

# **NETUS-Pro**

Ver.1.1 / 2020.07

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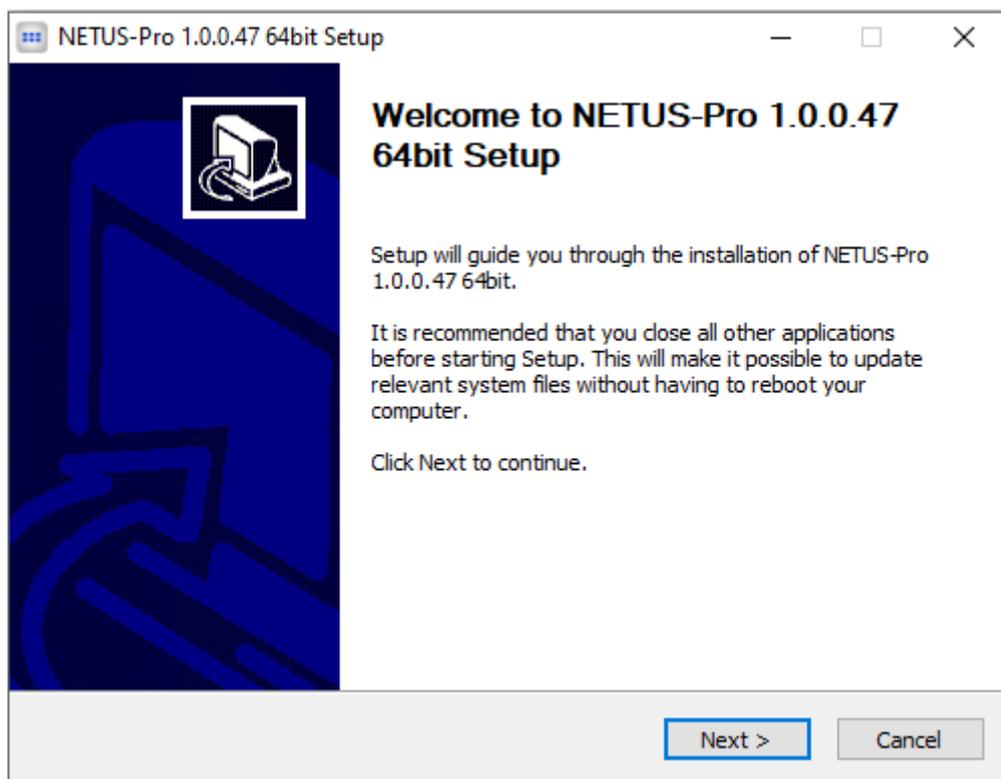
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# 1. NETUS-Pro Installation

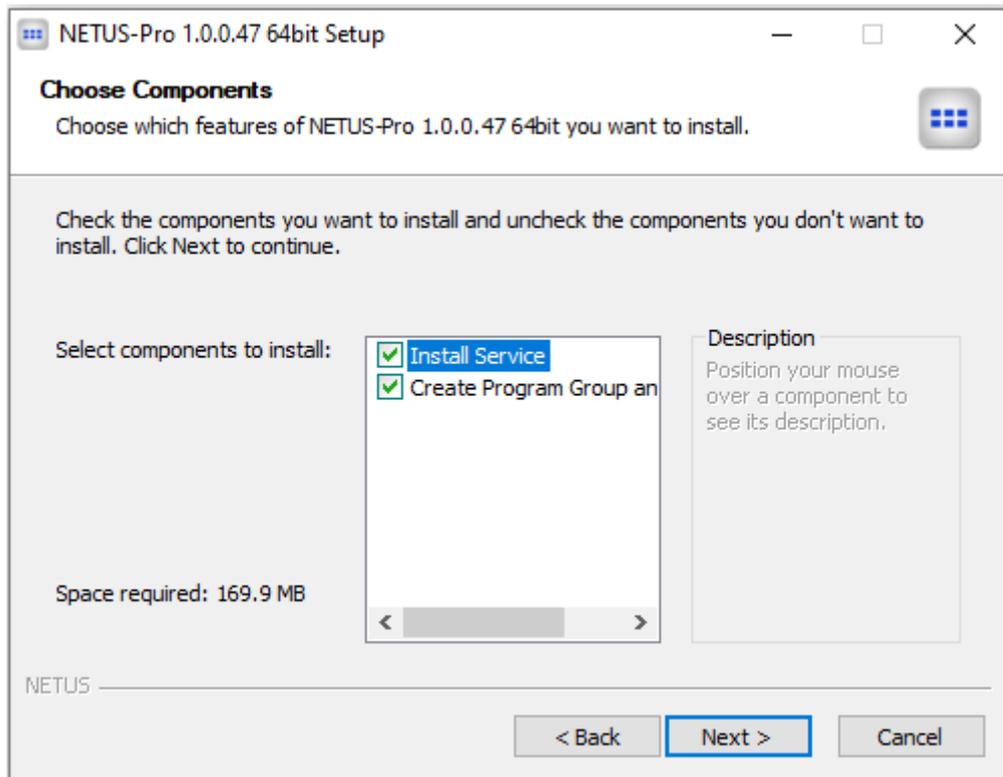
Run NETUS-Pro installation file.



Check the installed version and click the "Next" button when installation instructions come out.



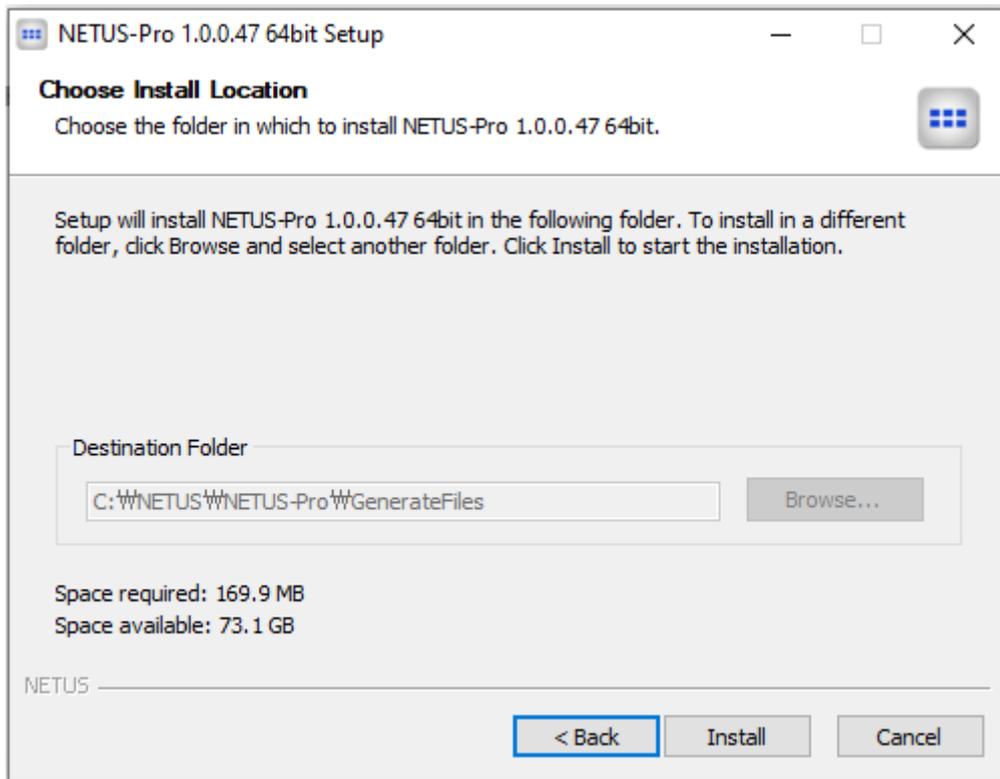
Select the NETUS-Pro installation items.



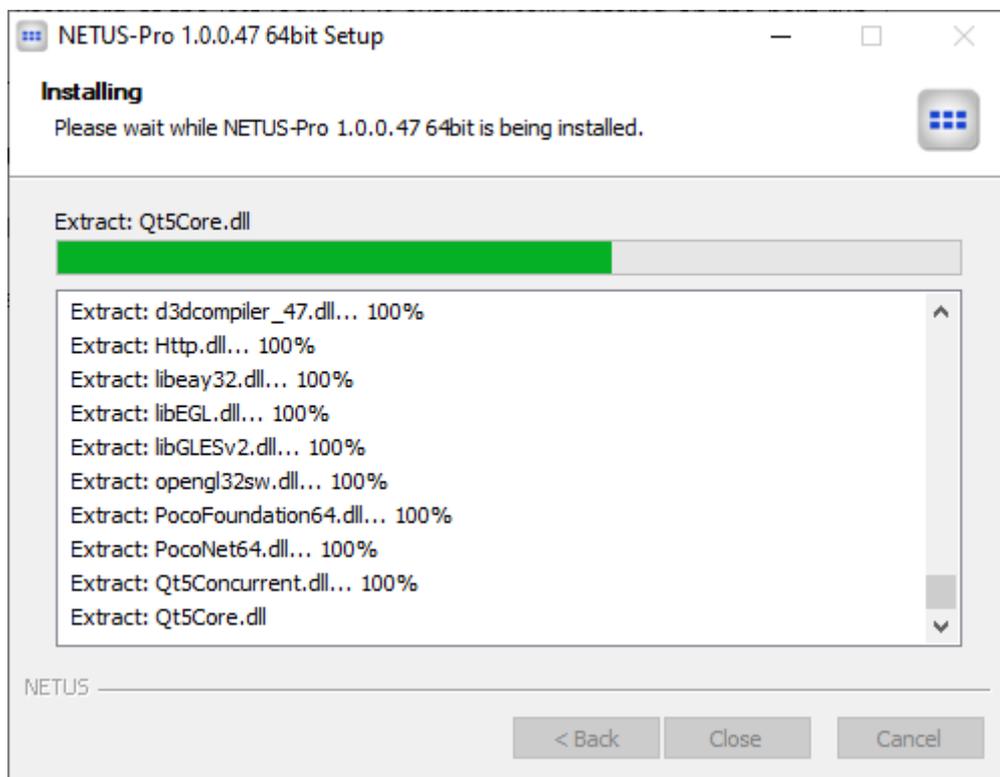
**Install:** Install the necessary items to run NETUS-Pro.

**Create Program Group and Shortcut:** Add NETUS-Pro to your wall paper and start menu on your desktop.

Check the installation path and click the "Install" button.

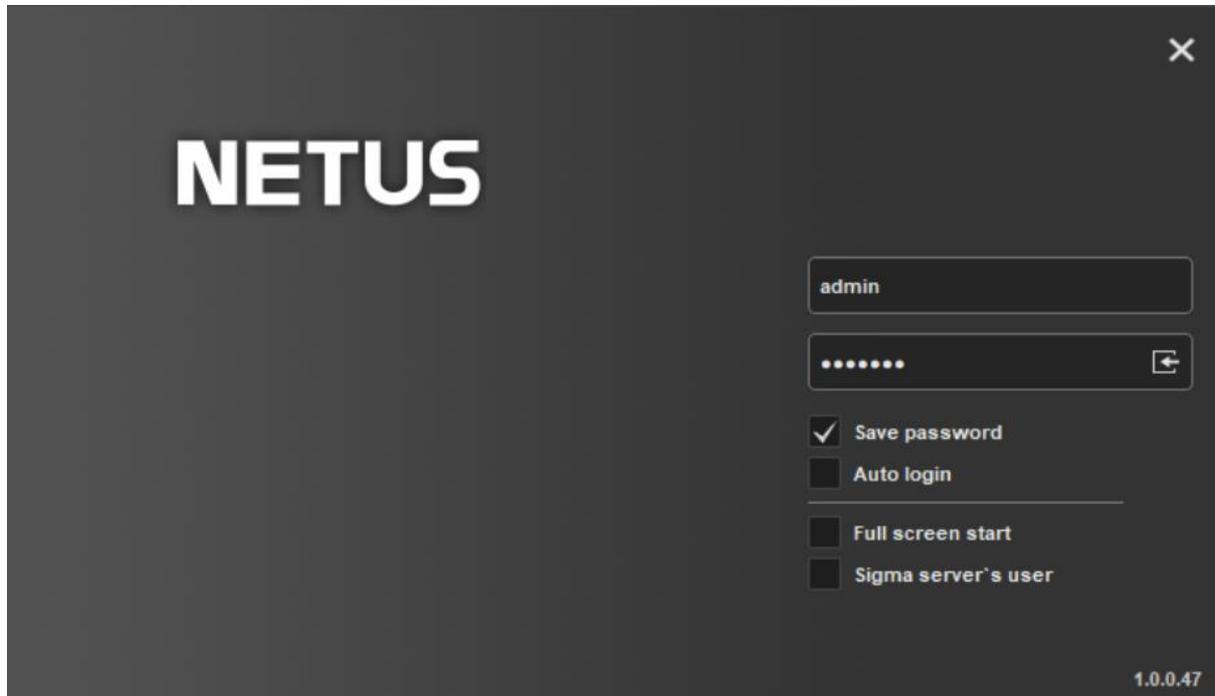


Installation proceeds and NETUS-Pro starts automatically.



## 2. Run NETUS-Pro

Run the program by clicking NETUS-Pro icon on wall paper or start menu.



**Save password:** Password of the last login ID is automatically entered on the next run.

**Automatic login:** Skip the login process on the next run.

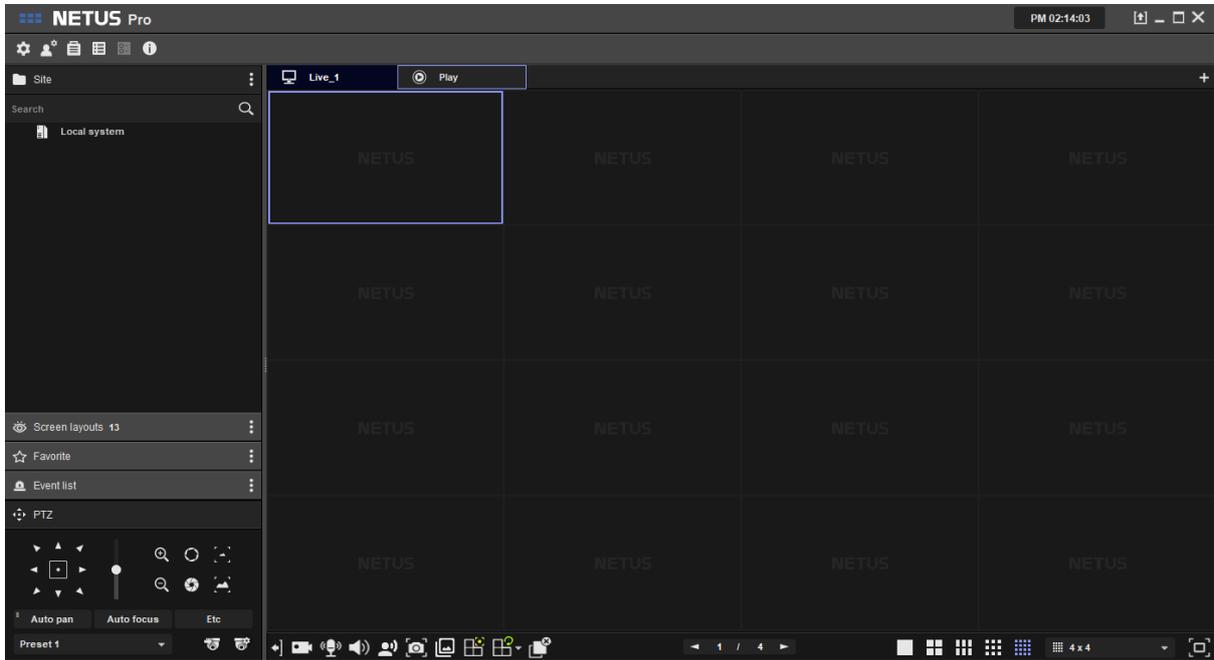
**Full screen start:** Runs the program in full screen.

"Auto login" and "Full screen start" can also be set in the "Configuration" menu.

**Sigma server user:** Possible to log in with your ID and password of Sigma account.

(Refer to page 50)

After entering your ID and password, press the Enter Key or click the login  button, and the main screen will appear as below.

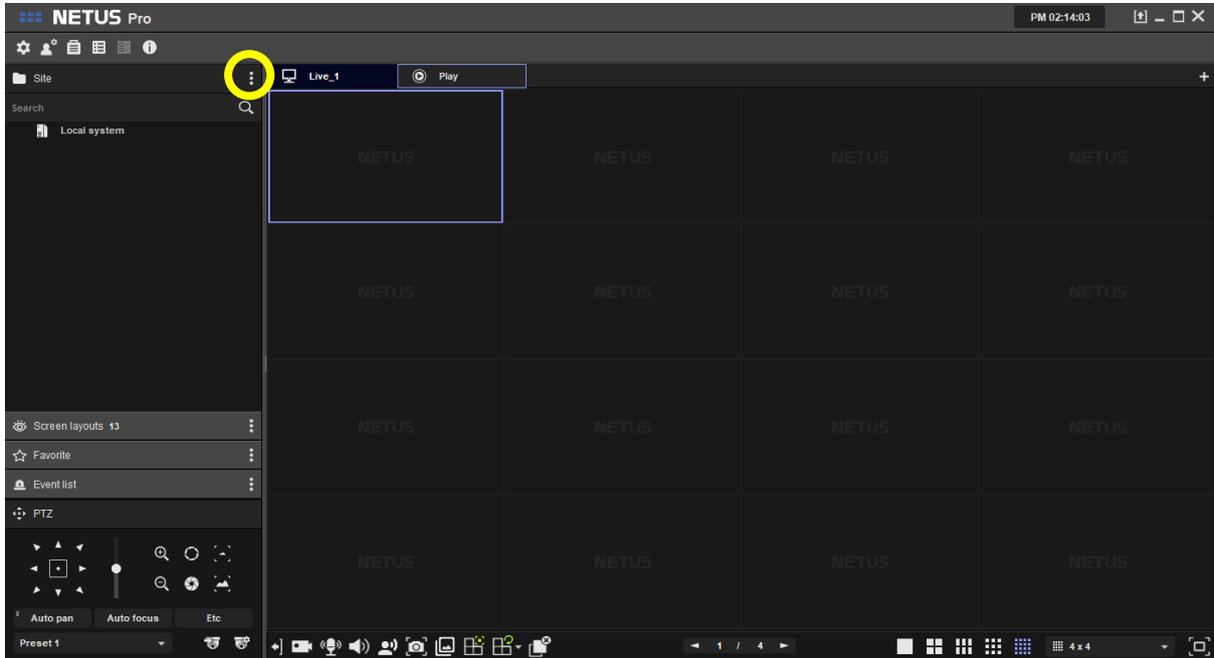


Main menus of NETUS-Pro are as below.

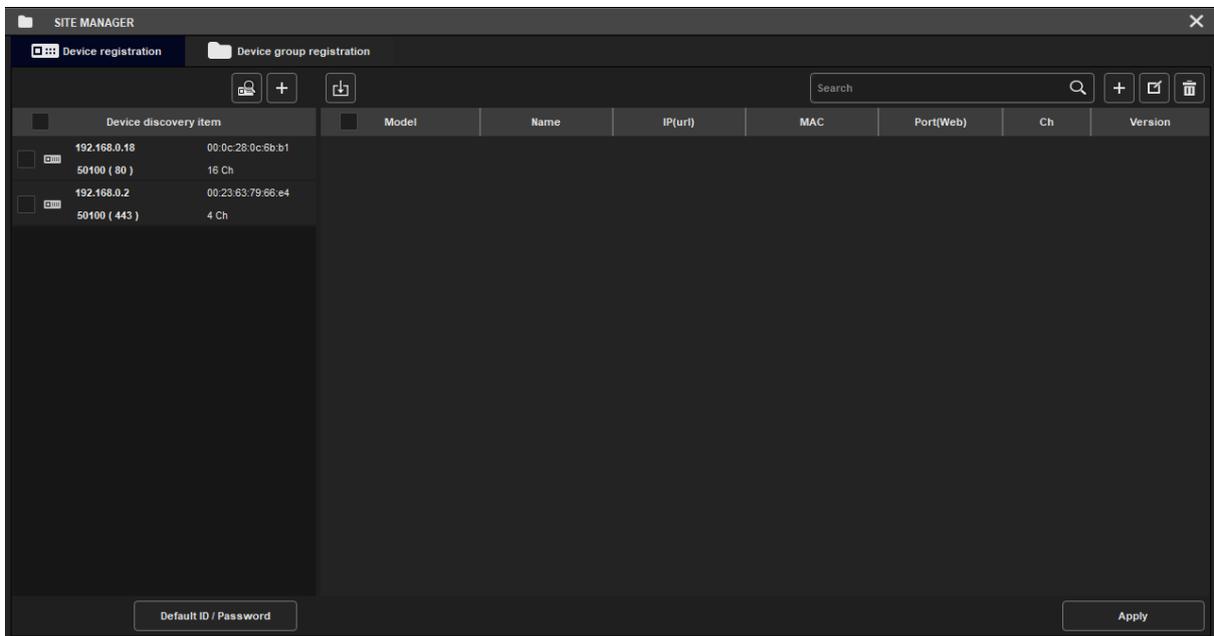


### 3. Device registration

Click on the yellow "Site Manager" button to register the device.

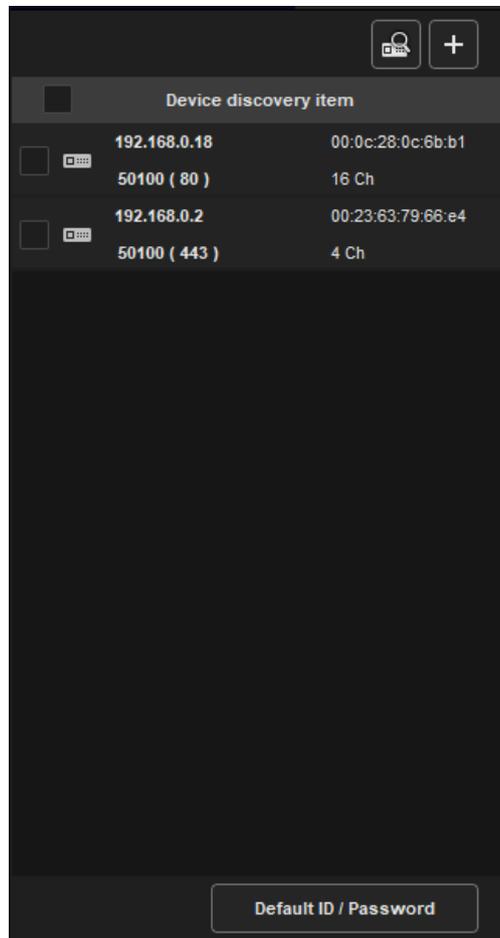


The "Site Manager" window is displayed as below.



## [Device Search]

When running "Site Manager", devices in the same IP band as the current PC are automatically searched in the list on the left.



: You can search for a device by using "Search Device" button.



: Click the "Automatically add device" button to automatically add the checked devices to the list. The added devices are displayed in the list on the right.



: You can set the ID and password to be entered in the device in advance when "Automatically add device" by using the "Default ID/Password" button.



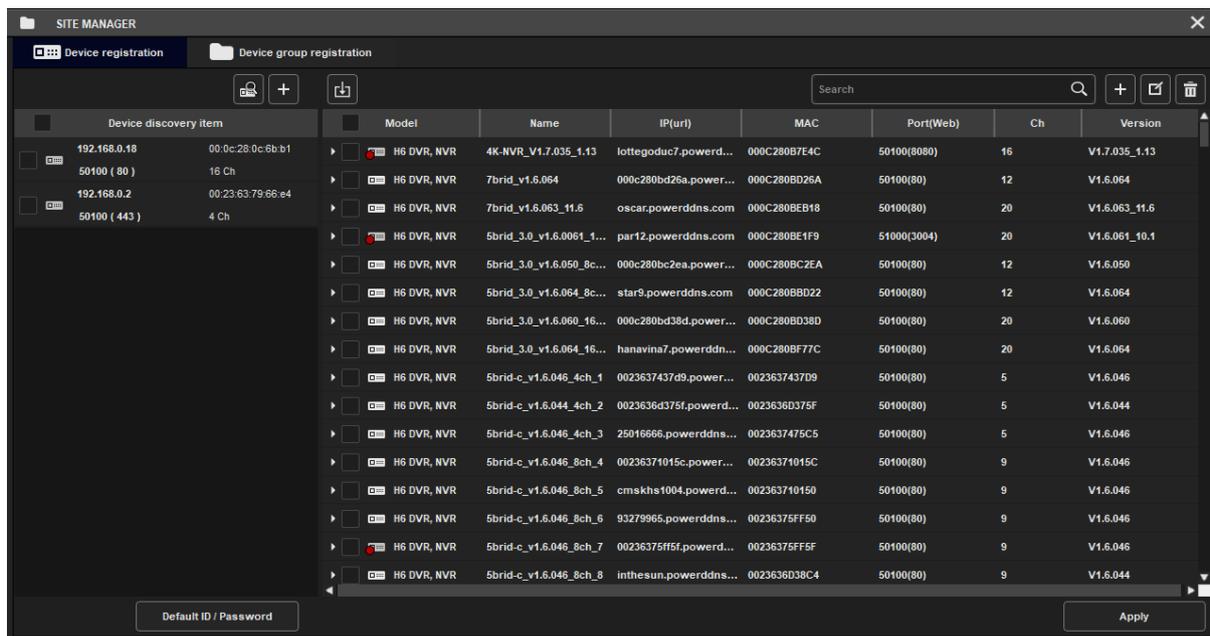
After entering, press the "Confirm" button, and the "Default ID/Password" button will change as



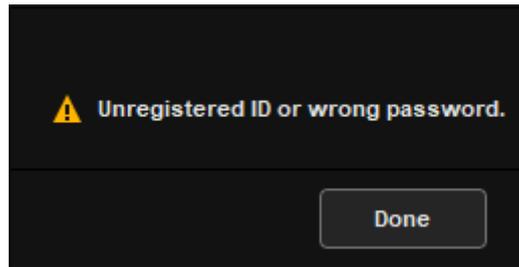
## [Device Registration]

### Automatic Registration

If you add a device by clicking the  button after checking the device you want in the device search category, the added devices are displayed in the list on the right.



In the case of automatic registration, the IP address and connection port are automatically entered and the device is connected with the ID and password set in "Default ID / Password". If the device ID or password is incorrect, an error message as below is displayed, and a yellow warning icon () is attached to the device list.



If the message above appears, press the revise device button , enter a valid ID and password, and try registering again.

## Manual Registration

You can manually register a device by clicking the Add Device button  on the top right.

A dark-themed dialog box titled "ADD DEVICES" with a close button (X) in the top right corner. It contains six input fields:

- Device name: empty
- IP(url): empty
- Client port: 50100
- Web server port: 80
- User id: admin
- User password: masked with six dots

An "Apply" button is located at the bottom right of the dialog.

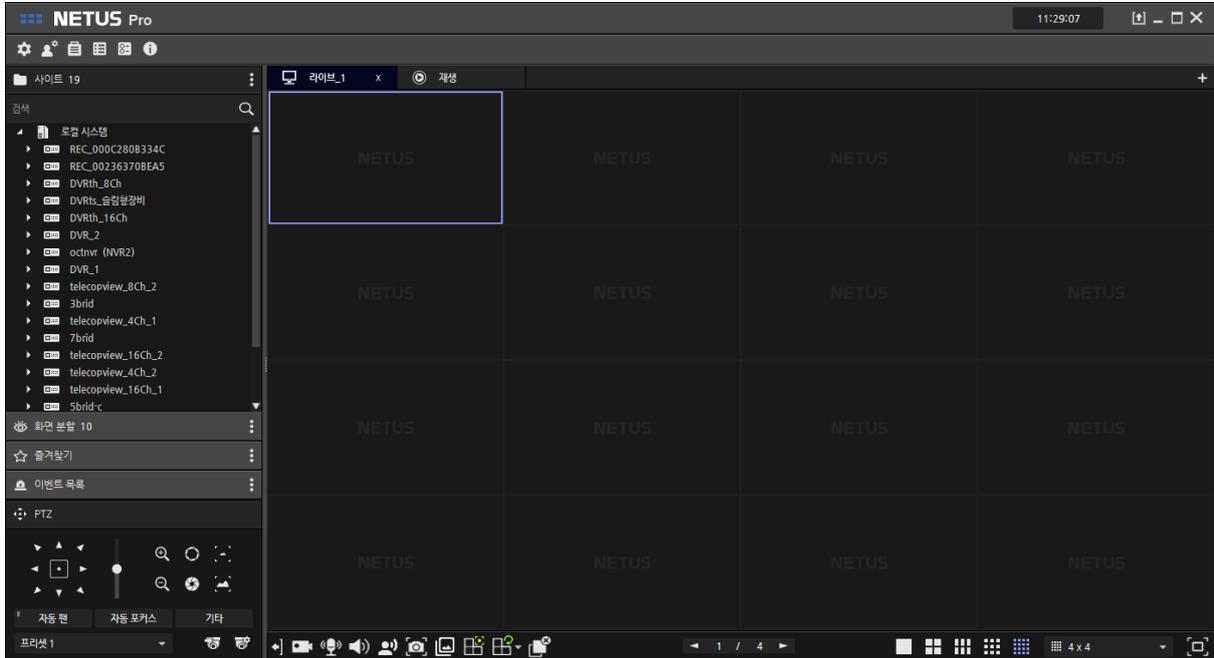
Enter the device name, and device's IP address or URL address in the IP (url) field.

Enter the client port, web server port, user ID/password, and click the "Apply" button to register the device.

A red icon (●) is displayed for devices that are disconnected due to reasons such as the device being turned off or a network connection failure. If there is a red icon, please check the device connection.

Click the "Apply" button in the site manager to complete the device registration. When you exit the site manager you can see that the device is registered in the site tab of the side menu.

You can edit and delete device information by using the Edit Device button  and Delete Device button  in the site manager.

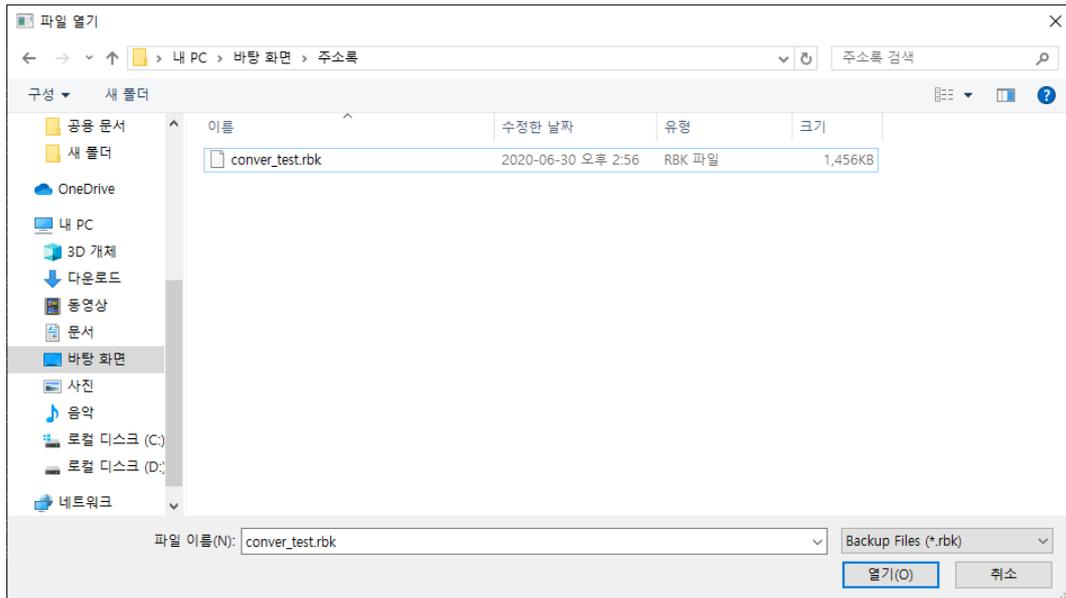


### VMS address book conversion

By converting address book used in VMS into an address book for NETUS-Pro, devices registered in VMS can be used in NETUS-pro. Click button  for address book conversion.



Click "Open" button and select the address file exported from VMS. (.rbk file)

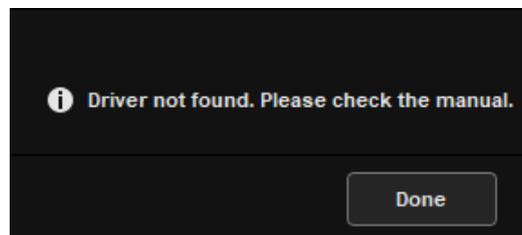


Click "Convert" button.



If the following error occurs during the conversion, run the AccessDatabaseEngine.exe file in the NETUS installation path and install the driver.

ex) C:\#NETUS\#NETUS-Pro-> Run AccessDatabaseEngine.exe

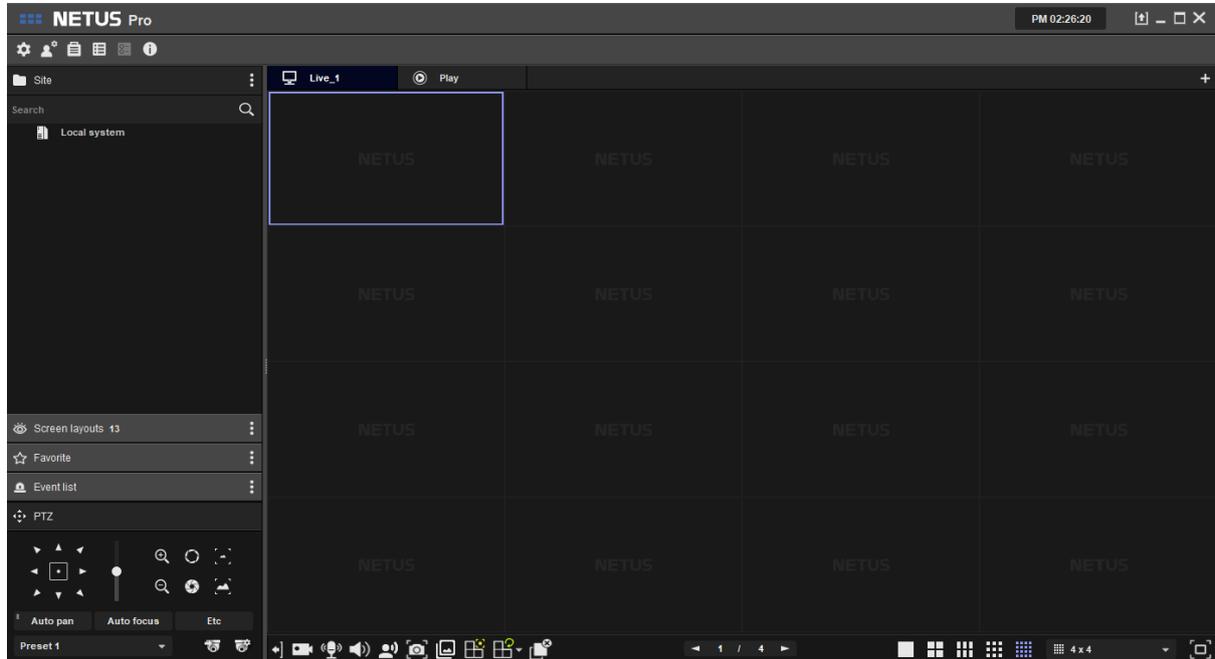


If the file is uploaded well, the devices are added to the site manager after the uploading.

장치검색 항목	모델	이름	IP(ur)	MAC	포트(埠)	채널	버전
192.168.100.32 50100 (80) 64 채널	H6 DVR, NVR	DVRth_8Ch			7000(8000)	8	V2.2.0
192.168.100.126 60700 (8000) 8 채널	H6 DVR, NVR	DVRts_출입원장비			7000(8000)	4	V2.4.0
192.168.100.35 50100 (80) 20 채널	H6 DVR, NVR	DVRth_16Ch			7878(8000)	24	V2.4.0
192.168.100.39 50100 (80) 48 채널	H6 DVR, NVR	DVR_2			7000(8000)	4	V2.2.0
192.168.100.58 50100 (80) 32 채널	H6 DVR, NVR	octnr (NVR2)			7000(8000)	16	V2.4.1
192.168.100.129 50100 (61000) 4 채널	H6 DVR, NVR	DVR_1			7000(8000)	12	V2.2.0
192.168.100.60 50100 (80) 6 채널	H6 DVR, NVR	telecopview_8Ch_2			7000(8000)	12	V2.4.1
192.168.100.109 50100 (80) 24 채널	H6 DVR, NVR	119		50100(80)		12	V1.6.077_12.10
192.168.100.119 50100 (80) 12 채널	H6 DVR, NVR	3brid		50100(80)		8	V1.4.078
	H6 DVR, NVR	telecopview_4Ch_1		7000(8000)		4	V2.4.1
	H6 DVR, NVR	7brid		50100(80)		6	V1.6.066
	H6 DVR, NVR	telecopview_16Ch_2		7000(8000)		16	V2.2.0
	H6 DVR, NVR	telecopview_4Ch_2		7000(8000)		4	V2.4.1
	H6 DVR, NVR	telecopview_16Ch_1		7000(8000)		16	V2.2.0
	H6 DVR, NVR	5brid-c		50100(80)		20	V1.6.044
	H6 DVR, NVR	DVR_ts2_16Ch_3		7000(8000)		8	V2.2.0

## 4. Tab Menu

You can add a tab menu with the "Add Tab" (+) button on the top right.



Click the "Add Tab" button to see the menu bar on the right.

The types of tab menus are as below.



**Add live display tab.**

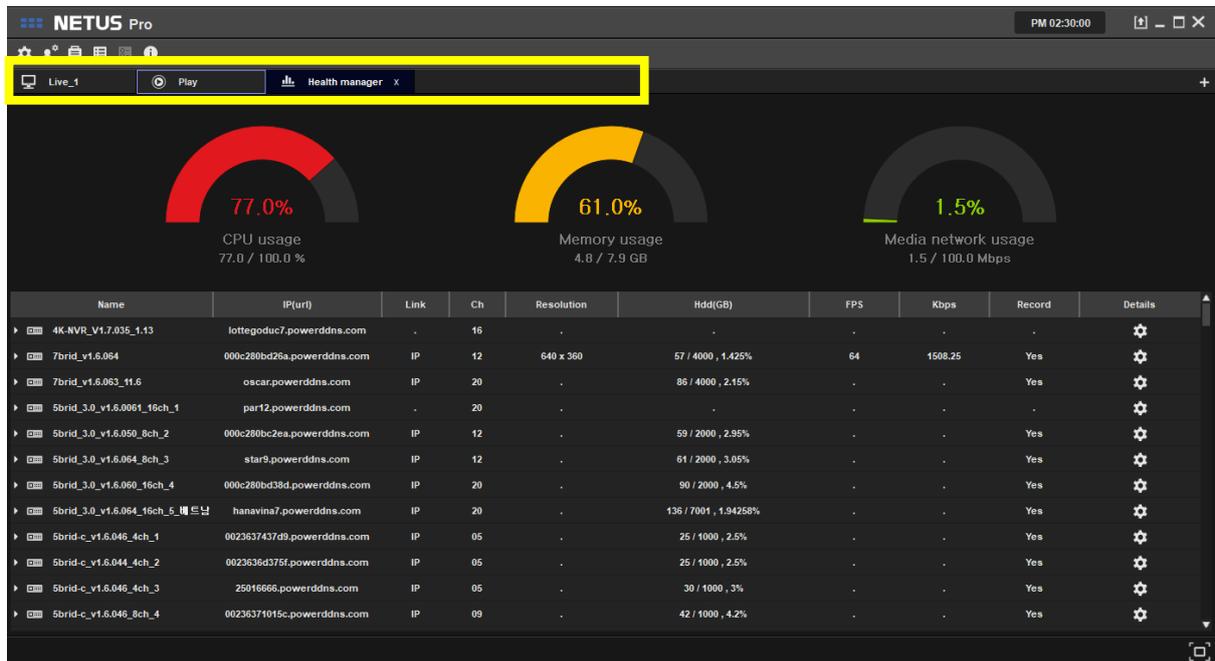
**Playback (recording data)**

**Health manager (status of PC and recorders)**

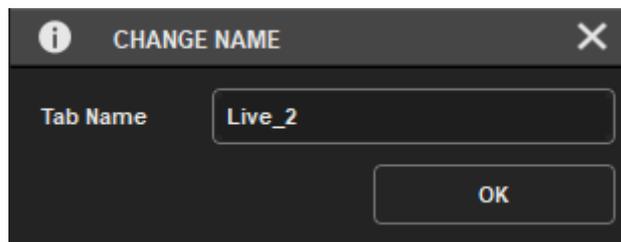
**Event log**

**E-Map**

Clicking an icon creates a new panel for the icon and adds a new items to the tab menu.



Click a tab to move to another tab, or double-click to rename a tab.



You can separate the panels from NETUS-Pro by dragging the title of the tab with the mouse.

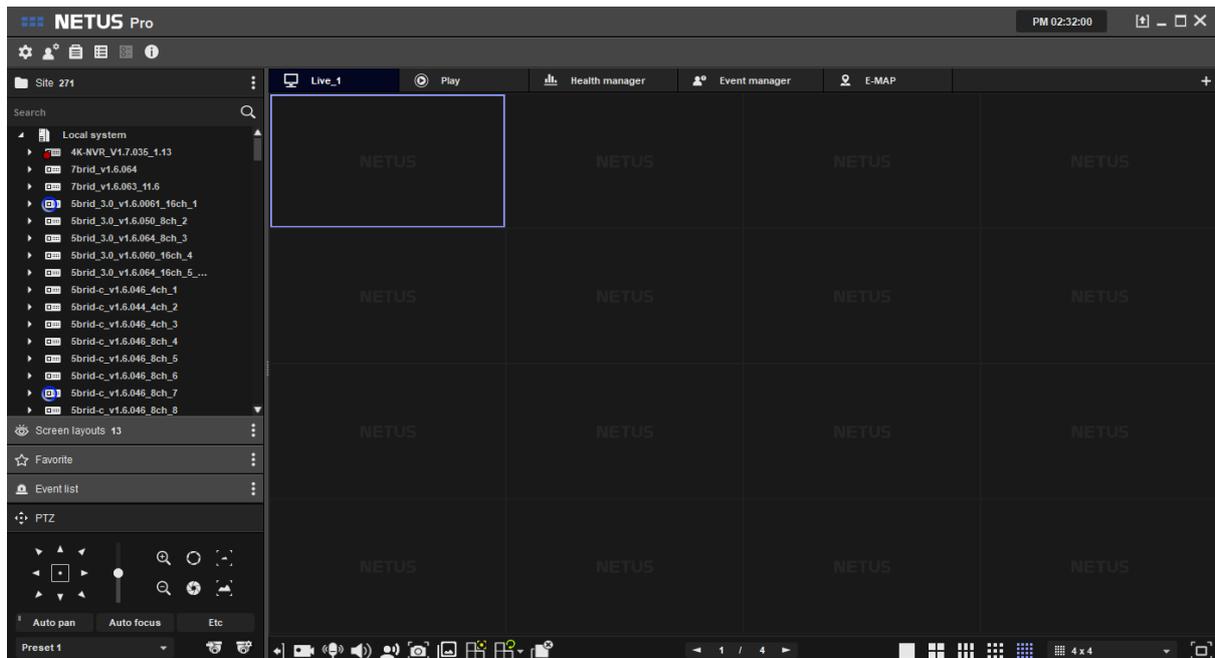


## 5. View live video

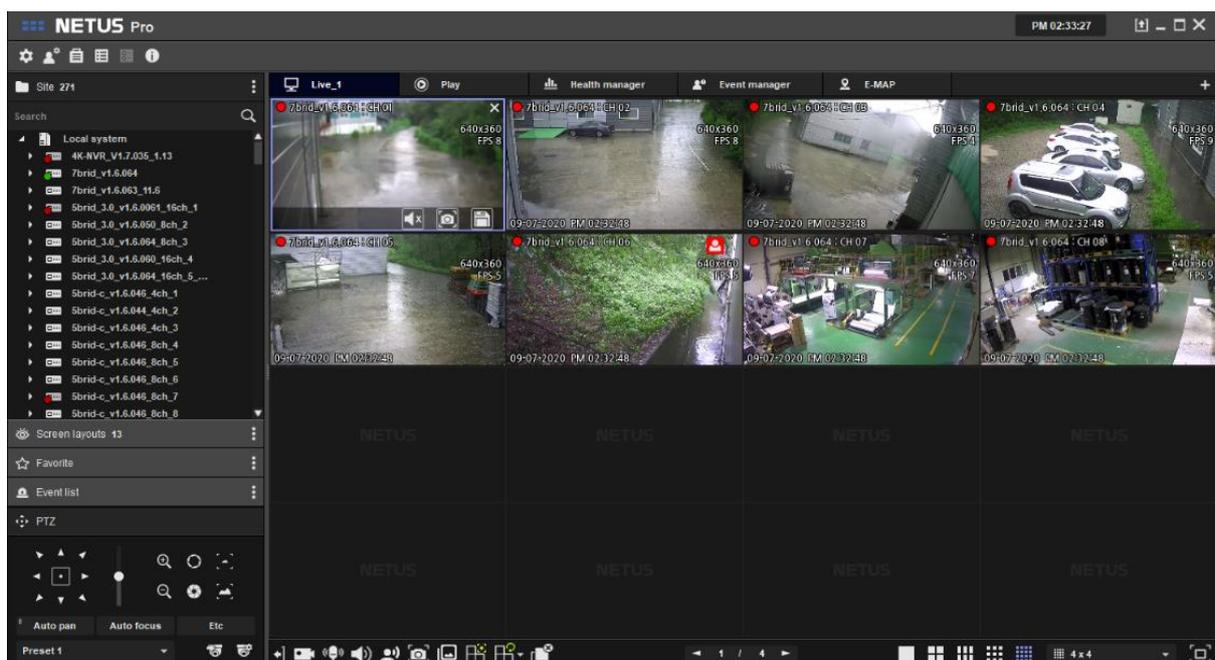
You can add a live panel by clicking the live button  in the "tab menu.

You can view the video of the currently connected device in real time on the live panel.

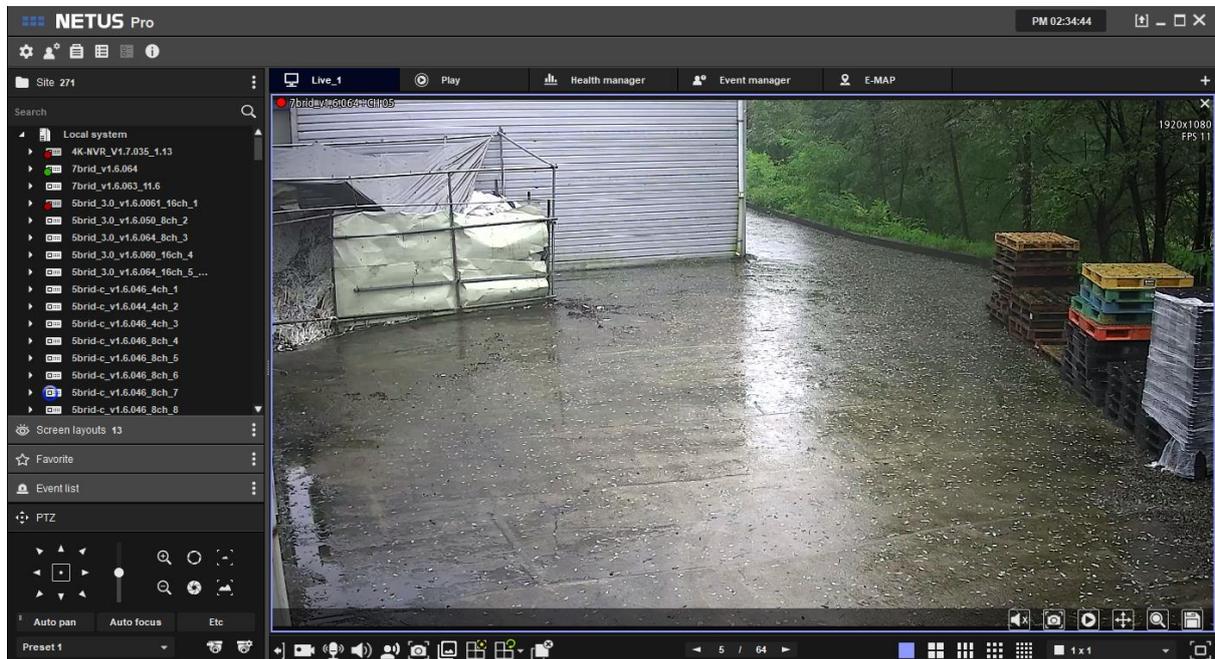
Up to 4 live panels can be added, and channels of video can be played live per each panel.



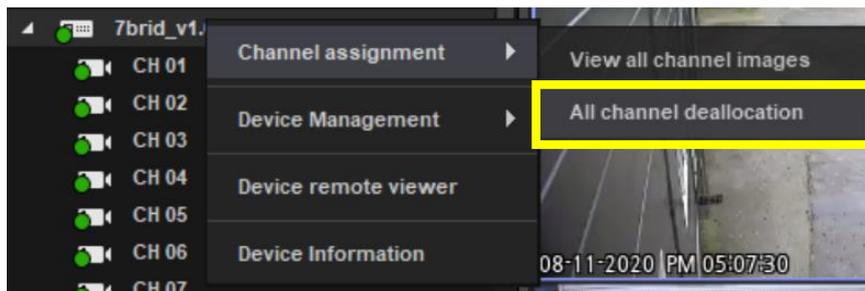
To view live screen, drag the device from the list of registered sites with the mouse pointer and drop it on the live panel to display all channels of the device. Or drag the camera connected to the device with the mouse pointer to play the video live by camera unit.



If you double-click the display screen or change the resolution to 1x1 in the bottom menu, the selected channel is played live in high quality.



Live playback can be stopped by clicking the "Display Off" button  in the bottom menu or by right-clicking the device on the side menu site tab and clicking the "Channel assignment" -> "All Channel deallocation".



## Display Menu

When you move the mouse over the display screen, a menu bar appears at the bottom.



From the left, it is audio, snapshot, simple play, PTZ, digital zoom, and emergency recording.

- **Audio:** Activate/deactivate the audio of the corresponding channel.
- **Snapshot:** Capture the current live screen. The storage location can be set in Configuration > System > Snapshot file.

**Simple play:** Plays the recorded video of the channel. In simple play, you can use time search, pause, and snapshot functions.



- **PTZ:** In case of PTZ camera, simple PTZ function can be used by clicking the button.
- **Digital zoom:** You can enlarge the image.
- **Emergency recording:** Records the live video of the corresponding channel. The storage location can be set in Configuration > System > Backup file.

## Bottom Menu

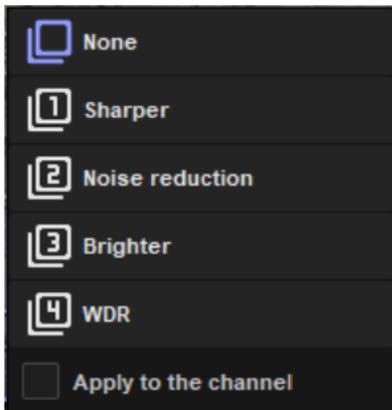


- **Side menu open / hide:** You can open or hide the side menu.
- **Emergency recording:** Records all the videos that are playing live on the current page.
- **Microphone volume:** Adjust the volume of the microphone used for two-way audio.
- **Audio volume:** Adjust the audio volume.

**Two-way audio:** Sends audio to the selected device using a microphone. Tap the combo box to select a device to use two-way audio.



- **Screenshot:** Captures and saves the screen of the panel you are currently viewing. The storage location can be set in Configuration > System > Snapshot file.
- **Image filter:** Apply a filter to the selected display screen.



If you check "Apply to screen channel", the filter is applied to all images on the current page.

- **Event spot**

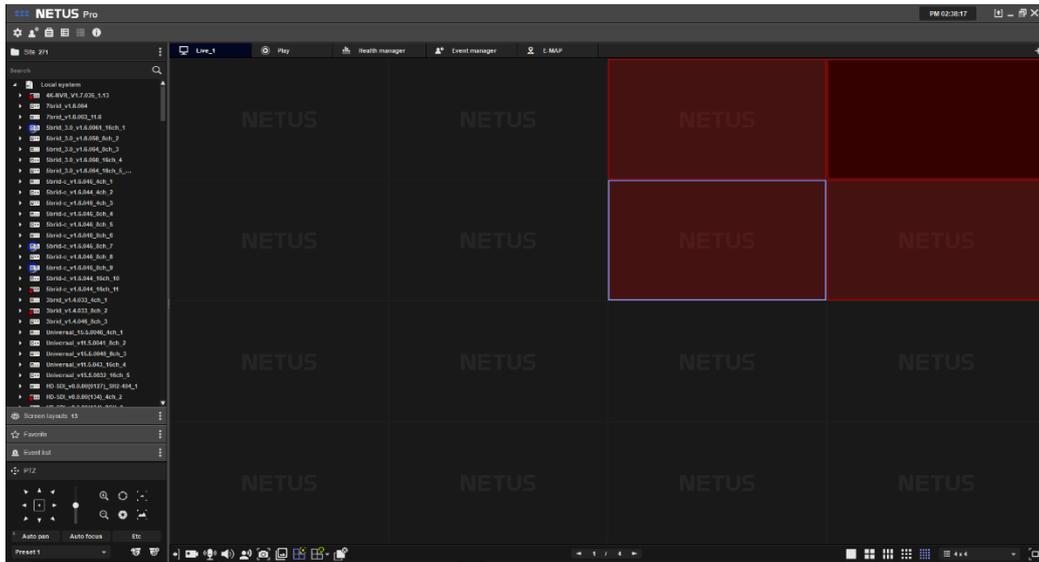
Event spot is a function that displays an images in the area set in the live panel when an event (motion detection, sensor) occurs.

- Clicking the event spot button in the bottom menu.

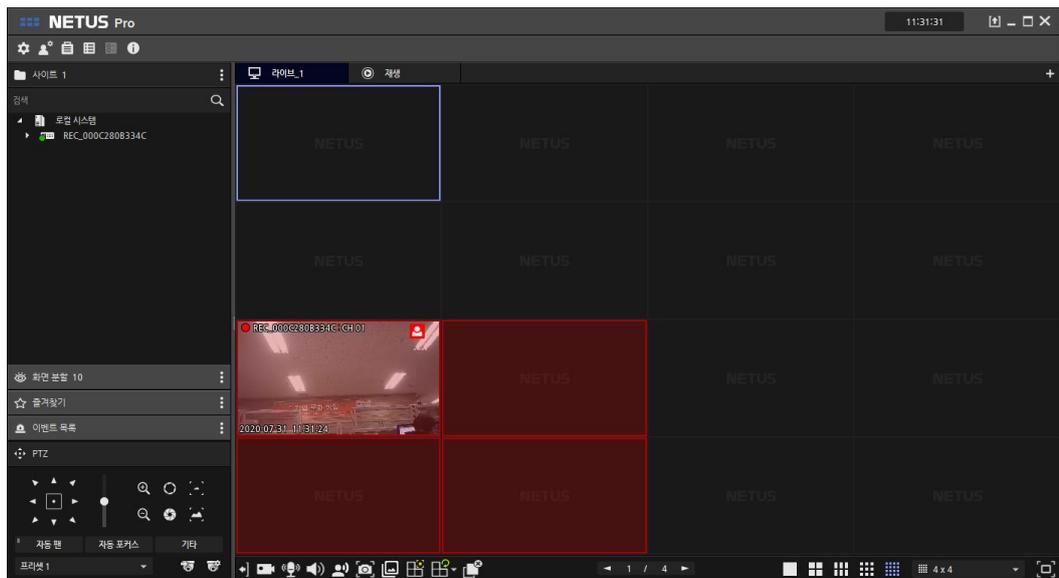


- When you click display, the screen set as an event spot is displayed in red.

You can set up to 16 event spots per a live panel.



- If an event spot is set as an action for an event occurrence, the image of the set device is shown on the red display screen.



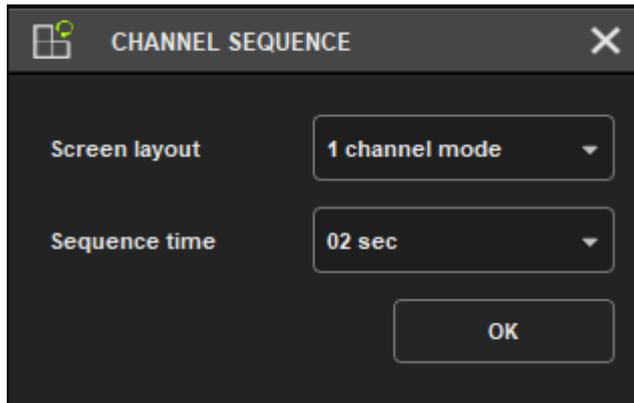
## - Sequence

Sequence is a function that automatically switches the screen every set time.

- Click the arrow next to the sequence button in the bottom menu.

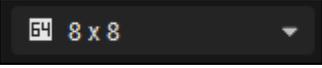


- Setting sequence options in the sequence setting dialog box.



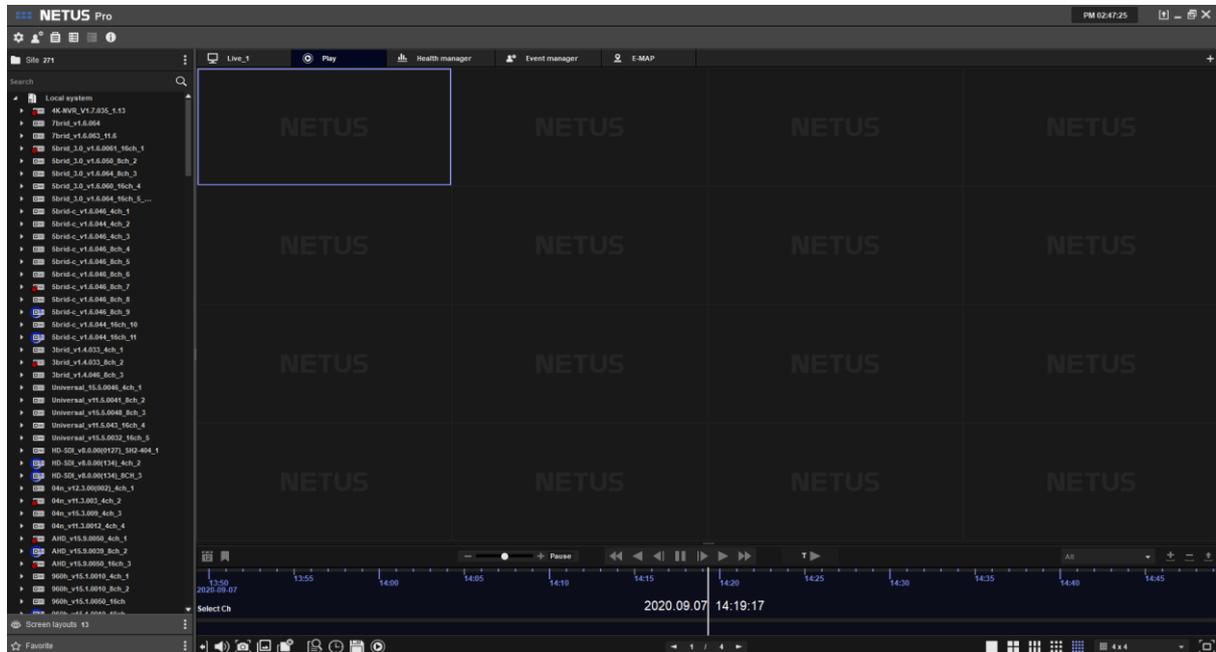
- Click the sequence button to run the sequence.



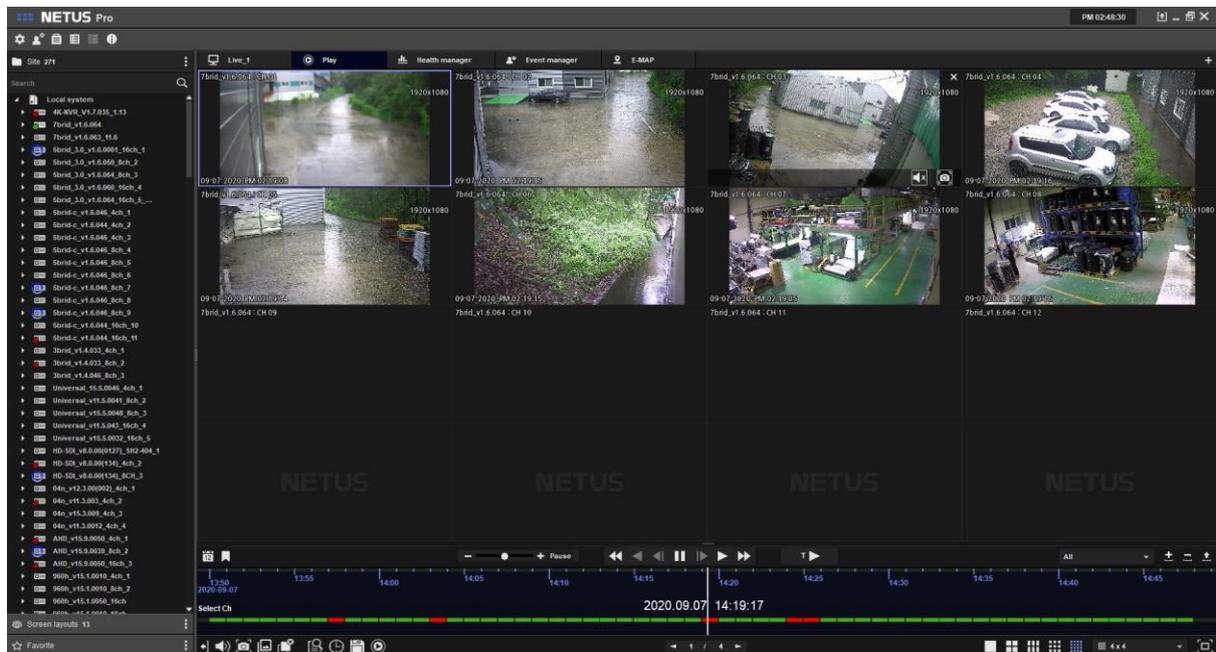
- **Display off**  : Removes all images displayed on the live panel.
- **Move page**  : You can change the page of the live panel.
- **Screen layout**  : (1 x 1), (2 x 2), (2 x 3), (3 x 3), (4 x 4) layout can be changed. Other layouts can custom layouts can be changed with the combo box to the right of the screen layout icon .
- **Full screen**  : Displays the full screen of the current layout.

## 6. Playback

You can check video data recorded on the device in the playback panel. Only one device can be assigned to the playback panel.



Devices are assigned to the playback panel in the same way as for live playback (drag and drop, right-click menu). Playback can be operated using the playback control buttons.



## Playback control



Start playing.



Stop playing.



Raise the speed by one level.



Take the speed down one level. When used in the stop state, it changes to reverse play.



"Quick play" button is a function to transmit the recorded data by lowering the frame and resolution of the recorded data in the DVR so that the recorded data of the DVR can be played back more quickly. As the frame and resolution of the video are reduced, it can be played back faster than the existing playback. At the end of "Quick play", it is indicated by .

During the "Quick play", you can play frame by frame through reverse step play /step play



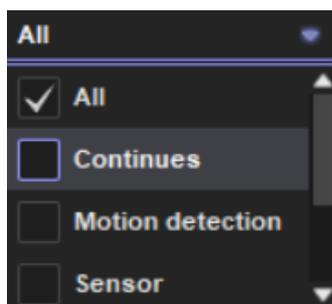
, and the reverse play button  is activated.



If the "Quick Play" function is disabled, playback is being performed on the device or another application connected to the device is playing.



You can set the speed by moving the scroll.



Combo box for setting the timeline filter. The timeline color changes for each event.

**All:** All event colors are displayed.

**Always:** Green

**Motion detection:** Red

**Sensor:** Blue

**Audio:** Orange



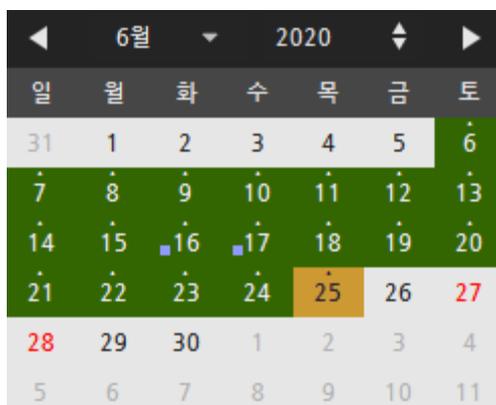
Button increases or decreases the time interval of the timeline.



Expand the timeline so that you can see the timeline of multiple channels.



You can search using calendar. When you press the calendar button, the calendar is displayed the icon as below.

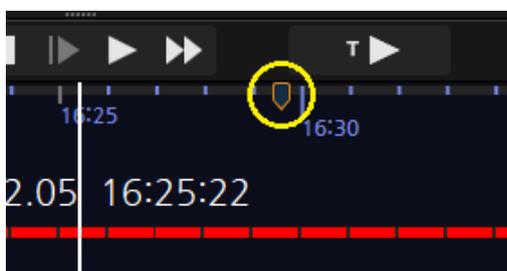


The mark in green means that there is video recording data. The blue dot is displayed if there is an index on that data. Index is a concept used to represent that data is duplicated and recorded at the same time when the time of the device is changed.



You can leave a bookmark on the playback timeline and go directly to that time. Following is the way how to add it:

1. Leave a bookmark with the left mouse button on the playback timeline.



2. Click the Add Bookmark button. 
3. In the Add Bookmark dialog box, enter a name and description for the bookmark.

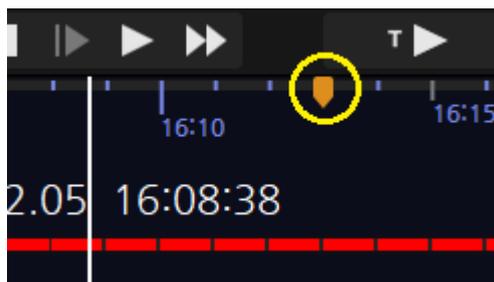
ADD BOOKMARK

Name

Description

Apply

4. Click the "Apply" button to complete the bookmark.



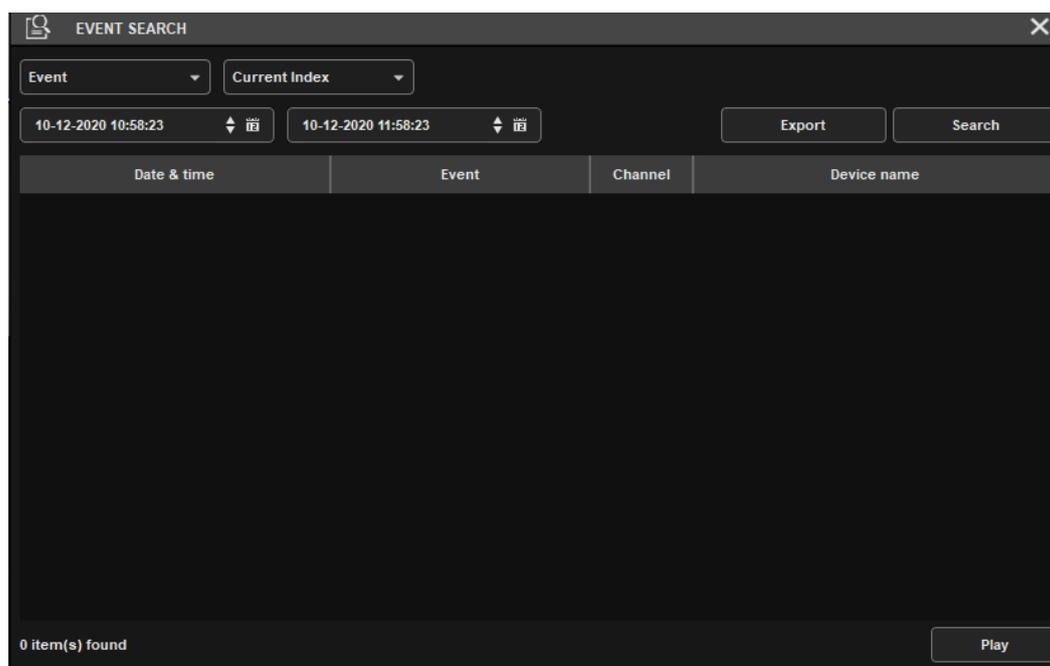
The added bookmark can be used in event search in the bottom menu.

## Bottom menu

In the playback panel, four menus are added to the bottom menu as below.



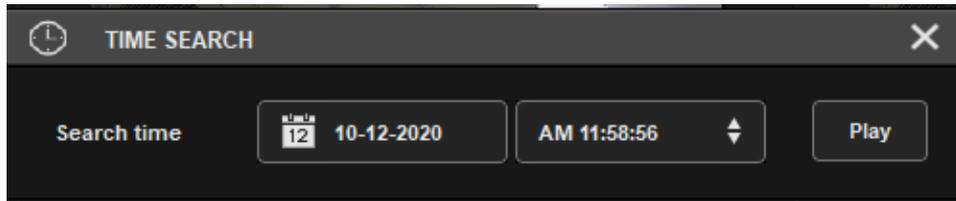
**Event search:** This is a function to search events and bookmarks in the set time zone.



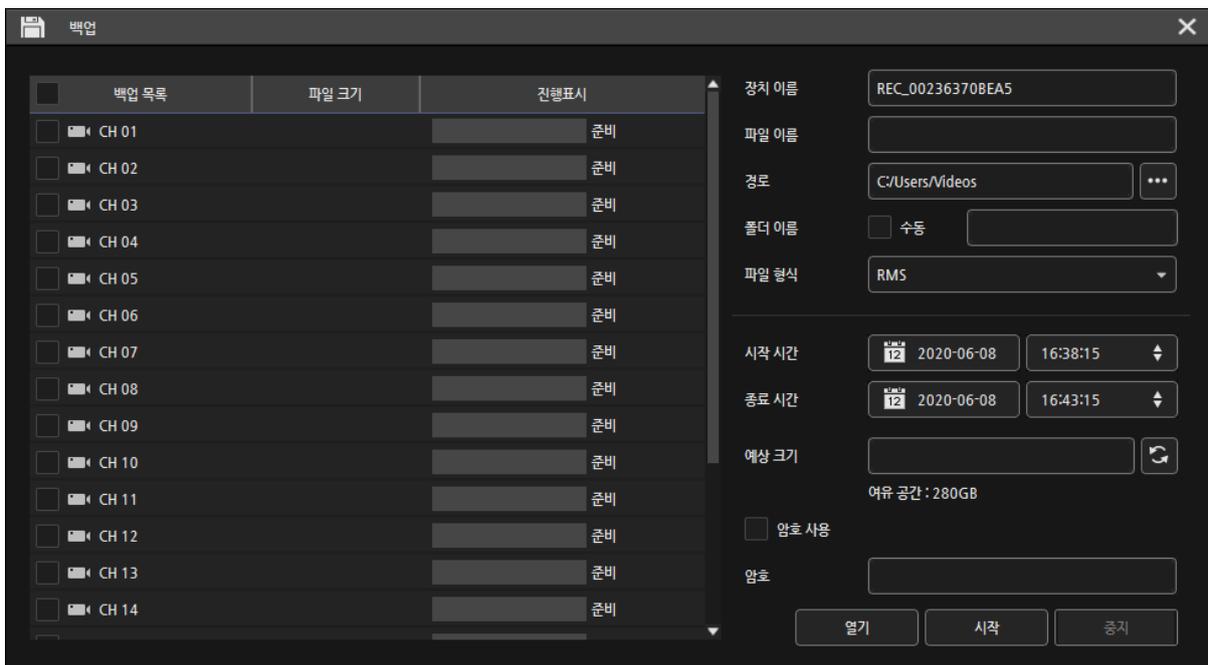
1. Event box: Search can be set as an event or a bookmark.
2. Index box: You can select an index to search.
3. Time setting: Searches for events within a set period.
4. Export: Searched events can be saved as csv files.
5. Play: Click an event in the list and press the play button to start playing from the selected event.



**Time Search:** Playback starts from the time set in the time search window.



**Backup:** You can save the recorded data of the device assigned to the playback panel as rms and avi files.



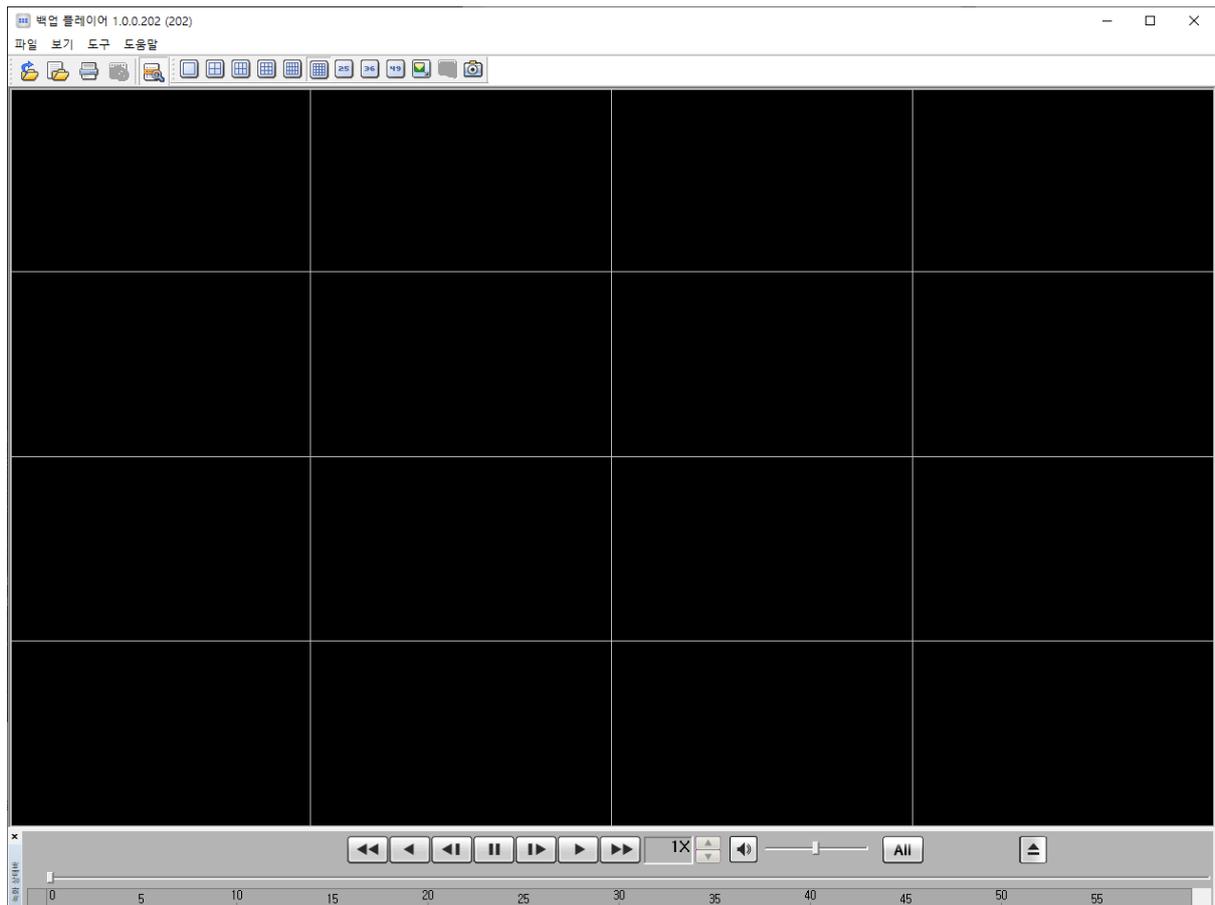
### Backup method

1. In the channel list on the right, check the channel that needs backup.
2. If you click on the channel list, the name of the currently selected channel is displayed in the file name edit box and you can edit it. A back up file is created for each channel with the file name.
3.  Click this button to select the path where the file will be saved. The default path can be changed in Preference > System.
4. If you manually check the folder name, you can put the folder name where the backup files will be saved. If you do not specify a folder name, the folder name is created with start time\_end time.
5. Select the file format RMS or AVI. The default format is RMS.

6. Select the start time and end time of the video to be backed up.
7. Click the estimated size button  to see the total size of the files to be created.
8. Free space displays the remaining drive space of the current storage path. If you use a password, you can set a password for the RMS file (AVI files are not possible.)

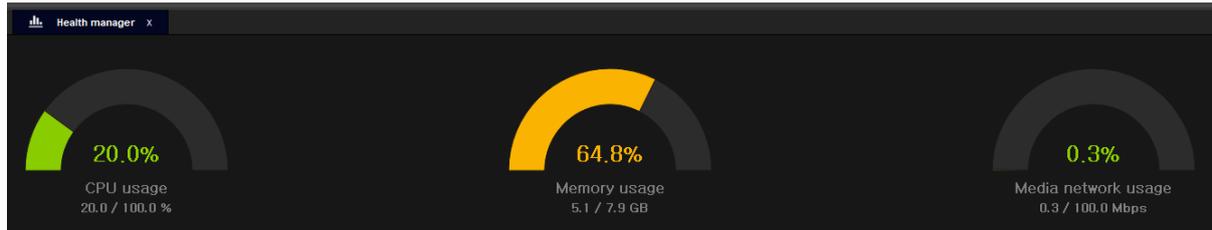


**Backup player:** Runs a backup player that can play RMS files.

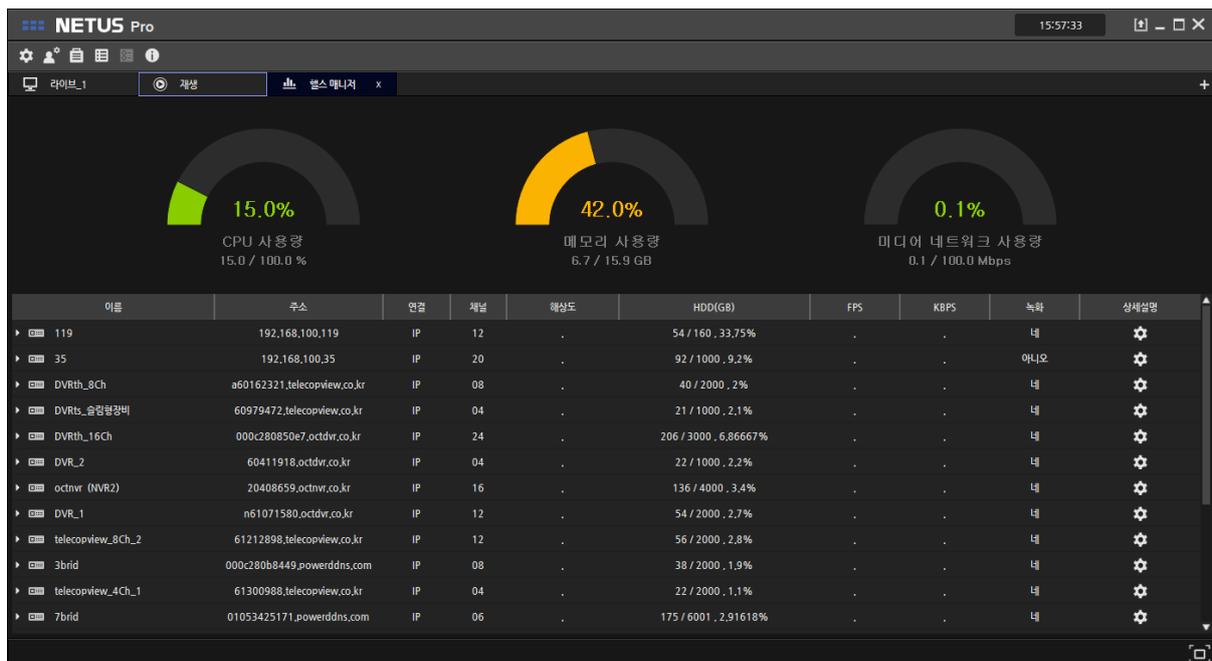


## 7. Health Manager

You can add a health manager by clicking the status  button in the "tab menu". In Health Manager, you can see the status of your PC and devices connected to NETUS at once. You can check your PC's CPU usage, memory usage, and media network usage in the graph at the top of the Health Manager.



You can check the status and information of the device connected to NETUS in the device list at bottom.



If you click the expand button on the left side of the list, you can check the information and status of cameras connected to the device.

1. Name: Displays the device name registered in NETUS-Pro.
2. Address: Shows the device's address. When IP is registered, it is output as IP, and when registered by DDNS, url address is displayed.
3. Connection: Shows whether the current device connection is IP, P2P, or Relay. It will not be displayed if the connection is lost.

4. Channel: Displays the number of device channels and camera channel numbers.
5. Resolution: Displays the resolution of the camera video currently playing on the live panel.
6. HDD: Displays the hard disk capacity of the device.
7. FPS: Displays the number of frames per second of the video.
8. KBPS: Displays the video's network usage per second in KB (kilobytes).
9. Record: Indicates whether camera video is being recorded. If even one is being recorded, the device will display "Yes".
10. Details: Click the Details button  to open the "Health Details" window.

HEALTH DETAIL INFORMATION	
Category	Status
Device name	Joanna_DEMO
Unique identifier	AAA000000092.p2p, 000C280C6BB1
Max channel	16
Resolution	640 x 360
NTSC/PAL	NTSC
HDD(GB)	3558/4000, 89% (02-13-2020 , 10-12-2020), Overwrite
Record	No

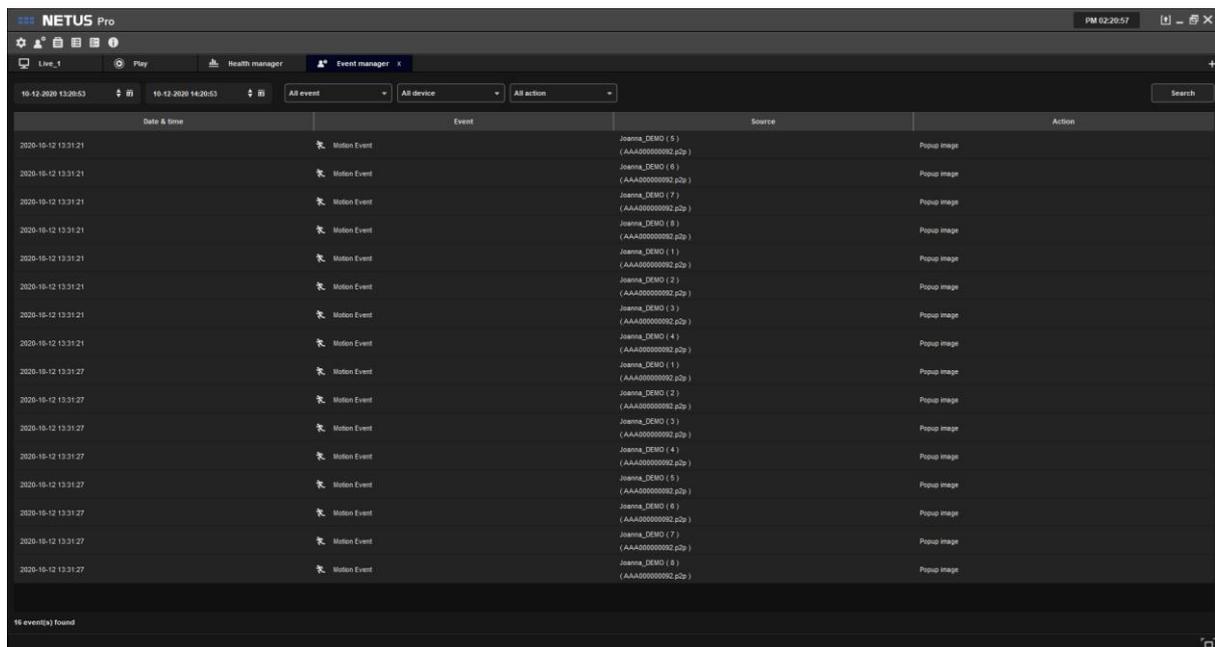
## 8. Event manager

You can add an event manager by clicking the event manager button  in the “tab menu”.

Event manager displays the event or device notification records added in “Settings”.

For how to add an event, refer to “Settings” on page 42.

When an emergency event (network disconnection, no signal) occurs on the device, it is displayed in the event list on the side panel and automatically recorded as an event manager log.



The screenshot shows the NETUS Pro Event manager interface. At the top, there are navigation tabs for 'Live\_1', 'Play', 'Health manager', and 'Event manager'. Below the tabs, there are filters for 'All event', 'All device', and 'All action'. A search bar is located on the right. The main area displays a table of events with columns for 'Date & time', 'Event', 'Source', and 'Action'. The table contains 16 rows of event data, all with the action 'Popup Image'. The status bar at the bottom indicates '16 event(s) found'.

Date & time	Event	Source	Action
2020-10-12 13:31:21	Motion Event	Joanna_DEMO (5) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:21	Motion Event	Joanna_DEMO (6) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:21	Motion Event	Joanna_DEMO (7) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:21	Motion Event	Joanna_DEMO (8) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:21	Motion Event	Joanna_DEMO (1) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:21	Motion Event	Joanna_DEMO (2) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:21	Motion Event	Joanna_DEMO (3) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:21	Motion Event	Joanna_DEMO (4) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:27	Motion Event	Joanna_DEMO (1) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:27	Motion Event	Joanna_DEMO (2) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:27	Motion Event	Joanna_DEMO (3) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:27	Motion Event	Joanna_DEMO (4) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:27	Motion Event	Joanna_DEMO (5) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:27	Motion Event	Joanna_DEMO (6) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:27	Motion Event	Joanna_DEMO (7) (AAAD00000092_p2p)	Popup Image
2020-10-12 13:31:27	Motion Event	Joanna_DEMO (8) (AAAD00000092_p2p)	Popup Image

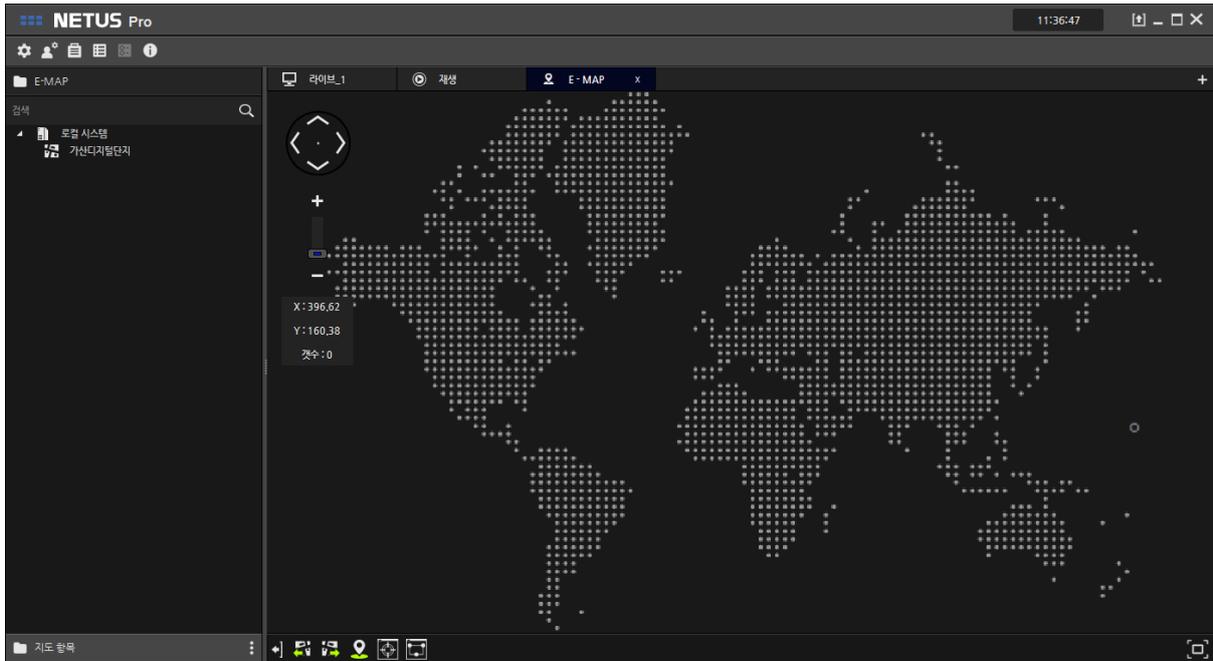
You can search for events by selecting time, event type, device, and action type from the menu below.

1. Time Search: Searches for events by the set time.
2. Event Search: You can search for events by motion, sensor, or device notification. “Device Notification” indicates an emergency event.
3. Device Search: You can search all devices or only the events of a set device.
4. Action Search: You can search all actions or only the events of the set action.

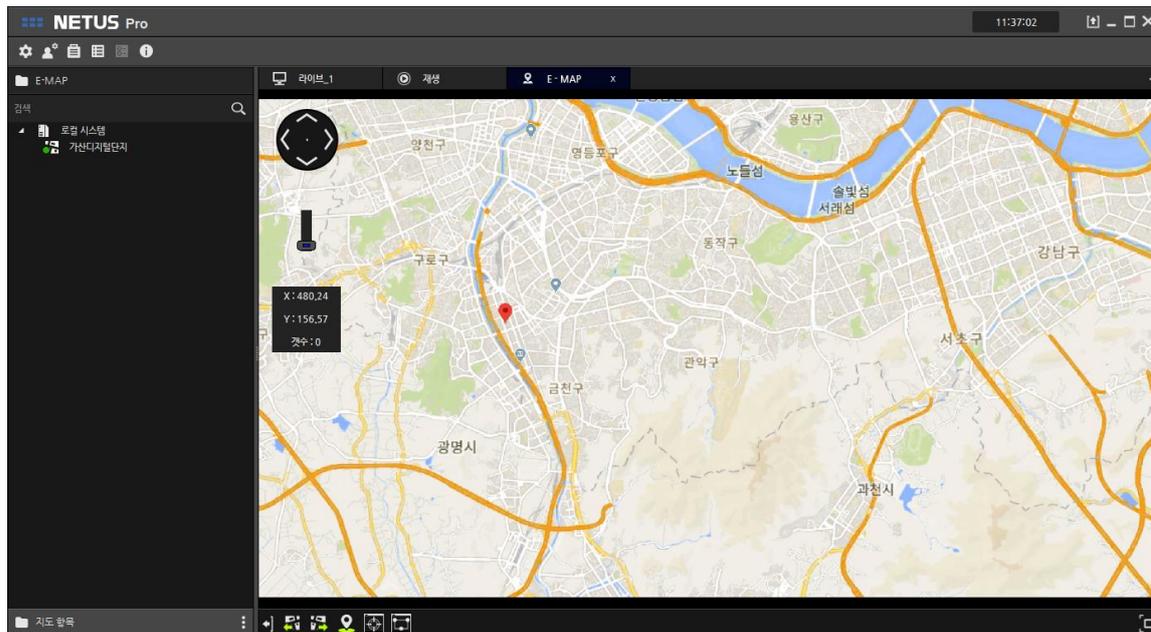
## 9. E-MAP

E-MAP panel can be added by pressing E-MAP button  in "Tab Menu".

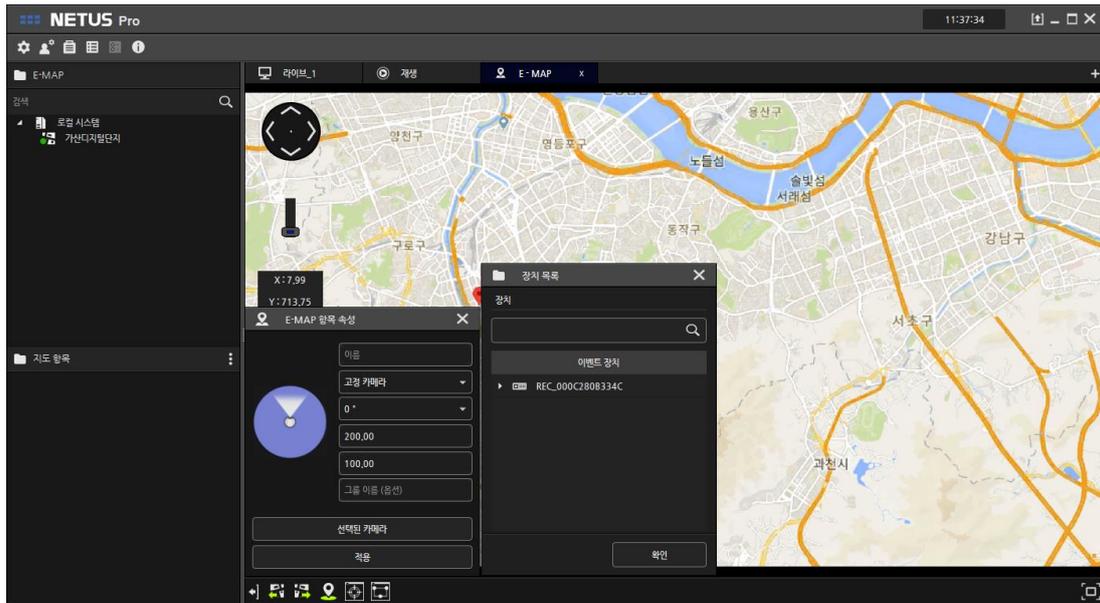
E-Map is a function that visually indicates the location of the device using a map. Maps can be added in the E-Map tab of "Settings". For how to add an E-Map, refer to "Settings" on page 42.



## How to use E-Map

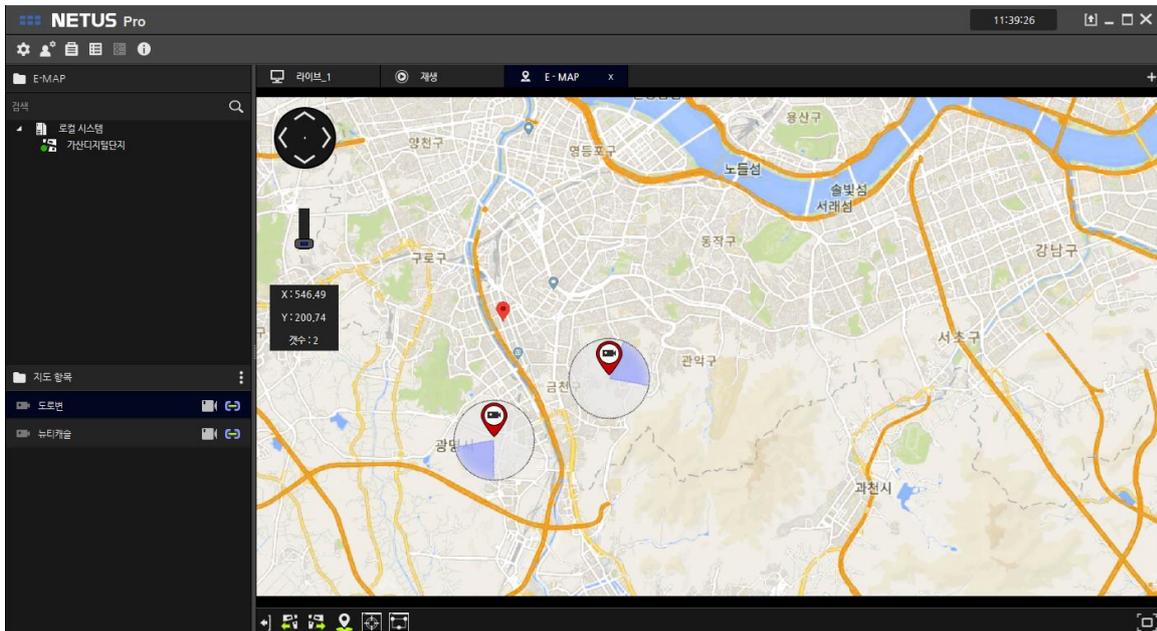


1. Drag the map from the E-MAP tab of the side menu and drop it on the E-MAP tab, and use the controller to zoom the map to arrange the images.
2. Click the "Add E-MAP Item" button  in the Map Items tab of the side menu.
3. When the E-MAP Item Properties window is displayed, enter the name and settings to be displayed on the E-MAP.
4. You can select a camera icon by selecting a fixed, PTZ, or dome camera from the camera box.
5. Select the direction the camera is looking at using the angle setting box.
6. You can set the location of the camera in detail by setting the x coordinate and y coordinate of the map.
7. Click the "Selected Camera" button to set the camera.



8. By designating a group name, cameras of the same group name can be viewed simultaneously in surveillance .

9. Complete the E-Map by creating several map items in the same way.



## Bottom menu

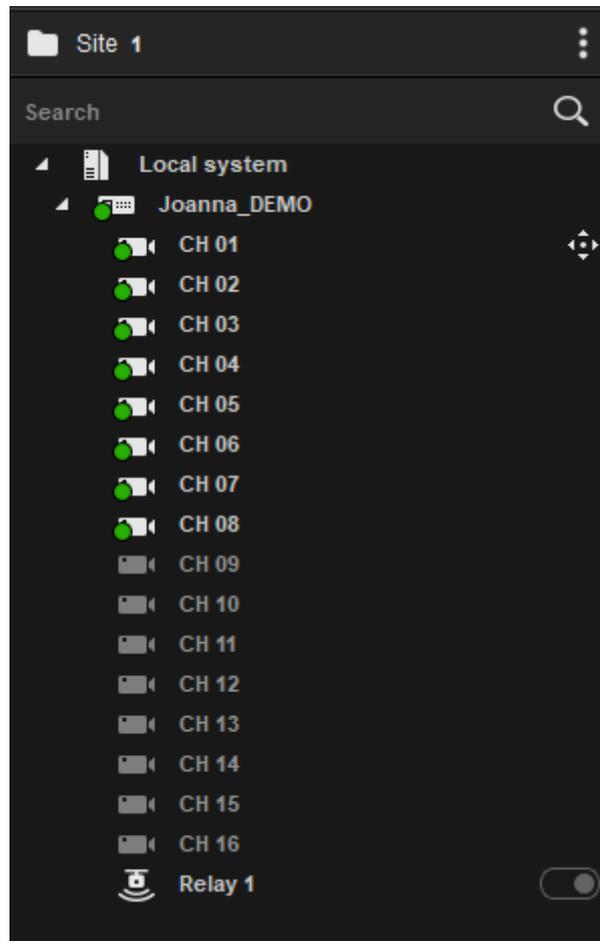
In the E-MAP panel, the following five menus are added to the bottom menu.



- **Previous Map / Next Map:** If you specified the previous map or the next map when creating an E-Map, you can change to the corresponding map.
- **Direction display :** Displays the camera direction set in the map item.
- **Live screen :** Displays the live screen of the selected map item in a quick view.
- **Surveillance Monitoring :** Displays the items with the same group name as the selected map item in multi-view.

## 10.Site

On the site tab of the side menu, devices registered to NETUS-Pro are displayed.



### Site tab configuration

1. In case of DVR/NVR, the recorder icon  is displayed and the camera  is indicated by the icon.
2. For cameras capable of PTZ, the PTZ icon  is displayed at the right end.
3. For channels to which no camera is connected, the channel name is displayed in gray.
4. Below the recorder icon, a relay icon  is displayed. You can turn the relay on  and off  by double-clicking the switch button to the right of the relay icon.

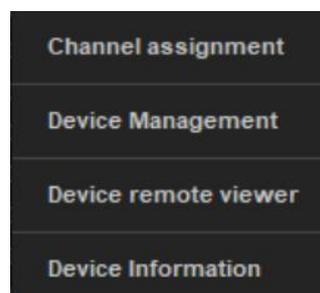
### Connection status

Depending on the device's status, a specific badge is attached to the recorder icon and camera icon.

1. If a device is assigned to the Live or Playback panel, it will be marked with a  green badge.
2. If the network or device is turned off and cannot be connected, a  red badge is displayed.
3. If the device ID or password is incorrect, a  yellow warning badge is displayed.
4. If the device is reconnecting, a  blue badge is displayed.

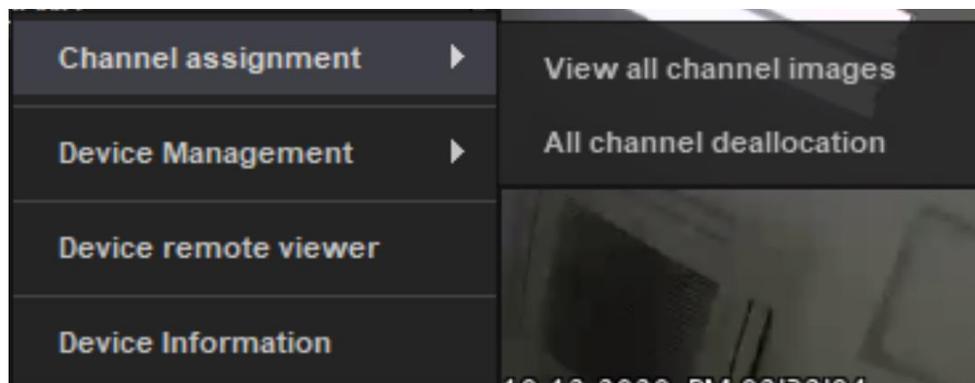
### Context menu

You can use the context menu by clicking the right mouse button on the device list.



#### - Channel video

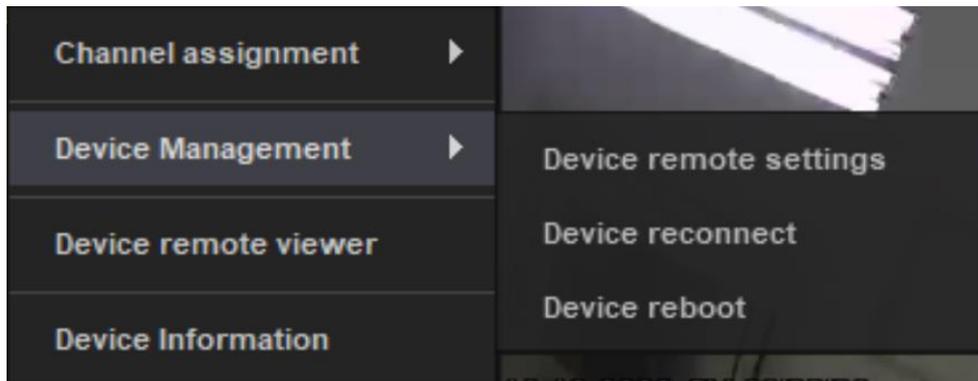
You can view channel video and turn off channel video in the channel video menu.



#### - Device management

- a. In the Device Management menu, you can remotely configure the device, reconnect

the device, and restart the device.



- b. Device remote setup is a function that opens a web page where device setup is possible. You can use the functions that can be set in the DVR / NVR in the web service.

A screenshot of a web form titled 'DVR Web Service Login'. The form has a yellow background. It contains three input fields: 'ID', 'Password', and a checkbox labeled 'Save id'. The 'Password' field has the placeholder text 'User Password'. To the right of the input fields is a 'Login' button.

- c. You can try to reconnect to a disconnected device by using the device reconnection function. You can restart the device using Restart Device. To restart, you need to log in with the admin account of NETUS-Pro and enter the password of the admin account.

A screenshot of a dialog box titled 'DEVICE REBOOT: USER AUTHENTICATION'. The dialog box has a dark background with white text. It contains two input fields: 'Id' and 'Password'. The 'Id' field has the text 'admin' entered. There is an 'Ok' button at the bottom right of the dialog box.

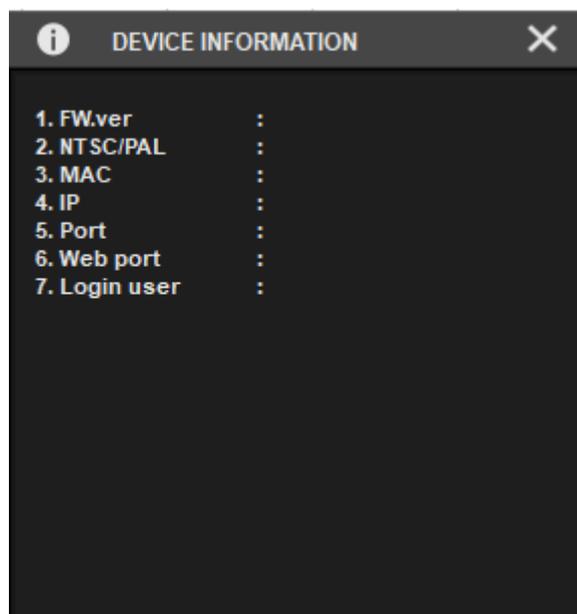
- **Device remote viewer**

Device Remote View allows you to manipulate the device's screen without connecting a display to the device.



- **Device information**

Click Device Information to view the firmware version, NTSC/PAL, MAC, IP, Port, Web Port, and Login User for the selected device.

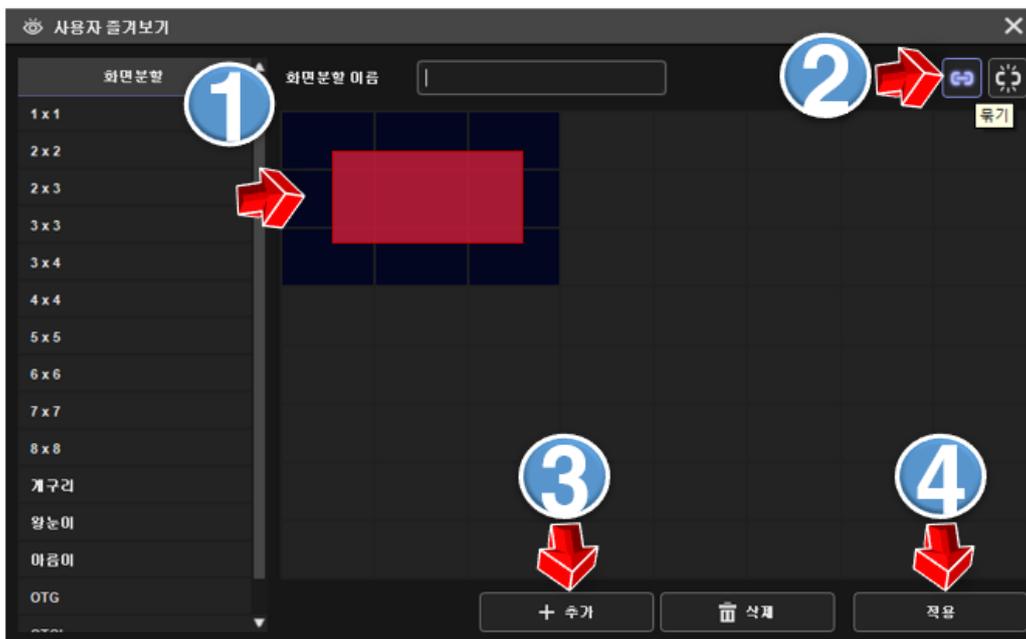


## 11. User display setting

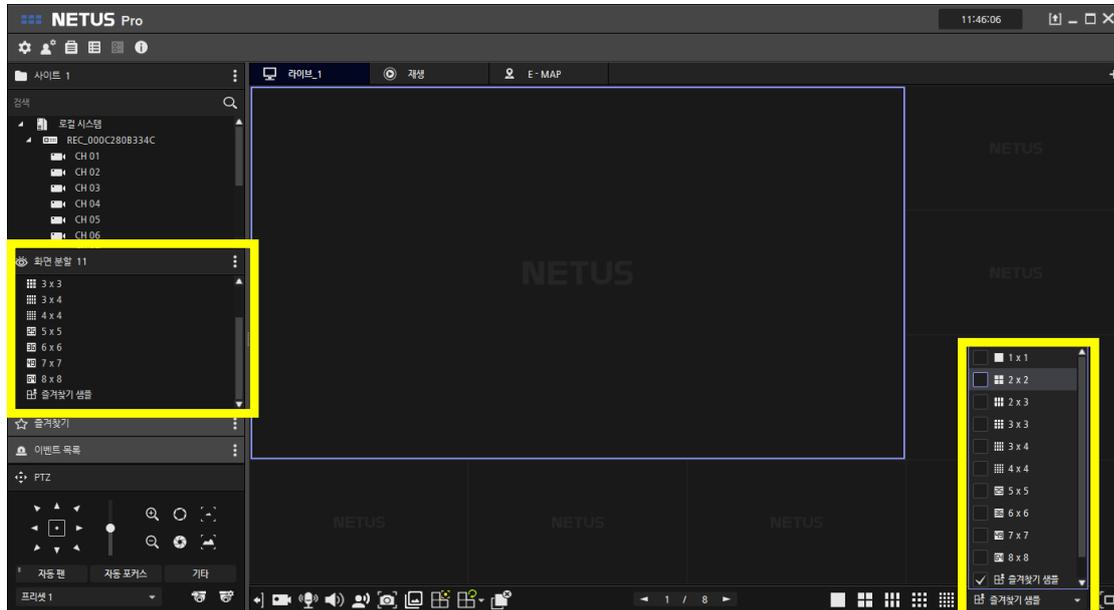
From the side menu, click the " User Layout " button on the Split Screen tab to open the " User Favorites " window.

The split screen setting window consists of 8 X8 cells. Set this cell to the size you want to display. And tie it with the number 2 button. Repeat the settings above.

When the setting is complete, press the 3rd add button and the 4th apply button ends the setting.



If the split screen setting is properly applied, the screen setting added to the side panel split tab and the right combo box of the bottom menu will be shown. Click on the newly added screen to apply it to the panel.

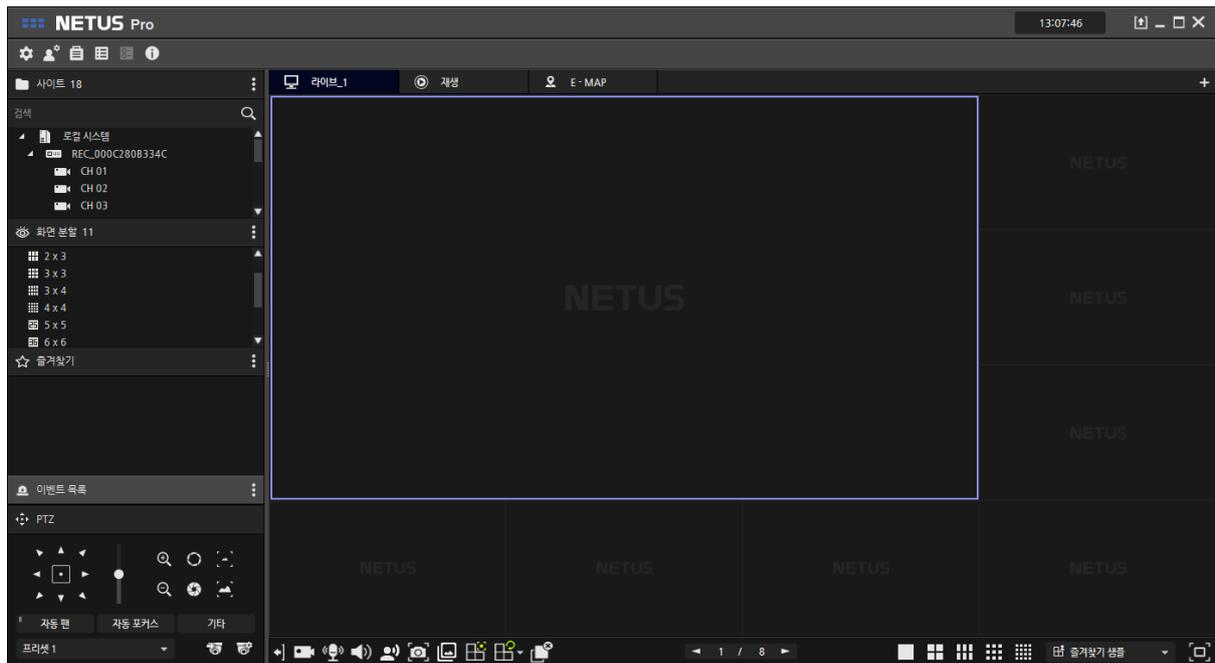


## 12. Favorite

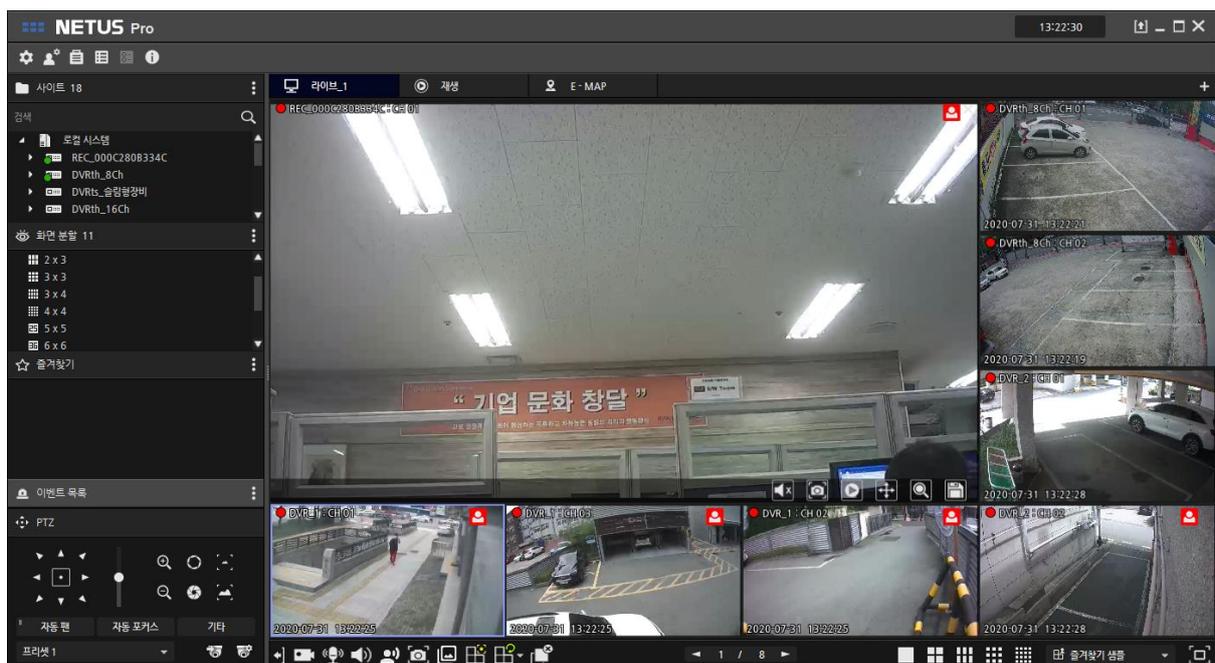
Using the Favorites function, you can save the live screen composition, the arrangement of the NETUS-Pro panels on the monitor, and the added tab menus. The playback tab is not registered to favorites.

### How to add favorites

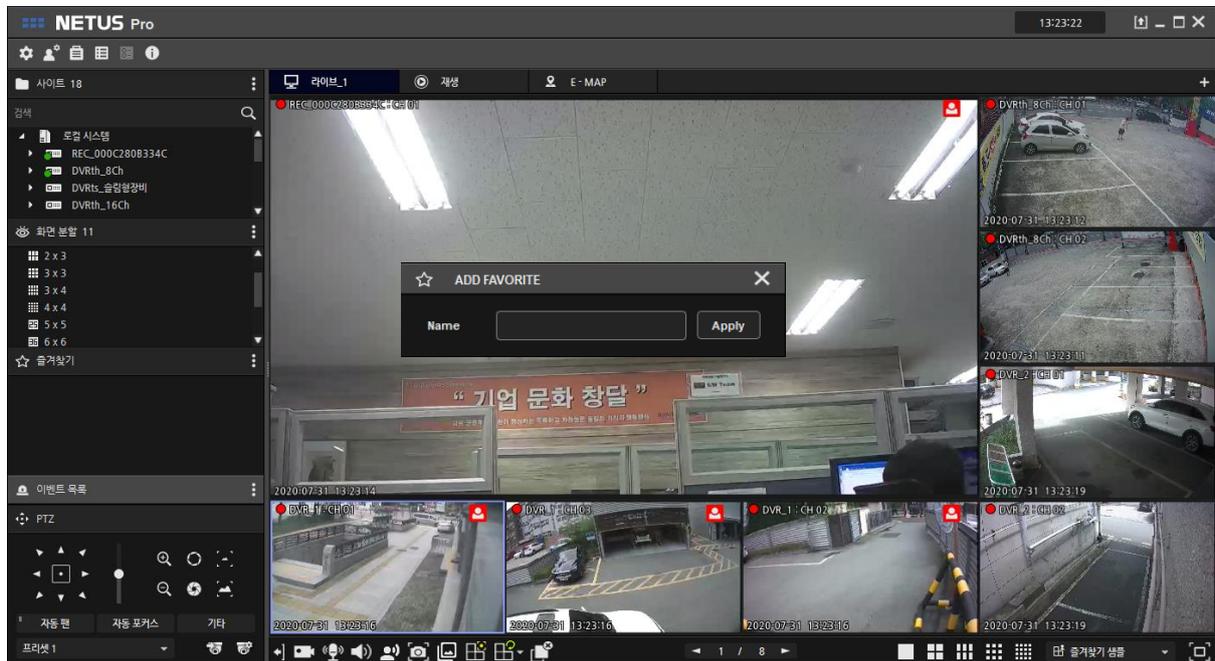
From the side menu or bottom menu, select the split screen to organize your favorites.



Drag and drop the devices to play live on the screen as favorites.

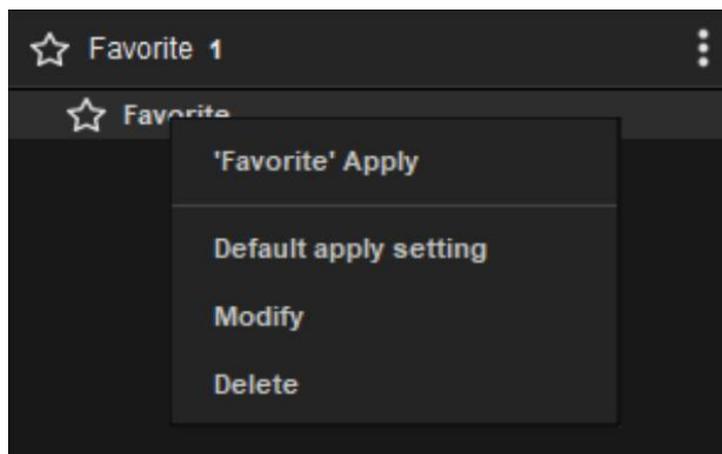


Click the Add Favorite button to enter the favorite name and click the Apply button to set the favorite.



### How to apply favorites

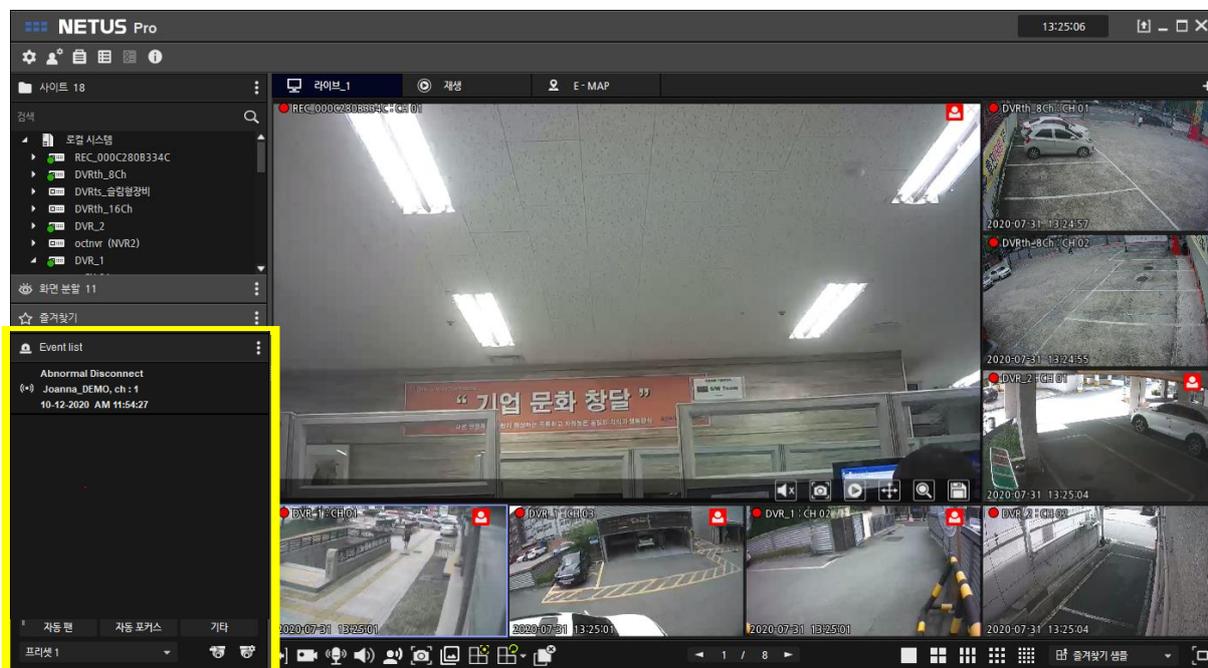
1. Double-click the Favorites list on the side menu.
2. Drag and drop the favorites list from the side menu to the live panel.
3. Right-click on the Favorites list in the side menu and click the Apply button.



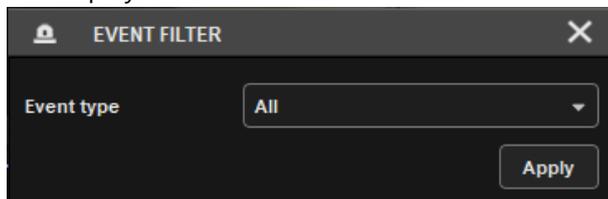
If you click the "Set as Default" button, when NETUS-Pro is launched, it will run as the default setting. You can edit and delete bookmarks with the edit and delete buttons.

### 13. Event list

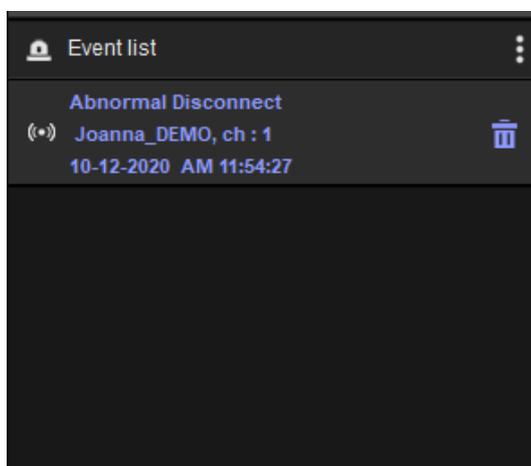
The problem with the device is a lively setting or event " Event Notification " If you operate in , side- menu of the event list is written notifications.



You can filter the events to be displayed in the event list with the event filter function.

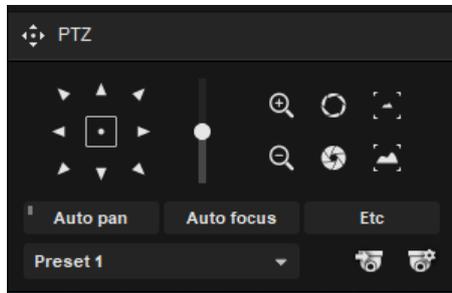


Click the list item to display the trash can icon, and click the icon to delete the item. Events displayed in the event list can be checked again in the event manager.

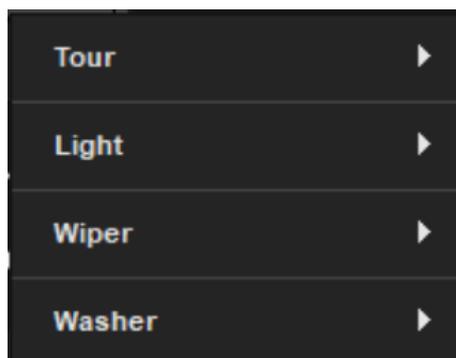


## 14. PTZ

You can use the PTZ function of the connected device in the PTZ tab of the side menu.



- **Pan function** : Move the camera to select the direction of the arrow.
- **Speed setting** : Set the camera movement speed.
- **Zoom the In / Zoom Out** : The zoom in / out the camera view.
- **Iris** : Opens and closes the camera iris.
- **Focus** : Sets the camera's focus.
- **Auto Pan** : The camera automatically rotated.
- **Auto Focus** : The camera automatically match the camera's focus.
- **Others** : You can set up a tour, light, wiper and washer. It works only if the camera has the function. Click the Other button to display the corresponding menu.



- **Tour**: The camera moves in the preset order.
- **Light**: Turns the camera light on and off.
- **Wiper**: Activates the camera wiper.
- **Washer**: Cleans the camera lens.

- **Preset** : the user to set the desired time of up to 256, you can immediately move the camera to that position.
- **Preset Move** : Move to the preset selected in the combo box.
- **Preset setting** : Save Preset Select the current position in the combo box.

## 15. Setting

User, event, and E-MAP can be set by pressing the setting button  in the system menu.

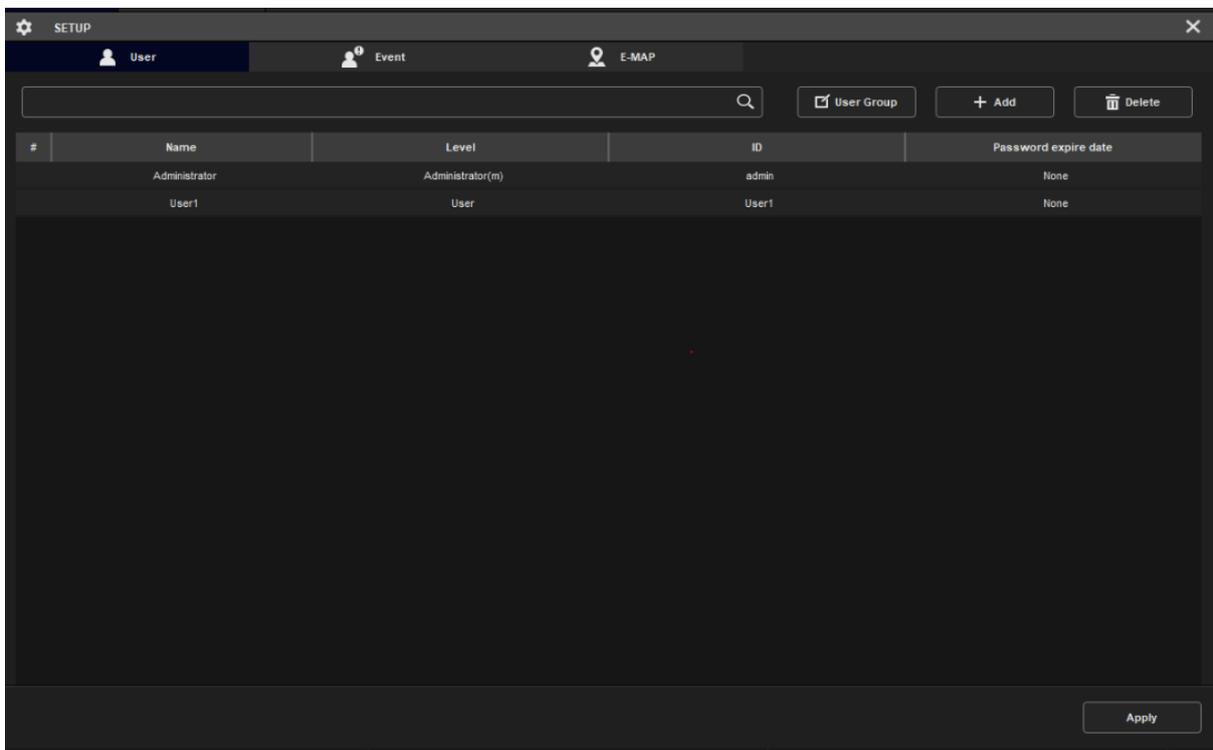
### [User]

You can add, delete, and manage users of NETUS-Pro.

### User setting

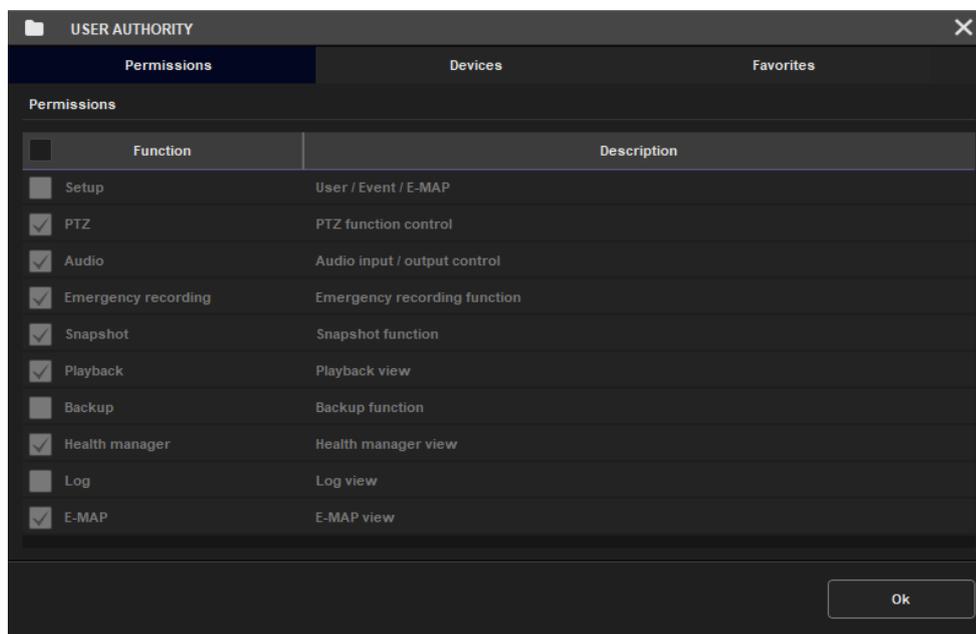
You can create a new user to log into NETUS-Pro.

New user registration can only be registered with the " admin " account.

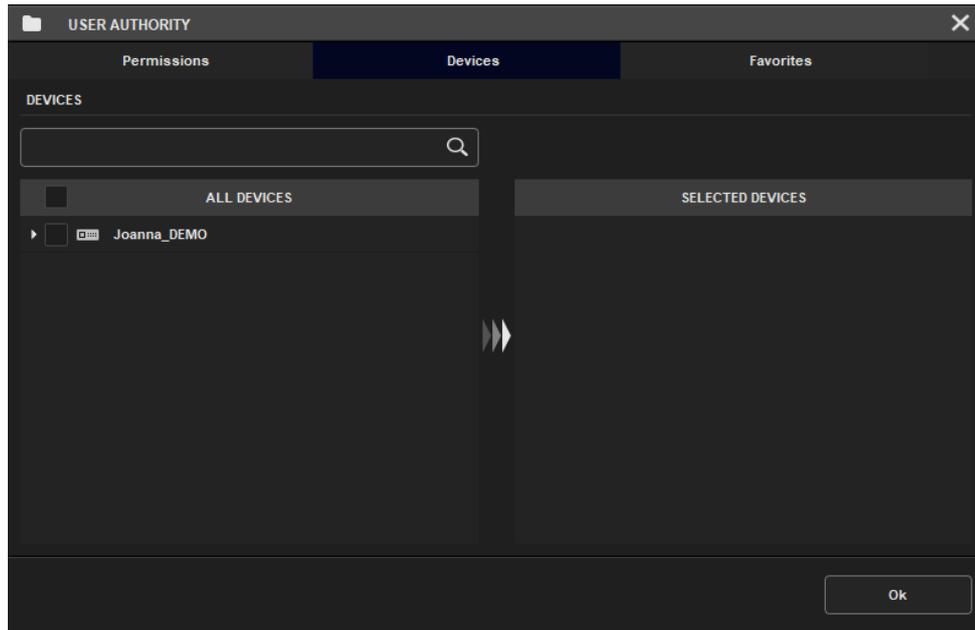


## How to register

1. Click the " Add " button on the User tab to create a new user.
2. Specify the user group in " Group " . The functions available to users vary depending on the group.
3. If you set the group " fix permissions " , click the button to set up your device, use favorites.
  - a. Set the permissions set for the user. The group "No" if set to "fix permissions" you can set the permissions in this step.



- b. On the Device tab, users can set up the device to be used. Click the arrow button in the center to add a device.
- c. In the Favorite tab, users can set up the favorites to be used. Click the arrow button in the center to set a favorite.

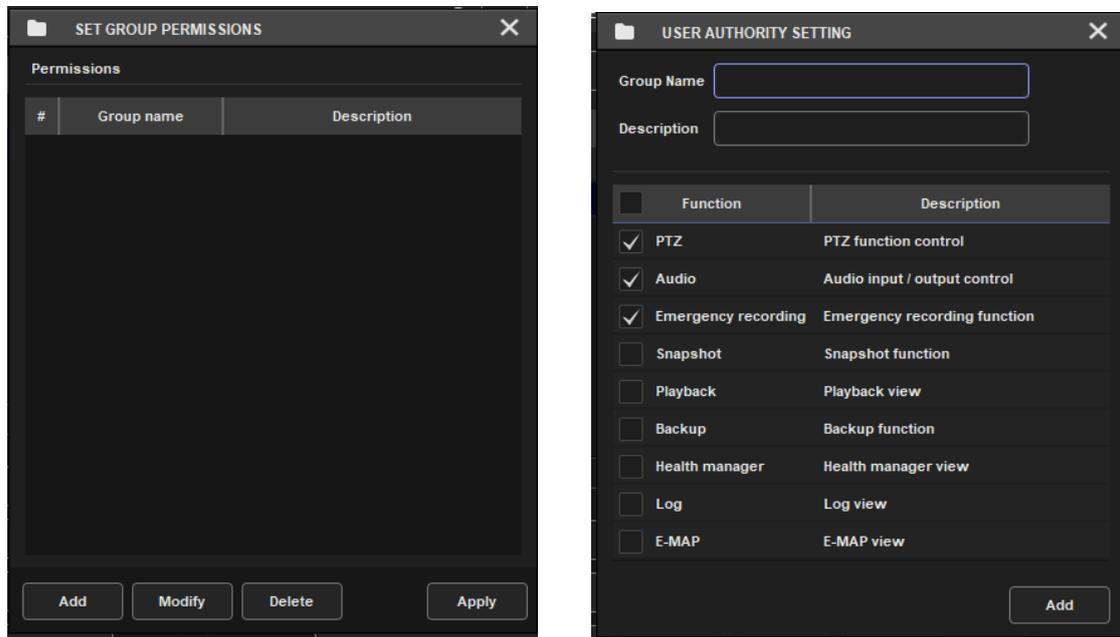


d. Click the "OK" button to finish editing the authority.

1. Enter your user name in " Name " .
2. Enter the user ID in the " ID " field. ID can be set up to 12 digits and can only be composed of numbers and alphabets.
3. Enter the user password in the " Password " field. The password must be at least 8 digits and no more than 12 digits, and must contain at least one letter, number, and special character. Also, you cannot use the same character or consecutive characters more than three times.
4. You can set the password expiration date through the " Password expiration notification " check box. The password expiration date is set to 3 months by default.
5. Click the " Apply " button and log in as the created user after the program ends.

## Add user group

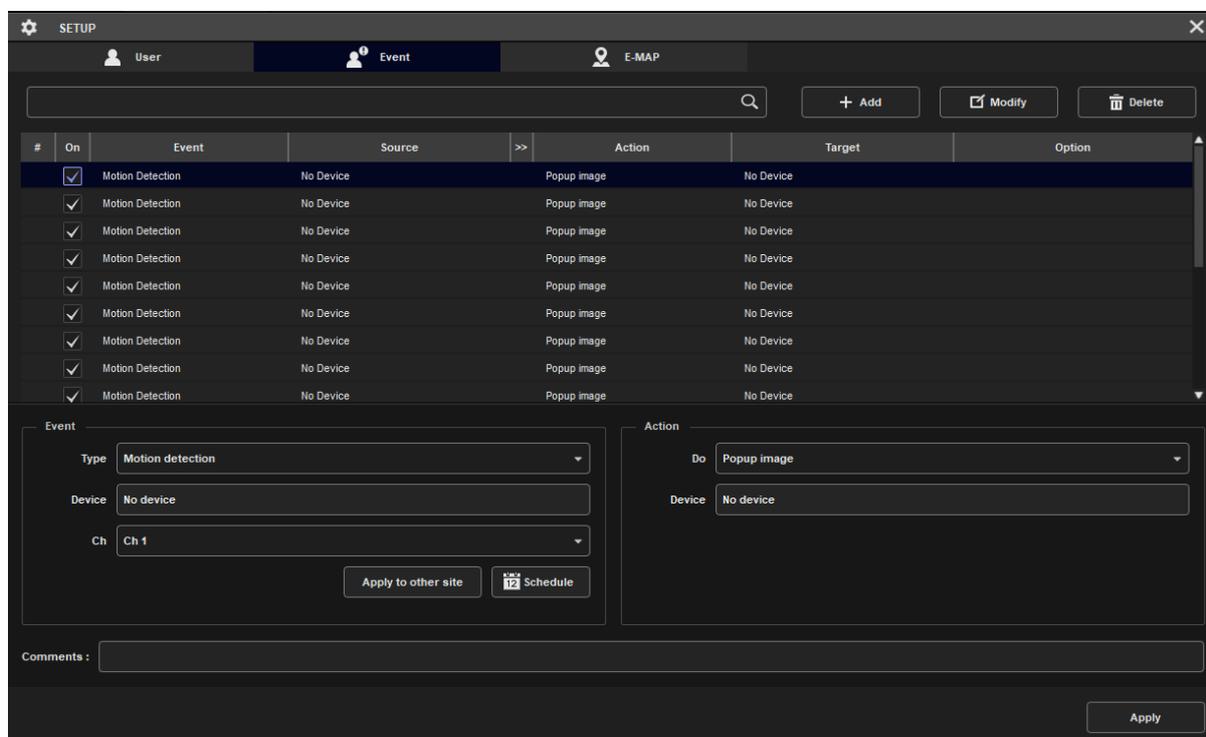
You can create a new user group in the admin account.



1. Click the " User Group " button
2. Click the " Add " button
3. Enter the group name and group description (optional), and check the privileges to be included in the new group.
4. Click " Add " button to complete group creation.
5. Click the " Apply " button to save the created group.
6. You can check the newly created user group in the " Group " combo box.
7. " Modify Permissions " on the button, you can check the permissions of the currently selected group of users.

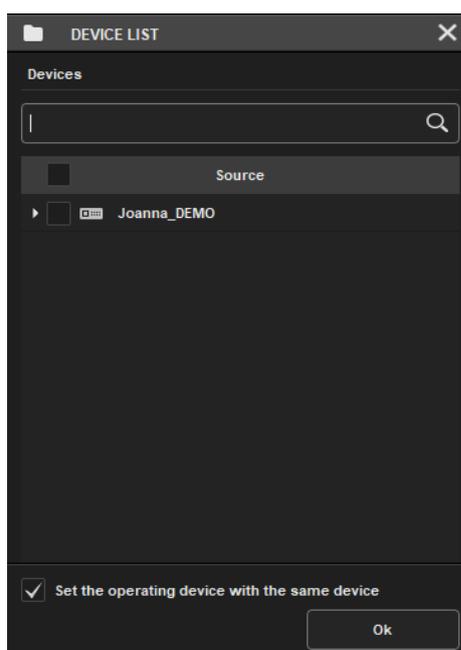
## [Event]

When a recording event (motion detection, sensor) occurs in the connected device, a specific action can be triggered in NETUS-Pro.



## Event setting method

1. Click the " Add " button in the Events tab .



2. In the " Device List " dialog box, select the channels of devices to set the event.

3. If you check " Set operating device with same device", you can set the action for the event with the same device as the device where the event occurred.

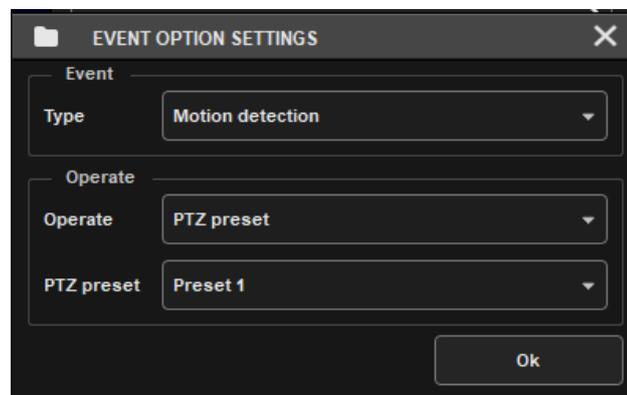
4. Click the " OK " button.

5. In the " Event Options Settings " dialog box, set the event type and the NETUS behavior when the event occurs.

Ex) PTZ preset is executed when motion event is detected.

6. Click " OK " button to create an event.

- Action type



1. **PTZ Preset** : Move to the set position of the camera viewpoint

2. **Event Spot** : On the screen set as an event spot, video is output to the event spot set when an event occurs (up to 16 per live panel), Live 1, 2, 3, 4 of the combo box are on the tab menu. Means the live panel number. You can set up to 16 event spots per live panel.

3. **Audio output** : When an event occurs, the set sound can be output. You can set the desired sound by registering the wav file by using the " Open " button.

4. **Quick View** : This is a function that pops up the video on the monitor. If there are multiple monitors, you can select the monitor number. Up to 16 quick views can be popped up.

5. **Pop-up image** : When an event occurs, the video currently being played is captured and displayed, and the image is saved. In " Preferences ", "Use pop-up image " should be checked in the pop- up tab .

6. **Event Notification** : Displays the events that have occurred in the event list on the side panel.

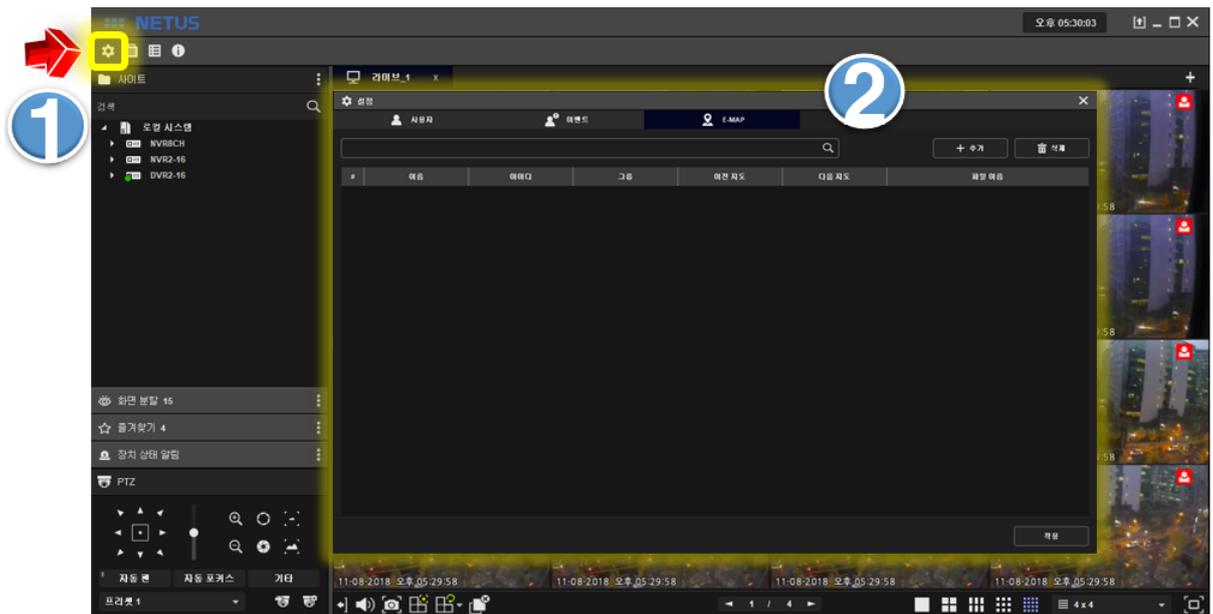
7. **Notification pop-up** : Displays the occurred event as a notification pop-up. In " Preferences " , "Use notification pop-up " should be checked in the pop- up tab .

## [E-MAP]

E-MAP can intuitively determine the camera location using a map image. To use E-MAP, you need to register the map image in " Settings " .

### How to set up E-MAP

1. Click the " Add " button in the E-MAP tab .



2. Enter the name and ID of the E-MAP.
3. E-MAP groups can be created by clicking the group box. Please group related maps.
4. If you connect E-MAP using the previous map and the next map, you can easily switch E-MAP with the page button on the E-MAP panel.
5. Click the " Open File " button to register the map image.
6. Click " Apply " button to finish E-MAP registration.
7. You can check the added E-MAP by selecting the E-MAP panel from the tab menu.

## 16. Sigma account registration

If you register a Sigma Server account, you can download pre-registered devices from Sigma Server without having to register devices in the site administrator.

After signing up for Sigma Server on the mobile app, you can register your Sigma account with NETUS-Pro.

### Sigma account registration

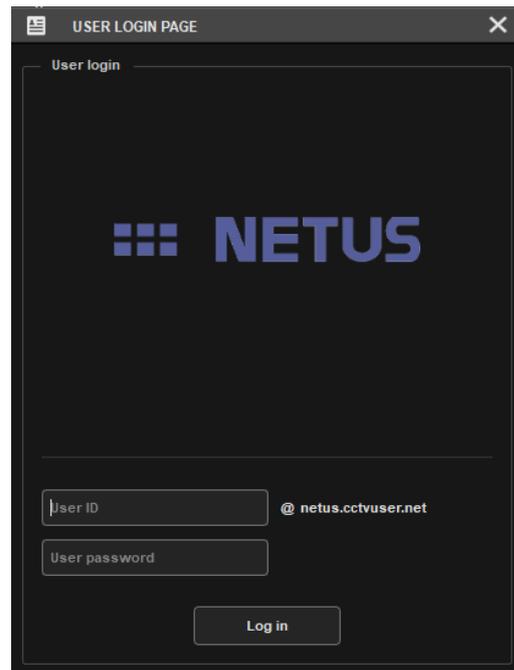
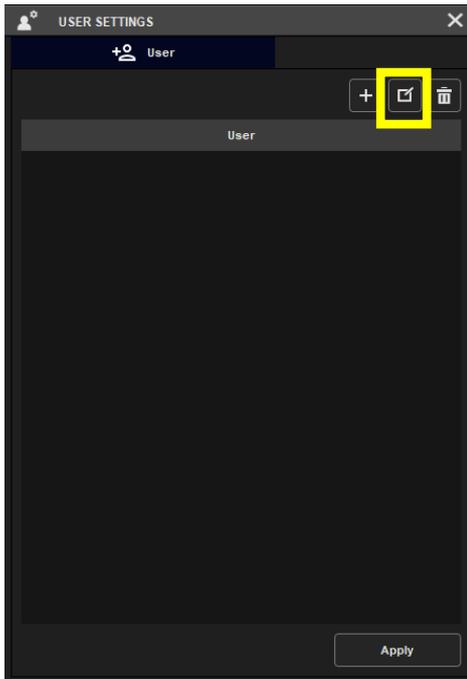
It can be used after entering the sigma host name in Environment Settings> Others.

The screenshot shows a configuration window titled 'CONFIGURATION' with a close button (X) in the top right corner. On the left is a sidebar with menu items: System, Device, Display, Log, Popup, and Etc (which is highlighted). The main area contains several settings sections:

- Session restoring:** A checkbox labeled 'Restoring recently connected sessions when program starts' is currently unchecked.
- System auto lock:** A dropdown menu labeled 'System auto lock' is set to 'None'.
- Full screen start:** A checkbox labeled 'Start the program in full screen' is currently unchecked.
- Sigma server host name:** This section is highlighted with a yellow border. It contains a text input field with the placeholder 'Host name' and a search icon (magnifying glass) on the right.
- Apply setting:** A checkbox labeled 'Address list, event, user info included' is currently unchecked. Below this are two buttons: 'Import' and 'Export'.

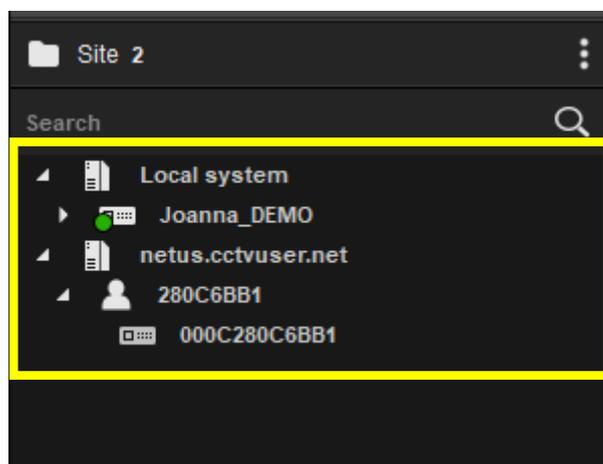
At the bottom of the dialog are two buttons: 'Ok' and 'Cancel'.

When host registration is complete, click the Subscriber Registration button  in the system menu to open the Subscriber Setting window. Click the Add Subscriber button  to enter the Subscriber Login page.



Enter the subscriber ID and subscriber password and click the " Login " button. If the Sigma account has been added to the subscriber setting window, click the " Apply " button to complete the registration.

If subscriber registration is complete, you can see that the Sigma Server device has been added to the site tab.



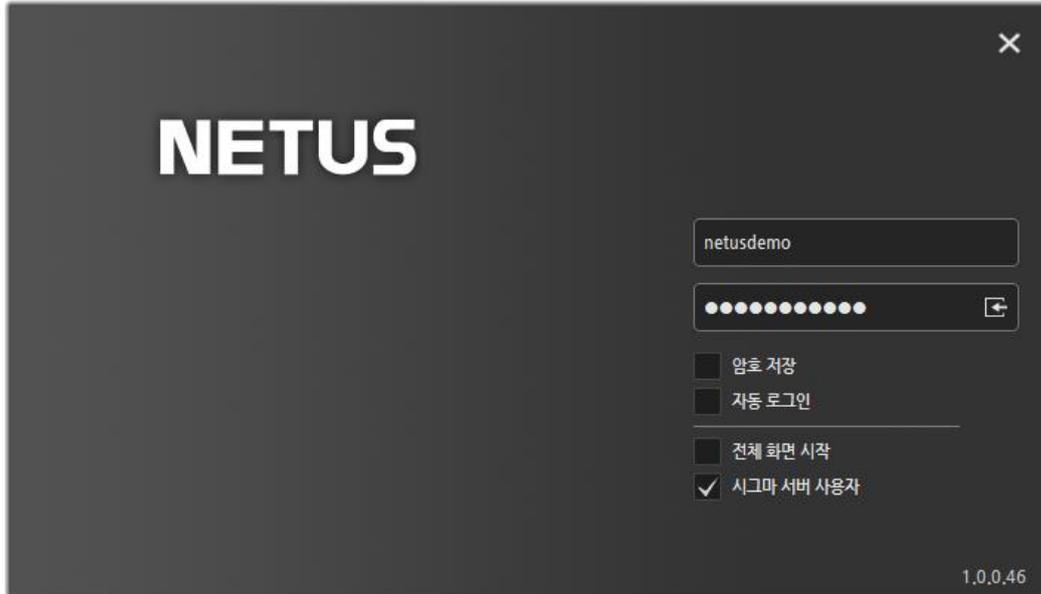
Sigma account can be edited or deleted by using the Modify Subscriber button  and Delete Subscriber button .

### Sign in with Sigma account

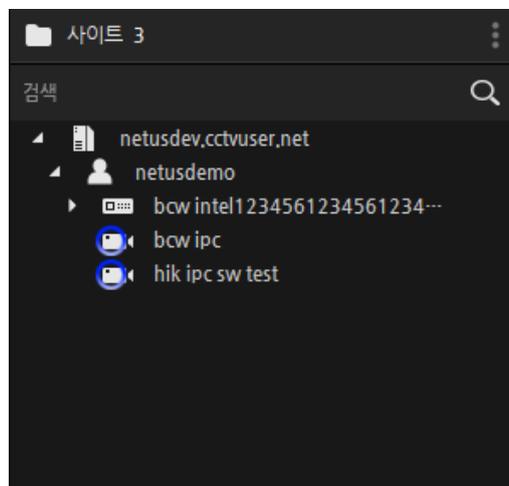
Upon login, you can log in to NETUS-Pro with your Sigma account. In this case, locally registered devices cannot be loaded.

Check " Sigma Server User " , enter the Sigma account ID and password, and log in.

If a Sigma account is registered in the subscriber setting window, it will operate the same even if you do not check " Sigma Server User " and add a host name to the ID. E x) account@host



When logging in with a sigma account, only devices of that sigma server are displayed on the site tab.

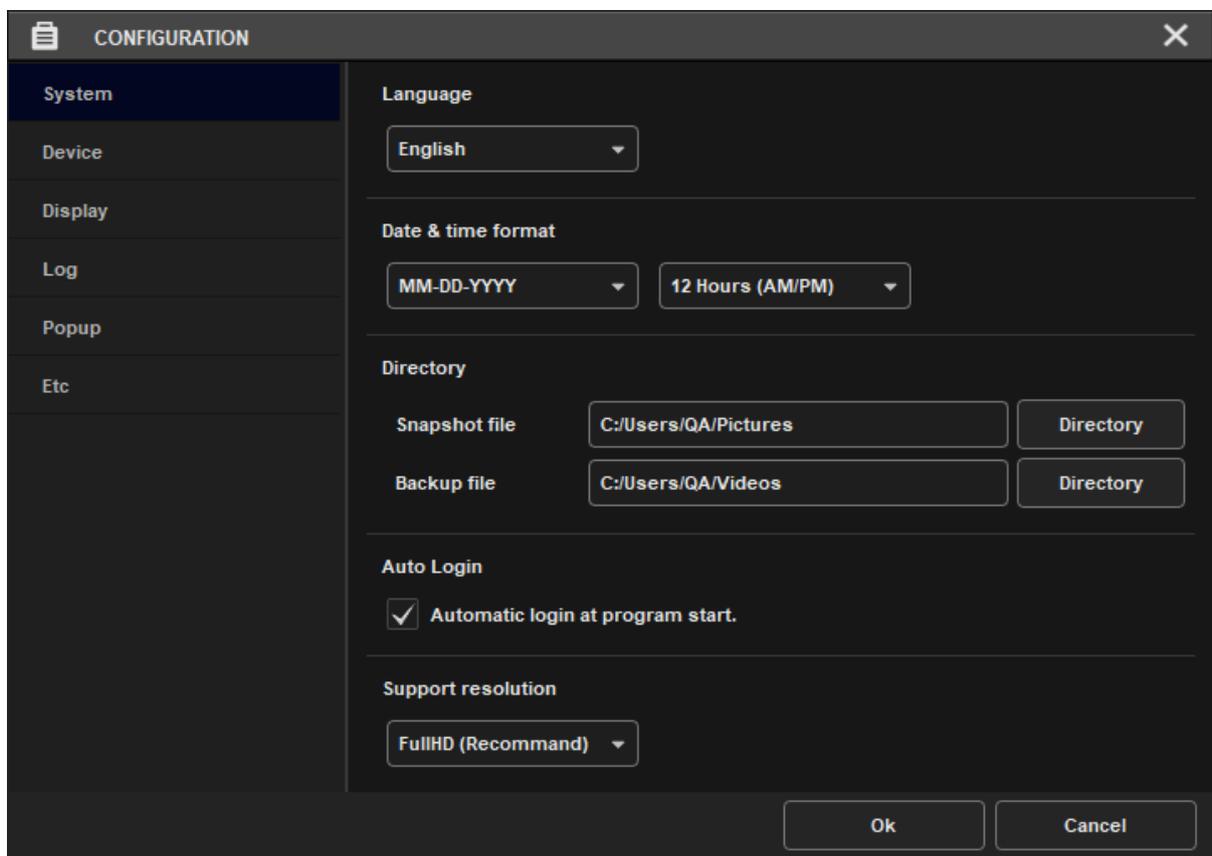


## 17. Preferences

You can manage the settings of NETUS-Pro from the Environment Settings button  in the system menu.

### System

You can set the language, date display, and resolution of NETUS-Pro .



**Language** : You can set the language of NETUS-Pro.

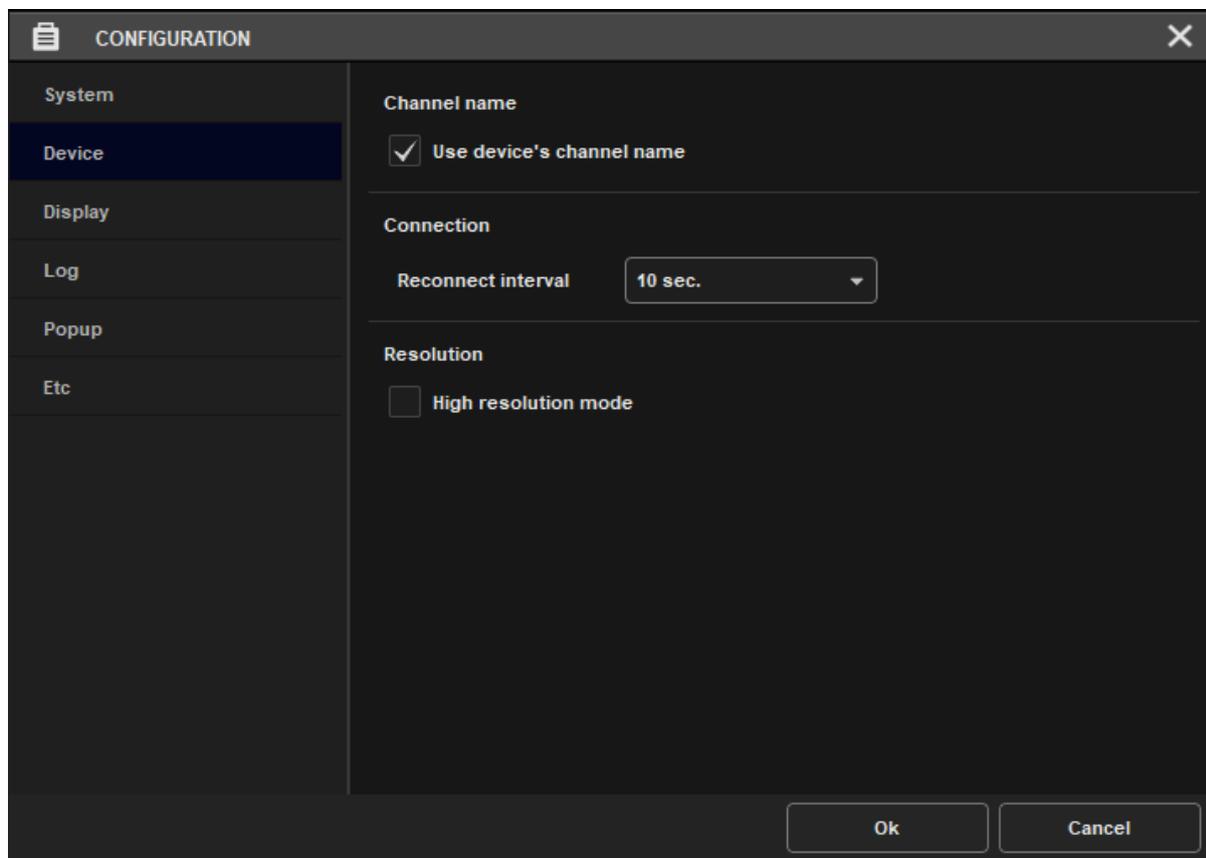
**Date & Time Format** : Displays the time and log recording date on the display screen in the selected format.

**Path** : Select the path to save the video snapshot and backup file.

**Automatic login** : **Automatically log** in as the last logged in user when running.

## Device

These are settings for devices connected to NETUS-Pro .



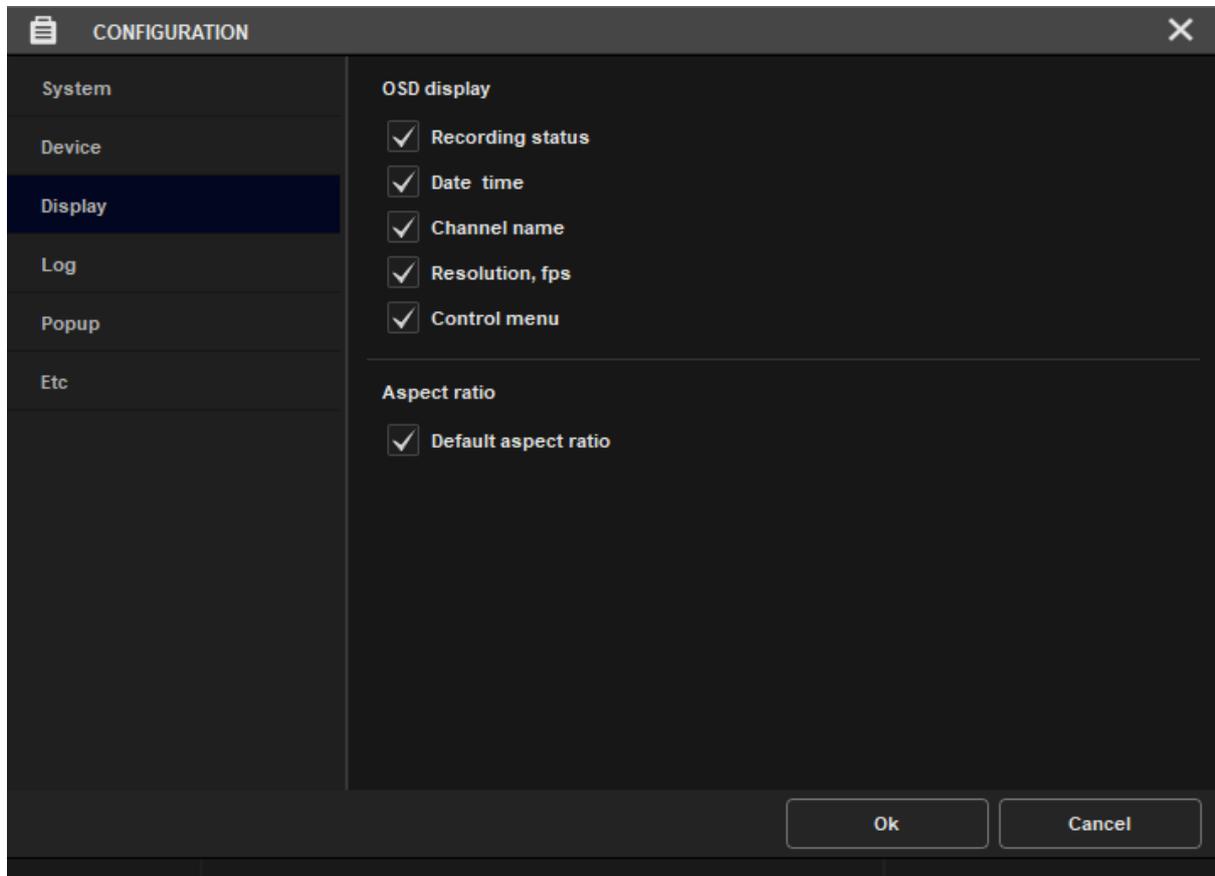
**Device Channel Name** : When displaying the device's channel, it is displayed as the channel name specified by the device. When unchecked, the device name set in NETUS-Pro is displayed.

**Reconnection Interval** : Reconnection to unconnected equipment is attempted at a set **interval** . If you have many connected devices, setting a longer cycle will help improve performance.

**High Resolution Mode** : Streams all display screens on the live panel in high resolution. Depending on the device specifications, only some screens may appear in high resolution.

## Screen

Set the display screen on which the video is displayed.



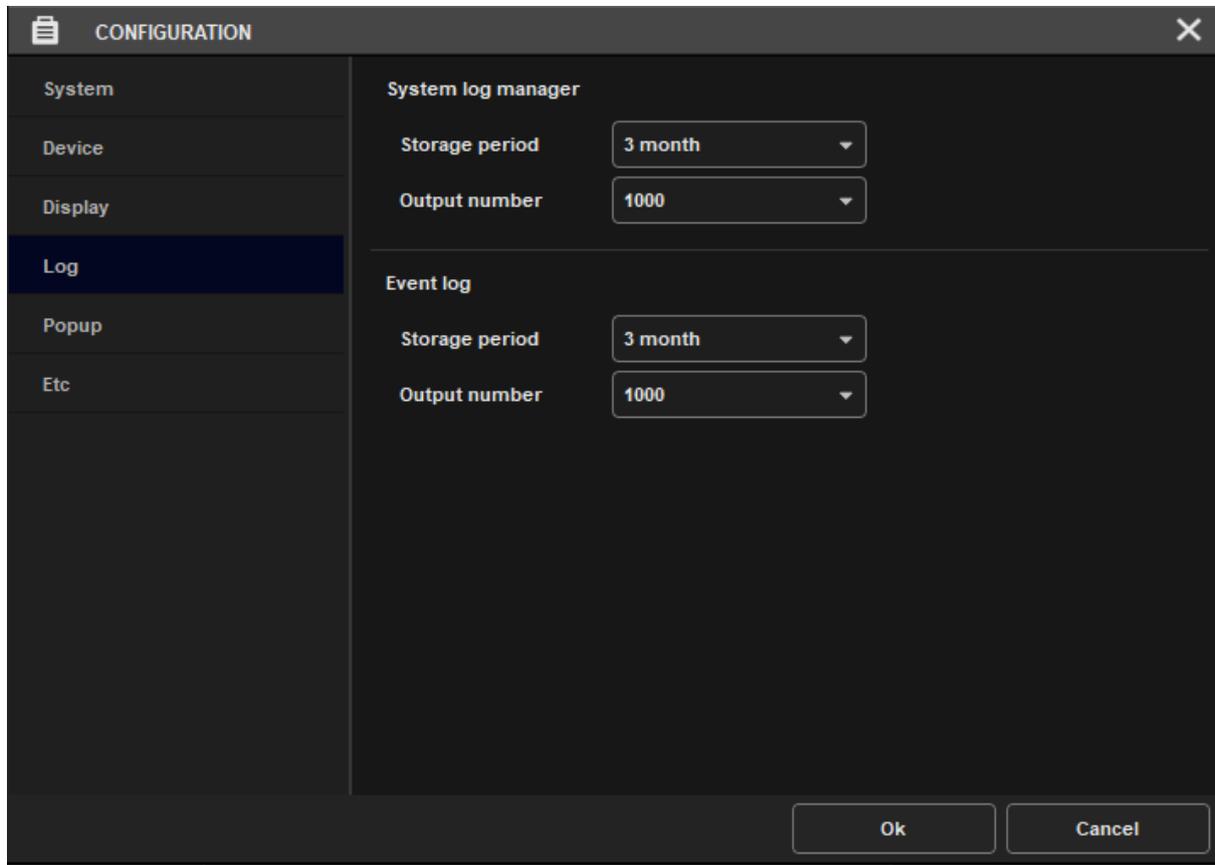
**OSD Display** : Displays the checked item on the display screen.

1. Recording status: During recording, a red icon is displayed.
2. Date and time: The date and time are displayed.
3. Channel name: The channel name is displayed.
4. Resolution, FPS: Displays the resolution and FPS of the video currently playing.
5. Control Menu: When you mouse over the display screen, the menu bar is displayed at the bottom of the screen.

**Original resolution ratio** : When checked, the display screen is shown in the original resolution ratio.

## Log

This is the setting for logs output from the log manager and event manager.

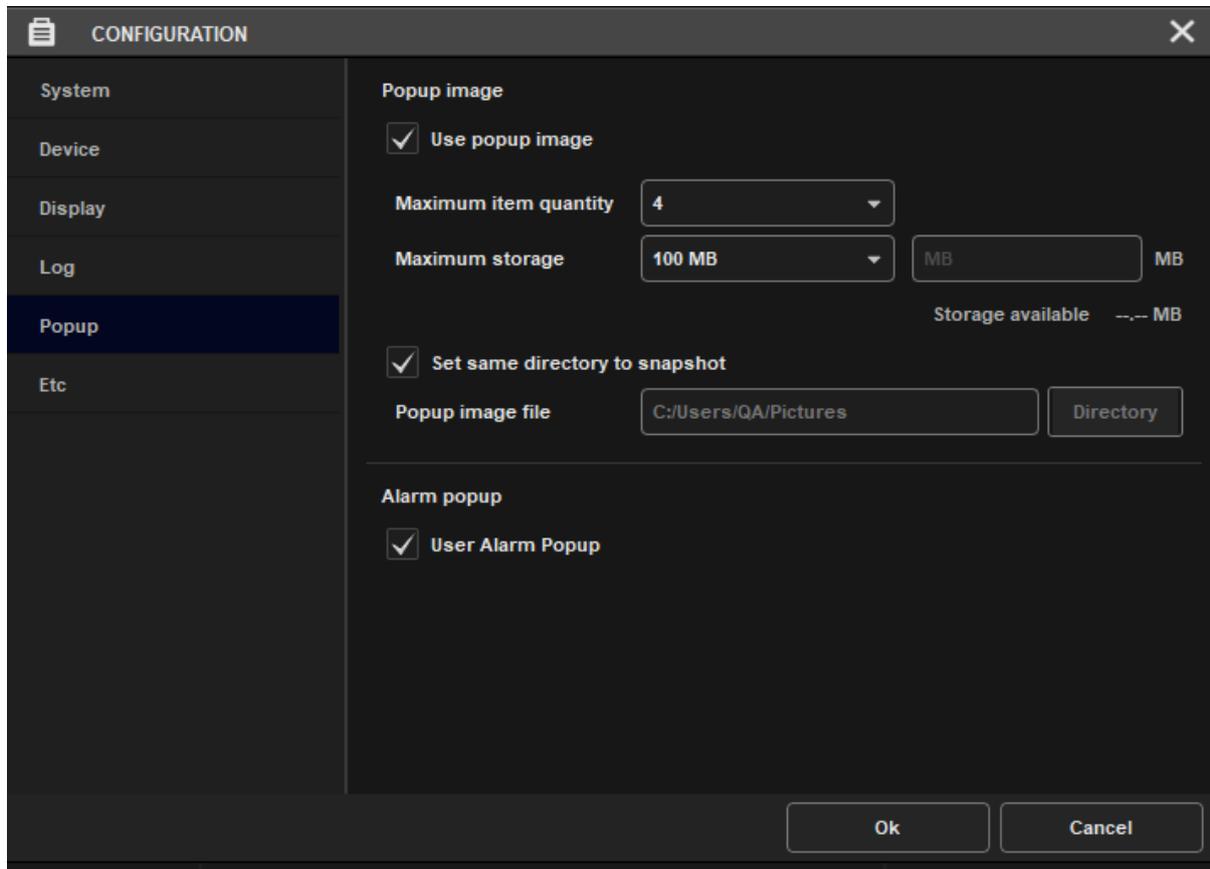


**System Log** : Set the storage period and maximum number of logs output from " Log Manager " .

**Event Log** : Set the storage period and maximum number of logs output from " Event Manager " .

## Pop-up

Set the pop-up image and notification pop-up.



**Use pop-up image** : Activates the button to open the pop-up image window of the system menu . 

**Maximum list items** : Set the maximum number of images to be displayed in the pop-up image window.

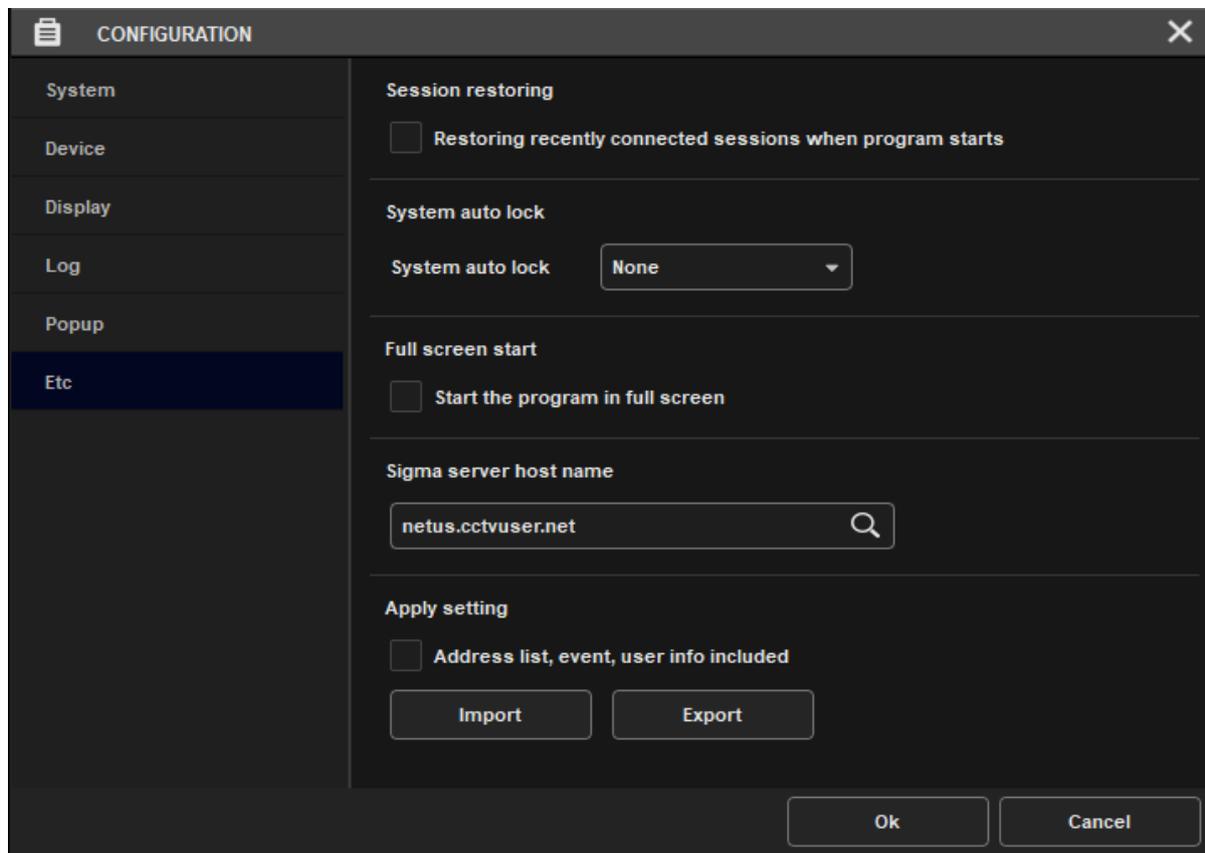
**Maximum storage capacity** : Set the maximum allowable capacity required for saving pop-up images.

**Use the same path as the snapshot** : When checked, the path to save the pop-up image is set to the same path as the snapshot path saved in the System tab.

**Notification Popup** : Displays a notification popup when an event that operates as a notification popup is set in " Event Settings " .

## Etc.

These are settings for other functions provided by NETUS-Pro.



**Session Restore** NETUS-Pro immediately before the end at the beginning: the start of the program in the same state (device connection, layout, etc).

**Automatic system lock** : NETUS-Pro is locked after the set time has elapsed. You can unlock it by clicking the tray icon on the desktop taskbar.

**Full Screen Start** : Starts in full screen when NETUS-Pro starts.

**Apply settings** : Save or load NETUS-Pro setting information, address book, and user information as a file.

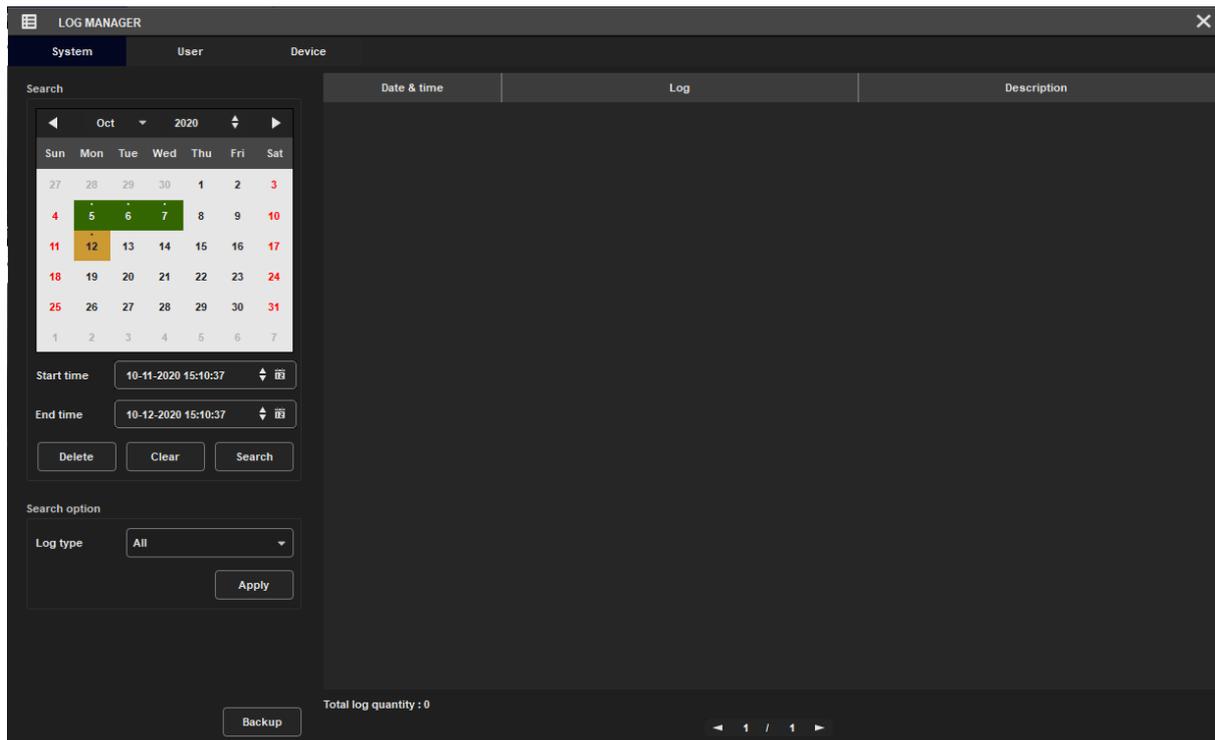
If you check " Include address book, event and user information " , you can import or export only .db3 files that include address book, event, and user information.

If you uncheck " Include address book, event, user information " , you can also import or export the .xml file that stores the setting information.

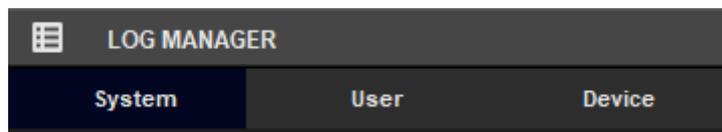
## 18. Log Manager

You can search NETUS-Pro logs and device logs from the Log Manager button in the system menu 

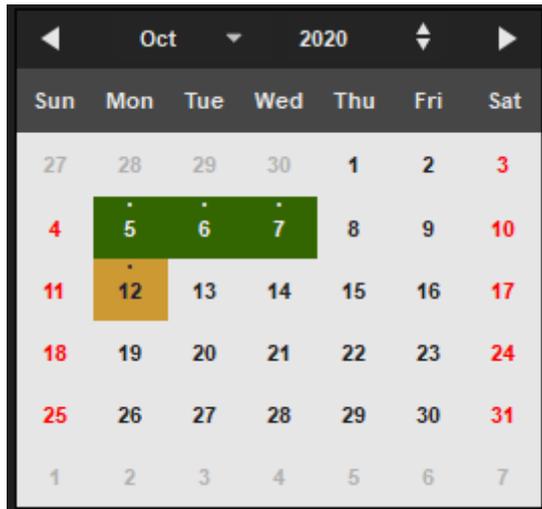
### Log manager configuration



Log Manager consists of three tabs: System, User, and Device.



The date when the log is recorded is indicated in green on the left calendar.



Click on a date with a log in the calendar to get the log for that date.

Date & time	Log	Description
10-05-2020 AM 09:19:59	Start system	
10-05-2020 AM 09:20:03	System log in	admin
10-05-2020 AM 09:20:41	Shut down system	
10-05-2020 AM 09:20:48	Start system	
10-05-2020 AM 09:20:51	System log in	admin
10-05-2020 AM 09:21:18	Shut down system	
10-05-2020 AM 09:21:26	NTP time synchronization	
10-05-2020 AM 09:22:21	Start system	
10-05-2020 AM 09:22:33	System log in	admin
10-05-2020 AM 09:23:10	Setting has been changed	admin
10-05-2020 AM 09:23:12	Shut down system	
10-05-2020 AM 09:23:44	Start system	
10-05-2020 AM 09:23:49	System log in	admin
10-05-2020 AM 09:38:05	Start system	
10-05-2020 AM 09:38:10	System log in	admin
10-05-2020 PM 01:27:09	Start system	
10-05-2020 PM 01:27:14	System log in	admin
10-05-2020 PM 01:34:45	Start system	
10-05-2020 PM 01:34:49	System log in	admin
10-05-2020 PM 01:38:58	Start system	

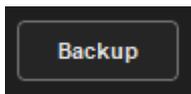
You can search, reset, and delete logs using the buttons in the image below. Device logs do not provide a delete function.

Set the " Start Time " and " End Time " and click the " Search Button " to retrieve logs of multiple dates at once. You can also select a date by tapping the calendar shape.

You can delete the log by clicking the " Delete " button.

You can clear the searched log list by clicking the " Reset " button.

You can export the retrieved log to a csv file.

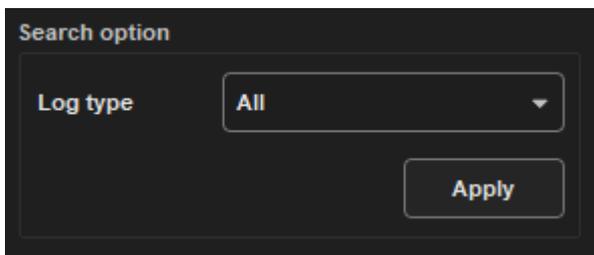


You can extract the logs shown in the current list into csv files with the " Backup " button.

## System log

Shows logs of major NETUS-Pro operations.

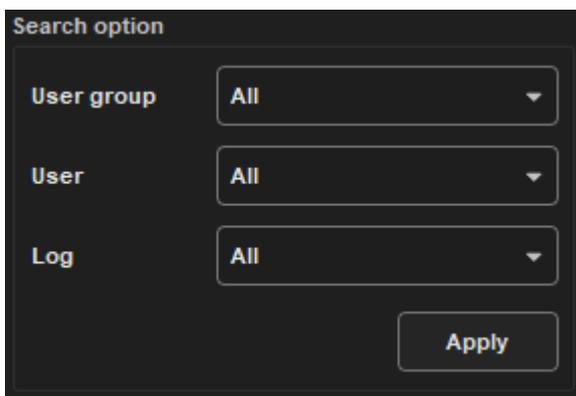
You can filter the logs through " Search Options " .



## User log

Displays logs for NETUS-Pro users. The deleted user is displayed as Unknown user and the ID before deletion is displayed in the description field.

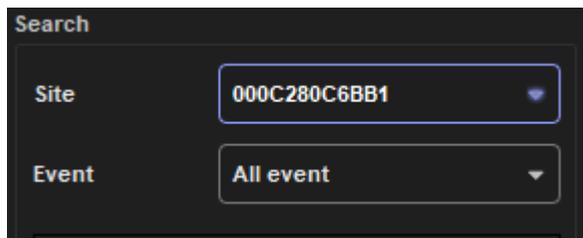
You can filter by user group, user and log by using the combo box in " Search Options " .



## Device log

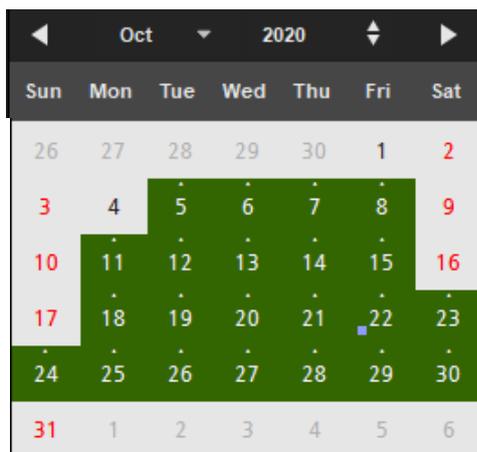
You can search the logs recorded on the devices connected to NETUS-Pro.

Select a device to retrieve logs from the site combo box and click the event to search in the event combo box. The maximum number of logs that can be retrieved from the device log is 10000. If it exceeds 10000, set the event you want to search in the event combo box.



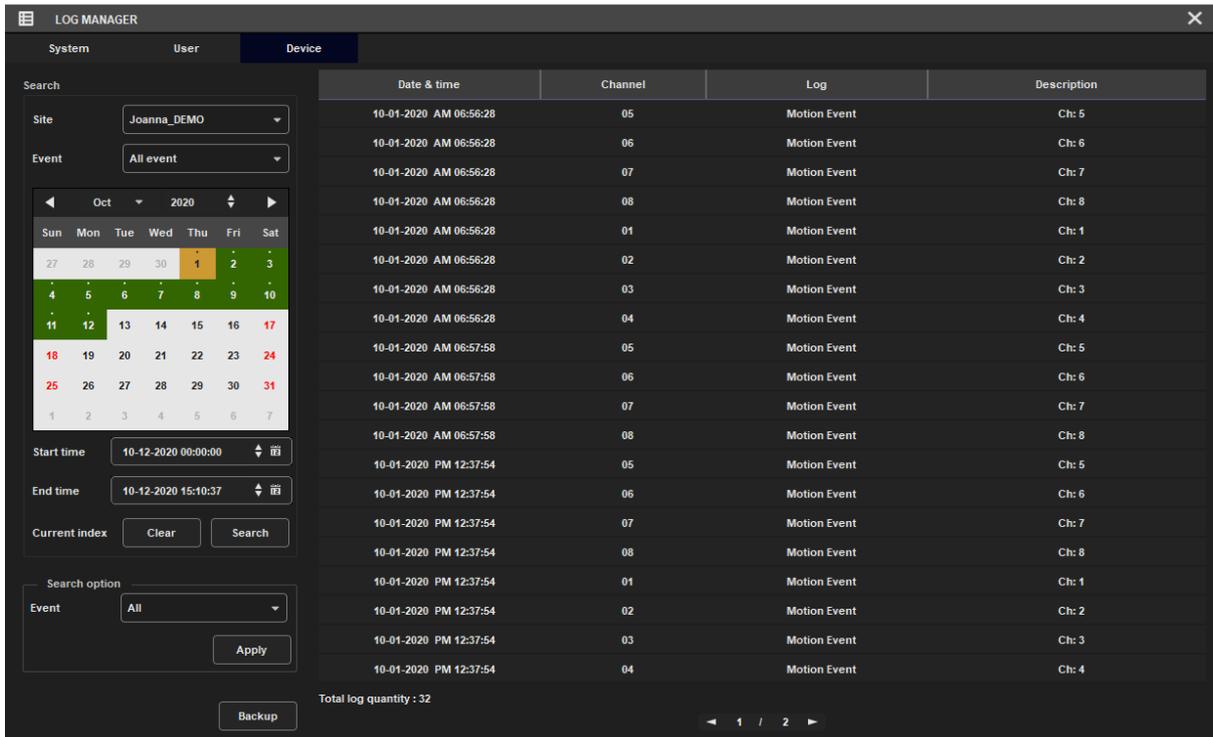
The screenshot shows a search interface with two dropdown menus. The first menu is labeled 'Site' and has the value '000C280C6BB1' selected. The second menu is labeled 'Event' and has the value 'All event' selected.

If there is an index in the device currently selected in the calendar in the " Device " tab, a blue dot will be displayed on the date.



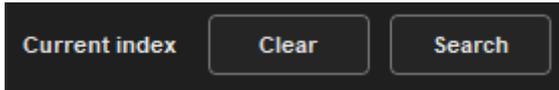
Clicking on a date with an index displays the index selection menu as shown in the image below.

Click on the desired index to search the log of that index.

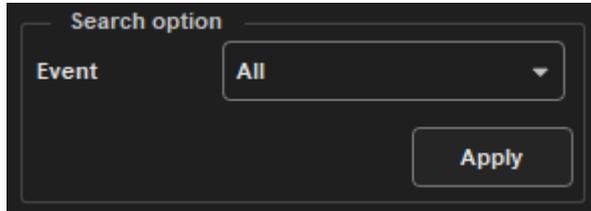


The index is created automatically when you change the device time. Logs remaining after the time change is displayed in the current index. Logs recorded before the time change are treated as past indexes, and each time the device time is changed, indexes are assigned in order from 201.

When you click the calendar, the index of the recorded logs for that date is displayed on the left of the reset button. You can reset the searched logs and filters by pressing the reset button.



In the " Devices " tab, you can also filter the logs through " Search Options " . The event filter combo box of the device log is automatically changed according to the type of searched events.

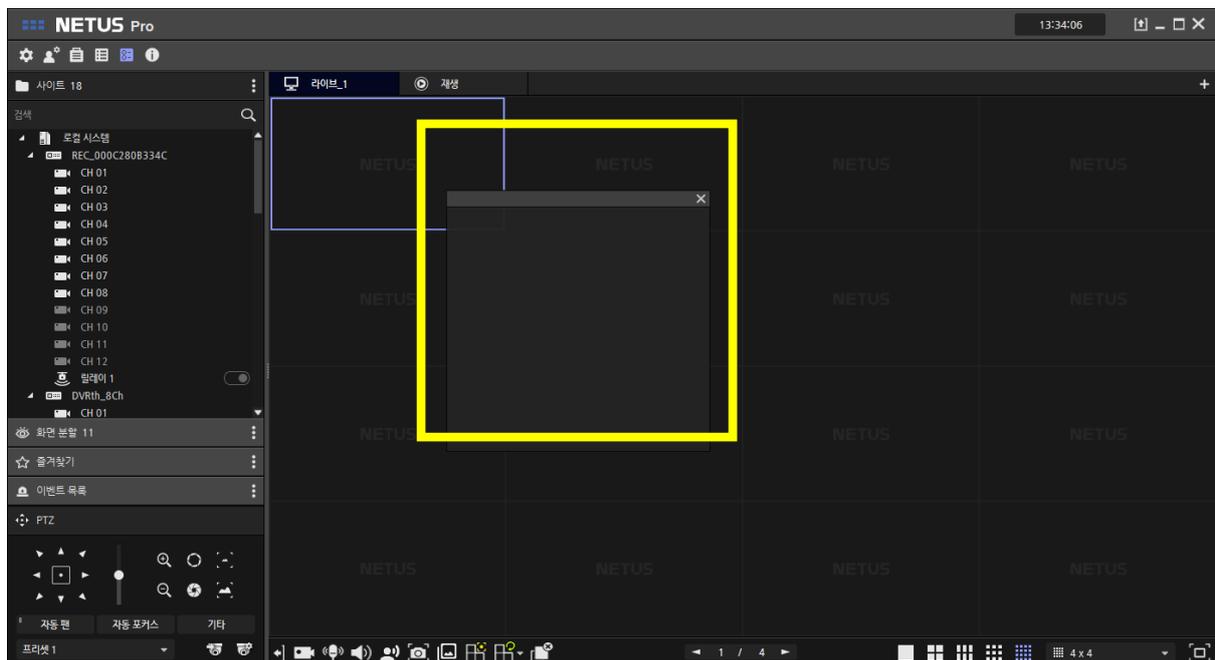


## 19. Pop-up image

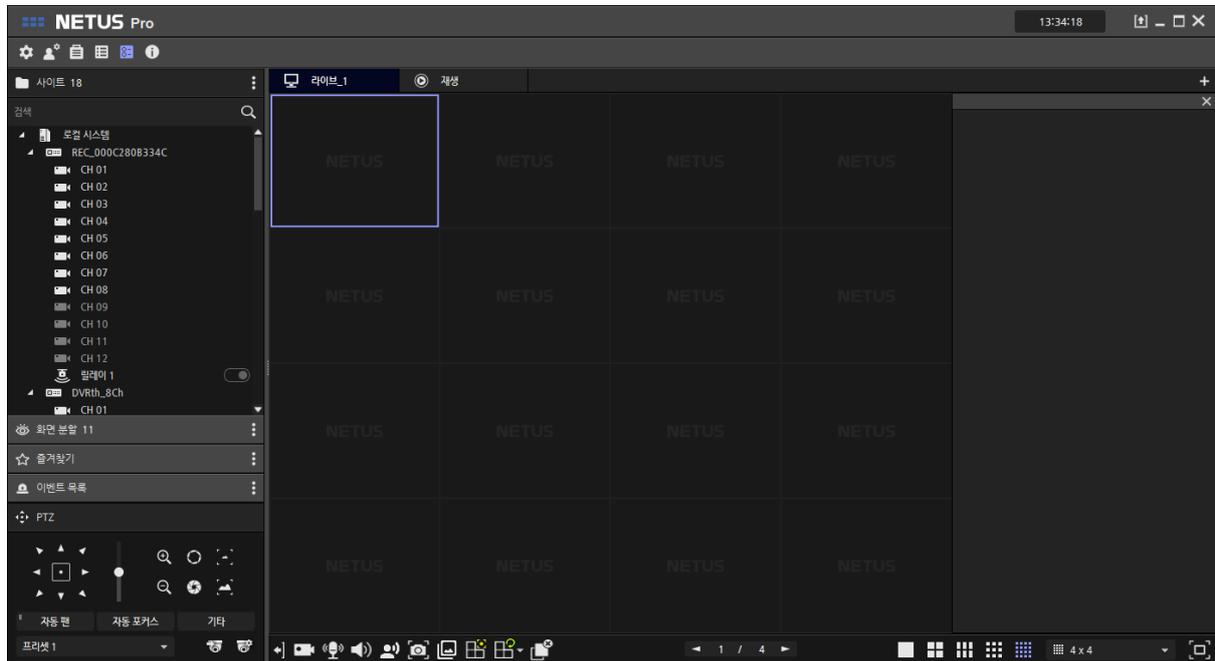
You can open a pop-up window from the pop-up image button  in the system menu.

Pop-up image function is a function that captures the video of the event occurrence time and outputs and saves it in the pop-up image window when the event action added in " Settings " is a pop-up image. The saving path of the pop-up image is available in Preferences > Pop-up tab.

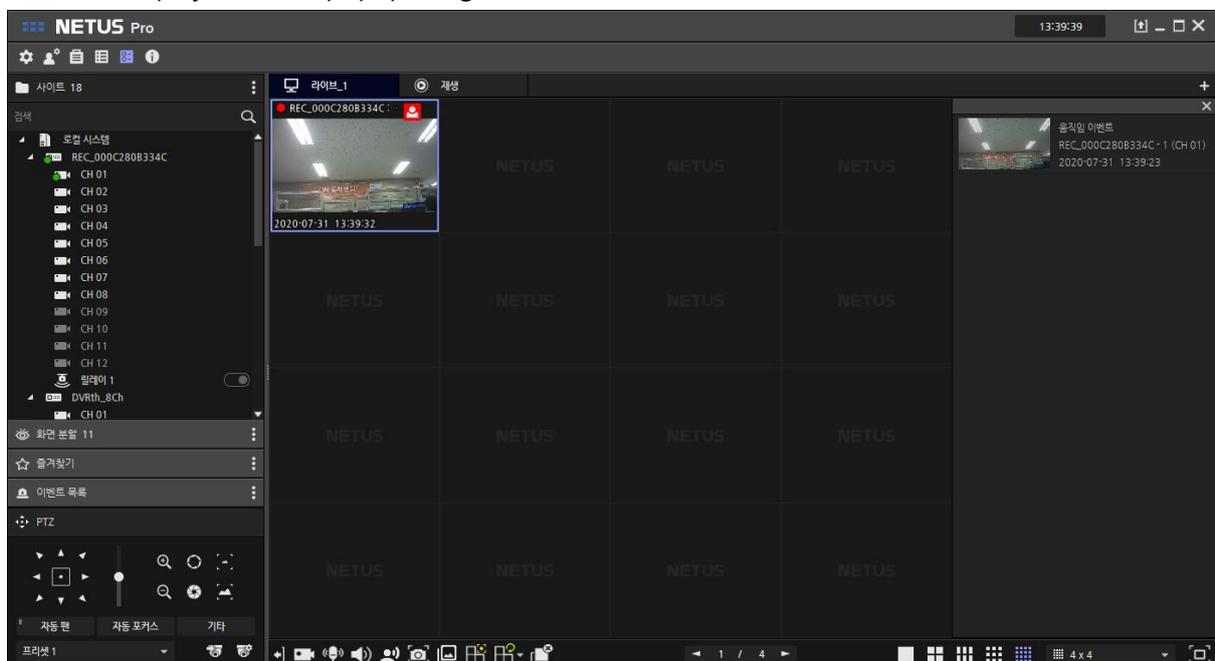
Clicking the Pop-up Image button opens the Pop-up Image window.



Drag the image popup window to the right side of the live panel to dock the popup image window to the current panel.



If "Popup Image" is set as the action in the event setting, the image captured when the event occurs is displayed in the popup image window.



**Thank you.**