in ID Cannot be duplicated.
 - Make sure not to forget your ID and password.
-

4.7.2.2 User Modify

1. Select the user to Modify as below.

ID
admin
User

- Click  button to open "User Modify" screen.
- Setup is the same as "Add User" item. **(See the section of 4.7.2.1 Add User)**
- \Confirm the modified User Information.


Note

- One User is allow to modify at a time
 - "Administrator" cannot be modified as a default.
 -
-

4.7.2.3 Delete User

- Select the user to delete as below:

ID
admin
User

- Click  button to delete the selected users in the list.
- Save and Exit the menu.

4.7.2.4 Add User Group

Add User Group

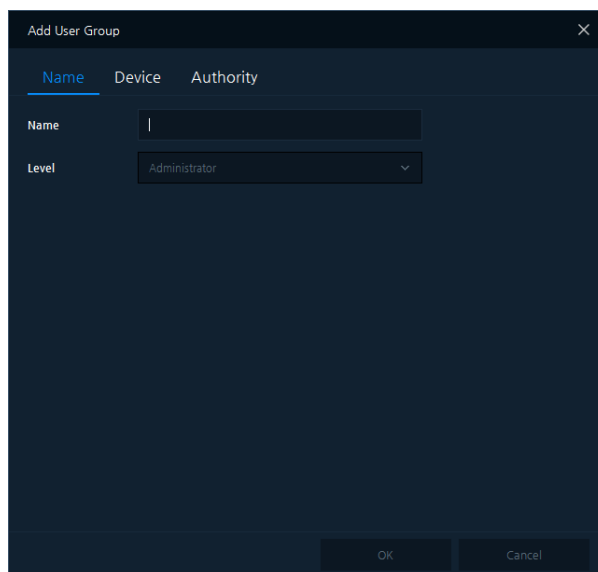



Figure 4-20 Setup – Add User Group

Table 4-20 Description of Add User Group Menu

No.	Item	Description
1	Name	Enter the User Group information (name, level)
2	Device	Setup the Device Authority for selected User Groups
3	Authority	Setup the for Function Control Authority for selected User Groups

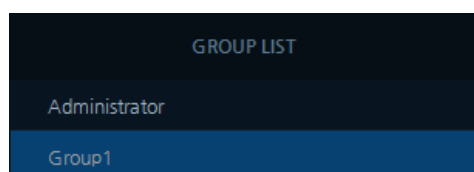
Note

- As for User Group Authority, the function is restricted based on user levels
 - * Administrator: Full authority of function control
 - * User: Limited Authority as viewer related function control

1. Click  button to display “Add User Group screen” as above figure
2. Select the “Name” tab **(Table 4-15 Items and Description of Add User – Name)**
3. Select the “Device” tab **(Table 4-16 Items and Description of Add User – Device)**
4. Select the “Authority” **(Table 4-19 Items and Description of Add User – Authority)**
5. After Finished setup, press “Ok” to add user group.
6. Confirm the Added User Group on the lists.

4.7.2.5 User Modify Group

1. Select the Group Name to Modify on the lists as below:

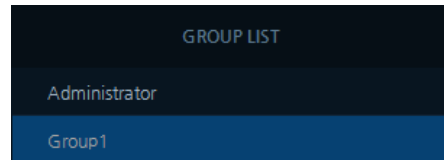



2. Click  button to open “Modify Group”.

3. Setup is the same as "Add User Group". (**See the section of 4.7.2.4 Add User Group**)
4. Confirm the modified information on the selected User GROUP.

4.7.2.6 Delete User Group

1. Select the group name to delete on the lists as below.



2. Click  button to delete the selected group on the lists.
3. Save and Exit the menu.

4.7.3 Event

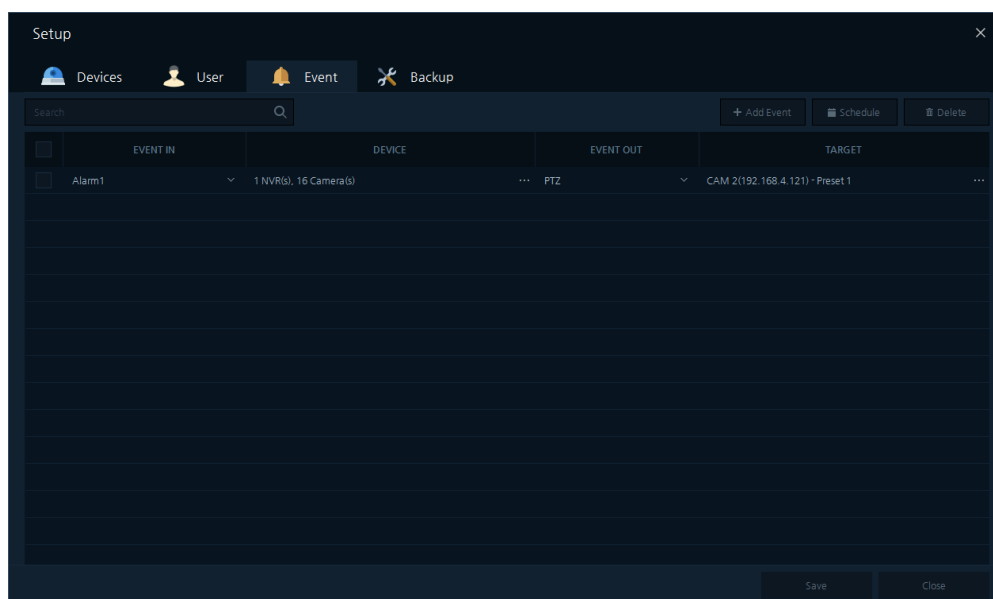


Figure 4-21 Setup – Event

Table 4-21 Description of Setup – Event Menu

No.	Item	Description
1	Device Search Filter	Search for the related Event List
2	Add Event	Add the Event type & Setup
3	Schedule	Setup the Event schedule Setup
4	Delete	Delete registered Event type & Setup
5	Add Event Type	Select received Event Type
6	Device	Select devices for received Event * Devices can be multi-selected at the same time.
7	Event Spot	Select the output action occurred in the device Add Event * It may different based on the device function and performance.
8	Event Spot Device	Setup the device target to Event Spot

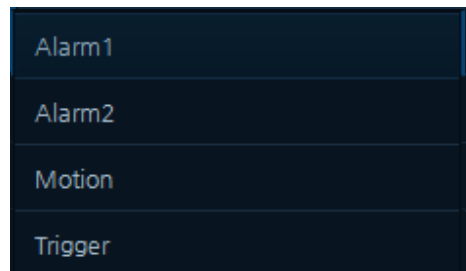
4.7.3.1 Add Event

1. Click **+ Add Event** button to add event type as below:

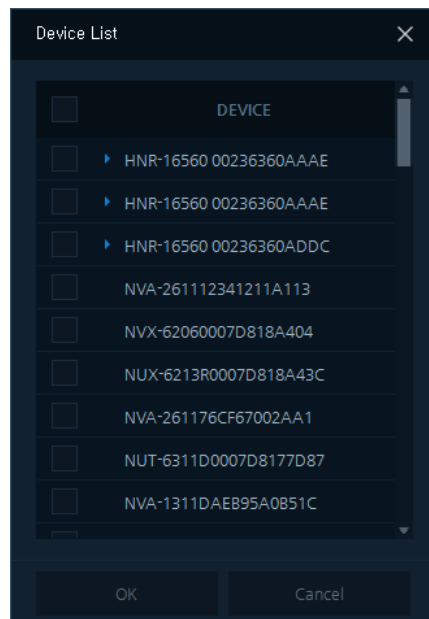
<input type="checkbox"/>	EVENT IN	DEVICE	
<input type="checkbox"/>	Alarm1	NVA-261112341211A113(169.254.97.97)	... PTZ

- Click **Alarm1** button.

Users can choose event-in type from the lists as below:



2. Click **...** button to select Event-in Device from the Lists as below:





3. Select the devices you want. Multiple Selection lists will be shown as below:

1 NVR(s), 17 Camera(s)

4. Click **Event Spot** button as Event-Out for selected Target Device Action.



Table 4-22 Description of Event-out Lists


No.	Item	Description
1	PTZ	PTZ Event-out for selected PTZ camera Preset Preset = Setup the Preset number as event-out action.
2	Pop-up	Pop-up Event-out for selected regular camera. Dwell Time: Event Pop-up time after event occurs. Monitor: Event Pop-up display to connected monitors.
3	Event Spot	* Event spot operates on the "Live screen" only.
4	Trigger	Trigger Event-out for selected Device trigger setup
5	Sound	TITANIUM 1 = Titanium Basic Sound User mode = Select the custom sound from your computer or device  = Select sound files from your computer or device (*.wav file format support)  = Play the Selected files

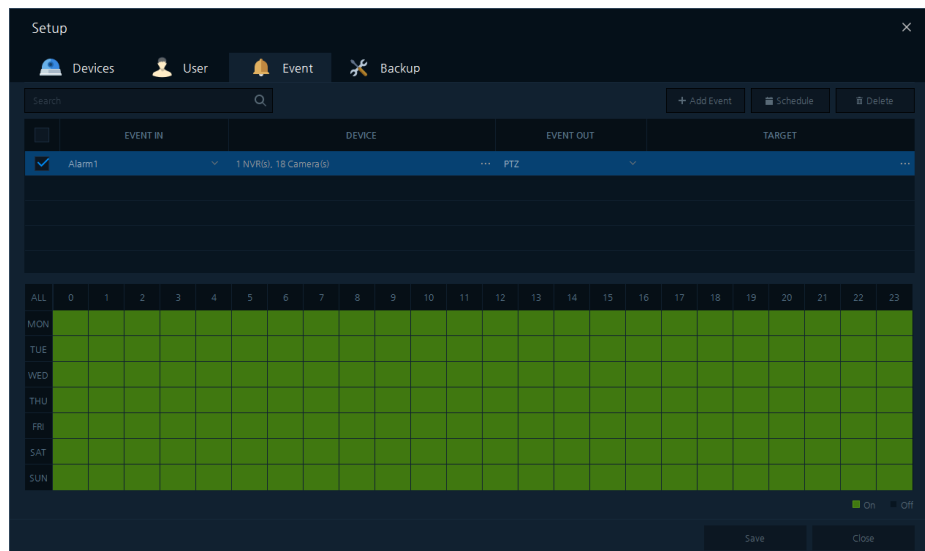
5. Confirm the Event-in & Event-out setup after Save.

Note

- Event may not be provided depending on device models
- Trigger is available for only camera device.

4.7.3.2 Event Schedule

1. Click "Add Event" button to add events.
2. After Select devices, click  **Schedule** button. Schedule table appears as below:



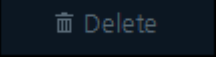
■ = Event operation, ■ = Not operated event

3. Setup the Schedule by clicking or dragging by mouse device.
4. Confirm the event schedule after Save.

4.7.3.3 Delete Event

1. Select the event to delete on the event list.



2. In Event Tab, Click  button to delete items in the event list.
3. Confirm the deleted event after Save.

4.7.4 Backup

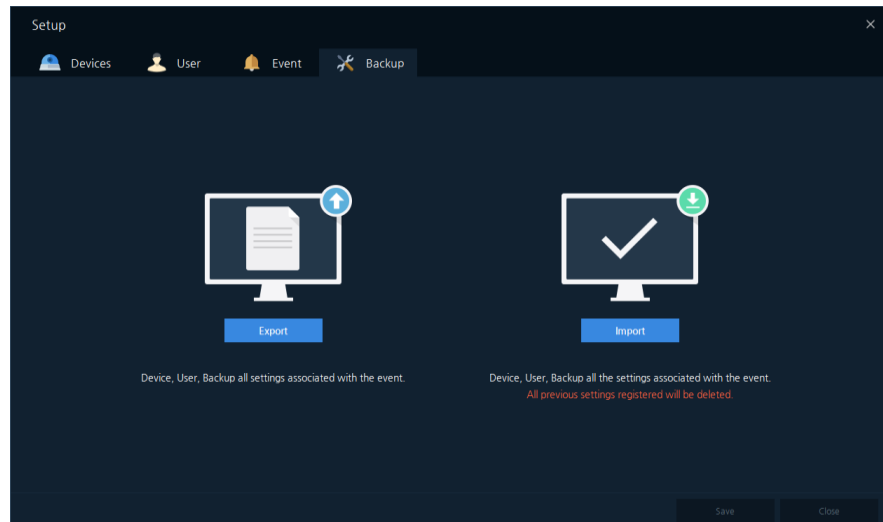



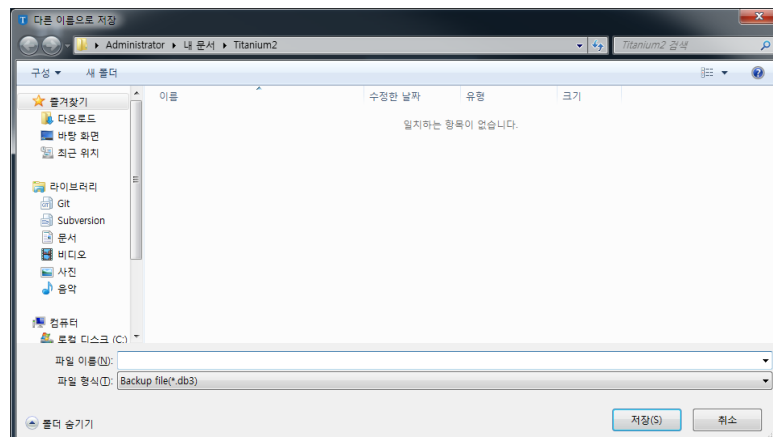
Figure 4-23 Setup – Backup

Table 4-23 Description of Setup – Backup Menu

No.	Item	Description
1	Export	Export to Backup all Setup information as .db3 file.
2	Import	Import to Restore .db3 file Backup information. * Existing Setup Data will be deleted after Import.

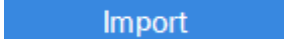
4.7.4.1 Export

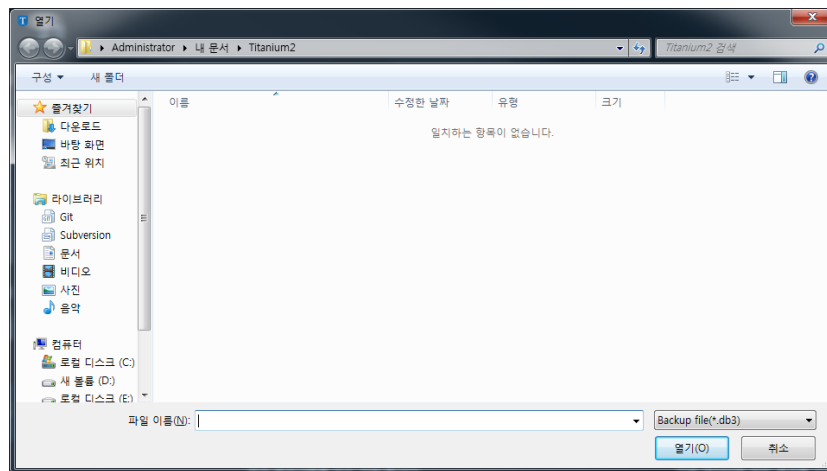
1. Click  button to show “File save explorer” as below figure.



2. Select the location to save Setup file as .db3 file
3. Enter the Setup file name and press “Save” button.
4. Confirm the Setup file saved in the designated location.

4.7.4.2 Import

1. Click  button to open the file explorer as below:



2. Select the Setup file as .db3 file and press "Open" button.
3. Restart the program.
4. Confirm the Import Setup file successfully loaded.

4.8 Preference

Click "Preference" menu in the "System Menu".

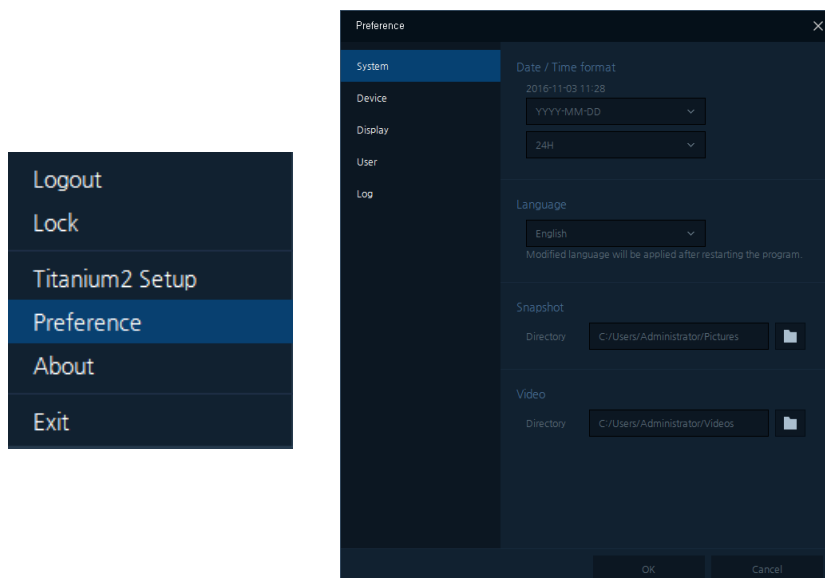


Figure 4-24 Configuration

4.8.1 System

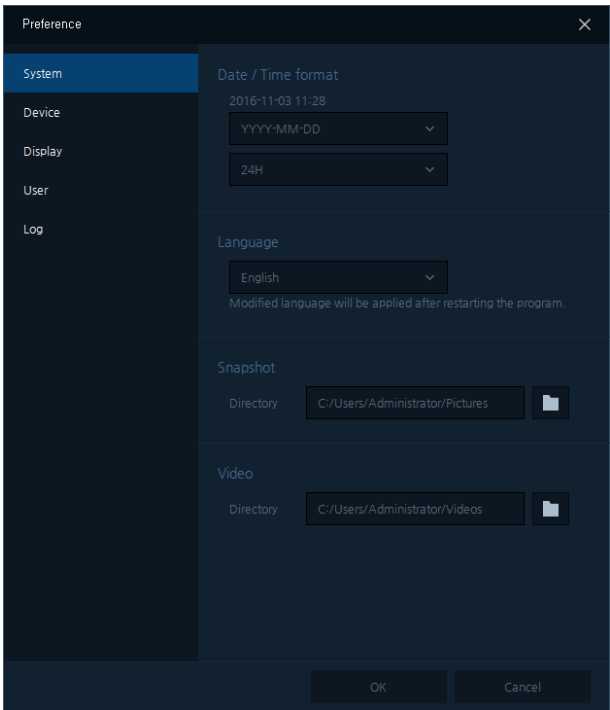


Figure 4-25 Configuration – System

Table 4-25 Description of System Preference–

No.	Item	Description
1	Date and Time format	Select the Date and Time format for the program "YYYY" = year(2016), "MM" = month(09) , "DD" = day(07) "24H" = 24 time format(19-hour), "12(AM/PM)" = 12 time format (7 p.m.)
2	Language	Select the program language * Language change applies after Re-start the system.
3	Snapshot	Select the snapshot Folder
4	Video	Select the video backup Folder

4.8.2 Device

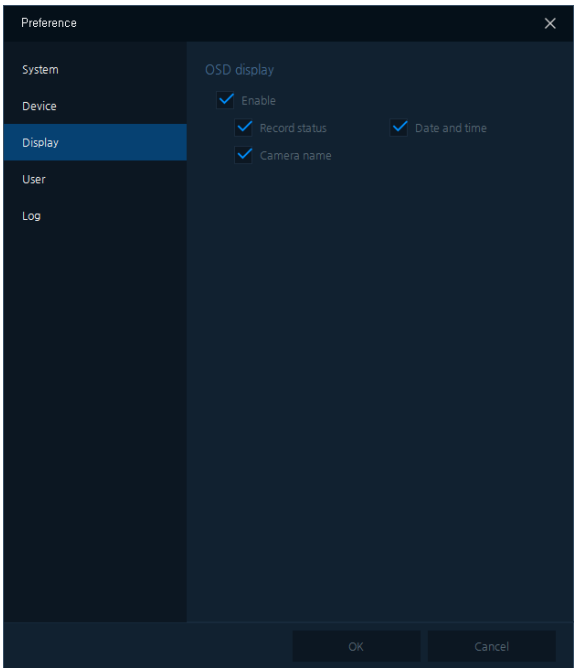


Figure 4-26 Configuration – Device

Table 4-26 Description of Device Preference

No.	Item	Description
1	Status Check	Select the Device Status by time.
2	Multiple Stream Set	Setup the Live stream Setup the stream automatically by Sequence Setup the High Stream = Live stream as high resolution Setup the Low Stream = Live stream as low resolution *In case of multiple device connection, auto-stream is recommended.

4.8.3 Display

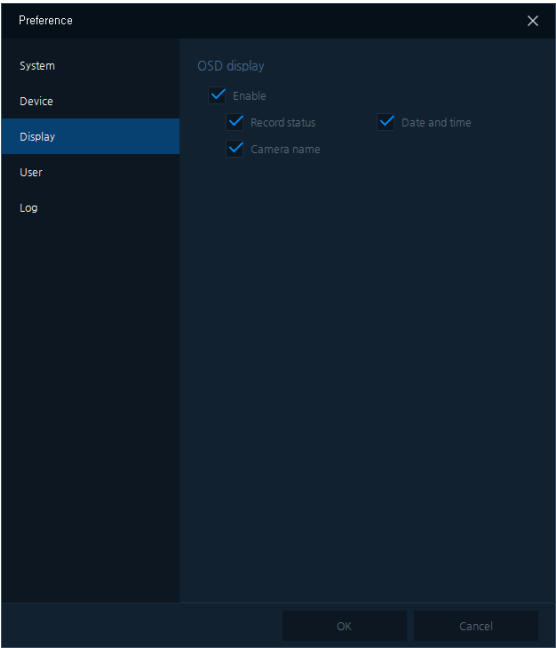


Figure 4-27 Screen Preference

Table 4-27 Description of Screen Preference

No.	Item	Description
1	OSD Screen	Setup the OSD Display Enable / Disable = Display On / Display Off Record status = Display On / Display Off Date and Time = Display On / Display Off Camera name = Display On / Display Off

4.8.4 User

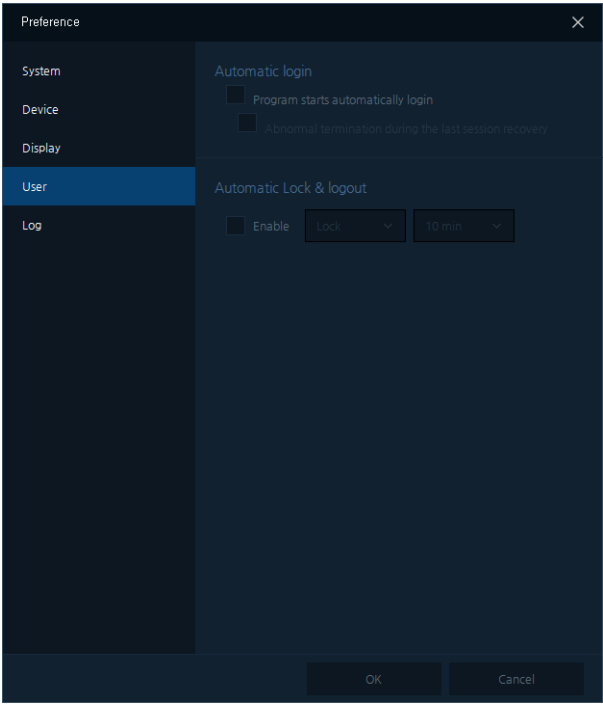


Figure 4-28 User Preference

Table 4-28 Description of User Preference

No.	Item	Description
1	Automatic Log-in	Enable / Disable automatic log-in / logout
2	Automatic Lock & Logout	Enable / Disable automatic lock and automatic logout Enable = Enable / Disable mode. Lock / Logout = Select Lock / Logout Time = Setup time for automatic Lock / Logout e.g.) Lock, 10 min. = If the user does not do anything within 10 minutes, System will be automatically Locked.

4.8.5 Log

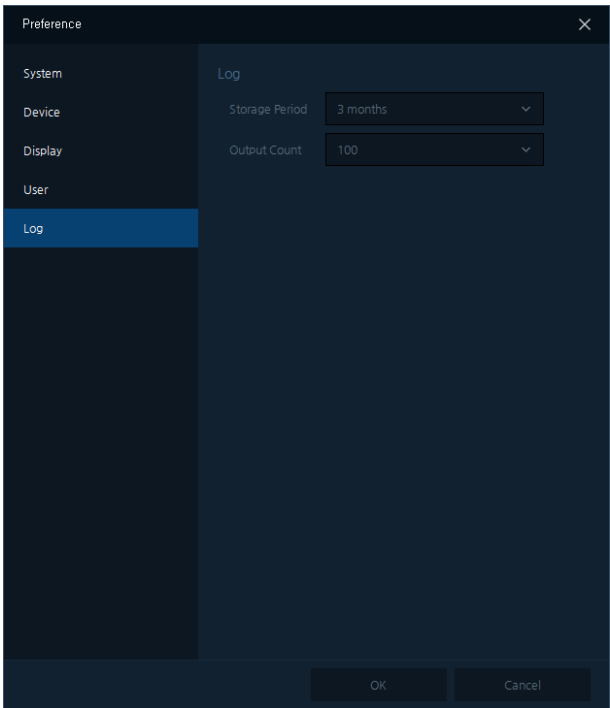


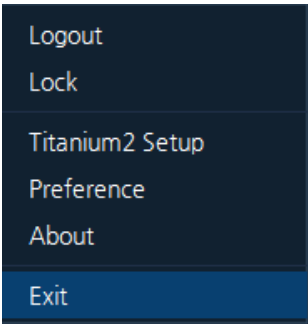
Figure 4-29 Log Preference


Table 4-29 Description of Log Preference

No.	Item	Description
1	Log	Setup the minimum period of time for Storage Period. Setup the number of Log Display

4.9 Exit

- Click "Exit" menu in "System Menu" Exit the program.



- Click  button of the Title Bar "Exit" the program.

5. Live Screen

Note

The Live Screen provides four screens at maximum, each Live Screen displays Max. 64 channels.

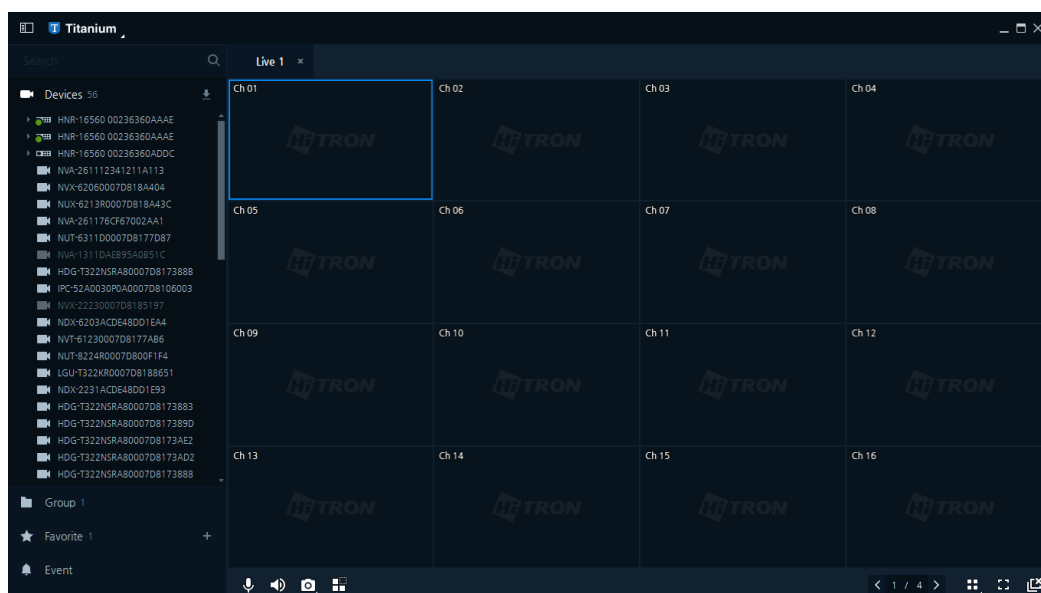


Figure 5-1 Live



Figure 5-2 Live Toolbar

Table 5-2 Description of Live Toolbar Menu









No.	Item	Description
1		Setup the microphone volume (1~100)
2		Setup the audio volume (1~100)
3		Capture Screen Shot on the current Live Screen as an image file.
4		Select the Channel on the Live Screen and Setup for the event spot function
5		Move the Live Display screen page
6		Setup the layout on the Live Display Screen
7		Convert to the Full screen mode
8		Disconnect all the devices connected on the Live Display screen



Figure 5-3 Live OSD Display

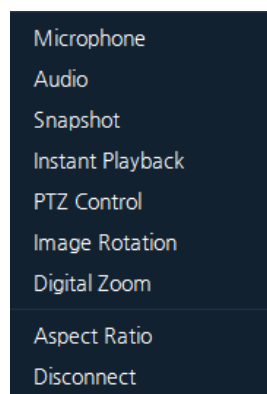












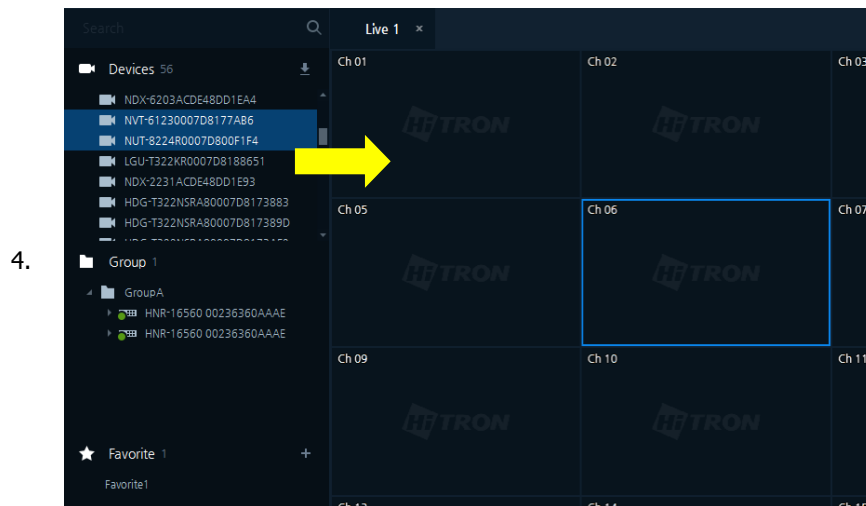
Figure 5-4 Live Pop-up Menu

Table 5-3 Description of Live Function Menu

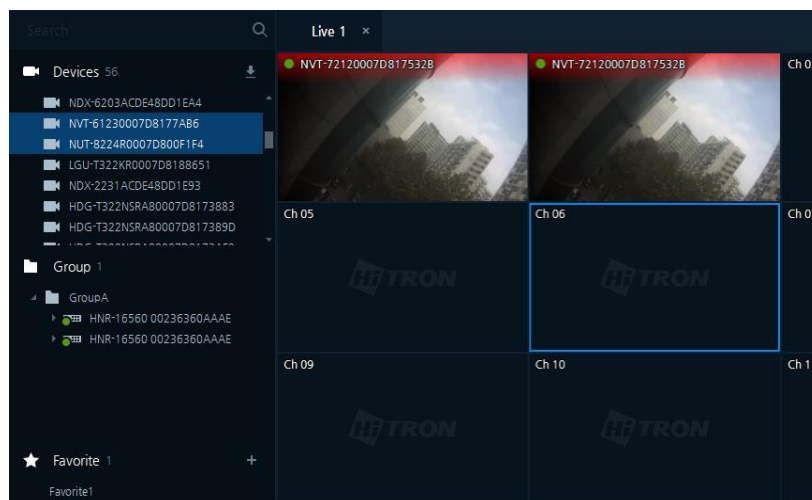
No.	Item	Description
1	 	Microphone Microphone On / Off
2	 	Audio Audio On / Off
3		Snapshot Capture Screen Shot on the current Live Screen as an image file.
4		Instant Playback Execute the selected channel instant playback
5		PTZ Control Execute PTZ Control Menu
6		Image Spinning Rotate the Live Display Screen images
7		Digital Zoom Magnify the Live Display Image
8		Aspect Ratio Aspect Ratio On / Off
9		Disconnection Disconnect the device connection

5.1 Live Video

1. Select the Live Tabs (Among Live 1 to Live 4 screen)
2. Select the devices from the device Lists or the group lists.
3. Drag and drop selected Devices to the Live Display Screen.



5. Connected devices Display Live Screen.



5.2 PTZ Control

PTZ Control Menu is available on the Live Display Screen.

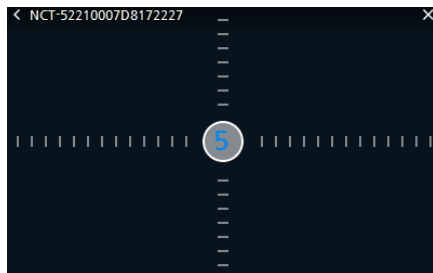
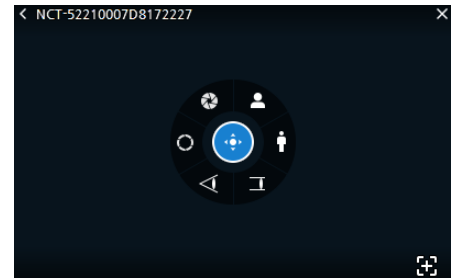













Figure 5-5 PTZ

Figure 5-6 PAN/TILT

Table 5-5 Description of PTZ Control Menu

No.	Item	Description
1		Execute the PAN / TILT function Move the mouse cursor starting from the middle to apply PAN/TILT function by Speed Step "Figure 5-6".
2		Close the IRIS
3		Open the IRS
4		Adjust the focus (near).
5		Adjust the focus (far).
6		Zoom-out the object.
7		Zoom-in the object.
8		Execute the Smart Focus as Auto-Focus
9		Locate on the top-left of screen, Exit the PTZ Control Menu.

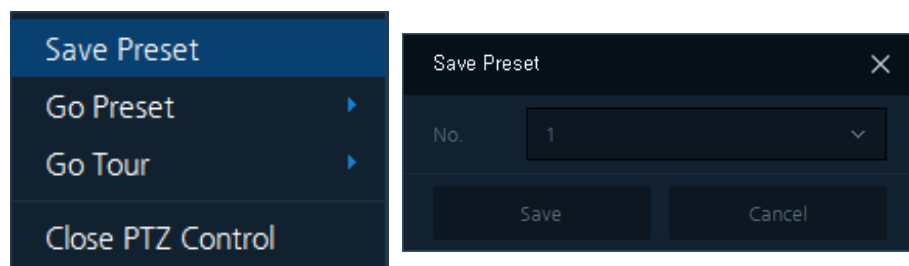
■ PTZ control

1. Click  Button to execute PTZ Control Menu Shortcut
2. Execute the PTZ Control Menu. (See "Table 5-5 PTZ Items and Description")
3. , Click  button located in the left above screen to Exit the PTZ Control Menu.

■ Save Preset

1. With PTZ function, move the camera in the position for Preset to be designated.
2. On PTZ Control Menu screen, Click the mouse right button to open the PTZ Preset Pop-up as below:

■ Select "Save Preset".



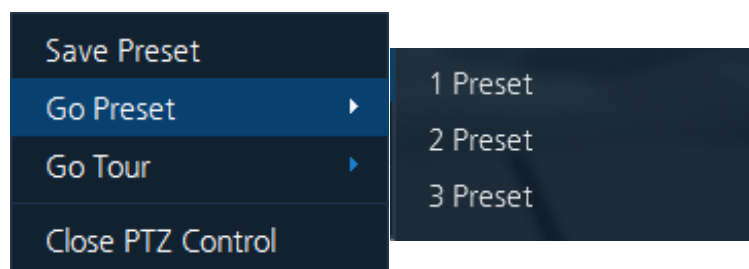
3. After Select the Preset number and click "Save" button to save created preset.

Note

1. Preset is available up to 256.
2. Due to protocol or Onvif Protocol support, it may not work perfectly.

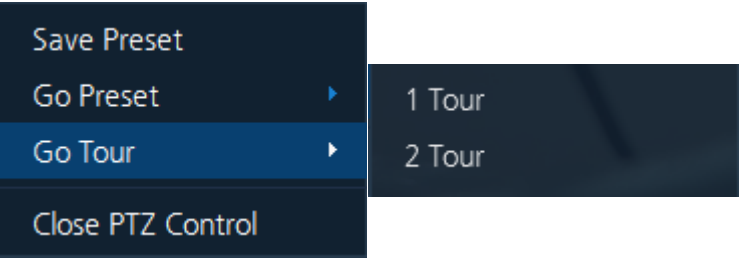
■ Go Preset

- On PTZ Control Menu screen, Click Mouse Right Button to show Preset Pop-up Menu as below: Select "Go Preset" – "Preset number 1, 2, or 3".




PTZ Camera goes to selected Preset.

- Go Tour
 1. On PTZ Control Menu screen, click the mouse right button to show PTZ Pop-up as below:
- Select "Go Tour" – "Tour number 1 or 2".



2. PTZ Camera goes to selected Tour.



 **Remark** After PTZ Control Setup, make sure to exit the PTZ Control menu.








5.3 Instant Playback





Figure 5-7 Instant Playback

Table 5-7 Description of Instant Playback

No.	Item	Description
1	Video	Display Instant Playback Screen
2		Rapid Reverse Playback the recorded data.
3		Reverse Playback the recorded data by step.

No.	Item	Description
4		Play / Pause the recorded data
5		Forward Playback the recorded data by step.
6		Rapid Playback the recorded data.
7		Display for the Playback speed
8		Move Playback Search Time.
9		Capture Screen Shot on the current Live Screen as an image file.
10		Search / Move the recorded data time sections

1. Click  in the below Live Display I screen. "Instant Playback" menu appears.
2. Refer to "**Table 5-7 Items and Description of Instant Playback**", to operate the menu.
3. After Instant Playback, click  button in the left above to exit the menu.

5.4 Image Rotation

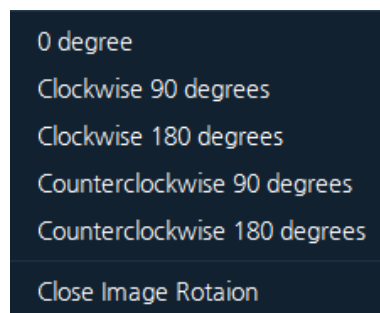
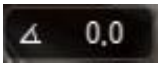





Figure 5-8 5.4 Image Rotation Figure

5-9 Image Rotation Pop-up Menu

Table 5-8 Description of Image Rotation Menu

No.	Item	Description
1		Display Current Image Rotation angle
2		Rotate the image by moving the scrollbar * Rotation ranges from -180° to 180°.
3	Clockwise 90 degrees	Select the clockwise 90°
4	Clockwise 180 degrees	Select the clockwise 180°
5	Counterclockwise 90	Select the counterclockwise 90°

No.	Item	Description
	degrees	
6	Counterclockwise 180 degrees	Select the counterclockwise 180°
7	Close Image Rotation	Exit the Image Rotation menu

1. Click  button below, Live Display screen for the image rotation shortcut menu.
2. Refer to "**Table 5-8 Description of Image Rotation**" and rotate the image.
3. Click  button in the left above channel to exit the rotation menu.

5.5 Digital Zoom



Figure 5-10 Digital Zoom

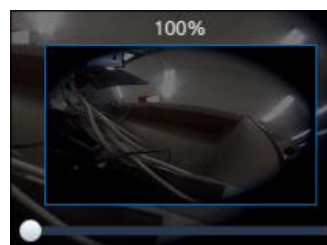

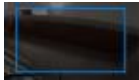





Figure 5-11 PIP


Table 5-10 Description of Digital Zoom Menu

No.	Item	Description
1		Select the video Zoom-in ratio.
2	100 %	Show the current video Zoom ratio.
3		Move zoom images with dragging the mouse * In 100% of zoom ratio, the image is not working as starting point.
4		Exit Digital Zoom Menu.

1. Click  in the below Live Display screen to open the digital zoom menu.
2. Refer to "**Table 5-10 Description of Digital Zoom**", to operate.
3. Click  button in the left above channel to exit the Digital Zoom Menu.

5.6 Event Spot

1. Select the empty Live Display screen.
2. In the Setup screen, add the event. (**See 4.7.3.1 Add Event**)

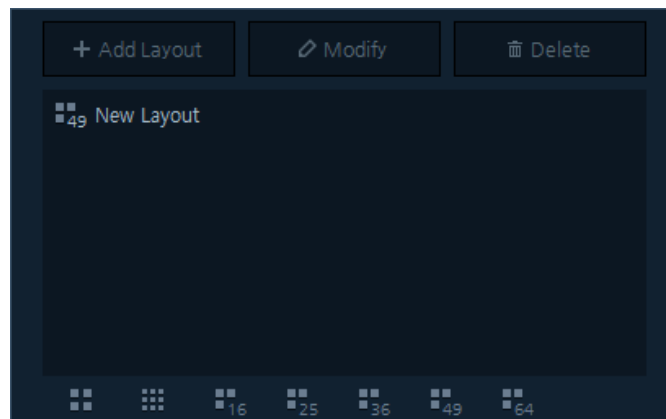
- Click  button in "Live Toolbar" displays activated areas as below:



- When Event Occurs, Event spot will operate per user event setup.

5.7 Layout Change



- Click  in "Figure 5-2 Live Toolbar" to display the layout screen as below:



- Select the layout from the listed layouts as above:
- Customize the User Layout, see "4.3 User Layout" item.

5.8 Two Way Audio


Two way Audio communication on Live is available for connected device.

- Install the microphone in the PC where Titanium installed.
- After installing the speaker in the connected device, setup the audio function.
- Click   in the below Live Display screen to activate the microphone and the audio.
- Confirm the microphone works with the device speaker.

Note	<ol style="list-style-type: none">Two Way Audio function may not be provided depending on the device and PC. It is recommended to be sure and not install a microphone and a speaker that may interfere each other.
-------------	---

5.9 Snapshot

Users can capture the image and save in the live status.

1. Click  button in the below Live Display screen. The file explorer appears to save the screenshot as an image file.
2. Select a save route and file format to save captured image files. Press the "Save" button to save the image.

6. Playback Screen

Note Playback provides Max. 32 channels. One Device playback at a time.

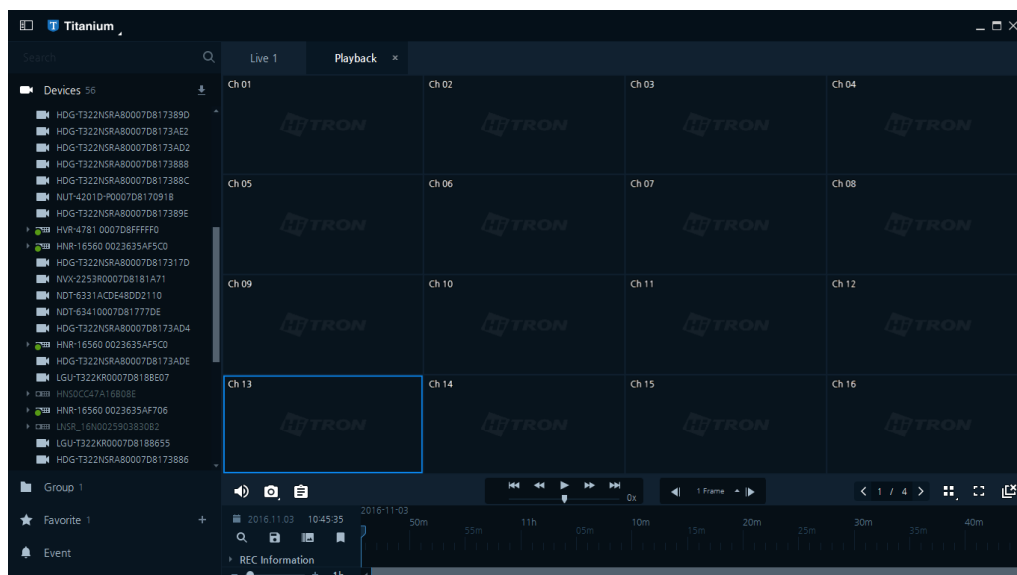


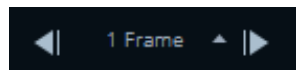
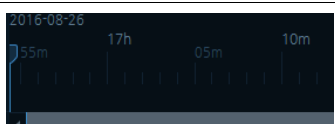
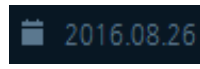






Figure 6-1 Playback

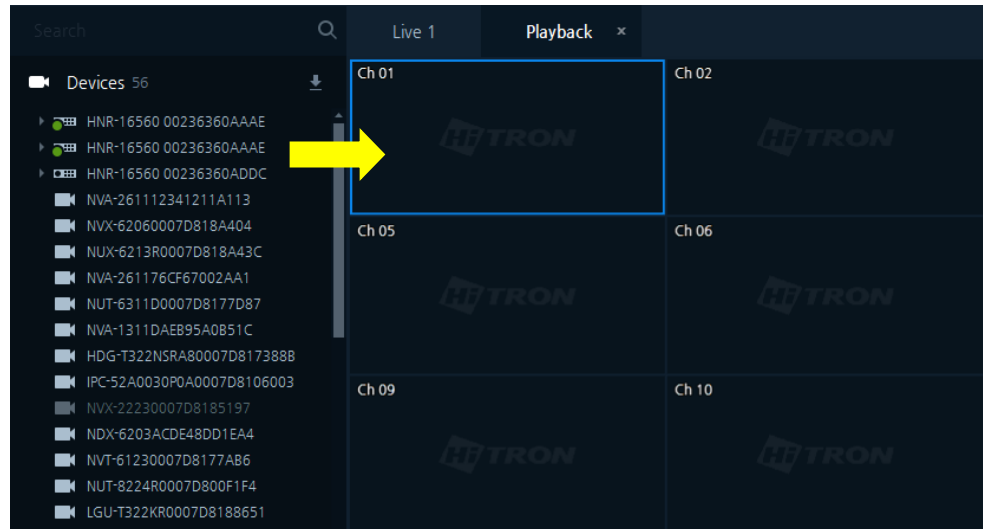
Table 6-1 Description of Playback Menu

No.	Item	Description
1		Check the backup progress status
2		Playback Control Menu
3		Set the frame movement unit
4		Time Search Bar , available to check the recorded data status by time bar and calendar date.
5		Calendar Search
6		Event Search function
7		Save the video/audio file backup
8		Add Thumbnail on the time Search Bar
9		Save the bookmark

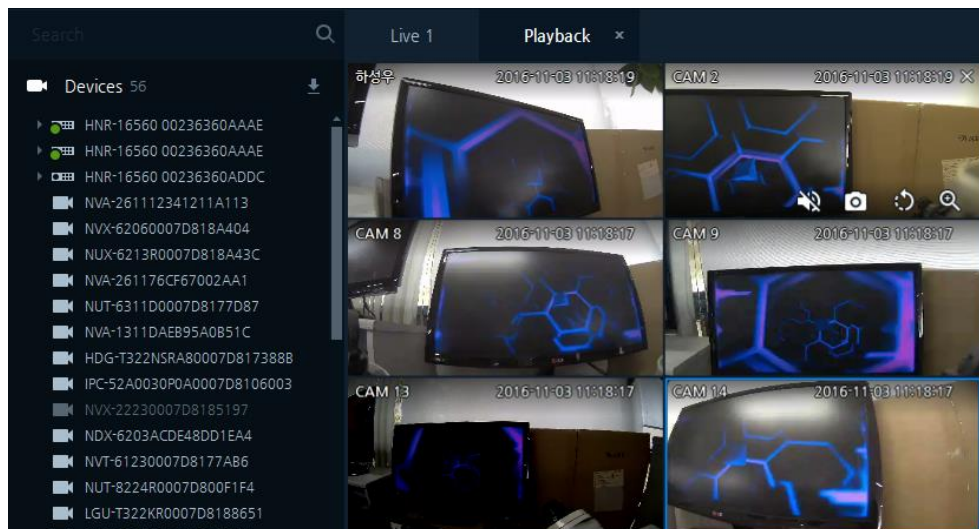
6.1 Playback

1. Select the Playback Tab
2. Select the device to play in the Group and Device Lists.
3. Drag and drop the selected Device from the list to move for Playback.

4.



5. In connected devices, recorded data are displayed on the screen.



6.2 Date, Time Search

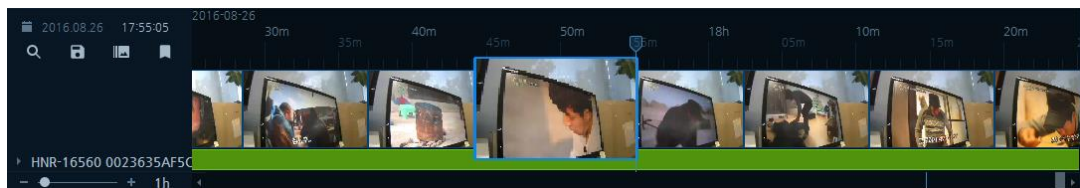

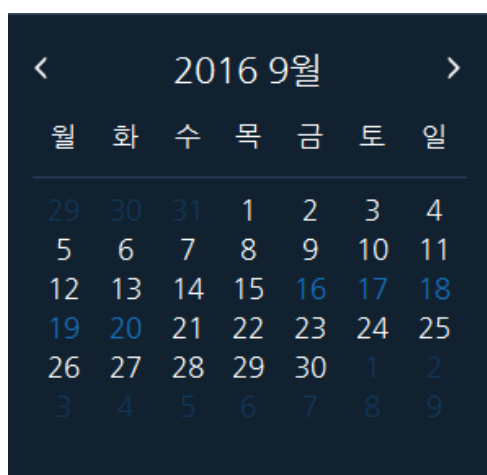



Figure 6-2 Time Search Bar

1. After opening the Playback tab, locate the device to Search from the device lists by dragging and dropping into the Playback Screen.
2. Select the date to Search by clicking  2016.08.26 button.



No.	Description
1	Blue = Available recorded data. White = No recorded data.

Figure 6-3 Calendar Search

3. Click  button. Preview (Thumbnail) images related to the recorded data will be displayed.
4. In the time Search Bar, move the time bar where you want to search.

Note

1. The Thumbnail Search may not be provided depending on device types.
2. Camera does not support the Thumbnail function.
3. As for Thumbnail Search, if there are no recorded data in the section, the video image is not displayed.
4. Based on network status or device status, Search and Playback time may be delayed.
5. Execute Search function, one device search at a time. , only one device may search at the same time.





5. User can have flexibility of moving recorded data table by Playback Control Menu



6.3 Playback Control



Figure 6-4 Playback Control

Table 6-4 Description of Playback Control Menu.

No.	Item	Description
1		Move to the First Recorded time.
2		Rapid Reverse Playback the recorded data
3		Play / Pause the recorded data
4		Rapid Forward Playback the recorded data

No.	Item	Description
5		Move to the last recorded time
6		Adjust the Playback speed (-x5 ~ x5)

6.4 Event Search

Click  button, then Event Search screen display as below:

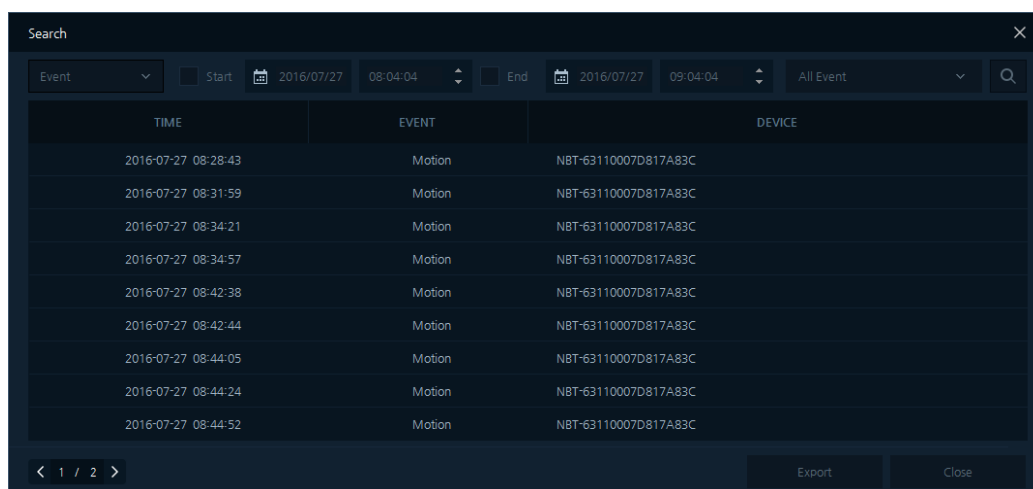
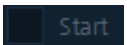
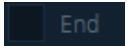



Figure 6-5 Event Search

Table 6-6 Description of Event Search Menu

No.	Item	Description
1	Event	Select the "Event" from the lists shown
2	Start	Search the Start Date and Time * Click  button, the date is automatically selected as the first recorded time; date selection will be disable.
3	End	Search the End Date and Time * Click  button, the date is automatically selected as the last recorded time; date selection will be disable.
4	All Event	Select the event types * Event types = Alarm, Motion, Video Loss, Network Loss, VCA, Tampering, etc....
5		Start the Event Search
6	Export	Save the event as a .csv file format

1. After execute the Event Search, click the Search button. The event list appears as below: **(See Table 6-6 Description of Event Search)**

TIME	EVENT	DEVICE
2016-07-27 08:28:43	Motion	NBT-63110007D817A83C
2016-07-27 08:31:59	Motion	NBT-63110007D817A83C
2016-07-27 08:34:21	Motion	NBT-63110007D817A83C

2. In the Event List, double-click time to search. The Time Search Bar moves to the selected event time.
3. Confirm the recorded data by using the Playback Control.

6.5 Bookmark Search

Click  button to display the Event Search screen.

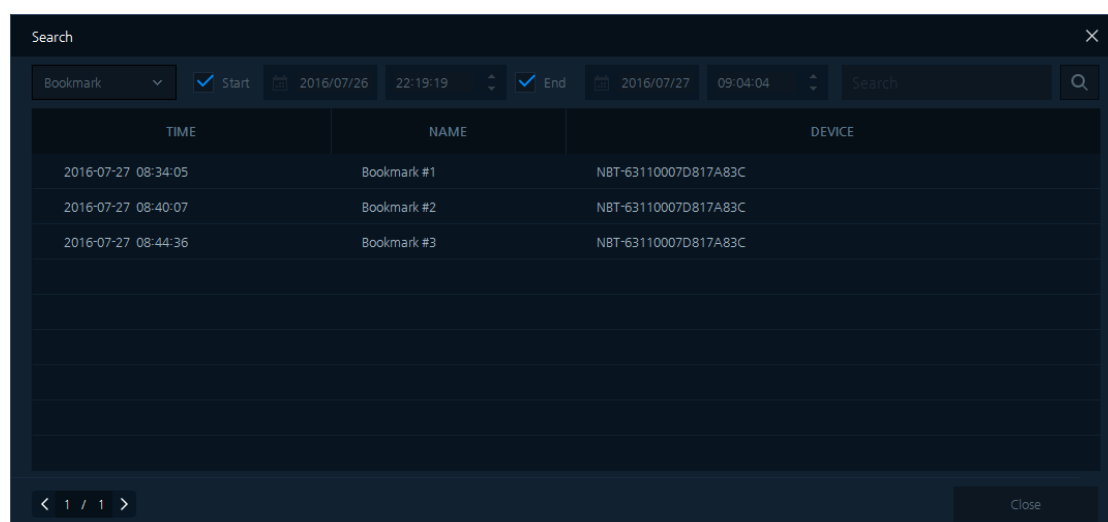
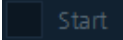
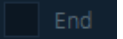



Figure 6-7 Bookmark Search

Table 6-7 Description of Bookmark Search Menu

No.	Item	Description
1	Bookmark	Select "bookmark" from the search types.
2	Start	Select the search start date and time * Click  button, the date is automatically selected as the first recorded time; date selection will be disable.
3	End	Select the search end date and time * Click  button, the date is automatically selected as the last recorded time; date selection will be disable.
4	All event	Select event types * Event types = Alarm, Motion, Video Loss, Network Loss, VCA, Tampering, etc.
5		Start the Event Search
6	Export	Save the event as a .csv file format

TIME	EVENT	DEVICE
2016-07-27 08:28:43	Motion	NBT-63110007D817A83C
2016-07-27 08:31:59	Motion	NBT-63110007D817A83C
2016-07-27 08:34:21	Motion	NBT-63110007D817A83C

1. After the Bookmark Search, click "Search" button. The event list appears as below: **(See Table 6-7 Description of Bookmark Search)**

TIME	NAME	DEVICE
2016-07-27 08:34:05	Bookmark #1	NBT-63110007D817A83C
2016-07-27 08:40:07	Bookmark #2	NBT-63110007D817A83C
2016-07-27 08:44:36	Bookmark #3	NBT-63110007D817A83C

2. In the bookmark list, double-click time to search. The Time Search Bar moves to the selected bookmark time.
3. Confirm the recorded data by using the Playback Control.

6.6 Backup Export

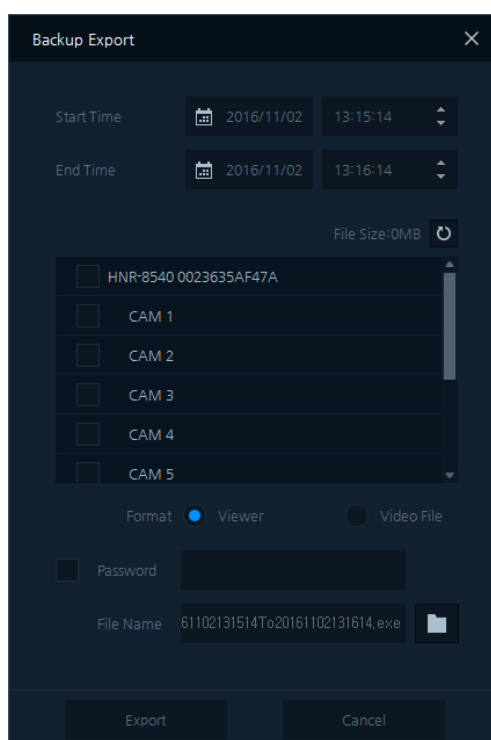



Figure 6-8 Backup Export

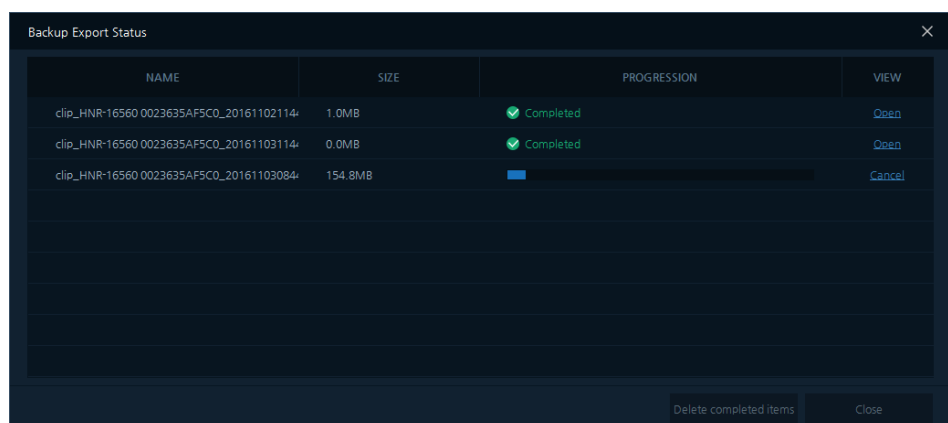
Table 6-8 Description of Backup Export Menu

No.	Item	Description
1	Start time	Select the backup start date and time * Date and Time cannot exceed the device recorded data time table.
2	End time	Select the backup end date and time * Date and Time cannot exceed the device recorded data time table.
3	File Size	Show the expected backup file size.

No.	Item	Description
4	Device Lists	Select the channels to backup * Channels can be duplicated.
5	Format	Select the backup file format (*.exe , *.mp4) * .exe file format is only for clip Viewer file format. * .mp4 file format save the one file per each channel.
6	Password	Enable to setup the password for backup file playback * A password is not applied to .mp4 file format
7	File route	Select the route to be located the backup files
8	Export	Start the backup
9	Cancel	5Cancel the backup


■ Backup Export

1. Click  in the below Playback Screen. "Backup Export" screen appears.
2. Refer to "Description of Backup Export Menu".
3. Click "Export" button to start the backup. "Backup Export Status" screen displays as below:



NAME	SIZE	PROGRESSION	VIEW
clip_HNR-16560 0023635AF5C0_20161102114	1.0MB	✓ Completed	Open
clip_HNR-16560 0023635AF5C0_20161103114	0.0MB	✓ Completed	Open
clip_HNR-16560 0023635AF5C0_20161103084	154.8MB	<div></div>	Cancel

Delete completed items Close

4. After complete the backup as  **Completed**, click [Open](#) to check the saved backup files.
5. Click [Cancel](#) button during the backup, the process will be canceled and deleted the backup data.

Note 32 channel devices do not support *.exe file format.

■ Backup File (.exe file format) Playback


1. After Backup, go to saved location, then double-click the file. Clip Viewer will play the backup file. .
2. Users can play recorded data by using the Clip Viewer.

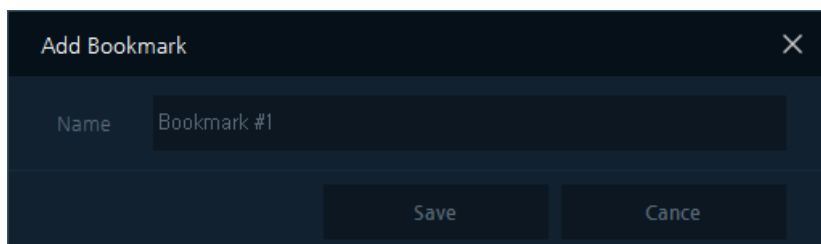
Note *.exe file format will be played on Clip Viewer Player.

■ Backup file (.mp4 file format) Playback

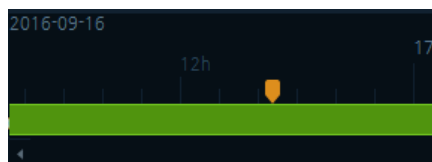
1. Make sure you have proper media player to support .mp4 file format.
2. After Backup, go to saved location then, double-click the file. Chosen Media Player will play the backup file.
3. Users can play recorded data using the media player.

6.7 Add Bookmark

1. Select from the Search time to save in Bookmark Bar.
2. Click  button in the below Playback Screen; "Add Bookmark" screen appears as below:



3. After enter the bookmark name, press "Save" button to add the bookmark in the time Search Bar as below:



4. With the bookmark Search, users can have flexibility of playing the saved Search time. (**See 6.5 Bookmark Search**).

7. Status Screen

7.1 Status Display

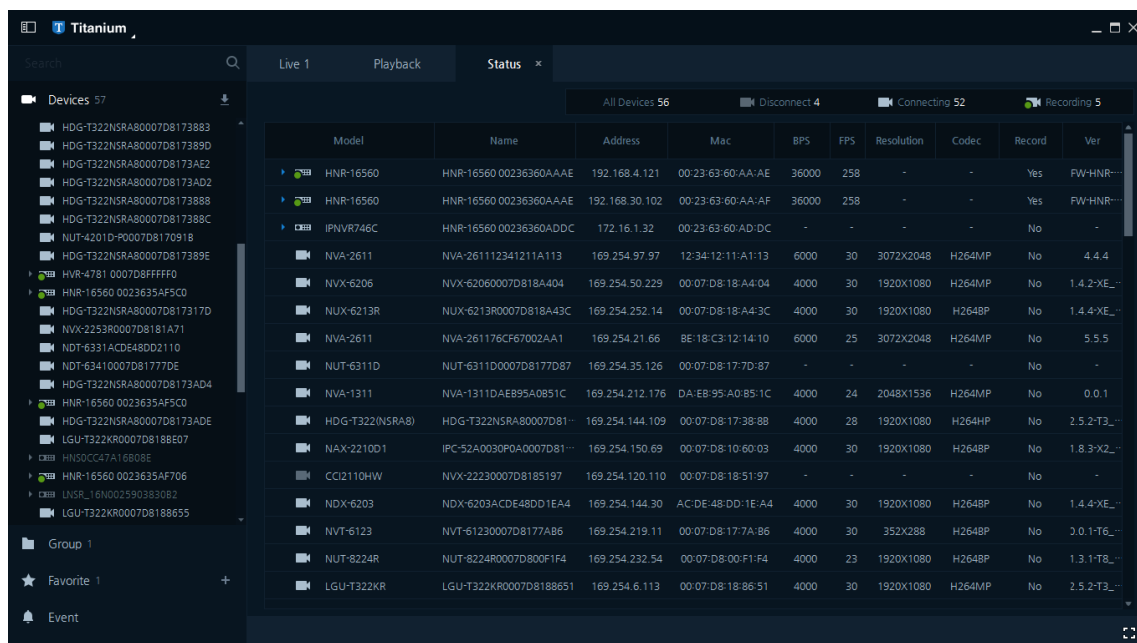


Figure 7-1 Status

Table 7-1 Description of Status Display

No.	Item	Description
1	All Devices	Display the registered device quantities
2	Disconnect	Display the unregistered device quantities
3	Connecting	Display the connected device quantities
4	Recording	Display the device quantities recording in process
5	Model	Display the device model names
6	Name	Display the device names
7	Address	Display the device IP address
8	MAC	Display the device MAC address
9	BPS	Display the device BPS
10	FPS	Display the device FPS
11	Resolution	Display the device resolution
12	Codec	Display the device video codec
13	Recording status	Display the recording status of the device
14	Version	Display the firmware version

8. Log Screen

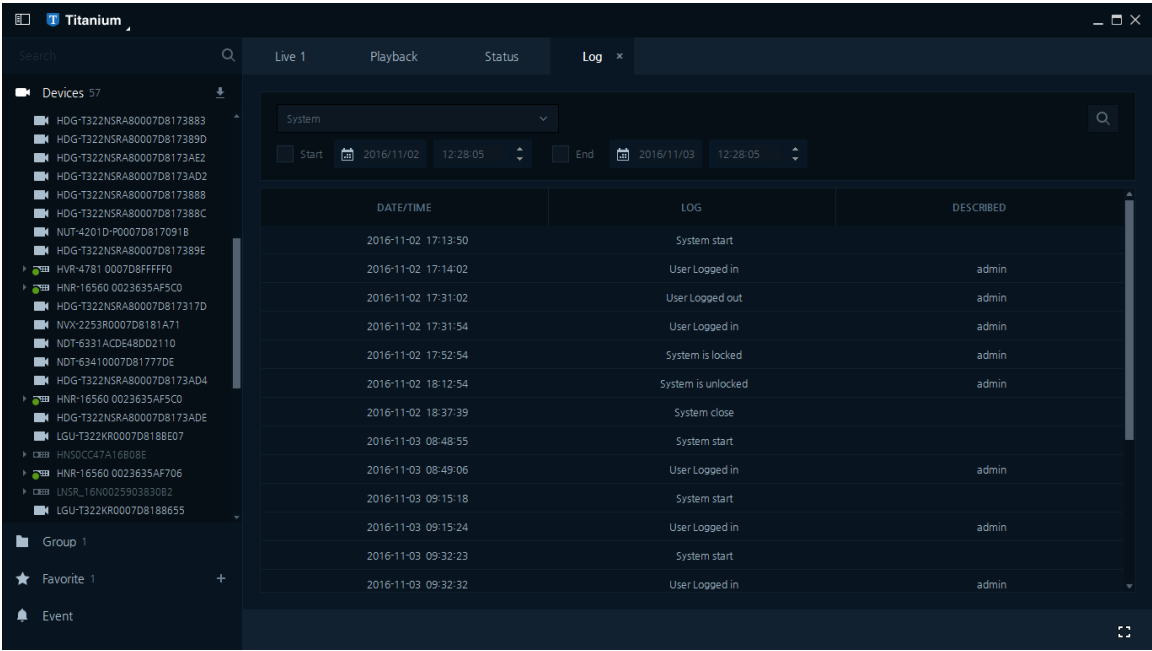


Figure 8-1 Log

Table 8-1 Description of Log

No.	Item	Description
1		Select the log search function System: Display System status Log Device: Display Device status log User: Display user status log
2		Select the log start date and time Search from the first log, click button.
3		Select the log end date and time Search to the Last log, click button.
4		Start log search

8.1 System Log

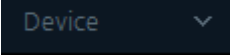

- Click button.
- Select the start time and End time.
- Click button, System Log lists will be displayed by selected date as below:

DATE/TIME	LOG	DESCRIBED
2016-11-02 17:13:50	System start	
2016-11-02 17:14:02	User Logged in	admin
2016-11-02 17:31:02	User Logged out	admin

Table 8-2 Description of System Log

No.	Item	Description
1	Date and Time	Display Date and Time with logs
2	Log	Display system logs
3	Described	Display the additional information

8.2 Device Log

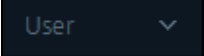
1. Click  button.
2. Select the start time and End time.
3. Click  button, Device Log lists will be displayed by selected date as below:


DATE/TIME	NAME	USER	LOG	DESCRIBED
2016-11-02 17:14:05	NBT-63110007D817A83C	admin	Connected Devices	
2016-11-02 17:21:06	HDG-T322NSRA80007D817...	admin	Connected Devices	
2016-11-02 17:21:07	HNR-16560 00236360AAAE	admin	Connected Devices	

Table 8-3 Description of Device Log

No.	Item	Description
1	Date and Time	Display the Date and Time with logs
2	Name	Display the device names
3	User	Display the system log-in users
4	Log	Display the system logs
5	Described	Display the additional information

8.3 User Log

4. Click  button.
5. Select the start time and Exit time.

6. Click  button; User Log lists will be displayed by selected date as below:

DATE/TIME	USER	LOG	DESCRIBED
2016-11-02 17:14:02	admin	Login	
2016-11-02 17:15:29	admin	Setup has changed (Device)	
2016-11-02 17:21:03	admin	Smart Discovery Start	

Table 8-4 Items and Description of User Log

No.	Item	Description
1	Date and Time	Display the Date and Time with logs
2	User	Display the log-in users
3	Log	Display the user motion logs
4	Described	Display the additional information

9. Appendix

9.1 Detailed Information

■ Real Time Screen

Screen	Live1, Live2, Live3, Live4, and status screen
Screen Divide	1, 4, 9, 16, 25, 36, 49, 64, User Layout Support
Digital Zoom	Support
PTZ	Video overlay PTZ
Audio	Support
Event View	Channel / Quick View Support
Screen Exchange	Support
Snapshot	Support
Ratio	Original video ratio / screen ratio
Event Spot	Support
Instant Playback	Support
Image Rotation	Support

■ Device Playback

Channel	32 channels (at max.)
Date, Time Search	Support
Event Search	Event Search / bookmark Search
Playback / Reverse Playback	Support
Playback speed	Support (-x5 ~ x5)
Step Playback	1 frame, 5 sec, 10 sec, 30 sec, 1 min, 5 min, 10 min
Backup	Support (clip Viewer format (*.exe), MP4 format(*.mp4))
Bookmark	Support
Thumbnail	Support
Image Rotation	Support

■ Status screen

Status Mode	Device status
Device Status	Device connection, recording status, BPS, FPS, resolution, codec information, firmware version

■ Function

System Lock/Unlock	Support
Automatic Log-in	Support
Setup Backup/Restore	Support
OSD	Recording status, camera name, Date and Time
User Authority Level	Manager, user
Language	English, Korean language
Date and Time Format Change	Support
Device Search	Support (self-protocol, ONVIF)
Entire screen	Support
Dual Stream	Support
System log	Support

Note Detailed description may change without specific notice
