



IDIS Center

Software Manual

Before reading this manual

This Operation Manual provides instructions for using Remote Administration System (referred to as IDIS Center hereinafter), which is a remote control software for network cameras, network video servers, network video recorders (NVR) and digital video recorders (DVR).

The **IDIS Center System** described in this Operation Manual refers to the PC running **IDIS Center** program and **Devices** refer to network cameras, network video servers, network video recorders (NVR) and digital video recorders (DVR).

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Part 1 – Introduction

IDIS Center is software for monitoring live videos and playing recorded videos acquired from compatible devices. It provides the following features.

- Remote surveillance of live videos and remote playback of video recordings
- Real-time notification of detected events and remote monitoring of event videos
- Panic recording of live videos and playback of panic recordings
- Registration of up to 2,048 devices
- Remote software upgrade and remote system configuration
- Displays device's system logs
- Monitoring live video map
- H.264, MPEG-4, M-JPEG restoration algorithm support
- SSL support for security
- Authority settings by user groups for security
- Intuitive and user-oriented GUI
- Operation in a low bandwidth environment

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Part 2 - Installation

Accessories

- Operation Manual

System Requirements

	Recommended	Minimum
OS	Microsoft® Windows® 11, Microsoft® Windows® 10 64-bit (Home/Pro), Windows Server 2016 or higher	Microsoft® Windows® 10 (Home/Pro)
CPU	Intel® Core™ i7-12700K 3.6GHz or better	Intel® Core™ i3-2100 or better
RAM	16GB or more	2GB or more
VGA	NVIDIA GeForce GTX1060 or Quadro P2000 or better (1920x1080 or 2560x1440, 60Hz)	NVIDIA GeForce GT710 (1280x1024, 60Hz) or Intel® HD Graphic 530 or higher
HDD	8GB or more of available space SSD(Solid State Drive)	4GB or more of available space
LAN	Gigabit Ethernet or better	100 Mbps Ethernet

☒

 IDIS Center program runs on 32-bit and 64-bit OS.

Installation

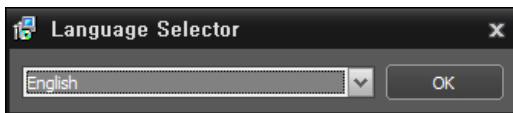
Prior to installing the software, click on to the Windows **Start** menu, open **Control Panel**, click on **Power Management**, and set options for **Turn off monitor** and **Turn off hard disks** as **Never**.

1 Download the software from the IDIS website(www.idisglobal.com).

2 Browse to the **Setup** folder in the downloaded file and run **setup.exe**.

☒ On **Microsoft® Windows® Vista** or better, **User Account Control** window may appear. Click **Allow** and follow the instructions in the installation window to proceed with the installation.

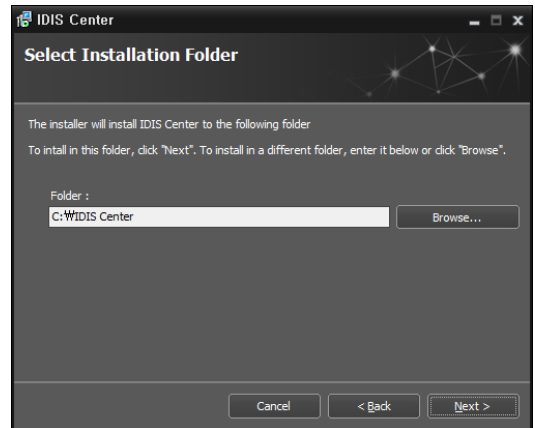
3 Select a desired language.



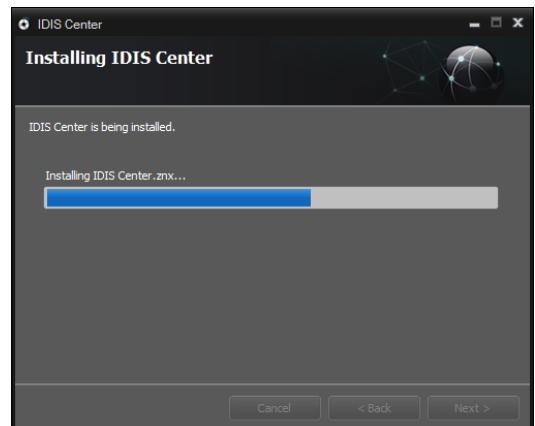
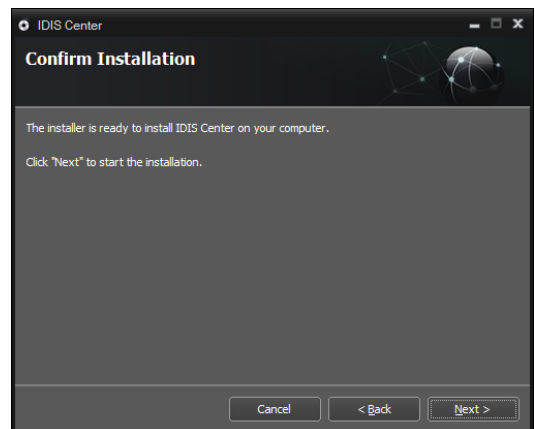
4 When the installation window appears, click **Next**.



5 Select an installation path for the program, and click **Next**.

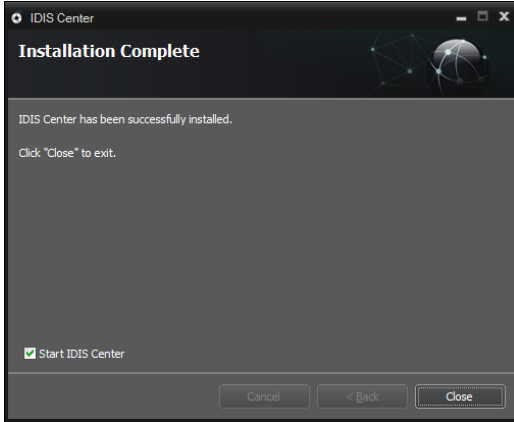


6 When the install confirmation window appears, click **Next**.

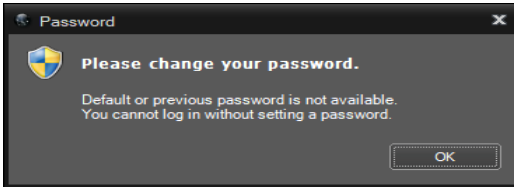


☒ NET Framework and Visual C++ Runtime Libraries will be installed automatically, and it may take a few minutes. If NET Framework and Visual C++ Runtime Libraries are already installed on the system, this step will be skipped automatically.

- 7 When the Installation Complete window appears, click **Close** and finish the installation.



- 8 This program does not have a password set by default. Please assign a password. Without setting a password, you will not be able to log in.



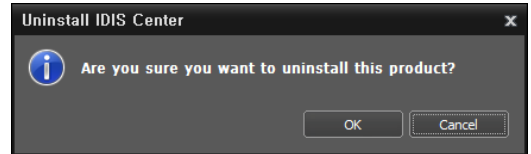
Uninstallation

- 1 Exit IDIS Center program if it is running.

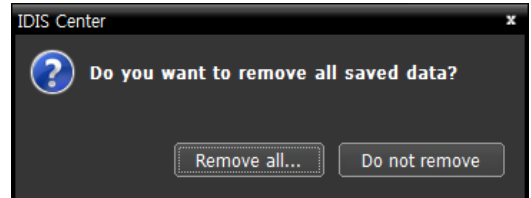
- ☒ • The program may not be uninstalled correctly if you attempt to uninstall the software while running.
- If the installation folder is deleted by the user without using the Uninstallation Wizard, you will not be able to properly uninstall or reinstall the software. Please be sure to follow the uninstallation steps in this manual.

- 2 Select IDIS Center in **Windows Start** Menu and click **Uninstall IDIS Center**.

- 3 When the uninstall confirmation window appears, click **OK**.



- 4 A data delete confirmation window will appear. To delete all the data stored on the system, including panic recordings and existing settings, click **Remove all**. If you do not wish to delete the data, click **Do not remove**.



- ☒ Deleted data cannot be recovered.

- 5 Click **Close** to finish uninstallation.

Part 3 - Getting Started

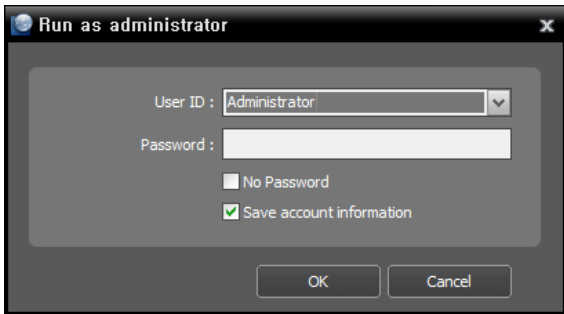
Start Program

When IDIS Center software is installed, **IDIS Center** and **IDIS Center Run as administrator** shortcut icons will be created on the desktop. Run IDIS Center program by double-clicking on **IDIS Center** or **IDIS Center Run as administrator** shortcut icon. If a removable eSATA HDD or SD (SDHC) memory card are connected to the IDIS Center system, you must double-click on **IDIS Center Run as administrator**. Double-click the **IDIS Center for iHDP** shortcut icon to use iHDP exclusively in an easier way.

Run as administrator

If not using an administrator account to run **IDIS Center**, the device's detachable HDD, eSATA HDD, and/or SD (SDHC) memory card will not be recognized. In this case, you will need to launch the program by double-clicking on the **Run as administrator** icon.

Once the program launches, enter the administrator information.



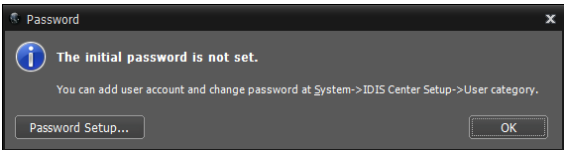
- **User ID:** Choose an administrator account or enter it manually.
- **Password:** Enter the account password.
- **No Password:** Check if there is no password for the account.
- **Save Account Information:** Saves the current account info for automatic login.



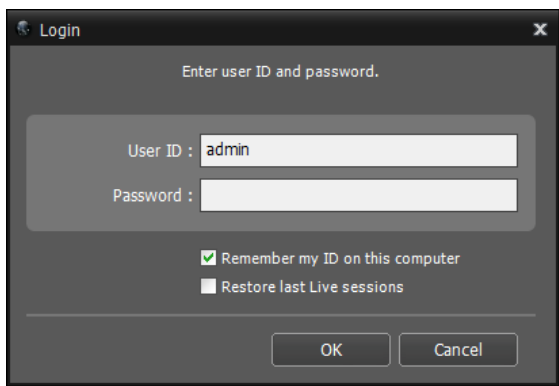
Login limitations may exist depending on the OS specifications or the user account settings of the computer running the IDIS Center program.

Login

This program does not have a password set by default. Leaving the admin account unassigned with a password poses a security risk. Please assign a **Password** at your earliest convenience.



Once the program is running, you must login. Enter a User ID and Password.

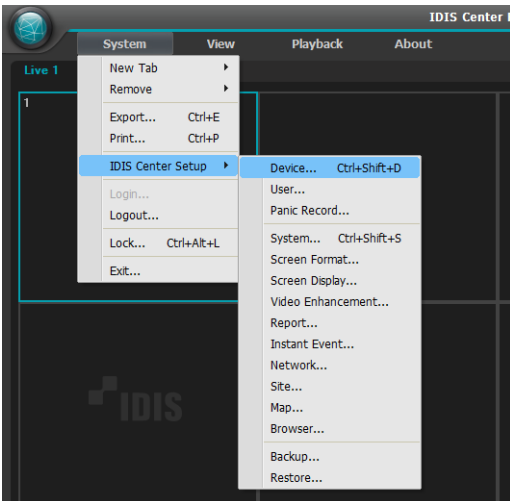


- **Remember my ID on this computer:** Remembers the ID used to login.
 - **Restore last Live sessions:** Restores the previous Live session on the current Live panel (Not supported for **Load user specific layout**).
- ☒
- Default User ID is "admin" without a password.
 - You can change User ID and Password in the User menu.
 - For more details, refer to **User Management on page 34**.

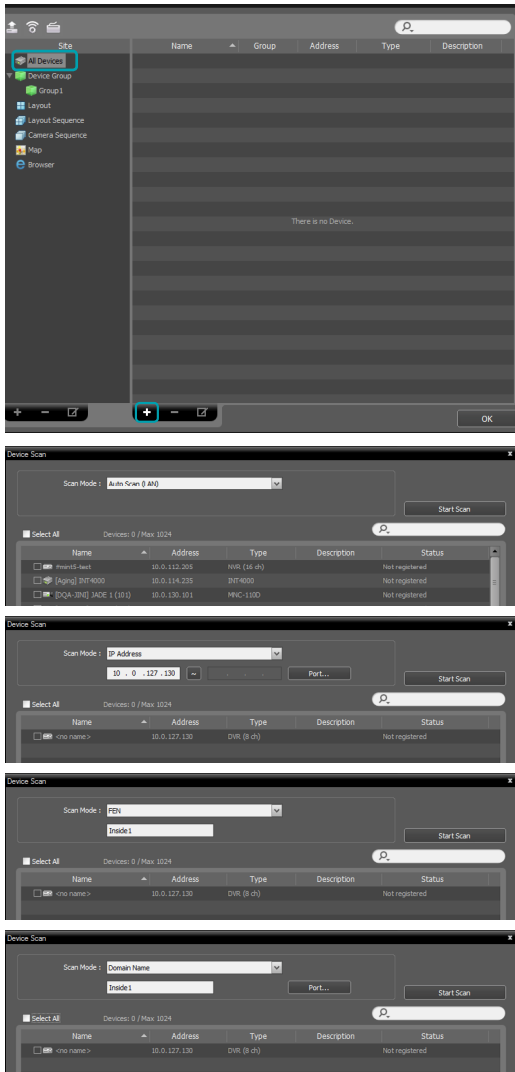
Device Registration

To use the functions provided by IDIS Center, you must first register a device and add the device to a device group.

- 1 Select **System > IDIS Center Setup > Device** in the menu at the top of the screen.



- 2 On the **Site** panel, click on **All Devices**, then click on the **+** button at the bottom of the Site List panel on the right. A **Device Scan** window will appear on the screen.

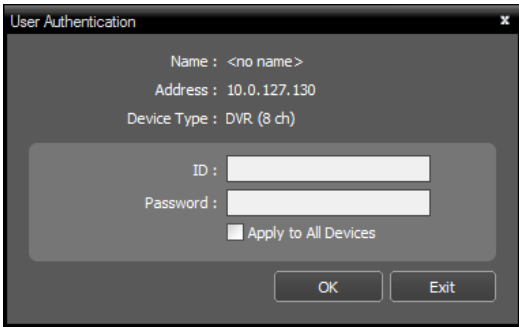
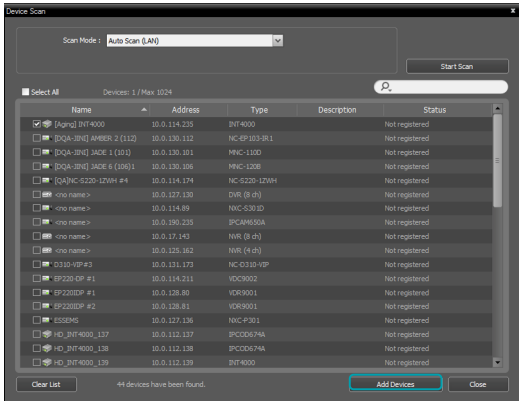


- Scan Mode:** After selecting a scan mode, click on **Start Scan** button and the scan results will be displayed on the list. If the IP address range of the device is different from the one of IDIS Center System, the IP address of the device will be considered invalid by IDIS Center software. In this case, the device's IP address must be changed before registering it to the system.
 - Auto Scan (LAN):** Shows the list of devices within the LAN. (DVR is not supported.)
 - IP Address:** Enter the device's IP address. When registering multiple devices, you can enter a range of IP addresses to scan for multiple devices at once. When setting up network connections on the device, it is recommended that you disable DHCP. If DHCP is enabled, changes in the WAN connection may cause the connection to the device to fail. When manually scanning with an IP, the device name is displayed as <no name> before its user authentication.
 - FEN:** If the device uses FEN, enter the device name that is registered on the FEN server. Make sure that the device's FEN server information is entered correctly. (**System > IDIS Center Setup > Network Setup > FEN**) The device will not be detected if the FEN server information is incorrect.
 - Domain Name:** If the device uses Domain Name Service (DNS), enter the device's domain name registered on the DNS server.
- Device Information File:** Loads an .xml or .dat file containing device connection information and displays the corresponding devices on the list. Select **System > IDIS Center Setup > Save As File > Device Information** option and then select **All Devices** or **Device Group** to save the current device information of selected range and create a .dat file. For more information about XML files, contact your IDIS Center software retailer.



To select the devices to register, check on the box next to the names of each device on the list. Click **Select All** to select all the devices on the list at once.

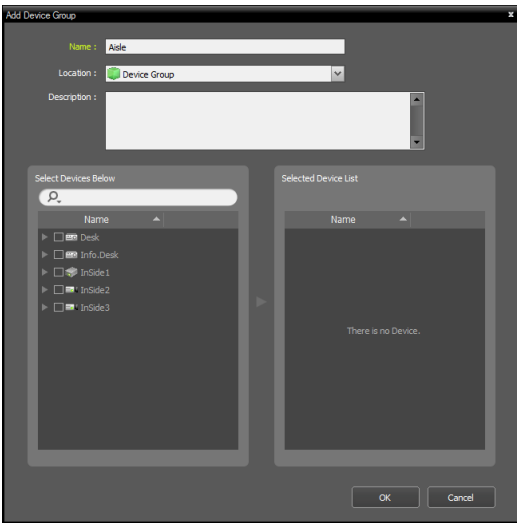
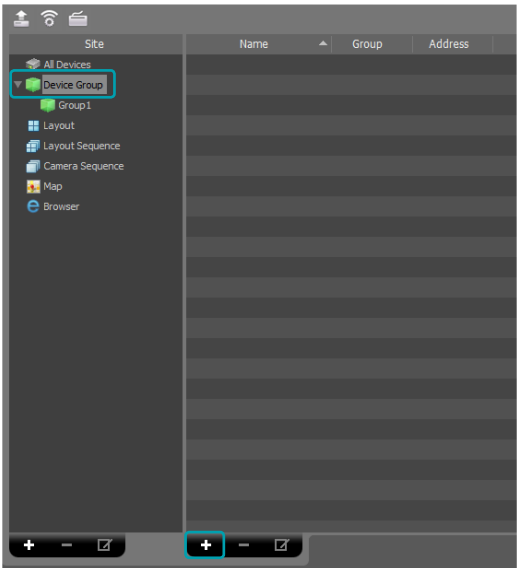
3 Click **Add Devices** at the bottom of the **Device Scan** window.



A user authentication window will appear.

- **Name / Address / Device Type:** Shows the name, IP address and type of the selected device. If **Sync Device Names** option was selected when setting up the device, the device name displayed will be automatically updated to the name entered in device's settings.
 - **ID / Password:** Enter the User ID and Password set up on each device for remote access.
 - **Apply to All Devices:** If multiple devices sharing the same User ID and password are selected, you can check this option to apply the same User ID and password to all selected devices.
- ☒
- If the selected device is a DVR, entering port numbers may be required depending on the DVR's specification and version.
 - If the selected device is a 4-channel network video server, all 4 cameras will be registered automatically regardless of whether the camera is enabled on the network video server.

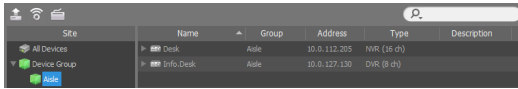
4 Click **Device Group** on the **Site** panel and click **+** at the bottom. **Add Device Group** window will appear.



- **Name:** Enter a name for the device group.
- **Location:** Select a location for the device group.

When you select a device from the device List on the left, it will be added to the **Selected Device List** on the right. Click **OK** to register the device group.

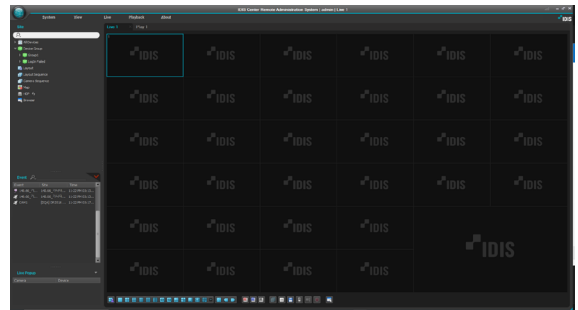
- 5 Make sure that the device has been added to the device group correctly. Click **Device Group** on the **Site** panel and click on ► next to **Device Group**. When you click on a registered device group, a list of devices added the selected device group will be displayed on the right. Check video analysis (📹) from the device group in the case of a device with a video analysis device.



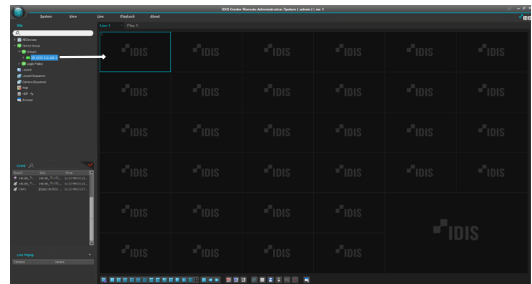
Site	Name	Group	Address	Type	Description
All Devices	Desk	Asile	10.0.112.205	NVR (16 ch)	
Device Group	Info Desk	Asile	10.0.127.130	DVR (8 ch)	

To modify a device group that has been registered, select a device group and click  at the bottom of the **Site** panel. A **Modify Device Group** window will appear. You can modify the selected device group from this window. For more details, refer to **Devices Management on page 24**.

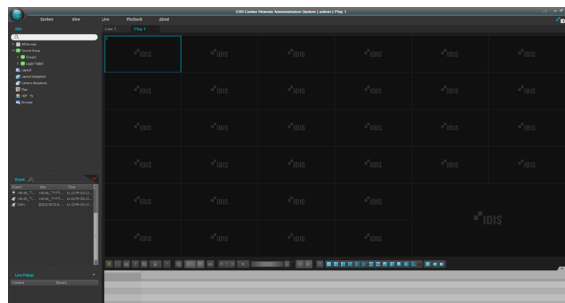
Live Video Mode



- 1 In the **Site** List, make sure that the device has been added to the device group.
- 2 In the panel tabs, click the **Live** tab. In the **Site** list, select a site you wish to connect to. Then, drag & drop the selected site on the Live screen using your mouse. The live video of the selected site will be displayed on the screen. For more information, refer to the **Live Video Mode on page 49**.

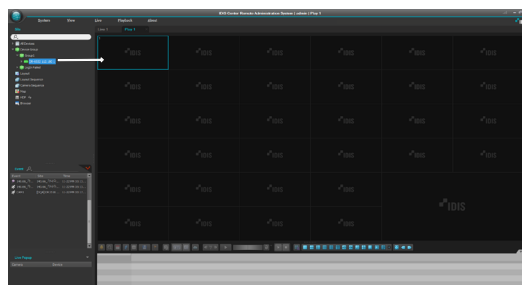


Recorded Video Playback

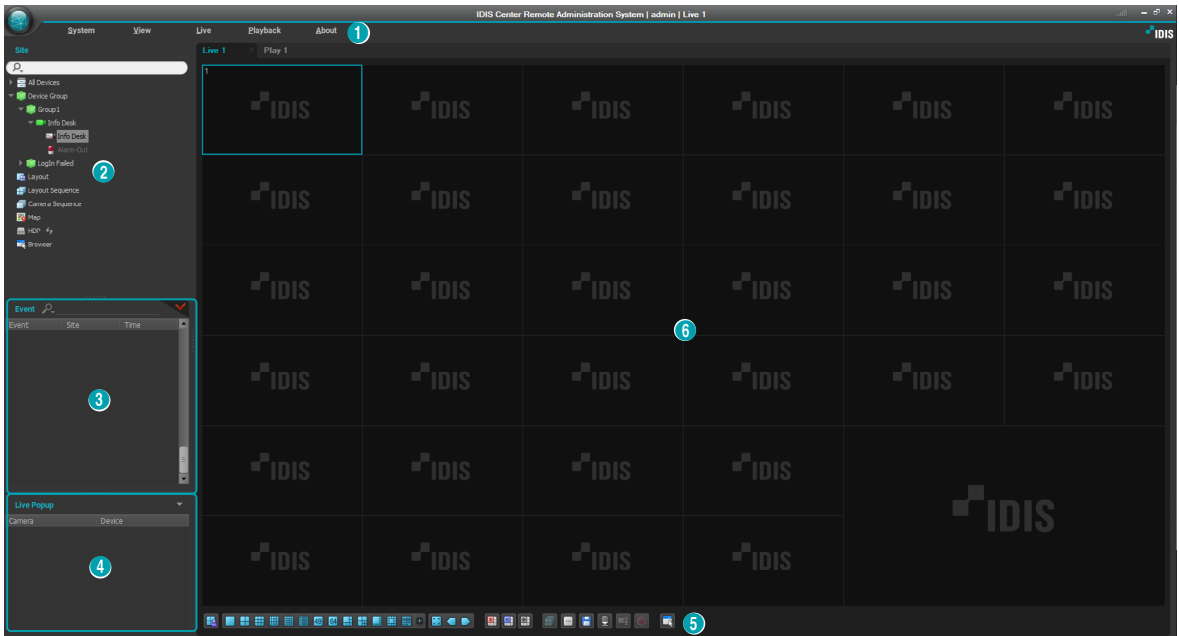


- 1 In the **Site List**, make sure that the device has been added to the device group.

- 2 In the panel tabs, click on the **Play** tab. In the **Site** list, select a site you wish to connect to. Then, drag & drop the selected site on the playback screen using your mouse. The recorded video of the selected site will be displayed on the screen. For more information, refer to the **Recorded Video Playback on page 81**.



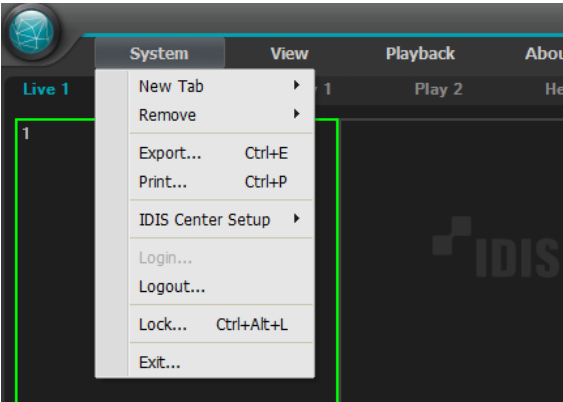
System menu



1	Menu	This is the menu bar. Refer to below for more details.
2	Site List	Used to connect to a registered site using drag & drop.
3	Live Event List	Shows instant events and callback events of registered devices. Click  button and then Emergency Event Panel will be displayed. For more details, refer to Event Handling on page 99 .
4	Live Popup List	Shows the list of current popup screens on IDIS Center. For more details on live popups, refer to Live Popup on page 77 .
5	Panel Toolbar / Timetable	Shows toolbar or timetable depending on the panel. For more details, refer to Camera Control on page 61 or Recorded Video Playback on page 81 .
6	Panel	Shows videos or list of the selected tab. For more details, refer to Panel on page 21 .

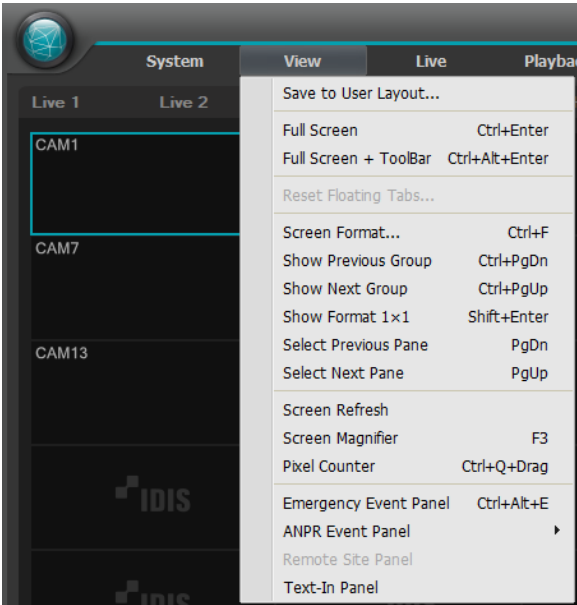
Menu

System



- **New Tab:** Create a new panel. Up to each 6 and 4 panels can be created in total, including Live and Playback panels. Up to 2 Map panels and 1 Report, Operational Status, Device Status and Self-Diagnosis panel can be created, respectively.
- **Remove:** Removes selected device, camera or all cameras from the Live screen or Playback screen.
- **Export, Print:** Saves or prints the videos or list displayed on the panel of the selected tab. (Some panels are not supported.)
- **IDIS Center Setup:** Changes basic settings.
- **Login/Logout:** Logs in or out of the program.
- **Lock:** Locks IDIS Center Program. Once the program is locked, it will no longer be accessible and a password entry field will appear. Enter password to unlock.
- **Exit:** Exits or restarts the program.

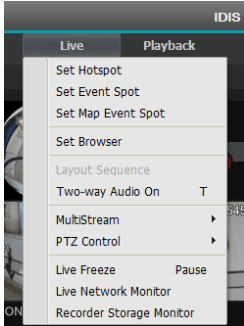
View



- **Save to User Layout:** Register the screen division and device connection status of the selected Live or Plays panel as a user layout.
- **Full Screen:** Shows the selected Live or Plays panel in full screen.
- **Full Screen + Toolbar:** Shows the selected Live or Plays panel with toolbar in full screen.
- **Reset Floating Tabs:** Place all floating tabs on the main tab.
- **Screen Format:** Change screen layout.
- **Show Previous/Next Group:** Switch to previous or next camera group.
- **Show Format 1x1:** Shows as a 1x1 format and turn it off.
- **Select Previous/Next Pane:** Select the previous or next pane.
- **Screen Refresh:** Refresh the video in the screen pane in the Live or Plays tab.
- **Screen Magnifier:** Magnifies the area near the mouse cursor.
- **Pixel Counter:** Shows the information of the pixel of the selected area in Live or Plays.
- **Emergency Event Panel:** Shows Emergency Event Panel.
- **ANPR Event Panel:** Shows a pop-up window of the ANPR events panel.
- **Remote Site Panel:** Shows or hides Site List from floating panel or full screen. This function only supports certain panels.

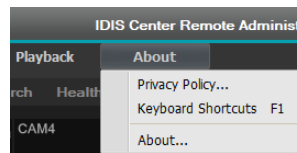
- **Text-In Panel:** Shows the text-in panel. It also displays the text results on the panel.

Live



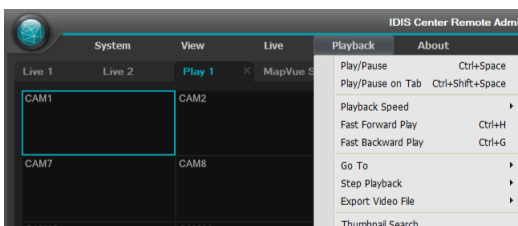
- **Set Hotspot:** Set the selected camera screen as hotspot screen.
- **Set Event Spot:** Set the selected camera screen as event spot screen.
- **Set Map Event Spot:** Set the selected camera screen as map event spot screen.
- **Set Browser:** Sets the selected screen as the browser screen.
- **Layout Sequence:** Starts or ends a layout sequence.
- **Two-way Audio On/Off:** Activates or deactivates two-way audio (receiving and transmitting audio) function.
- **MultiStream:** Desired stream can be selected if multi-stream mode is enabled for the live video of the device.
- **PTZ Control:** Controls PTZ for selected or all PTZ camera devices.
- **Live Freeze:** Freezes all screens of the selected live tab.
- **Live Network Monitor:** Shows bandwidth for each device on a graph by time.
- **Recorder Storage Monitor:** Provides storage device information to the recorder added on the site.
- **Play/Pause:** Plays or pauses playing recorded video of the selected device.
- **Play/Pause on Tab:** Plays or pauses playing recorded video of all devices displayed on the current screen.
- **Go to:** Skips to the designated time.
- **Step Playback:** Skips to previous or next video by frame or time.
- **Export Video File:** Saves video recording as a proprietary viewer file(.exe) or an AVI file(.avi).
- **Thumbnail Search:** Shows freeze-frame images of videos recorded during events (Event and pre-event) in the Play panel. For more details, refer to [Recorded Video Playback on page 81](#) and [Thumbnail Search on page 87](#)

About



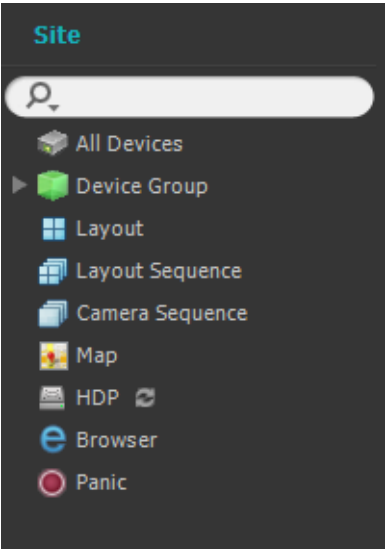
- **Privacy Policy:** Choose whether to agree to the IDIS Privacy Policy. Agreed devices can use FEN services.
- **Keyboard Shortcuts:** Displays a keyboard shortcut description pop-up.
- **About:** Shows software version and copyright information.

Playback



Site List

Shows a list of registered sites.



-  : Search registered sites. When a search query is entered, matching results are shown as the query is typed.
- **All Devices:** Shows a list of registered devices. By clicking a device on the list and dragging it to the desired position on the screen, you can view live video from the camera connected to the device or the camera's video recordings.

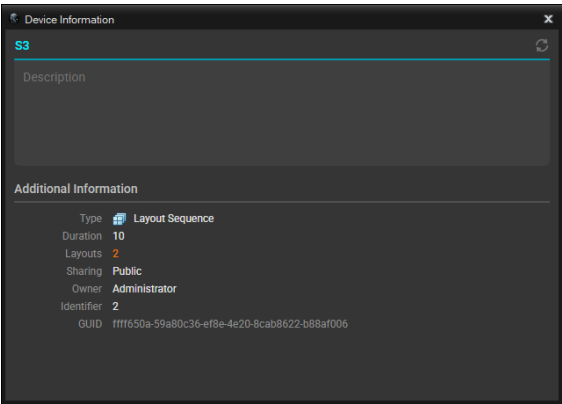


This function is only supported for users in Administrator group.

- **Device Group:** Shows a list of registered device groups. By clicking a device on the list and dragging it to the desired position on the screen, you can view live video from the camera connected to the device or the camera's video recordings.
- **Layout:** Shows a list of registered layouts. By clicking a layout on the list and dragging it to the screen, you can perform layout monitoring or playback.
- **Layout Sequence:** Shows a list of registered layout sequences. By clicking a layout sequence on the list and dragging it to the screen, you can perform layout sequence.
- **Camera Sequence:** Shows a list of registered camera sequences. By clicking a camera sequence on the list and dragging it to a desired position on the screen, you can perform camera sequence.

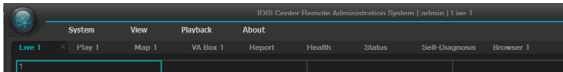
- **Map:** Shows a list of registered maps. By clicking a map on the list and dragging it to a desired position on the screen, you can monitor videos on a map.
- **HDP:** If a removable eSATA HDD or SD (SDHC) memory card is connected to the IDIS Center system, it shows the list of HDD or SD (SDHC) memory cards. Connecting the removable HDD of a device to the IDIS Center System requires a SATA ↔ USB 2.0 converter or an IDE ↔ USB 2.0 converter. Connecting an eSATA HDD requires an eSATA cable, and connecting an SD (SDHC) memory card requires an SD (SDHC) memory card reader. For more information, contact your IDIS Center software retailer. When you right-click on the list, the storage information of the selected HDD or SD (SDHC) memory card is displayed. Folder path, drive type, device model, recording range, and capacity are shown in the storage information.
- **Browser:** Shows a list of registered browsers. Clicking a browser on the list and dragging it to a desired position on the screen launches the browser.
- **Panic:** If there is a device that has created a panic recording, it shows the list of corresponding devices.

Device Information



Information for **All Devices**, **Device Group**, **Layout**, **Layout Sequence**, **HDP**, and **Map** can be accessed by selecting **Device Information** from the context menu. After the pop-up window appears, clicking another device updates the pop-up to display the information for the selected device.

Panel



- **Live:** Shows live video.
- **Play:** Used to play video recordings stored on the device or panic recordings created by IDIS Center program.
- **Map:** Shows map.
- **VA Dashboard:** Displays detected violations and event occurrences from the VA device in a dashboard format.
- **Report:** Shows IDIS Center Program's log.
- **Health:** Checks the status of devices registered in the device group and shows the results.
- **Status:** Shows the status of selected device in real-time.
- **Self-Diagnosis:** Shows and reports the status of a recorder.
- **Browser:** Allows the Internet browser function.



In the Panel tab, you can right-click to rename the tab.

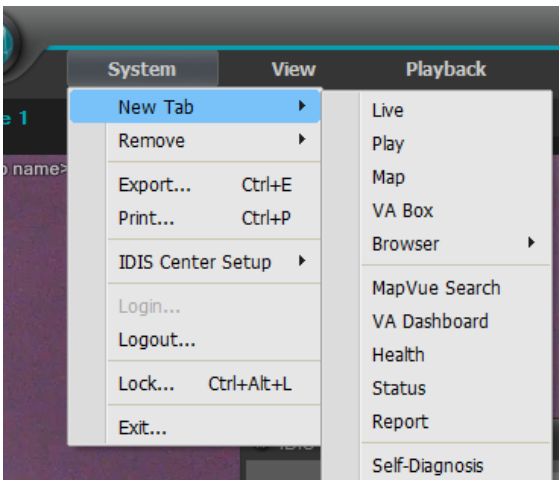
Floating & Attaching Panels

You can make a panel tab float on top of other windows by dragging the tab. You can click and drag the tab of the floating panel to their original position to attach it back. You can also use drag & drop to change the order of the panel tabs.



- To maximize or restore panels, click on the Maximize/Restore buttons at the upper left corner of floating panels.
- Right click on the screen of the floating panel and select **Remote Site Panel** to show or hide Site list in the floating panel. Not every panel supports this function.

Add or Delete Panels

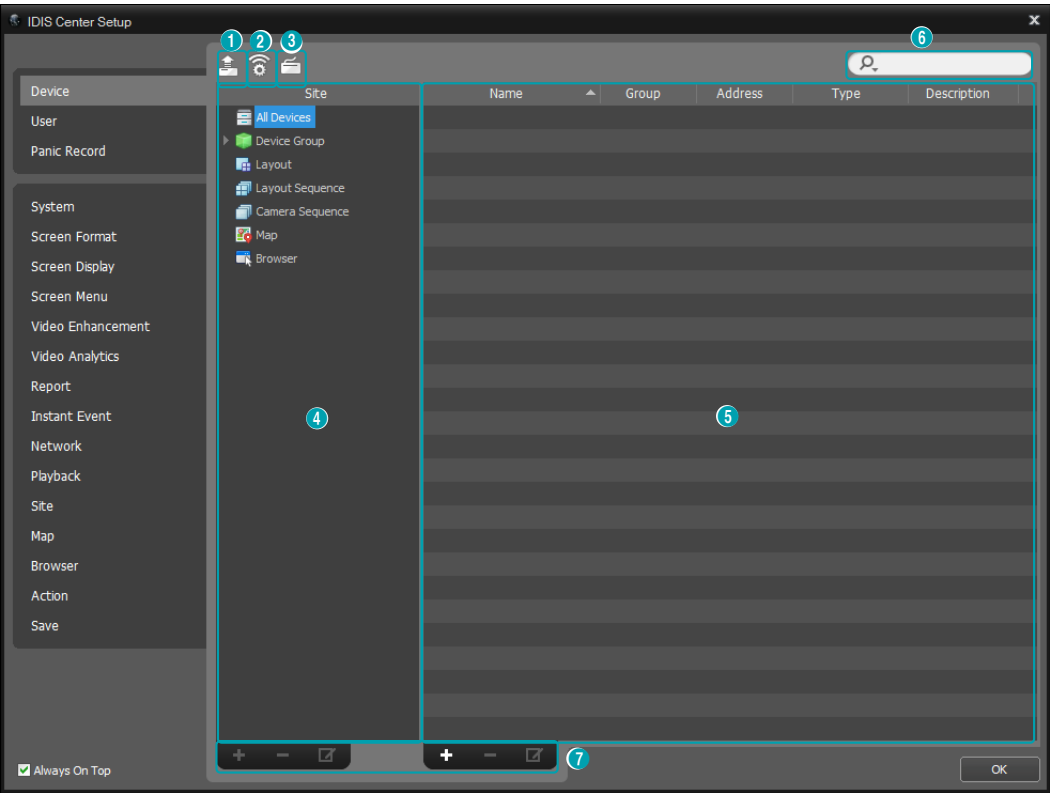


To select a new tab click the **System** menu > **New Tab** .
To delete a panel, click **✕** next to each tab.

Part 4 - Configuration

Device

Configure the device-related settings.
Select **System** menu > **IDIS Center Setup** > **Device**.



- **Always On Top:** Keeps the Setup window always displayed in the foreground.

1	Multiple Firmware Upgrade	Upgrades the software of multiple devices at once.
2	Multiple Remote Setup	Changes settings of multiple devices using settings file.
3	Network Keyboard Setup	Register, delete or modify network keyboards. Network keyboard can be used to control IDIS Center program. For more details, refer to <u>Control Using Network keyboards on page 121</u> .
4	Site Panel	Shows a list of site groups supported by IDIS Center program.
5	Site List Panel	Shows the list of sites registered in each site group and related information. Click on the ►  button next to the name of each device to view video inputs, alarm input/output and audio input/output details supported by the device.
6	Search	Searches sites registered in each group. Select Device Group in Site panel and enter the search query. When there is a match to the search query within the selected group, matching results are shown as the query is typed.
7	Add, delete, modify	Adds, deletes, or modifies a site. Right click on Site and use the menu to delete the site from the selected group or modify properties. If the selected site is a device , you can connect to the device and change device settings or upgrade device's software.

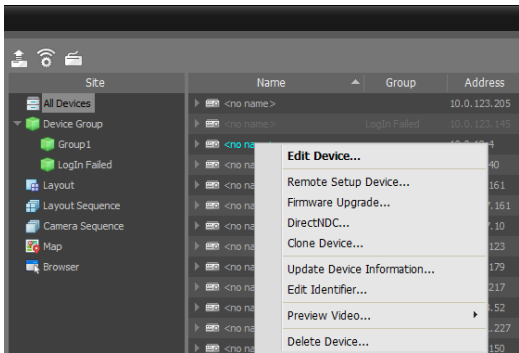


If a device is deleted from **All Devices**, then registered again, IDIS Center will consider it as a new device.

Devices Management

Modify properties or delete a device from the list. You can remotely change the device's settings or upgrade the device's software.

- 1 Select **Device Group** on the **Site** panel. Then, click **Device** on the Site List panel.
- 2 To bring up the **Device** menu, right-click on the device or click on the  button at the bottom of the Site List panel.



- **Edit Device:** Modifies device's connection details.
- **Remote Setup Device:** Changes device's settings remotely.
- **Firmware Upgrade:** Upgrades the device's software remotely.
- **DirectNDC:** You can use VNC (Virtual Network Computing) to connect to the device.

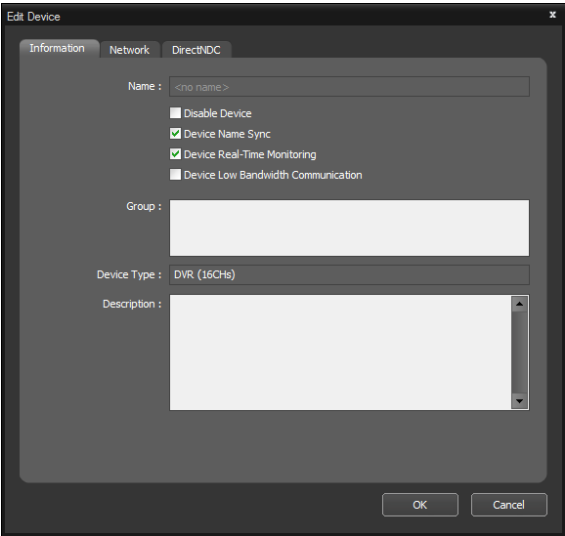


VNC must be enabled on the device to establish this connection. When registering a device on IDIS Center program, the port number and password for VNC remote connection must be registered. This function may not be supported depending on device's specifications and version.

- **Clone Device:** You can clone the registered device. Device information is cloned identically when cloning the device. You can change the device information by selecting **Edit Device** from the device menu of the cloned device. The device's authentication procedure, which is entering the user ID and password of the device, is not required when changing the device information. A clone icon () is displayed at the device icon in the device list to distinguish the cloned device.
- **Update Device Information:** Shows the newest information of the selected device.
- **Edit Identifier:** Edits the identifier of the selected device.
- **Preview Video:** Shows preview of video from the device.
- **Delete Device:** Deletes the device from IDIS Center program.

Editing a Device: Information Tab

Click **Edit Device** on the device menu.
The device information can be modified.



- **Name:** Renames the device. Names used by other devices cannot be used.

Disable Device	The device is considered as not registered.
Device Name Sync	Automatically updates device name depending on the device's settings.

Device Real-Time Monitoring	Automatically updates event and device information displayed on IDIS Center program for all registered devices. When multiple IDIS Center systems attempt to connect to the device simultaneously, connection may fail depending on the number of simultaneous users supported by the device. If this option is not selected, event and device information of the device currently being monitored are updated automatically.
Device Low Bandwidth Communication	The client operates according to the low bandwidth environment.

- **Group:** Shows the registered device group list.
- **Device Type:** Shows device type.

Editing a Device: Network Tab

Click **Edit Device** on the device menu.

The basic information for connecting to the device can be modified. The device's authentication procedure, which is entering the user ID and password of the device, is required.

The screenshot shows the 'Edit Device' dialog box with the 'Network' tab selected. The 'Address Type' is set to 'IP Address'. The 'Address' field contains '10.0.124.208'. The 'Port' field is set to '8016'. The 'ID' field contains 'rndS'. The 'Password' field is masked with dots. There are buttons for 'Connection Test' and 'Password Reissue'. The 'No Password' checkbox is unchecked. The dialog has 'OK' and 'Cancel' buttons at the bottom.

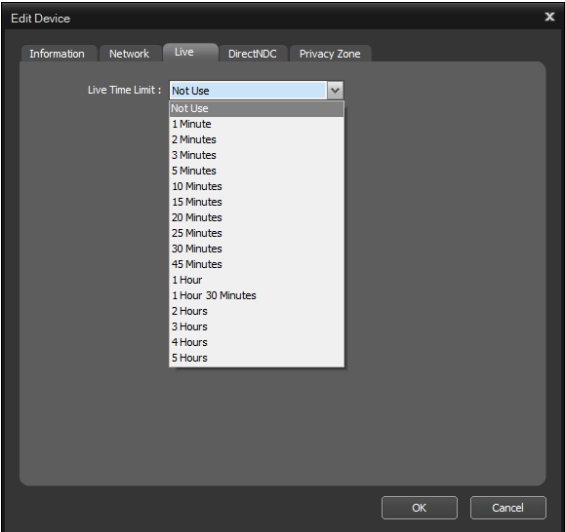
- **Address Type:** Choose device's address type.

Auto Scan (LAN)	The mDNS number can be entered when modifying device's address.
IP Address	The IP address can be entered when modifying device's address.
FEN	If the device uses FEN, a device name registered on FEN server can be entered when modifying device's address. The name entered must be identical to the name set in device's FEN settings.
Domain Name	If the device uses domain name service, a domain name registered on DNS server can be entered when modifying device's address.

- **Address:** The device's address can be modified depending on the address type chosen above.
- **Port:** Port number can be modified. The port number entered must be identical to the ports set for **Remote Access**(Admin), **Remote Watching**(Watch), **Recording**(Record) and **Two-way Audio**(Audio) on the device.
- **ID, Password, Connection Test:** The device's authentication procedure is required to change the information above. Enter the user ID and password of the device and click the **Connection Test** button. When the connection test succeeds, you can click the **OK** button to apply the changes.
- **Password Reissue:** Reissue the remote device password (Only for the products that support this function).

Editing a Device: Live Tab

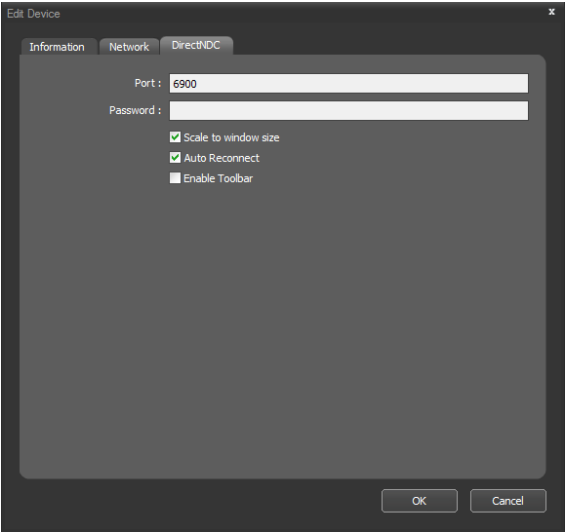
You can set a live time limit.



- **Live Time Limit:** After accessing a live session on the selected device, video and audio will no longer be received after the set time has passed.

Editing a Device: DirectNDC Tab

You can register port number and password for VNC (Virtual Network Computing) remote access.

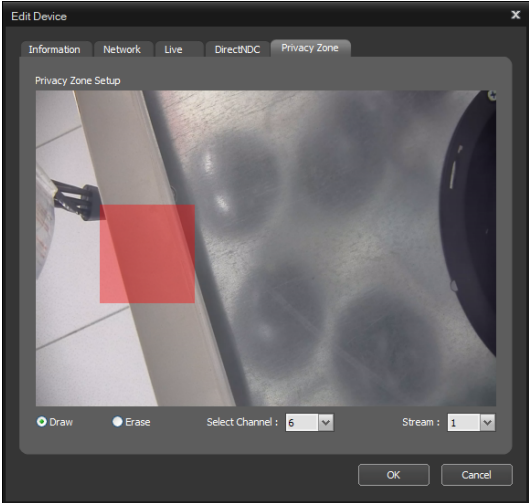


- **Port, Password:** Enter the port number and password for VNC remote access.
- **Scale to window size:** Resizes the VNC viewer screen to the window size.
- **Auto Reconnect:** Automatically reconnects when VNC remote access is lost.

- **Enable Toolbar:** Enables the toolbar of the VNC viewer.

Editing a Device: Privacy Zone Tab

You can set up the privacy zone.

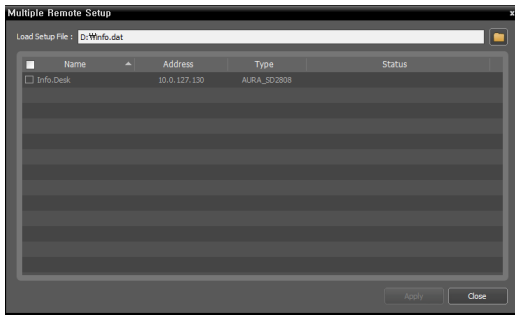


- **Draw:** Create a new privacy zone by drawing it with a rectangle.
- **Erase:** Erase the existing privacy zone by drawing it with a rectangle.
- **Select Channel:** Select the channel of the device for which you set the privacy zone.
- **Stream:** When setting a privacy zone, specify the stream of the screen that is previewed.

Remote Setup Device

The device's settings can be changed remotely by selecting **Remote Setup Device** in the device menu. Certain settings items may not be supported by remote setup. For more information on device setup, refer to the device's operation manual. Settings of multiple devices can be changed using settings file.

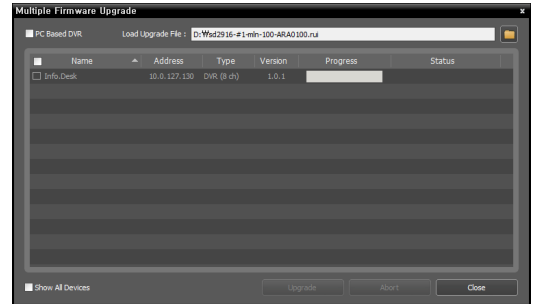
- 1 Click on the  (Multiple Remote Setup) button at the top of the Site panel.



Firmware Upgrade

The software of multiple devices can be upgraded remotely by selecting **Firmware Upgrade** in the device menu.

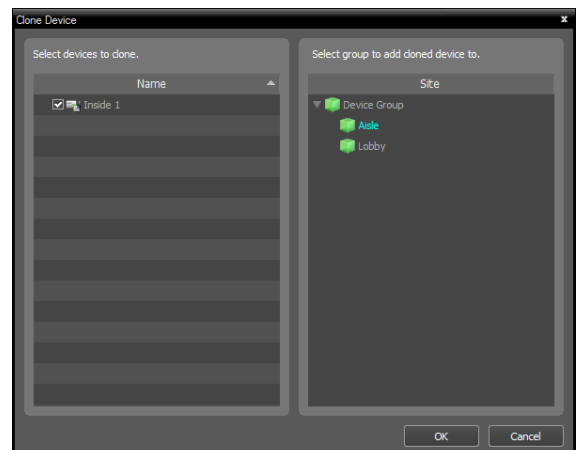
- 1 Click on the  (Multiple Firmware Upgrade) button at the top of the Site panel.



- 2 Click on the  button on the upper right corner and select an upgrade file. If the device is a PC-based DVR, select **PC-Based DVR** and click .
- 3 A list of devices that can be upgraded using the selected file will be displayed. Click **Show All Devices**.
- 4 A list of all registered devices will be displayed. Select a device and click on **Upgrade** button at the bottom to upgrade the device.

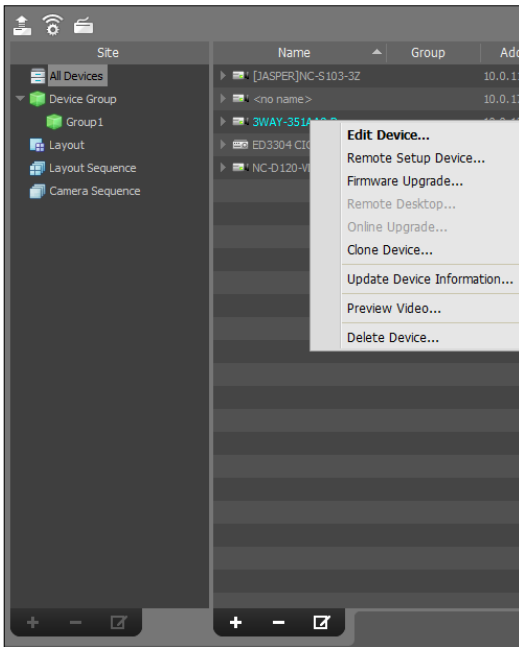
Clone Device

The cloned device is listed in the left side. Select a device group in the right side to add the cloned device to the selected device group.



Edit Device's I/O Information

- 1 Select **All Devices** on the **Site** panel and click on the arrow button ► next to the device name on the Site List panel.
- 2 Select an I/O device on the list of **Video Input**, **Alarm Input/Output** and **Audio Input/Output** supported by the device.
- 3 To bring up the **Edit Device** window, click on the  button at the bottom of the Site List panel or right click and select **Edit Device**.



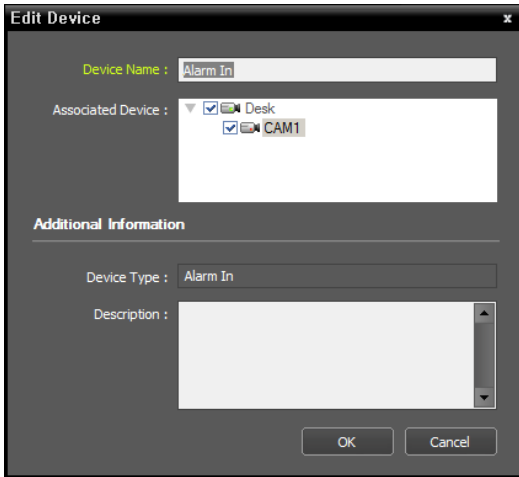
- **Device Name:** Renames an I/O device.
- **Associated Device:** Select the camera channel to display camera videos to the event spot screen by connecting it to the I/O device. When Alarm In, Detect Audio, or Detect Event are selected, the video of the selected camera channel will be displayed on the event spot screen.
 -  Names used by other I/O devices cannot be used. If the I/O device updates the name of the connected device, the changes are updated automatically.
 - Only supported if the I/O device is an Alarm In or Audio Input device.

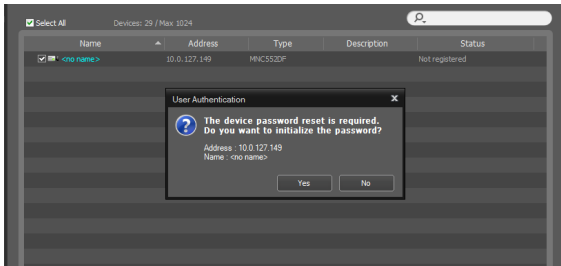
Devices Password Reissue

Reissue the remote device password. This function is only for the products that support the device password reissue function.

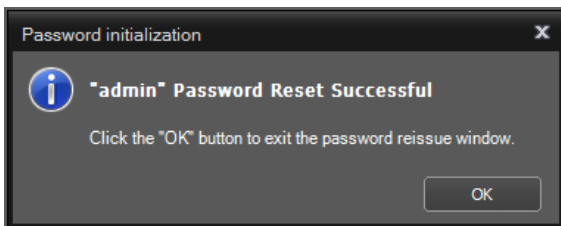
Device Password Initialization

- 1 When registering a device, the **User Authentication** window pops up to ask whether to reset the password in the case of the devices that need the password initialization. For the device that needs the password initialization, device registration is enabled after the initialization. Click **Yes** to display the password initilization window.





- 2 Enter the information for the initialization and click **OK** to reset the device password.



- **New Password/Confirm Password:** Enter the new password.
- **Phone Number:** Enter the phone number that allows SMS for receiving the One Time Password (OTP) when resetting the password.
- **Email:** Enter the email address for receiving the One Time Password (OTP) when resetting the password.

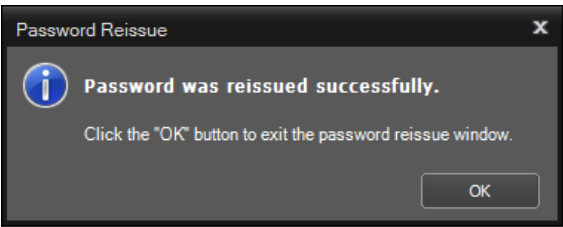
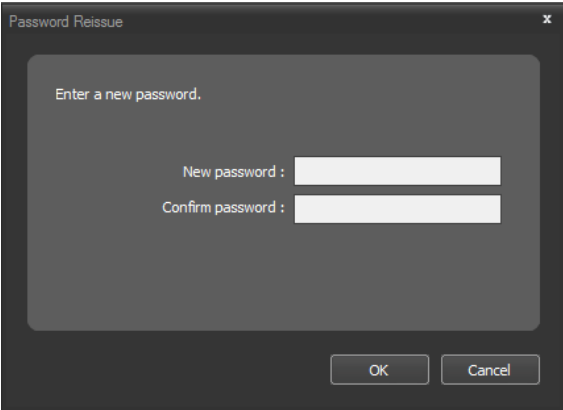
Changing Device Password

Select **Edit Device** from the device menu, and click **Password Reissue** on the **Network** tab.

- 1 Select an authentication method and enter the email address or phone number. Click **Authentication** and enter the new password.

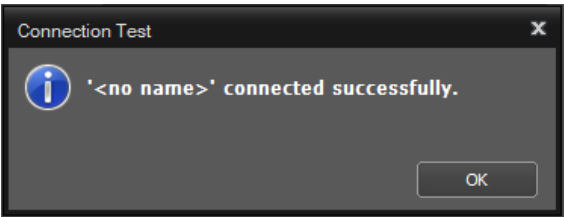
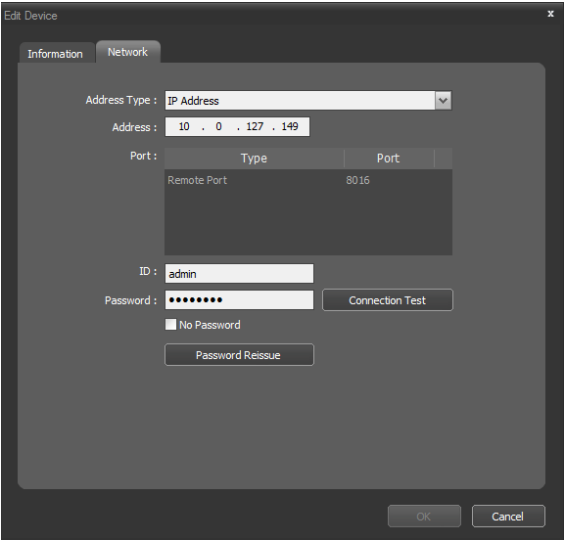


2 Enter the information for the initialization and click **OK** to reset the device password.



- **New Password/Confirm Password:** Enter the new password.

3 Click the **Connection Test** button from **Edit Device** to check the user authentication with the reissued password.

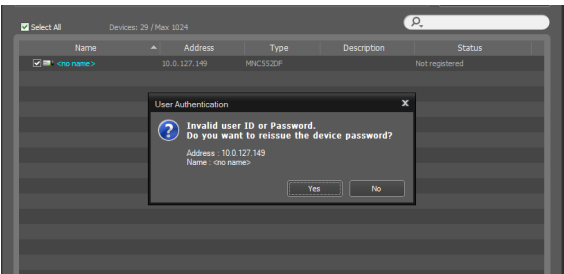


Click OK when the connection test is complete.

Device Password Reissue

The password reissuance works only when the customer service connection is available, since One Time Password (OTP) is issued through the customer service. Ask your dealer or retailer for more information.

1 If the user authentication fails (password error) during the device registration, the window pops up to check whether to reissue the password or not.



- 2 Click **Request** to reissue the password.

Reissuing a password for <no name>.
Select an authentication method, and then request an authentication number.

ID : admin

Authentication method : SMS

Phone Number (without '+') : 0101234

Request Cancel

Reissuing a password for <no name>.
Select an authentication method, and then request an authentication number.

ID : admin

Authentication method : Email

Email Address : admin@xxx.xxx

Request Cancel

- **ID:** Enter the user ID that requests the password reissuance.
- **Authentication Method:** Select an authentication method between the email address/phone number.
- **Email Address/Phone Number:** Enter the email address or phone number that allows SMS for receiving the One Time Password (OTP) when resetting the password.

Password Change Period Expiration Notification

Users are notified of password renewals when their password renewal cycle expires or is approaching in the near future. Supported on devices that provide the ability to periodically refresh passwords.

Change Password

- 1 Among the devices added to the site tree, when the set password renewal cycle expires or the expiration cycle arrives in the near future, a password renewal notification window is displayed on the screen.

Change Password - 124 MINT S1

You have not changed your password for the past 1 months.
Please change your password for security.

Site <no name>

Address 10.0.132.124.8016

Change Now Change Later

- 2 Click **Change Now** to appear the change password window.

Change Password - 124 MINT S1

User admin

Current Password

New password

Confirm new password

Site <no name>

Address 10.0.132.124.8016

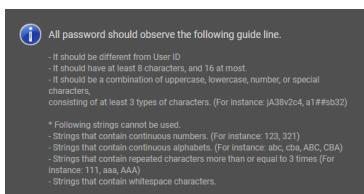
? OK Cancel

- **User:** Display the user ID of the device.
- **Current Password:** Enter the current password.
- **New password, Confirm new password:** Enter the password to change. For **Confirm new password**, enter the same characters as the **New password**.
- **Site, Address:** Display the name and the address of the device.

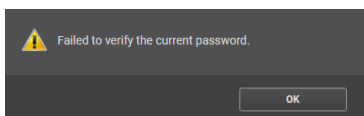


Click ? button to see the password rules.

Part 4 - Configuration

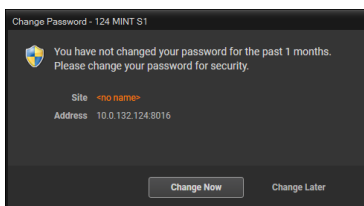


- 3 Click **OK** to complete the password change, and if it fails, a failure message is displayed.



Extend password change period

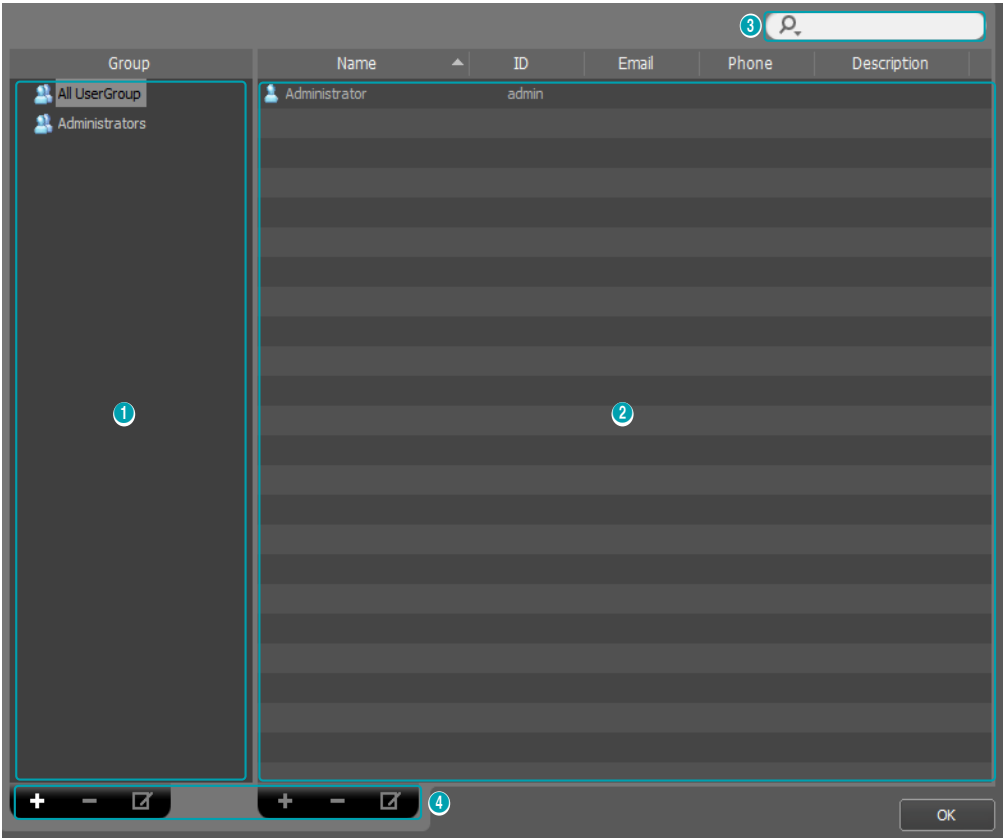
- 1 Among the devices added to the site tree, when the set password renewal cycle expires or the expiration cycle arrives in the near future, a password renewal notification window is displayed on the screen.



- 2 Click **Change Later** to extend the password change period, and if it fails, a failure message is displayed.

User

Registers and manages users or user groups.
Click on **System** menu > **IDIS Center Setup** > **User**.

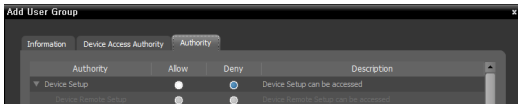
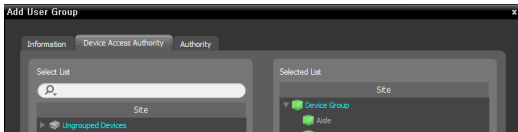
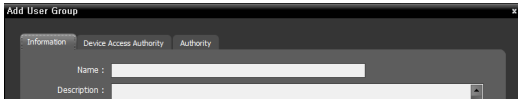


①	Group Panel	Shows a list of registered device user groups.
②	User List Panel	Shows the list of users registered in each user group and related information.
③	Search	Searches users registered in each group. Select a user group in Group Panel and enter the search query.
④	Add, delete, modify	Adds, deletes, or modifies user group or user.

User Management

The authority for each function of IDIS Center can be set differently by each user.

- 1 When you click on the **+** button at the bottom of the User Group panel, an **Add User Group** window will appear.



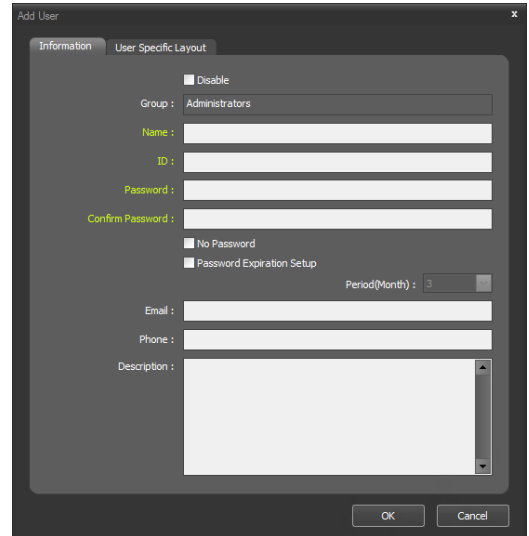
- **Information** Tab: Enter a name for the user group.
- **Device Access Authority** Tab: Grant or restrict access authority for each device.
- **Authority** Tab: Grant or restrict authority for each function.

- 2 Click **OK** to add the user group.

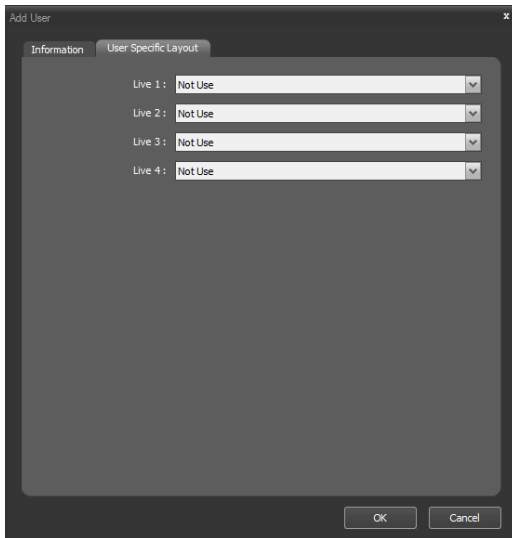


Administrators group is authorized to use all functions, and cannot be modified.

- 3 When you click on the new user group and click the **+** button at the bottom of the user group panel, an **Add User** window will appear.



- **Disable:** Check the box to disable the user.
- **Name:** Enter a name for the user.
- **ID, Password, Confirm Password:** Enter a unique user ID and password for running IDIS Center software.
- ☒ Passwords can be set from 8 to 16 letters without spaces.
- **No Password:** Allows user to log in without a password when logging on to IDIS Center .
- **Password Expiration Setup:** Sets an expiration date for the password. The user is notified upon logging in if the password is expired.
- **User Specific Layout:** Selects the user layout when logging in to the IDIS Center.
- **Email:** Enter an email address. The email address must contain a "@".
- **Phone, Description:** Enter a phone number and description. Only digits and "-" can be entered in the phone number field.



- **User Specific Layout:** Select a user layout for each Live tab when operating IDIS Center.

4 Click **OK**.

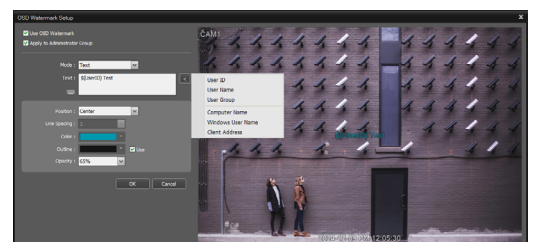
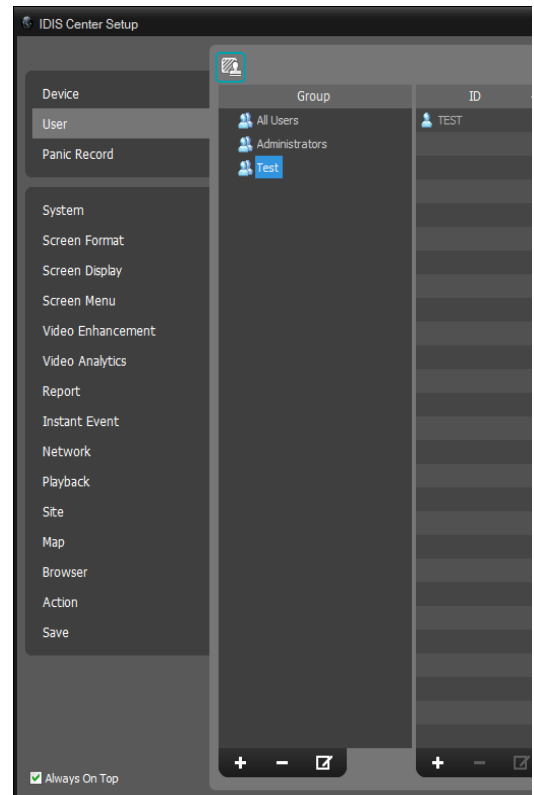


- By selecting a registered user group or user and clicking the  button, you can modify the information about the selected user group or user.
- Show all registered users in the IDIS Center system regardless of the user group if you select **All UserGroup**.
- Select a registered user and drag & drop it in the other user group to change the group. Monitoring group is also changed when changing the user group.

OSD Watermark

Administrators of the Administrators group can set the watermark to be displayed on the screen and set whether to display the watermark for user groups.

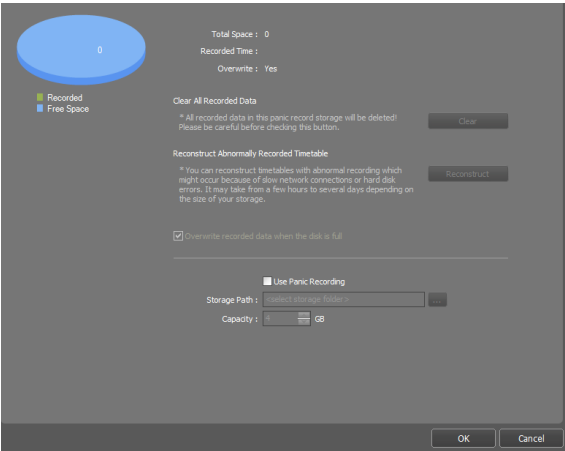
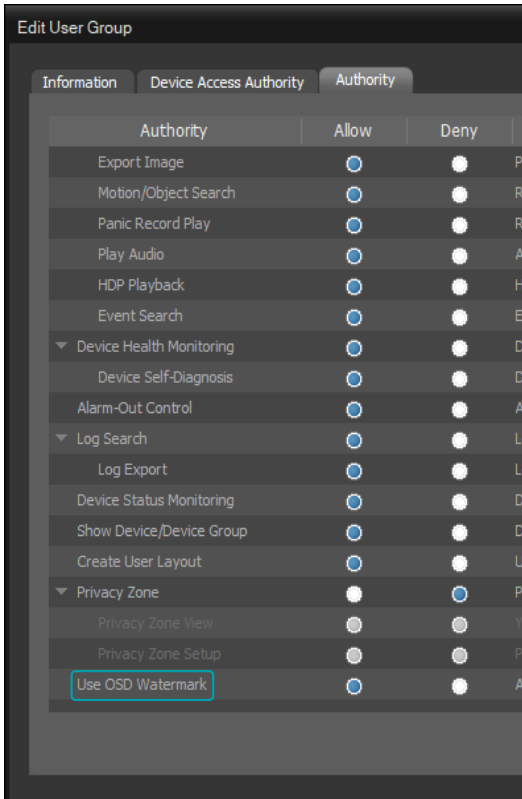
- 1 When you click on the  button at the top of the User Group panel, an **OSD Watermark Setup** window will appear.



- **Use OSD Watermark:** Select whether to display the OSD watermark.
- **Apply to Administrator Group:** Select whether to display the OSD watermark of the user screen of the Administrator Group.
- **Mode:** **Text** mode displays the text once at a specified location on the screen. **Text pattern** mode displays the text repeatedly.

- **Text:** Specify the text to be displayed on the screen. Use the text macro function via the button on the right.

2 Allow or deny OSD watermark for the user group in the **Authority** tab of the **Edit User Group**.



- **Total Space:** Shows the total space and available space allocated for panic recordings.
- **Recorded Time:** Shows the total duration of panic recordings in the allocated storage space.
- **Overwrite:** Shows whether Recycle is enabled or not.
- **Clear All Recorded Data:** Deletes all panic recordings.
- **Reconstruct Abnormally Recorded Timetable:** If an error occurs while recording, the recorded data, and therefore timetable information may become out of sync and timetable in IDIS Center software may display incorrect information. You can click **Reconstruct** to restore the timetable information and view the correct recorded data.
- **Overwrite recorded data when the disk is full :** When the allocated storage space becomes full, the system overwrites existing data with new data, starting with the oldest first.
- **Use Panic Recording:** Enables Panic Recording.
- **Storage path:** Set folder path of the storage space for Panic Recordings.
- **Capacity:** Allocates storage space for panic recordings. From 4 GB to 64 GB can be selected.



A live video must be displayed on the screen to create a panic recording. If you switch to playback panel or another panel in the middle of a panic recording, the live video will no longer be displayed on the screen and panic recording will stop automatically.

Panic Record

Allows user to manually start or stop a recording while monitoring live videos.

Click on **System** menu > **IDIS Center Setup** > **Panic Record**.

Panic Recording

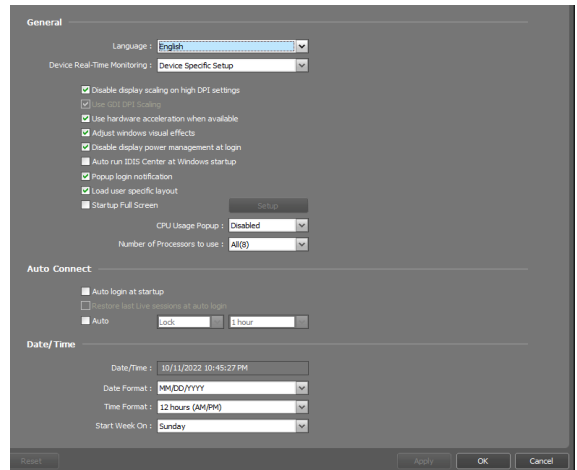
- 1 On the Live screen, select a camera that shows the video you wish to record.
- 2 Click  (Panic Record) button in the control toolbar on camera screen.
- 3 A Panic Record icon  will be displayed on the upper right corner of the camera's image and recording will begin.
- 4 To stop recording, click  (Panic Record) button again.



System

Configure the system language, automatic connection, date, and time.

Click on **System** menu > **IDIS Center Setup** > **System**.



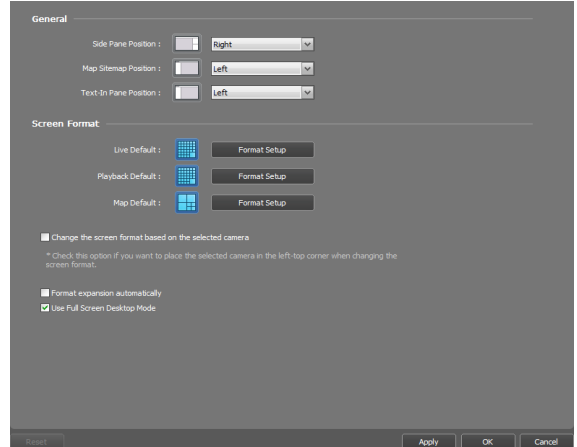
- **Language:** Select the language for IDIS Center. Changed settings will take effect when the program is restarted.
- **Reset Tab Name:** This option is displayed when a language different from the current language is selected. When restarting the system after selecting this option, every tab name is reset to the selected language including the name entered by the user.
- **Device Real-Time Monitoring:** Select the range of the Device Real-time Monitoring. This setting changes the real-time monitoring status of the devices. If **All Devices Deactivated** is selected, the **Device Real-Time Monitoring** is removed from the **Edit Device** window of each device.
- **Disable display scaling on high DPI settings:** Uncheck to change the size of the client program according to the DPI scale.
- **Use GDI DPI Scaling:** Makes text more visible on high DPI displays. This function is activated only when the operating system supports Use GDI DPI Scaling and "Disable display scaling on high DPI settings" function is disabled.
- **Use hardware acceleration when available:** Use this function in an environment that meets certain conditions.
- **Adjust windows visual effects:** Choose whether to change the window visual effects settings.

- **Disable display power management at login:** Display power management option includes **Turn off the display** and **Put the computer to sleep**.
- **Auto run IDIS Center at Windows startup:** Runs IDIS Center automatically at Windows start-up.
- **Pop up login notification:** A message box will pop up notifying login when logging into the IDIS Center program.
- **Load user specific layout:** Display the specific layout which the user has set when restarting the program.
- **Startup Full Screen:** Displays the full screen when the program is restarted. You can click the **Setup** button to select the panel displayed on each monitor.
- **CPU Usage Popup:** Shows a warning if the IDIS Center system's CPU usage exceeds a set value and notifies the user.
- **Number of Processors to use:** Set up the number of processors to use during the IDIS Center program running. It allows you to limit the CPU usage for the IDIS Center program running.
- **Auto login at startup:** Uses the previous login information to login automatically upon IDIS Center program startup. If **Restore last Live sessions at auto login** option is enabled, previous Live session is restored in the current Live panel.
- **Auto:** Automatically logs out of IDIS Center program or locks IDIS Center system if a mouse or keyboard input is not detected for a set period of time while logged in.
- **Date/Time:** Displays current date and time.
- **Date Format, Time Format:** Sets the format for displaying date and time.
- **Start Week On:** Sets the first day of the week.

Screen Format

Configure the camera screen and layout-related settings.

Click on **System** menu > **IDIS Center Setup** > **Screen Format**.

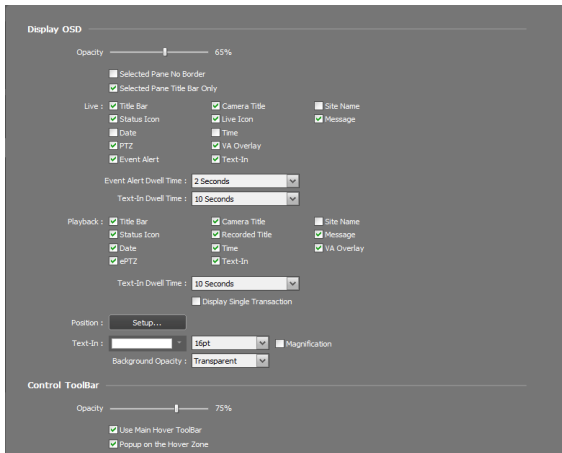


- **General:** Sets the position of side panel, position of root map list in the panel, and position of text-in panel.
- **Screen Format :** Shows the basic layout of live screen, playback screen and map screen. The screen layout can be changed by clicking the **Format Setup** button.
- **Change the screen format based on the selected camera:** If enabled, the camera selected in the current screen is positioned at the first camera screen when the layout is changed.
- **Format expansion automatically:** Layout expands automatically depending on the number of devices to connect to.
- **Use Full Screen Desktop Mode:** When full screen is activated, the full screen of the tab is additionally displayed on the taskbar separately from the current client S/W.

Screen Display

Sets OSD(On Screen Display) display method on the camera screen and enables / disables OSD.

Click on **System** menu > **IDIS Center Setup** > **Display OSD**.



- **Opacity:** Adjusts the opacity of OSD using a slider.
- **Selected Pane No Border:** Hides the border of the selected pane.
- **Selected Pane Title Bar Only:** Displays the title bar of the selected pane.
- **Live, Playback:** Configures OSD information displayed on the screen.
 - **Camera Title:** Displays the camera name set in IDIS Center program.
 - **Title bar:** Separates the title display area at the top of the camera screen.
 - **Recorded Title:** Displays the name of the camera configured during video recording.

- **Status Icon:** Displays status OSD.

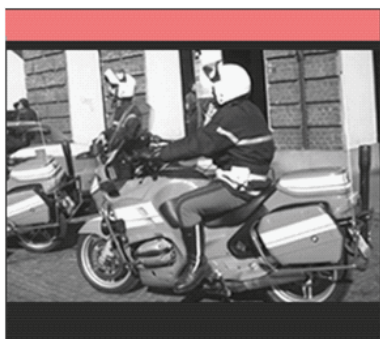
	Panic Record in progress
	PTZ
	Camera Sequence
	Zoom In
	Device record in progress
	Talk
	Listen

- **PTZ:** Adjusts pan & tilt control buttons on the screen when controlling a PTZ.
- **Date, Time:** Displays current date and time of IDIS Center system.
- **Event Alert, Event Alert Dwell Time** Turns the title bar of a camera to red when an event occurs on the device. The event warning is displayed for the duration set for event warnings and disappears. If **Manual Off** is selected, event warning disappears when the user selects the camera screen.
- **Motion Block:** If a motion detection event occurs on a device, the part of the screen where motion is detected is displayed as a red block. Only supports network video servers.
- **ePTZ:** Displays the guide GUI (Graphic User Interface) when you control PTZ in the fisheye camera.
- **Site Name:** Displays the name of the device. Displays only if camera name and device name are different.
- **Text-In, Text-In Dwell Time:** If a text-in event occurs on a device, text-in information is displayed on the screen. Only supports 1x1 layout. The Text-In information will be removed after the Text-In Dwell Time from the time an event occurred.
- **Message:** Displays message on the screen. For more information on screen messages, refer to the Network section on page **Network on page 44**
- **Position:** Used to adjust the OSD's position, text size, and margin.
- **Text-In:** Used to change the color, size, and background opacity of the text-in.

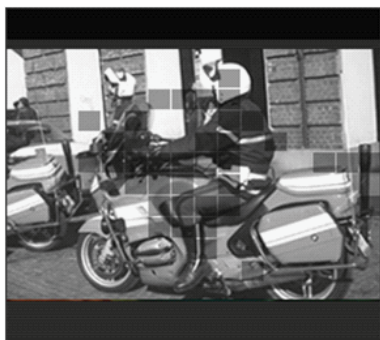
- **Control ToolBar:** Adjusts the opacity of control toolbar on camera screen using the **Opacity** slider.



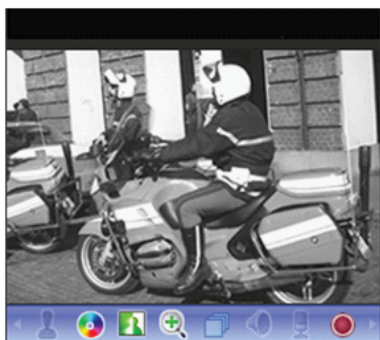
Camera title, Status icon, Date/Time



Event Alert



Motion Block



Control ToolBar

- **Use Main Hover ToolBar:** Sets whether the hover toolbar is displayed in the camera pane. When functions are executed via the context menu, the hover toolbar is displayed regardless of this setting.
- **Popup on the Hover Zone:** Toggles on/off the toolbar by a mouse cursor position in the hover zone.

OSD on each camera screen in Live screen



- **Camera Title:** Indicates the camera's title.
- / (Listen or talk): Indicates that IDIS Center program is receiving audio from the device or sending audio to the device.
- (PTZ): Indicates that PTZ can be controlled.
- (Camera Sequence): Indicates that camera sequence is in progress.
- (Panic Record): Indicates that panic record is in progress by IDIS Center system.
- (Device Record): Indicates that device record is in progress by IDIS Center system.
- (Zoom): Indicates that the video is zoomed in.
- (Freeze-frame): Indicates that freeze-frame function is used on the live video when connecting to INK.
- (Color Control) : Indicates that color control is in use.
- (Image Effect): Indicates that image effect is in use.
- **Date, Time:** Displays current date and time of IDIS Center system.
- **Event Alert:** Indicates that an event has been detected.
- **Motion Block:** A block is displayed over the area of

video in which motion event was detected.

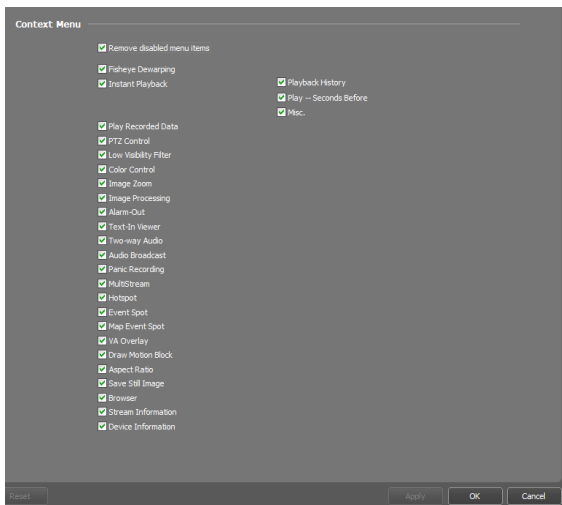


Only supports network video servers.

Screen Menu

Add or remove the context menu items on the live tab.

Click on **System** menu > **IDIS Center Setup** > **Screen Menu**.

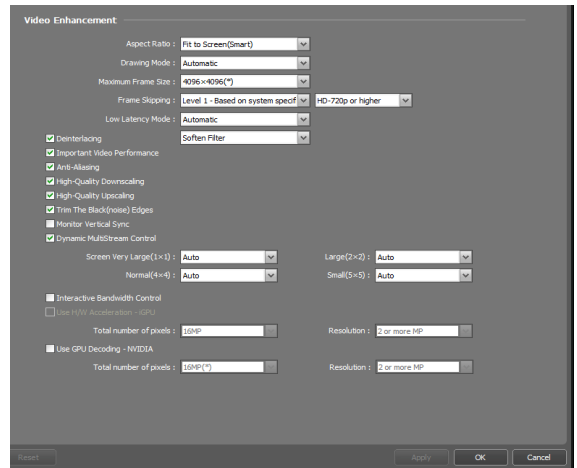


- **Remove disabled menu items:** Removes the disabled menu items from the context menu.

Video Enhancement

Configure the video-related settings.

Click on **System** menu > **IDIS Center Setup** > **Video Enhancement**.



- **Aspect Ratio:** Sets the aspect ratio of video output.
 - **Original Ratio:** Resizes camera screen to original aspect ratio of the video.
 - **Fit to Screen:** Resizes video to camera screen regardless of original aspect ratio.
 - **Fit to Screen(Smart):** Resizes video according to the extra spaces, to the **Fit to Screen** or **Actual Size**.
 - **Fit to Screen(Aspect ratio):** Resizes video to camera screen while maintaining original aspect ratio.
- ☒ Left and right part of the video may be cropped depending on size of camera screen. When using **Zoom**, **Hotspot**, **Event Spot**, **Show Motion Block** features, **Original Ratio** is applied instead of camera screen aspect ratios.
 - **Actual size (1x):** Displays the video in actual size.
- **Drawing Mode:** Choose the drawing mode for video display on the screen. The overall color and display performance may vary depending on drawing mode settings.
- **Maximum Frame Size:** Select the maximum frame size to display on screen.
- **Frame Skipping:** Select the frame skipping to enhance video performance if the video exceeds the decoding specification.
 - **Level 1 - Based on system specifications:** Apply frame skipping in decoder configurations that exceed video decoding specifications.
 - **Level 2 - Include when the pane size is smaller than the video resolution:** Apply frame skipping if the size of the target camera pane is smaller than the size specified by the original video resolution.
 - **Level 3 - Turn off loop filter:** Applies codec's loop filter off when skipping frames.

- **Low Latency Mode:** Minimizes frames to be decoded in parallel to reduce DPB (Decoded Picture Buffer).



This feature requires high specification as it reduces buffering, parallel processing and post processing.

- **Deinterlacing:** If the video is encoded in interlaced mode, this option removes horizontal stripes or noise that may occur during movement to improve video output quality. Select the desired de-interlacing filter.
- **Important Video Performance:** Puts speed over quality of video output when displaying videos on the screen.
- **Anti-Aliasing:** Removes stair step (blocks) artifacts that are caused when zooming a video to improve overall quality of video output.
- **High-Quality Downscaling/Upscaling:** Maintains the quality of video output when downscaling/upscaling the video.
- **Trim The Black(noise) Edges:** Removes black borders (noise) around videos.
- **Monitor Vertical Sync:** Improves tearing artifacts caused when the monitor's refresh rate is low.



Only supports 1x1 layout. CPU usage may increase if this option is enabled.

- **Dynamic MultiStream Control:** IDIS Center can be set to use different streams depending on layout. If **Auto** is chosen, IDIS Center will automatically set the most appropriate stream for the layout.



Only supports devices that use more than one stream.

- **Interactive Bandwidth Control:** Changes resolution and frame rate of the device depending on layout to control network bandwidth. It allows more efficient use of network bandwidth and prevents performance drops in IDIS Center System caused by network overloads.
 - **1x1 layout:** Maximum resolution and transfer speed supported by the device.
 - **Multiple layout:** Resolution and frame rate lowered to an appropriate level for each layout



- This function must be supported by the device to operate properly.
- This function only applies to Live videos.

- **Use H/W Acceleration - iGPU:** Enables hardware acceleration for high-quality video processing. This option is only available if the user's PC supports hardware acceleration.
- **Use GPU Decoding - DXVA2:** Enables GPU decoding in the IDIS Center program. It may enhance processing of HD (High-Definition) video. This option is available only when GPU decoding is enabled in your PC.

Video Analysis

Configure video analysis-related settings.

Click on **System** menu > **IDIS Center Setup** > **Video Analysis**.

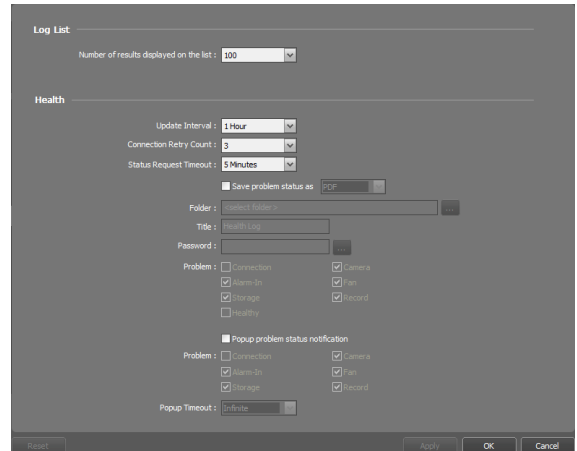


- **Color Settings:** Set the color of the image analysis result overlaid on the image by object type.
- **Display Object Type:** Displays the object type in the image analysis result.
- **Display Accuracy:** Displays the accuracy of the video analysis results.
- **Display Colors:** Displays the colors of the video analysis results.

Report

Configure log output-related settings.

Click on **System** menu > **IDIS Center Setup** > **Report**.



- **Number of results displayed on the list:** Set the number of logs to be displayed per page.
☒ For **Device Log**, default is 100 regardless of above settings.
- **Update Interval:** Configure the update interval of status displayed in the operational status panel. Select **Not Use** to disable the Health status panel.
- **Connection Retry Count:** Set up the maximum number of connection retries.
- **Status Request Timeout:** Set up the maximum waiting time for device status request.
- **Save problem status as:** Save the log of the selected problem items as PDF or CSV according to the update interval. Set up the storage folder with a title and password (PDF only).
- **Popup problem status notification:** Display a popup notification when a problem occurs from the selected problem items according to the update interval. The popup notification displays issue related information, and click **Self-Diagnosis** to start the self-diagnosis.
- **Popup Timeout:** Set the time for automatic closing of the problem status popup window. Select **Infinite** for a user to manually close the popup.

Instant Event

Configure Live event-related settings.

Click on **System** menu > **IDIS Center Setup** > **Instant Event**.

- **Use Event Panel:** Displays the Instant Event List panel. Unchecking the box hides the panel.
- **Time Range:** Sets the duration in which each event is displayed in the Instant Event list.
- ☒ If the event list is less than 100, event notification does not disappear from the live event list even if the duration passes.
- **Column:** Selects the information to be displayed on the live event list.
- **Callback Port:** Set the port number for receiving callback messages from the device. Port number must be identical to the port number set on the device for remote callbacks.
- **Live Text-In Time Range:** Set the duration in which text-in data is displayed when text-in event is detected. Text-in data can be checked in the text-in viewer window during the set duration after text-in event has occurred. For more details, refer to [Text-In Viewer on page 73](#).
- **Treat <Device Disconnection> Event as Emergency Event:** When a device is disconnected, the disconnection event is treated as an emergency event.
- **Event Sound:** Enable audio notification when an event occurs. Select the desired event, and click to set the audio file (.wav) to be played. You can preview the selected audio file by clicking .

- **Auto disable when Two-way Audio is on.:** Set up to automatically turn off the event sound when using the two-way audio.
- **Event Spot:** Shows the camera video in which an event occurred on the event spot screen.
 - **Event monitoring dwell:** Set the duration in which video is displayed on the event spot screen.
 - **Minimum monitoring dwell:** Set the watch duration of current event when another event is detected while current event is being displayed. The camera video of the latter event is displayed after the set duration has passed.
- **Intercom:** When the intercom call is received, when an event is detected, a pop-up screen appears.
 - **Not Use:** Do not specify the setting when a call request is received.
 - **Notification:** Display the intercom notification popup.
 - **Intercom PopUp:** Display the intercom popup.

Network

Configure network-related settings.

Click on **System** menu > **IDIS Center Setup** > **Network**.

- **Buffering for HD Live:** When monitoring a HD video, short term buffering can be used to smoothen video playback. Buffering may be delayed or live video may be delayed depending on network conditions.
- **Live image no frames detect interval:** Set the interval for transmission of video frames. If a video frame is not transmitted to IDIS Center system for the set duration, a message is displayed on the corresponding camera screen.

- **Disconnection Message:** The on-screen messages for indicating lost connection to the device or camera status can be changed. Click **Setup...**, then check the boxes next to each message and change the message.
- **FEN:** If there is a device that uses FEN, enter the device name that is registered on the FEN server. If the device name entered is incorrect, system will not be able to register and connect to a device that uses FEN. The client NAT type is displayed.
- **Use FEN:** Check **Use FEN** to use FEN.
- **RTP Incoming Port Range:** Set the inbound RTP port range if a device that transmits video using RTP protocol is registered.



If network firewall or local area network only allows certain UDP/RTP ports, the RTP port range must be set to those ports allowed. Make sure that the port numbers do not overlap with general streaming programs. Overlapping port numbers may result in failure to monitor videos.

- **Don't display broken frames:** When using RTP protocol, frames may be corrupted or lost depending on network conditions. In such case, this option allows user to choose whether to display corrupted frames on Live or Playback panels.
- **Buffering Frame Count:** Set the number of buffered frames to be used in RTP protocol. Higher number will result in smoother video playback, but also causes a delay in the video.
- **Use Network Keyboard:** IDIS Center program can be controlled using network keyboards. Set the port to be used by IDIS Center program. Enabling **Use large mouse cursor** increases the size of the mouse cursor. Enabling **Use the arrow buttons to select a pane** selects a pane with the arrow buttons of keyboard. Use Enabling **MFZ camera control controls** MFZ cameras using the network keyboard.

Playback

Configure playback settings.

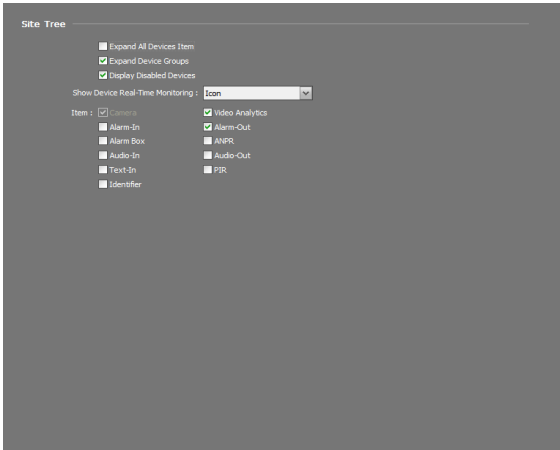
Click on **System** menu > **IDIS Center Setup** > **Playback**.

- **Session Timeout:** Set a session timeout in Play/Instant Play. The session will be disconnected after the set time.
- **Event Time Shift:** Set up to search the frame before the specific time based on the event-related frame time.
- **Dual-Stream Playback Priority:** Set up to select the default stream for the dual-stream playback. Playback is performed from the 2x2 layout for **Dynamic Control**, from layouts under 2x2 for **Main Stream Priority**, and from the other layouts for **Sub Stream Priority**.
- **Prefer Responsiveness When Searching Time Overlap:** When searching for a section in which many segments exist, the search is performed by limiting the number of the latest segment.
- **Playback without Time Overlap:** Displays without segmentation on the time table when a time overlap occurs. Sections with time overlap use the recording data of the latest segment.
- **Use All Key Frames For Fast Playback:** When playing back recorded video at high speed, all keyframes are played.
- **Prefer Responsiveness to Time-Precision:** Displays the closest time frame possible while reducing the loss of responsiveness, preferred than time-precision, when performing the GoTo function on a Long-GOP image.
- **Key-Frame mode forced on Long-GOP backward playback:** Set up to play the key-frame only on Long-GOP backward playback.
- **Timetable:** Specify the color to be displayed in the timetable for each recording format.

Site

Configure site settings.

Click on **System** menu > **IDIS Center Setup** > **Site**.

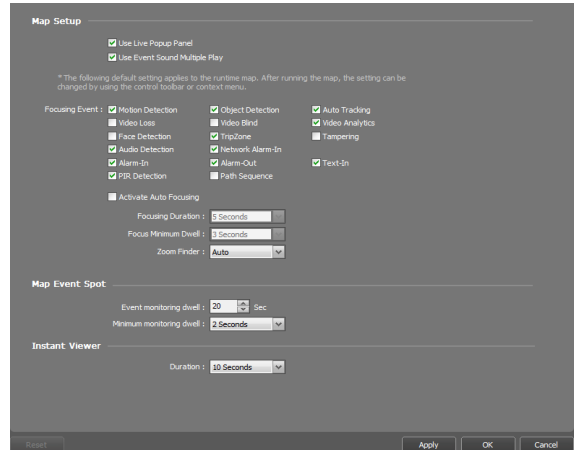


- **Expand All Devices Item:** All device items in the site tree are expanded upon login.
- **Expand Device Groups:** Displays the devices in the device group of the Site list when monitoring video or playing recorded video.
- **Show Disabled Devices:** Displays or hides the disabled devices in the Site list.
- **Show Device Real-Time Monitoring:** Set up the way of displaying device real-time monitoring (Not use, icon , green overlay ) on the site tree.
- **Item:** Displays or hides the list of input/output devices supported by the device in the Site list when monitoring video or playing recorded video.

Map

Configure map-related settings.

Click on **System** menu > **IDIS Center Setup** > **Map**.



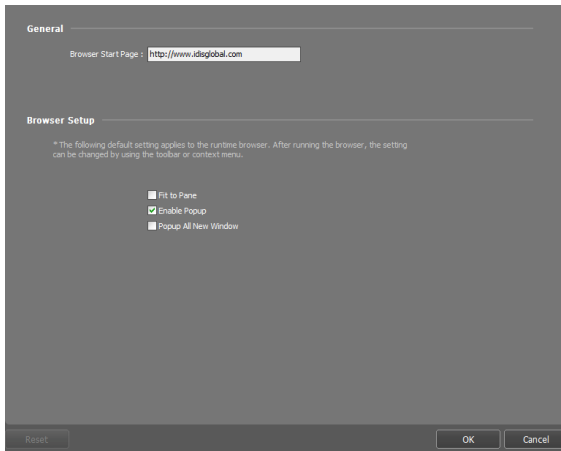
- **Use Live Popup Panel:** Displays the Live Popup List panel. Unchecking the box hides the panel.
- **Use Event Sound Multiple Play:** Simultaneously plays each camera's sound file when events occur at multiple camera sites at the same time. Uncheck the box to play the first event's sound file.
- **Activate Auto Focusing:** Zooms in on the zone where the device is located on the map when a designated event occurs.
 - **Focusing Event:** Designate an event to auto-focus on.
 - **Focusing Duration:** Set the duration of auto-focus.
 - **Focus Minimum Dwell:** Set the minimum auto-focus duration for the first event when consecutive events are detected on different devices. The auto-focus will switch to latter event after the set duration has passed.
- **Zoom Finder:** Shows or hides PIP screen. The square of PIP screen displays the zoomed area. If **Auto** is selected, PIP screen is only displayed when canvas is zoomed in.
- **Map Event Spot:** Shows the camera video in which an event occurred on the map event spot screen.
 - **Event monitoring dwell:** Set the duration in which video is displayed on the map event spot screen.
 - **Minimum monitoring dwell:** Set the watch duration of current event when another event is detected while current event is being displayed. The camera video of the latter event is displayed after the set duration has passed.

- **Instant viewer:** Set the duration of instant viewer.



Instant viewer is displayed when the camera is clicked on the map.

Browser

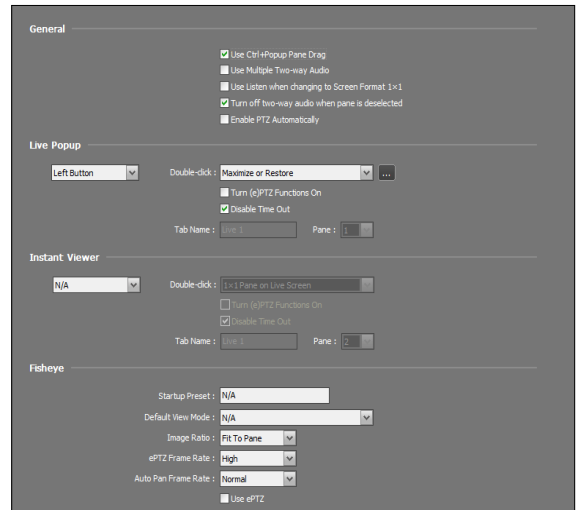


- **Browser Start Page:** Specify the browser's start page.
- **Fit to Pane:** Adjusts the web page to fit the size of the browser screen.
- **Enable Popup:** Allows popup pages.
- **Popup All New Window:** Displays the web page's popup screens as separate screens.

Action

Configure action-related settings.

Click on **System** menu > **IDIS Center Setup** > **Action**.



- **General:** Set the general action on the live popup.
 - **Use Ctrl+Popup Pane Drag:** Press Ctrl button and drag the live popup to a pane on the **Live** tab to display the image on the pane.
 - **Use Multiple Two-way Audio:** Speaking and listening functions only work for a single camera when it is unchecked.
 - **Use Listen when changing to screen Format 1x1:** The listening is worked when changing to 1x1 screen format. (Enable Multi-Way Audio function cannot be used simultaneously with this.)
 - **Turn off two-way audio when pane is deselected:** When selecting a different pane while two-way audio is active in the selected camera pane, the two-way audio function in the previous pane will be disabled.
 - **Enable PTZ Automatically:** Set PTZ control function automatically.
- **Live Popup:** Double-click on the pane to practice the following functions.
 - **Maximize or Restore**
 - **1x1 Pane on Live Screen**
 - **Maximize on Application Monitor**
- **Instant Viewer:** Double-click on the predefined button, between the middle or the right button, of the mouse to perform the following functions.
 - **1x1 Pane on Live Screen**

- **Turn (e)PTZ Functions On:** Set PTZ control function on default.
- **Disable Time Out:** Disables the popup dwell time out after Action.
- **Fisheye:** Set up the default Action when accessing a fisheye camera.
 - **Startup Preset:** Set up the preset name to be used when accessing a fisheye camera. If each camera's format is saved under the same preset name, it is easier to change the format.
 - **Default View Mode:** Set the default view mode.
 - **Image Ratio:** Set the image ratio.
 - **ePTZ Frame Rate:** Set the ePTZ frame rate. High (Over average of 60 Fps), Normal (Over average of 30 Fps), Low (Average of 15 Fps), Very Low (Average of 5 Fps) - a PC with a low specification is appropriate.
 - **Auto Pan Frame Rate:** Set the auto pan frame rate. High (Over average of 60 Fps), Normal (Over average of 30 Fps), Low (Average of 15 Fps), Very Low (Average of 5 Fps) - a PC with a low specification is appropriate.
 - **Use ePTZ:** Uses ePTZ when accessing a fisheye camera.
- **Include Image Information:** Include image information in the saved still image file.
- **Clip-Copy:** Set video related options.
 - **Include Digital Signed Player:** Select to save the recorded image including the digital signed player. This option is activated when saving the video.
 - **Use Default File Path:** A video is automatically saved in the pre-set default file path with the default filename.
 - **Folder:** Set the default folder to use when saving a video.
 - **Filename:** Set the default filename to use when saving a video.
 - **Prompt for Case Number when saving:** Displays the Case Number input window when saving a video, and the entered Case Number is filled in the \$(CaseNumber).
 - **Create new folder using Case Number:** Displays the Case Number input window when saving a video, and a folder of the entered Case Number is created in the default file path. The video is saved in the created folder.

Save

Configure still image saving-related settings.
Click on **System** menu > **IDIS Center Setup** > **Save**.

- **Still Image:** Set still image related options.
 - **Folder:** Select a folder to save the still image.
 - **Filename:** Set a name of the folder for saving the still image. Supported extensions include JPG, WebP, PNG, TIF, BMP and PDF.

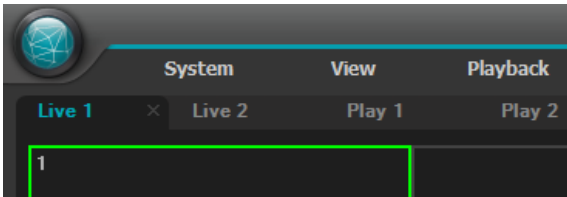
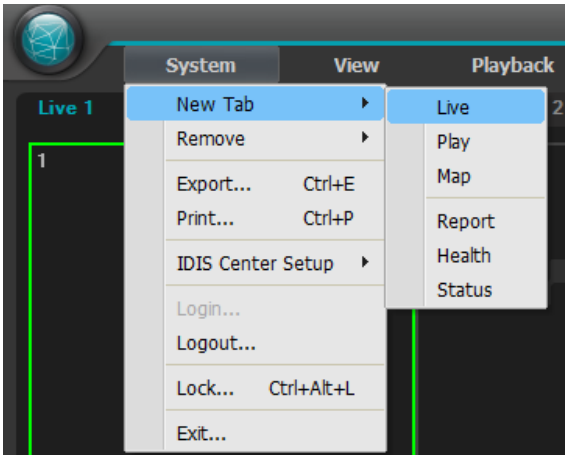
Backup/Restore

IDIS Center program's settings can be saved as ".iexp" file or saved settings can be imported and applied to current IDIS Center program.

Part 5 - Operation

Live Video Mode

Live videos of registered sites can be monitored. IDIS Center program receives videos according to the device's settings and displays live videos. Up to 4 Live panels are supported for monitoring live videos. If Live tab doesn't exist in the panel tabs, you can add it by clicking **New tab > Live** in **System** menu.



- 1 In the panel tabs, click the **Live** tab.
 - 2 In the **Site** list, select a site you wish to connect to. Then, drag & drop the selected site on the live screen using your mouse.
 - 3 The live video of the selected site will be displayed on the screen.
- ☒ You can select and move a camera to a desired position on the Live screen without disconnecting by selecting the camera being monitored and moving it using drag & drop with your mouse.
 - Monitoring or playing 2 or more camera videos on a PC with a low specification may cause the performance of IDIS Center system to drop.

Panel Toolbar

The Live panel can be controlled by using the panel toolbar at the bottom.



1	Save to User Layout	Saves current screen layout and device connection status as a user layout.
2	Screen Format	Change layout. Various layouts can be selected by clicking + button. You can switch to previous or next camera group by clicking or .
3	Hotspot	Sets the selected screen as hotspot screen.
4	Event Spot	Sets the selected screen as event spot screen.
5	Map Event Spot	Sets the selected screen as map event spot screen.
6	Layout Sequence	Starts or stops layout sequence.
7	Additional Menu	• Remote Site Panel: Shows or hides a site list in the floating panel or full screen. Not every panel supports this function. • Text-In Panel: Shows the Text-In panel.
8	Export Image	• Save Still Image: Saves the current frame of the video on the screen as an image file in actual size. • Export Image File, Print Image: Save or print current image on the screen. • Export Panorama Screen: Save the image currently shown on the screen and the floating panels.
9	Audio Broadcast	Broadcasts audio to all devices in the current Live tab.
10	NVR Two-Way Audio	Receives audio from the NVR device or sends audio to the NVR device.
11	Panic Recording	Starts panic recording of videos from all devices in the current Live tab.
12	Text-In Panel	Shows the Text-In panel. The Text-In panel shows the text-in data of the devices currently connected to the IDIS Center. If a camera is associated with the text-in device and the video of the associated camera is displayed on the current Live screen, the text-in data is displayed on the video on the camera screen, too. You can change the length of time that the text-in data is displayed by using the Live Text-In Time Range setting. For more details about the Live Text-In Time Range setting, refer to Instant Event on page 44 .
13	Browser	Sets the selected screen as the browser screen.

Set Hotspot

Hotspot is a camera screen designated by the user to be emphasized while monitoring a video. A hotspot screen is marked by red border.

- 1 Select a camera screen to set as hotspot screen from the screens currently being monitored.
- 2 Click  at the bottom of the Live panel. Program will be connected to the selected camera screen and previous connection will be terminated. A hotspot screen is marked by red border.
- 3 When a camera is selected on the screen, the selected camera will be displayed in the hotspot screen and the selected camera can be controlled.

Set Event Spot

Event Spot is a camera screen designated to emphasize the videos in which events occur while monitoring a video. An event spot screen is marked by blue border.

- 1 Select a camera screen to set as event spot screen from the screens currently being monitored.
- 2 Click  at the bottom of the Live panel. Program will be connected to the selected camera screen and previous connection will be terminated. An event spot screen is marked by blue border.
- 3 When an event occurs on the screen, the camera in which the event occurred will be displayed in the event spot screen.

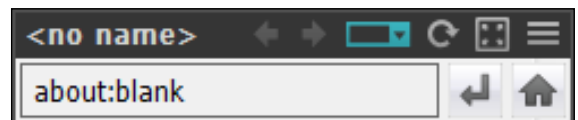
Set Map Event Spot

Map Event Spot is a camera screen designated to emphasize the videos in which events occur on a map while monitoring a video. A map event spot screen is marked by gray border.

- 1 Select a camera screen to set as map event spot screen from the screens currently being monitored.
- 2 Click  at the bottom of the Live panel. Program will be connected to the selected camera screen and previous connection will be terminated. A map event spot screen is marked by gray border.
- 3 When an event occurs on the screen, the camera in which the event occurred will be displayed in the map event spot screen.

Browser Screen Settings

- 1 Select a camera screen to set as browser screen from the screens currently being monitored.
- 2 Click  at the bottom of the Live panel. Program will be connected to the selected camera screen and previous connection will be terminated.
- 3 Web browser page appears on the browser screen.



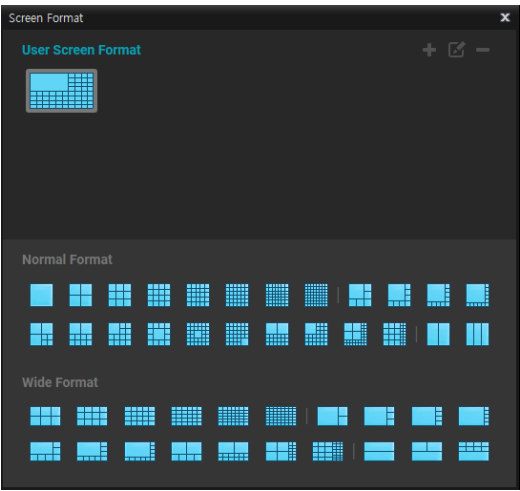
-  (Menu): Displays the browser menu.
-  (Previous page, Next page): Navigate to the previous/next page.
-  (URL entry): Used to enter a URL (Uniform Resource Locator) address. Click  on the right after entering an address to load the URL.
-  (Refresh/Stop): Refreshes/stops the web page.
-  (Fit to Pane): Adjusts the web page to fit the size of the browser screen.
- **Enable Popup**: Allows popup pages.

- **Popup All New Window:** Displays the web page's popup screens as separate screens.
- **Print:** Prints current web page.
- **Remove:** Releases the setting of as browser screen.

Screen Format

☒ **Screen Format** in the IDIS Center program indicates the divided image pane arrangement on the live or play panel. Select from screen formats on the panel toolbar or click the  (Screen Format) button to select from additional screen formats and apply to the panel.

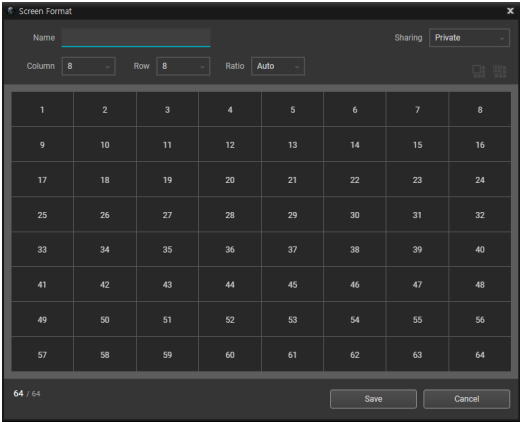
Screen Format includes default **Normal Format**, **Wide Format** and customized **User Screen Format**. Clicking the left mouse button on the screen format applies the selected format to the panel, and clicking the right mouse button selects the chosen screen format. Hovering the mouse over a screen format item displays a tooltip with screen format information. **User Screen Format** items are arranged in alphabetical order and in order of number of panels.



- **+** (Add): Adds a user screen format.
-  (Modify): Edits user screen format information.
- **-** (Delete): Switches to user screen format delete mode. Click on a **User Screen Format** item to remove the item.

User Screen Format Add/Modify

Click the **+** (Add) or  (Modify) buttons of **User Screen Format** to add a new format or edit the format information. Select a format item using the right mouse button or arrow keys to activate the  (Modify) button.

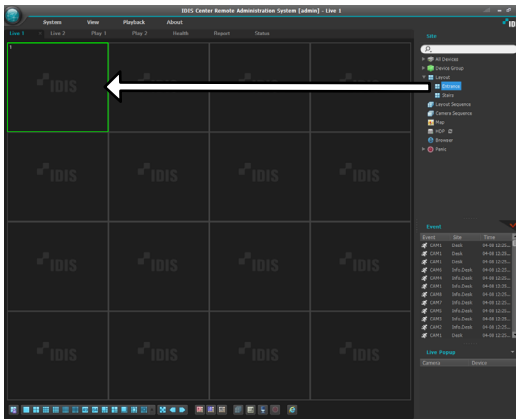


- **Name:** Enter a name for user screen format.
- **Sharing:** Select user range for the chosen screen format.
 - Public: Displayed to all users.
 - Group: Displayed to the users in the owner group.
 - Private: Displayed to the owner only.
- **Column, Row:** Indicates the number of column and rows of the screen format.
- **Ratio:** Displays the horizontal, vertical ratio of the panel. Selecting **Auto** uses the ratio of the monitor displaying the Client. Selecting **Default** indicates the panel ratio configured before the screen format modification.
-  (Merge): Merges the selected panes into a single pane.
-  (Unmerge): Splits the selected pane into panels in default size.
- ☒ Clicking the middle mouse button on the panel merges, and clicking the right mouse button unmerges the pane.
- Up to 256 panes are available on the panel in maximum.

Layout Monitoring

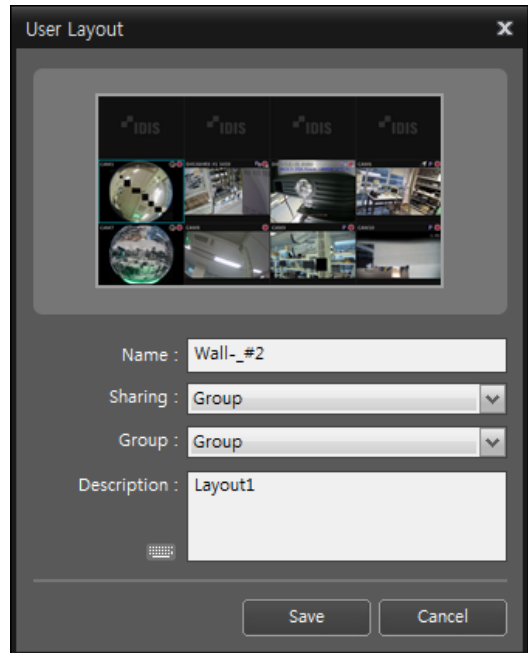
Videos from multiple cameras can be monitored using a predefined layout. A layout must be registered to use layout monitoring.

- 1 In the Layout list, select a layout you wish to use. Then, drag & drop the selected layout on the live screen using your mouse, or double-click on the **Layout Device** to display on the selected monitoring tab.
- 2 The camera videos added the layout will be displayed according to the predefined layout.



Registering a User Layout

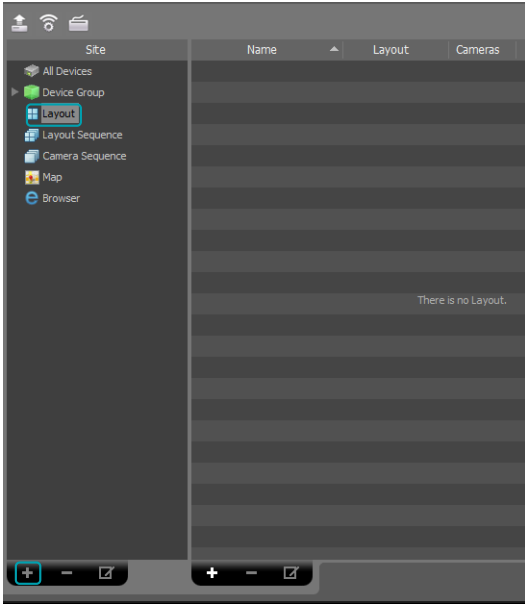
Saves current screen layout and device connection status as a user layout. Click the  (Save to User Layout) button on the panel toolbar of the Wall Control tab to create user layout information.



- **Name:** Enter a name for user screen format.
- **Sharing:** Select user range for the chosen screen format.
 - Public: Displayed to all users.
 - Group: Displayed to the users in the owner group.
 - Private: Displayed to the owner only.
- **Group:** Select the layout group containing the user layout.
- **Description:** Enter the description for the user layout.

Registering a Layout Group

- 1 Select **Settings** in **System** menu and select the **Device** menu.
- 2 On the **Site** panel, click on **Layout**, then click on the **+** button at the bottom of the Site panel on the left. An **Add Layout Group** window will appear on the screen.



Add Layout Group

Name:

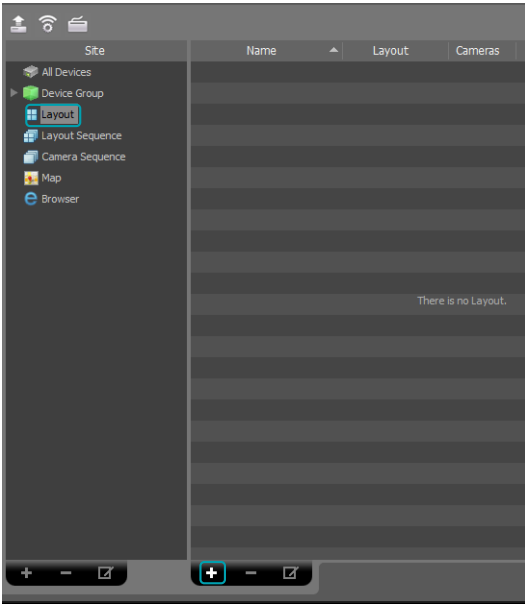
Description:

OK Cancel

- **Name:** Enter a name for the layout group.
- **Description:** Enter the description for the layout group.

Registering a layout

- 1 Select **Settings** in **System** menu and select the **Device** menu.
- 2 On the **Site** panel, click on **Layout**, then click on the **+** button at the bottom of the Sites List panel on the right. An **Add Layout** window will appear on the screen.



Add Layout

Name: Description:

Sharing: Owner:

Screen Format:

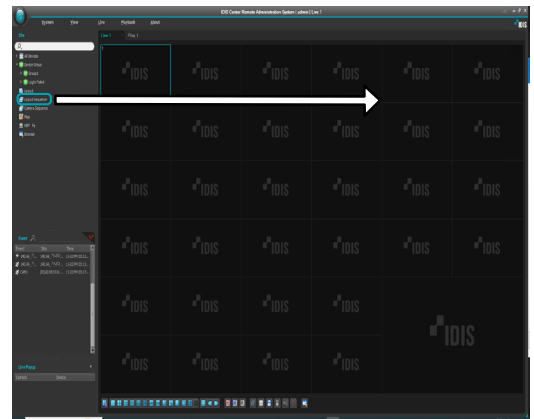
OK Cancel

- **Name:** Enter a name for the layout.
- **Sharing:** Specify the users who can see the layout being registered. The **admin** user can see all layouts.
 - **Public:** Shows the layout to all users.
 - **Group:** Shows the layout to a specific group of users. You can select the group from the **Owner** list.
 - **Private:** Shows the layout to the individual users selected from the **Owner** list.
- **Owner:** Allows you to show a different layout to different users.
- **Site:** Shows the registered devices, cameras, camera sequences and map list. A registered device or camera sequence can be searched by entering a query in  field.
- **Screen Format:** Select the layout. In **Site** list, select the device, camera, or camera sequence you wish to allocate and drag & drop them to the desired position in the layout screen using your mouse.
-  (Delete) : By selecting a specific screen in the layout and pressing the delete button, you can delete the camera allocated to the selected screen from the layout.
-  (Hotspot) : By selecting a specific screen in the layout and pressing the hotspot button, you can set the selected screen as a hotspot.
-  (Event Spot) : By selecting a specific screen in the layout and pressing the event spot button, you can set the selected screen as an event spot.
-  (Map Event Spot) : By selecting a specific screen in the layout and pressing the map event spot button, you can set the selected screen as a map event spot screen.
-  (Camera Sequence): By selecting a specific screen in the layout and pressing the camera sequence button, you can create a new camera sequence. The new camera sequence is allocated to the selected screen.

Layout Sequence

Videos from multiple cameras can be monitored sequentially using two or more predefined layouts. A layout sequence must be registered to use layout sequence function.

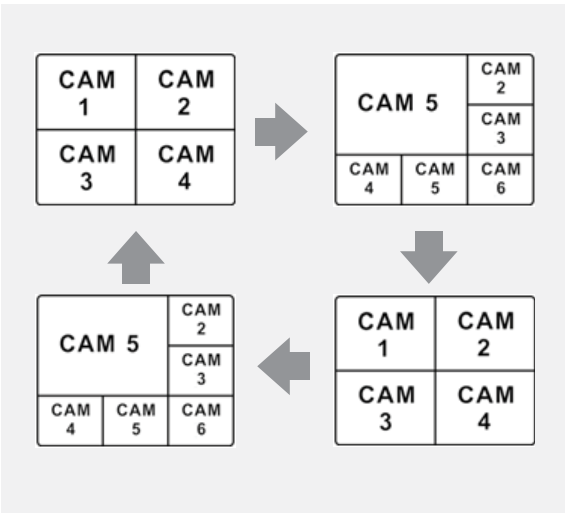
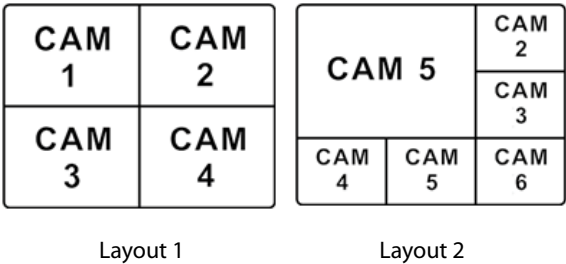
- 1 In the layout sequence list, select a layout sequence you wish to use. Then, drag & drop the selected layout sequence on the live screen using your mouse. The camera videos added to the layout sequence will be displayed sequentially in each layout.



- 3 Click **OK** to finish adding a layout.

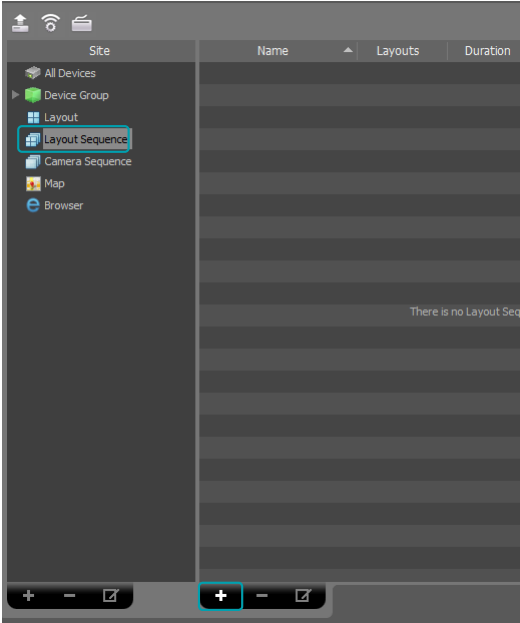
2 You can stop or resume a layout sequence by clicking  in the toolbar at the bottom of the panel.

Example of layout sequence

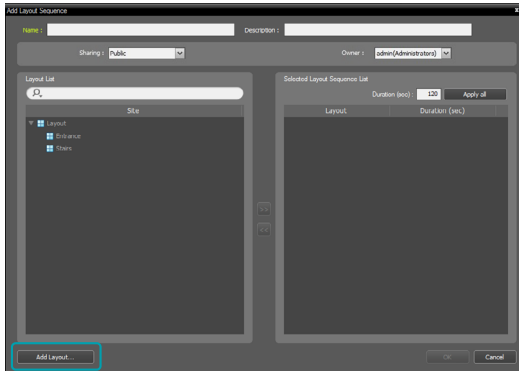


Registering layout sequence

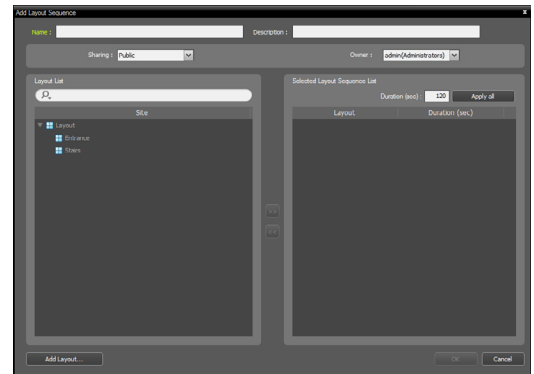
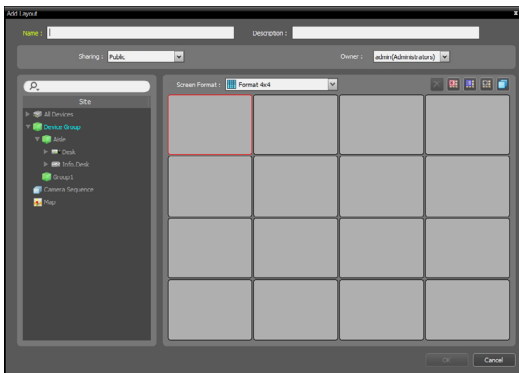
- 1 Select **Settings** in **System** menu and select the **Device** menu.
- 2 On the **Site** panel, click on **Layout Sequence**, then click on the **+** button at the bottom of the Site List panel on the right. An **Add Layout Sequence** window will appear on the screen.



- 3 If a layout for sequential monitoring is not registered, click **Add Layout**.



- 4 Click **Add Layout** and register layouts for sequential monitoring. Two or more layouts must be registered to use layout sequence.



- **Name:** Enter a name for the layout sequence.
- **Sharing:** Specify the users who can see the layout sequence being registered. The **admin** user can see all layout sequences.
 - **Public:** Shows the layout sequence to all users.
 - **Group:** Shows the layout sequence to a specific group of users. You can select the group from the **Owner** list.
 - **Private:** Shows the layout sequence to the individual users selected from the **Owner** list.
- **Owner:** Allows you to show a different layout sequence to different users.
- **Layout List:** Shows a list of registered layouts. Registered layouts can be searched by typing search query in the field.
- **Selected Layout Sequence List:** Shows a list of layouts registered for layout sequence.
- **Duration (sec):** Shows the display duration for each layout. Double clicking the number will allow you to change the duration time for this specific layout. The set duration can be applied to all layouts by clicking **Apply all**.

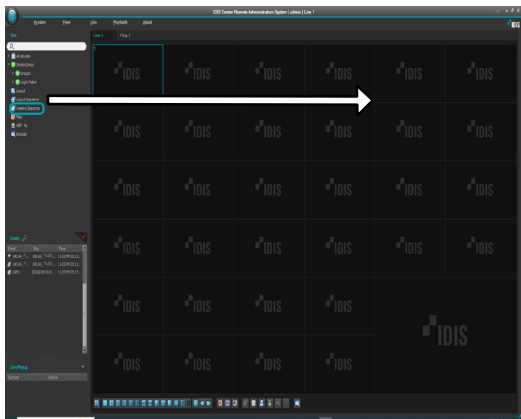
- 5 Select a layout from the **Layout List** and click to add the selected layout to **Selected Layout Sequence List**.

- 6 Click **OK** to finish adding a layout sequence.

Camera Sequence

Videos from multiple cameras can be monitored sequentially on the same camera screen. A camera sequence must be registered to use camera sequence function.

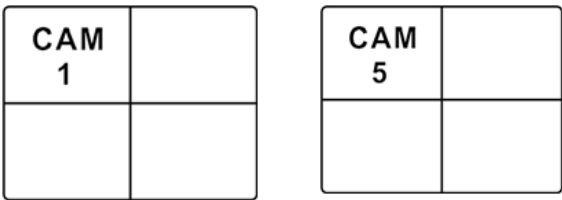
- 1 In the camera sequence list, select a camera sequence you wish to use. Then, drag & drop the selected camera sequence on the live screen using your mouse. The video from cameras added to the camera sequence will be displayed on the screen sequentially.



- 2 You can stop or resume a camera sequence by clicking  in the control toolbar at the bottom of the camera screen.

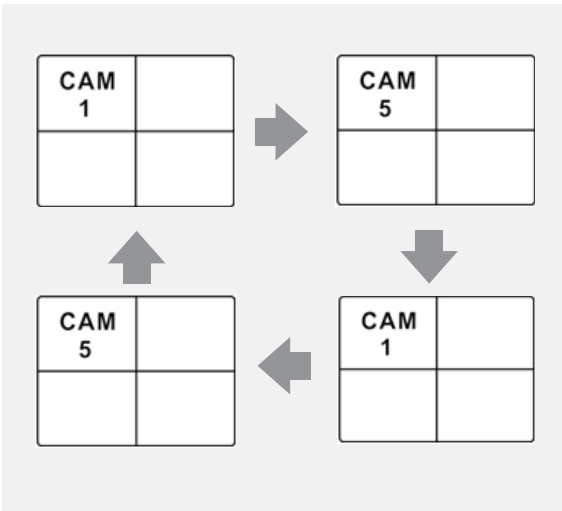


Example of camera sequence



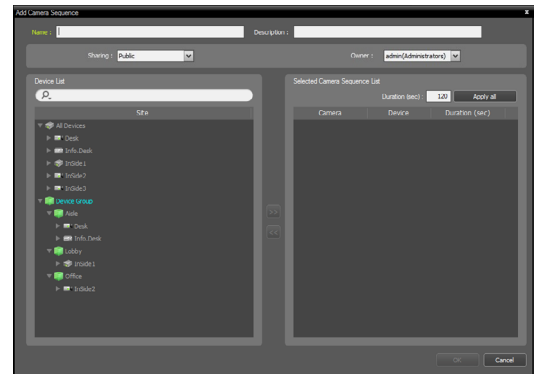
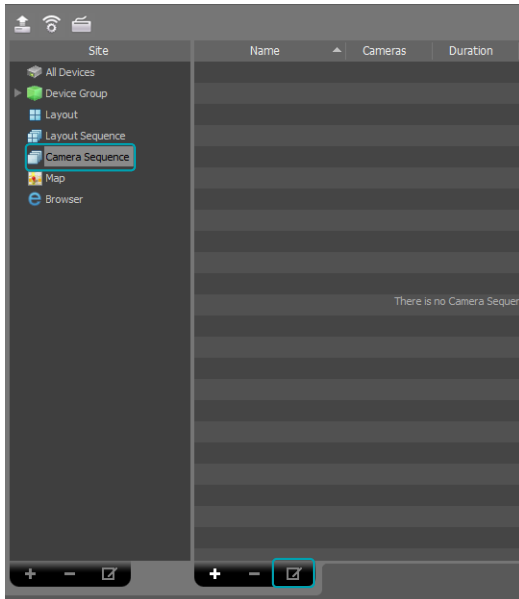
Camera 1

Camera 5



Registering a camera sequence

- 1 Select **Settings** in **System** menu and select the **Device** menu.
- 2 On the **Site** panel, click on **Camera Sequence**, then click on the **+** button at the bottom of the Sites List panel on the right. An **Add Camera Sequence** window will appear on the screen.



- **Name:** Enter a name for the camera sequence.
- **Sharing:** Specify the users who can see the camera sequence being registered. The **admin** user can see all camera sequences.
 - **Public:** Shows the camera sequence to all users.
 - **Group:** Shows the camera sequence to a specific group of users. You can select the group from the **Owner** list.
 - **Private:** Shows the camera sequence to the individual users selected from the Owner list.
- **Owner:** Allows you to show a different camera sequence to different users.
- **Device list:** Shows a list of registered devices. Registered devices can be searched by typing search query in the **Q** field.
- **Selected Camera Sequence List:** Shows a list of camera registered for camera sequence.
- **Duration (sec):** Shows the duration in which video from each camera is displayed on the screen. Double clicking the number will allow you to change the duration time for this specific camera. The set duration can be applied to all cameras by clicking **Apply all**.

Select a camera from the device list and click **>>** to add the selected camera to **Selected Camera Sequence List**.

- 3 Click **OK** to finish adding a camera sequence.

Map Monitoring

The camera videos of registered devices, events, and status of connection I/O devices can be monitored on a map.

For more details on map registration, refer to [Map Editor on page 115](#).

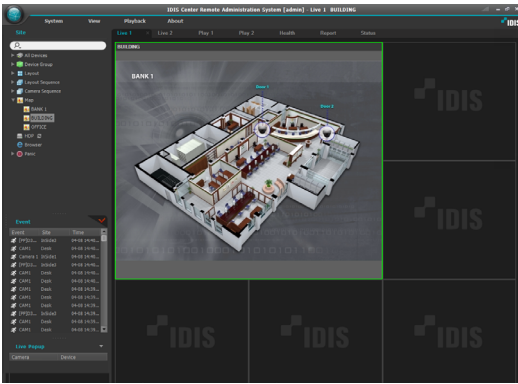
- ✓ A map must be regmaistered to use map monitoring.
- Map monitoring supports up to 4 **Live** panels and **Map** panels.
- If a Live tab or Map tab doesn't exist in the panel tabs, you can add them by selecting **New Tab** in the **System** menu and clicking **Live** or **Map**.

1 In the **Map** list, select a map you wish to to use. Then, drag & drop the selected layout on the live screen using your mouse.



2 The selected map will be displayed on the screen.

- ✓ You can select and move a map to a desired position on the Live screen without disconnecting by selecting the map being monitored and moving it using drag & drop with your mouse.
- Select **I/O Device** from the map and drag & drop the subject device to the **Live screen**, **Play panel** or **Device Status Panel** to view live or recorded videos from the subject device, or monitor the device's status.



Place the mouse cursor over the I/O device on the map to view the event detection and status of the I/O device. If an event has been detected on the I/O device or if the device is not operating properly, it will be indicated by the following icons.

	Disconnected		Not configured
	Abnormal operations		Motion detected
	Video blind		Video loss
	Museum search		Video-analytic detection
	Trip zone		Tampering
	Alarm-in		Alarm-out

- ✓ Up to 4 icons may be displayed at once.
- Certain event icons may not be supported depending on device's specifications and version.
- Event Detection** icons will be displayed depending on the event detection settings of the device in which I/O device is connected to.
- Abnormal Operation** icons will be displayed depending on the system check settings of the device in which I/O device is connected to.
- If a status color was set when registering the map, events and statuses will be displayed by the corresponding colors.
- When two or more events or status changes occur simultaneously, the colors that correspond to each event or status will be displayed one after the other.

Path sequence

When using Map monitoring, videos from multiple cameras registered to the map can be monitored sequentially on the same camera screen. A sequence route must be registered to use route sequence. For more information, refer to the **Path Sequence on page 118**.

- 1 On the map, select a sequence route you wish to use. Then, drag & drop the selected sequence route on the live screen using your mouse.
- 2 Videos from cameras in the route sequence will be displayed sequentially on the screen for the set duration.

Camera Control

Controls the camera using the control toolbar and screen menus.

Control toolbar

Select a camera screen and place the cursor over the camera screen to bring up control toolbar. The control toolbar can be used to control the selected camera. Place the cursor over each button to view tooltips for the button. If the control toolbar is downsized, you can move the toolbar left or right by scrolling the mouse wheel.



- (PTZ Control): If the camera supports PTZ control, the camera's PTZ can be controlled.
- (Remote Control): Directly remote controls the HDMI encoder image using a keyboard or mouse.
- (Fisheye Dewarping): Dewarp the fisheye camera image.
- (Self-adjusting Video Mode): Allows you to self-adjust the video mode.
- (Color Control) : Adjust the brightness, contrast, saturation and color of the current video. Click to reset all changes and restore the image to original settings.



This setting can be applied to the videos in IDIS Center program as well as videos of devices.

- (Image Effect): Applies image effects.
- (Zoom): Zooms the video.
- (Camera Sequence): Starts or stops layout sequence.
- (Listen / Talk): Receives audio from the device or sends audio to the device (Not all devices support audio).

-  /  (Alarm-Out On/Off): Turns on or off the alarm-out connected to camera devices. Alarm-out connected devices can be configured in each camera's **Edit Device** setting.
-  (Text-in Viewer): Brings up text-in viewer window. Turns the title bar of a camera to blue when a text-in event is detected.

☒ Only supported when text-in event is detected.

-  (Instant Playback): Activates the Instant Playback for the section with the recording information.
-  (Panic Recording): Starts or stops panic recording. When panic recording is in progress, a panic recording icon will be displayed on the upper right corner of the camera screen.
-  (Google Maps): This feature is only supported with vehicular DVRs/NVRs.
-  (Speed Graph): This feature is only supported with vehicular DVRs/NVRs.
-  (Vehicle Info): This feature is only supported with vehicular DVRs/NVRs.

Live Screen Menu

Select a camera screen and right-click to bring up the screen menu. The screen menu can be used to control the selected camera.

Fisheye Dewarping	▶
Instant Playback	▶
Playback History	▶
Play 1 Minute Before	1
Misc.	▶
Play Recorded Data	
Color Control	
Image Zoom	▶
Image Processing	▶
Alarm-Out	▶
Listen	L
Talk	
NVR Listen	
NVR Talk	
Audio Broadcast	
MultiStream	▶
Hotspot	
Event Spot	
Map Event Spot	
VA Overlay	▶
Aspect Ratio	▶
Still Image	▶
Browser	
Stream Information	Tab
Device Information	▶
Remove	▶

- **Fisheye Dewarping:** Dewarp the fisheye camera image.
- **Instant Playback:** Activates the Instant Playback for the section with the recording information.
- **Playback History:** Saves 8 instant playback history in maximum for each camera device and plays the history.
- **Play 30 Seconds/180 Seconds Before:** Activates the Instant Playback of images from 30/180 seconds before.
- **Misc.:** Sets the Instant Playback options.

- **Play Recorded Data:** Displays the recorded image of the selected screen on the play tab.
- **PTZ Control, Self-adjusting Video Mode, Color Control, Image Zoom, Listen, Talk, Panic Recording:** Functions identically to the corresponding buttons in control toolbar.
- **Camera Sequence Monitoring:** Allows you to move, start, stop, pause and exit the camera sequence monitoring (supported only for sequence monitoring).
- **Image Processing:** Applies image effects.
- **Alarm Out:** Activates or deactivates alarm output.
- **Text-In Viewer:** Brings up text-in viewer window. Turns the title bar of a camera to blue when a text-in event is detected.



Only supports when text-in event is detected.

- **NVR Listen/Talk:** Receives audio from the NVR device or sends audio to the NVR device.
- **Audio File List:** Controls(play/stop) audio file included in the device (only available for devices which support audio alarm file).
- **Audio Broadcast:** Broadcast audio to all devices in the current Live tab.
- **MultiStream:** Desired stream can be selected if multi-stream mode is enabled for the live video of the device.
- **Hotspot:** Set the selected camera screen as hotspot screen.
- **Event Spot:** Set the selected camera screen as event spot screen.
- **Map Event Spot:** Sets the selected screen as map event spot screen.
- **VA Overlay:** Displays video analysis data over the monitoring video.
- **Draw Motion Block:** If a motion detection event occurs on the selected camera, the part of the screen where motion is detected is displayed as a red block.



Only supports network video servers.

- **Original Ratio:** Resizes camera screen to original aspect ratio of the video.
- **Half Size (x0.5) - 4 Times Bigger (x4):** Displays the camera videos in the selected size based on the original size of the video.



The menu is activated only when there is sufficient space to display the camera video in the selected size.



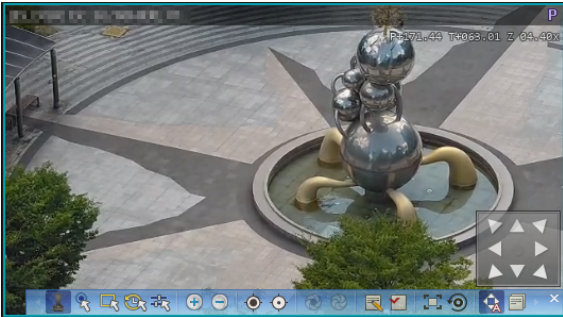
Up, down, left, and right part of the video may be cropped depending on size of camera screen. When using Zoom, Hotspot, Event Spot, Show Motion Block features, aspect ratio of camera screen does not apply and original ratio is applied.

- **Still Image:** Saves the current frame of the video on the screen as an image file in actual size.
- **Browser:** Sets the selected screen as the browser screen.
- **Stream Information:** Shows the stream information of the selected camera.
- **Device Information:** Shows the device information of the selected camera in sub-items.
- **Remove:** Terminates current connection.

- **Aspect Ratio:** Sets the aspect ratio of video output.
 - **Fit to Screen:** Resizes video to camera screen regardless of original aspect ratio.
 - **Fit to Screen(Aspect ratio):** Resizes video to camera screen while maintaining original aspect ratio.

PTZ Control

Click on  (PTZ Control) button in the control toolbar to bring up PTZ control toolbar. The buttons on the PTZ toolbar can be used to control PTZ. Some features may not be supported depending on the PTZ camera model.



-  (Directional control): Shows or hides  (Directional control panel). Click on the arrow keys in the Directional Control Panel or drag the camera screen to control the directional movement of PTZ camera.
-  (Slingshot): Controls Pan-Tilt to move the user's point to the center of the screen.

☒ Only certain network camera models are supported.

-  (Area Zoom): Specifying a certain area on the image to zoom in the selected area. Dragging the mouse specifies the area, and the magnification is displayed on the drag area. Refer to **PTZ Area Zoom / Area Zoom History on page 65** for details.
-  (Area Zoom History): Displays the area zoom history. Refer to **PTZ Area Zoom / Area Zoom History on page 65** for details.
-  (PTZ Manual Control): Allows camera control by manually entering pan, tilt, zoom and focus values.
-  (Zoom in/out): Zoom in and out of current video.
-  (Focus far/near): Adjust camera focus to far or near.
-  (Open/close aperture) Open or close aperture of camera lens.
-   (Set Preset/ View Preset): Set or view presets.
-  (Auto-focus): When the camera loses the focus after zooming in or out, click the auto-focus button to adjust autofocus.

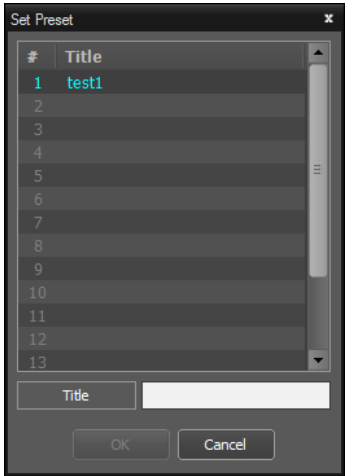
☒ Only certain network camera models are supported.

-  (Focus/Lens/PTZ reset): Initializes the focus/lens/PTZ settings according to the camera type.
-  (Autorun on/off): Moves the camera to the preset position at regular intervals.
-  (Advanced menu): Controls the advanced features supported by the camera. For more details on advanced features, refer to the PTZ camera's operation manual.
-  (Close): Closes PTZ mode and returns to control toolbar.

PTZ Preset Control

Sets the current camera position as a **Preset** to quickly move the camera to the preset position.

- On the camera screen, move the PTZ camera to the desired direction.
- Click  (Set Preset) on the PTZ toolbar to bring up **Set Preset** window. Enter a name for the preset and click **OK** to save the current position as the name just entered.

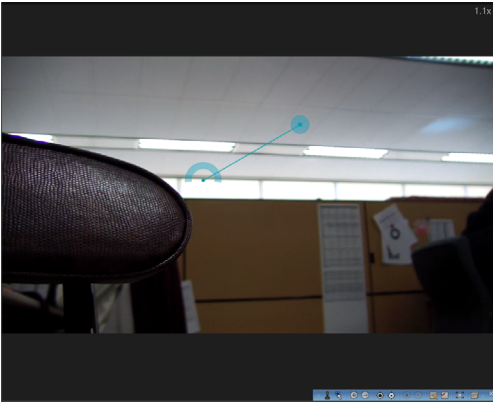


- 3 Click ☒ (View Preset) on the PTZ toolbar to bring up **View Preset** window. Select the desired preset to move the PTZ camera to the preset position.



ePTZ Control

Controls Pan, Tilt, and Zoom function more accurately.

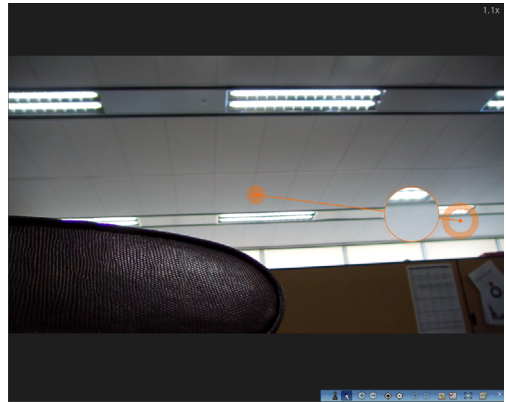


Control Pan, Tilt, and Zoom function. Dragging the mouse, the size of dragging indicates the speed of PTZ.

- Left button drag: Left/Right (Pan control), Up/Down (Tilt control)
- Right button drag: Zoom control

Slingshot

Controls Pan-Tilt to move the user's point to the center of the screen.



Press  (Slingshot) in the control toolbar and click any point of PTZ camera pane to move anywhere you want. Dragging the mouse zooms the selected part of the screen.

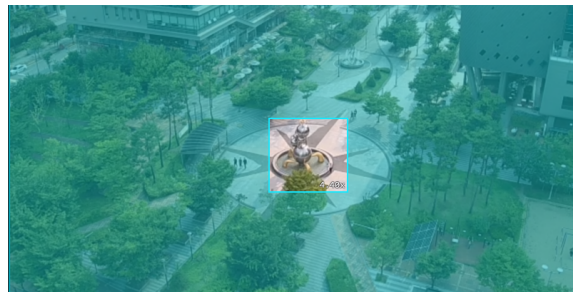
PTZ Area Zoom / Area Zoom History

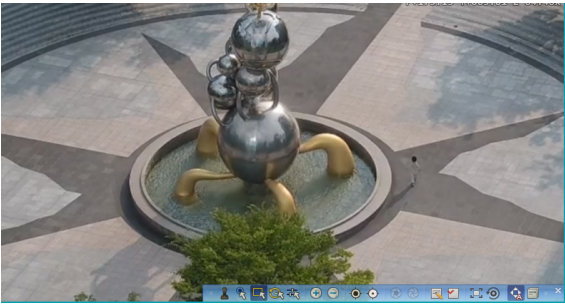
Drag the mouse over the image to draw the specific area to zoom in. The area zoom history is displayed in thumbnail formats.



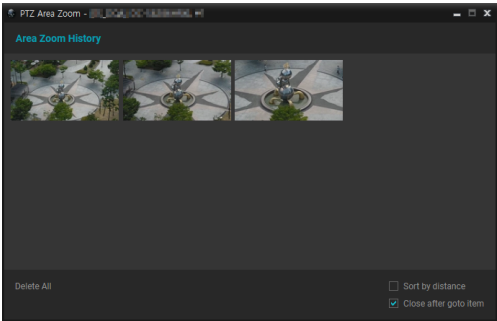
This feature is only supported with some models of camera.

Click the  (Area Zoom) button on the control toolbar, and drag the mouse over the image to zoom in the selected area.





Clicking the  (Area Zoom History) button displays previous area zoom history in a thumbnail list as the following image. Click a thumbnail to locate the camera to the selected position.

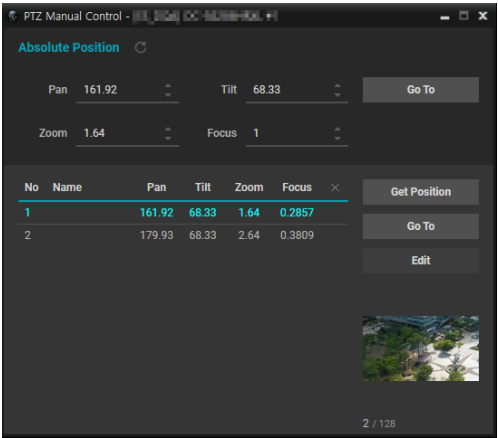


Hovering the mouse over each item displays the zoom magnification value on the thumbnail.

- **Sort by distance:** Sorts the items in an ascending order by zoom magnification value. Disable to sort by latest.
- **Close after goto item:** Closes the area zoom history window after item selection and camera relocation.
- **Delete All:** Deletes all of items.

PTZ Manual Control

Click the  (PTZ Manual Control) button on the control toolbar displays the following window. The user can manually enter pan, tilt, zoom, focus values to control the camera. Each specific position can be saved in the list and selected to move the camera position.

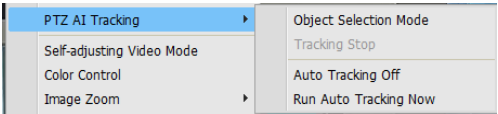


Absolute Position

-  (Refresh): Displays the camera's current pan, tilt, zoom and focus values.
- **Go To:** Moves the camera to the position of entered pan, tilt, zoom and focus values.
- **Get Position:** Adds the camera's current pan, tilt, zoom, focus values as one fixed position to the list.
- **Go To:** Moves the camera to the selected position from the list.
- **Edit:** Edits the name or each pan, tilt, zoom, focus value of the selected position from the list.

PTZ AI Tracking

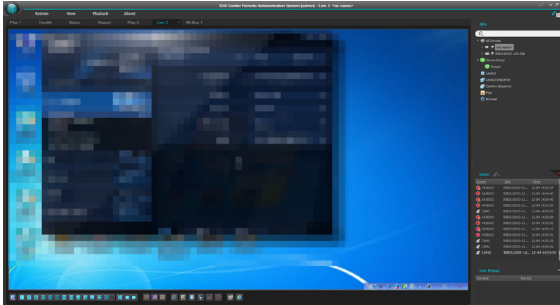
Select PTZ AI Tracking and configure PTZ AI Tracking settings. With PTZ AI Tracking event enabled, an event occurs and tracks the moving object(or designated object) when motion is detected in the video.



- **Object Selection Mode:** Selects to track objects of supported types by specifying them.
- **Tracking Stop:** Stops tracking the selected object in **Object Selection Mode**.
- **Auto Tracking On/Off:** If movement is detected in the video, the moving object is tracked.
- **Run Auto Tracking Now:** Turns on **Auto Tracking** and starts tracking immediately.

Remote Control

For the live image with the  icon on the OSD, press  (Remote Control) in the control toolbar to bring up the Remote Control toolbar, and to check the status through the OSD and use the control buttons.



-  (Input Device Status): Displays the input device in action.
-  (Disable Remote Control): Disables the remote control.
-  (Initialize Mouse Cursor Position): Move the mouse cursor to the top left position.

Fisheye Dewarping

Press  (Fisheye Dewarping) in the control toolbar to bring up the fisheye dewarping toolbar. The buttons on the fisheye dewarp toolbar can be used to dewarp fisheye image.



The mount type set in the device is a default.



-  (Mount Type): Choose a position that the camera is mounted. The available Screen Type changes depending on this setting.
-  (Image Ratio): Select the proper image aspect ratio.
-  (Layout): Select the layout, Main View and Main + 1~7 panes mode.
-  (Panoramic): Select the panoramic mode.
-  (Selection Mode): Drag and drop the area in the main view screen.
-  (Spot Mode): Move and select the area with the dewarp finder in the main view screen.
-  (Drag and Drop): Move and copy the main view and camera pane.
-  (Main PIP): Shows or hides PIP screen.
 -  PIP stands for Picture in Picture, and it refers to the small screen displayed within the bigger screen.
-  (ePTZ): Control Pan, Tilt, and Zoom function. Dragging the mouse, the size of dragging indicates the speed of PTZ.
 - **Left button drag:** Left/Right (Pan control), Up/Down (Tilt control)
 - **Right button drag:** Zoom control
-  (Auto Pan): Set to pan the camera automatically. +,- for direction and numbers for speed.
-  (Load/Save Preset): Load the saved preset of fisheye video control and save the current fisheye video control as preset.
-  (Display Source Image): Cancel all changes and restore image to original.

Smart UX Quick Control

Combine the keyboard and mouse in the video, and you can quickly control video enlargement, dewarping, and PTZ without changing the mode of a specific function.

• Quick Zoom

- Ctrl + Mouse left button drag (Original Image): Zoom in the area selected by the mouse drag.
- Ctrl + Mouse left button drag: Moves the zoomed in image to the position where the mouse drag moves.
- Ctrl + Mouse wheel click: Exits the zoom image view and returns to the original image.
- Ctrl + Mouse wheel scroll: Zoom control

• Quick Dewarping

- Ctrl + Mouse left button drag (Original Image): Dewarps the area selected by the mouse drag.
- Ctrl + Mouse left button drag: Pan/Tilt control in the mouse drag directions.
- Ctrl + Mouse wheel click: Exits the dewarping image and returns to the original image.
- Ctrl + Mouse wheel scroll: Zoom control
- Ctrl + Mouse right button drag: Zoom control

• Quick PTZ

- Ctrl + Mouse left button drag: Pan/Tilt control in the mouse drag directions.
- Ctrl + Mouse wheel scroll: Zoom control
- Ctrl + Mouse right button drag: Zoom control
- Ctrl + Shift + Mouse left click/drag: Move the image to the position where you click becomes the center, or move the image following the mouse drag.

• Instant Playback

- After selecting a pane, click I: Easy Play.
- After selecting a pane, Page Up/Down: Moves to the previous/next playback section.
- Wheel scroll on the or during the instant playback: Jog play is performed according to the direction of wheel scroll input.
- (Ctrl +) J: Decrease the playback speed.
- (Ctrl +) K: Reset the playback speed.
- (Ctrl +) L: Increase the playback speed.
- (Ctrl +) .: Executes high-speed reverse playback.
- (Ctrl +) ,: Executes high-speed playback.

Recorded video playback control

By combining the keyboard and mouse in the recorded video, you can quickly control the playback of the recorded video without switching the mode of a specific function.

• Mouse

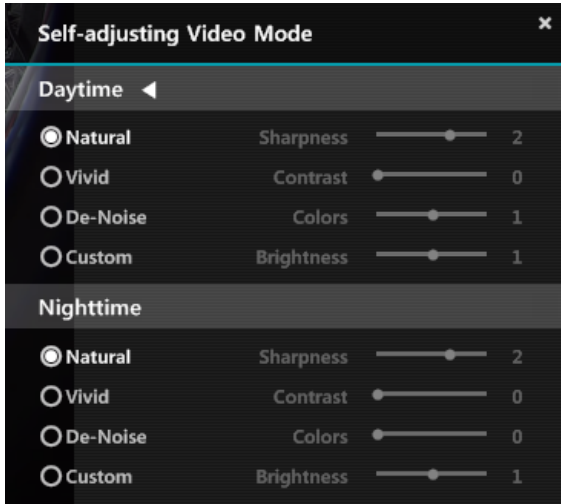
- It moves to the previous/next video by the specified time interval when wheel scroll is input in the previous/next frame widget.
- The jog function works when wheel scroll is input from the play button.
- Playback is controlled in the shuttle lock state when wheel scroll is input in the shuttle widget.
- Playback stops when you click the right mouse button on the shuttle widget.
- The shuttle lock is released and playback stops when you click the middle mouse button on the shuttle widget.
- The recording section moves left/right when pressing Shift + wheel scroll in the timetable widget.
- The recording section is enlarged/reduced when pressing Ctrl + wheel scroll in the timetable widget.

• Hotkey

- Ctrl + Space: Controls play/stop.
- Ctrl + Shift + Space: Controls play/stop of all cameras included in the tab.
- Ctrl + T: The time shift panel pops up.
- Ctrl + Home: Moves to the beginning of the video.
- Ctrl + End: Moves to the end of the video.
- Ctrl + J: Decrease the playback speed.
- Ctrl + K: Reset the playback speed.
- Ctrl + L: Increase the playback speed.
- Ctrl + ,: Executes high-speed playback.
- Ctrl + .: Executes high-speed reverse playback.
- Ctrl + left/right keyboard button: Moves to the previous/next frame.
- Shift + left/right keyboard button: Moves to the previous/next video in 1 minute increments.
- Alt + left/right keyboard button: Moves to the previous/next video in 10-minute increments.

Self-adjusting Video Mode

Press  (Self-adjusting Video Mode) in the control toolbar to set or preset the video mode for each daytime/nighttime.

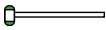


- The preset includes Natural, Vivid and De-Noise.
- The Custom allows setup for each value. The values include Sharpness, Contrast, Colors and Brightness.
- When this feature is activated, the setup window is overlaid, and the image is displayed in the 1x1 format.

Zoom In

Press  (Zoom in) in the control toolbar to zoom in on the current video.



-  (Slider): Adjust magnification. Magnification can also be adjusted using the mouse scroll wheel.
-  (Actual Size Zoom): Enters Actual Size Zoom mode. In Actual Size Zoom mode, the video is zoomed in based on actual size of the video regardless of the size of camera screen or magnification.
-  (Zoom Finder): Shows or hides PIP screen. The square of PIP screen displays the zoomed area.

☒ PIP stands for Picture in Picture, and it refers to the small screen displayed within the bigger screen.

Image effect

Click on  (Image effect) on the control toolbar to bring up image effect control toolbar.



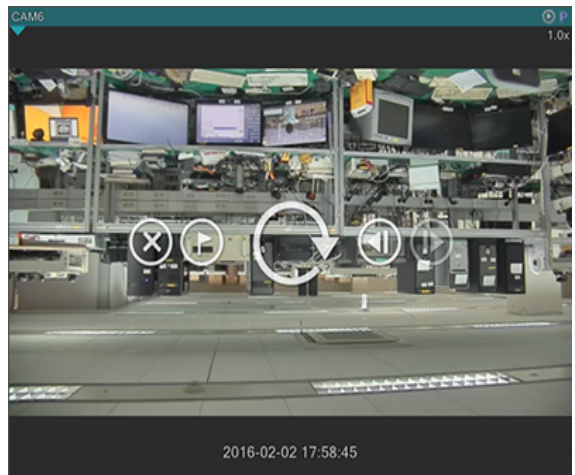
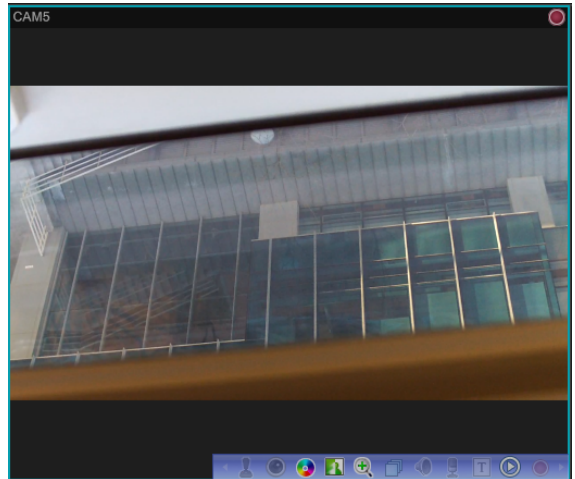
-  (Blur): Softens the image.
-  (Sharpen): Sharpens the image.
-  (High-Boost): Enhance image clarity by increasing brightness and sharpness.
-  (Histogram Equalization) : Makes image more natural by adjusting brightness.
-  (Edge Detection): Detect outline in the image.
-  (Revert): Cancel all changes and restore image to original.



These settings are only applicable to images of IDIS Center program and do not apply to images of devices.

Instant Playback

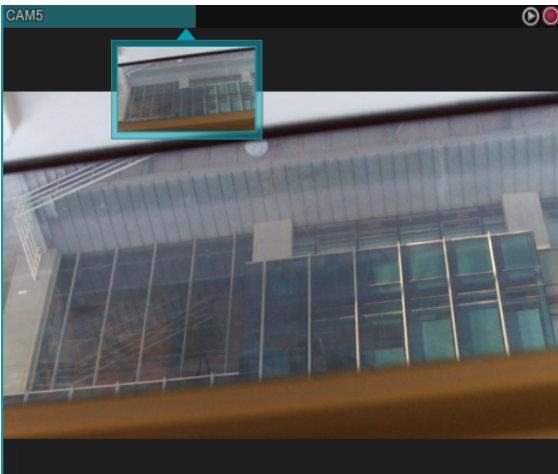
Press Instant  (Instant Playback) on the control toolbar and select a playback time on the popup menu to activate Instant Playback for the section with the recording information.



Hovering the mouse cursor over the screen allows you to use Exit, Bookmark, Play, and Forward/Backward buttons.

Using the left/right arrow buttons and PageUp/ PageDown buttons allows moving the playback point. Select reverse playback and slow playback from the context menu of the image.

- Hotkey (**Ctrl + Hotkey** can also be used.)
 - J / K / L : Decrease / reset / increase the playback speed.
 - .: Executes high-speed playback.
 - .: Executes high-speed reverse playback.

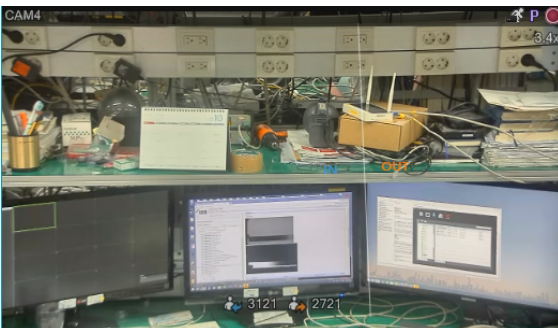


The status of playback appears on the camera title bar. Clicking the inverted triangle image beneath the camera title bar displays a thumbnail image. When the thumbnail image is enabled, hovering the mouse cursor on the camera title bar displays the image of the corresponding site. Clicking a specific point on the camera title bar moves to the corresponding site.

Video Analytics

Select a monitoring video and click the right mouse button to see the display menu. Select **VA Overlay** from the display menu to activate the menu according to the current video analysis type.

People Counting



Selecting **People Counting** displays real-time In/Out and occupancy information over the selected video. Select **Count Adjust** to change the In/Out information displayed over the image. If the occupancy exceeds the set limit, check the limit occupancy event.

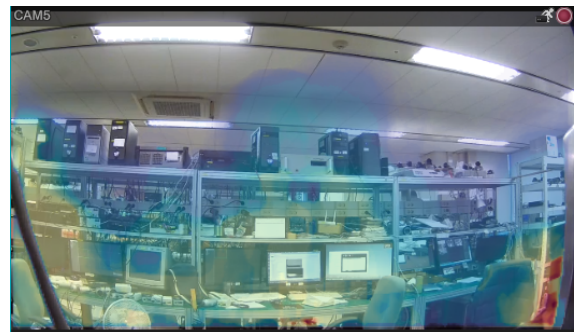
Queue Management



Selecting **Queue Management** displays queue information (the number of people, waiting time) for each area over the selected video.

In the case of **Queue Management**, checking Exceed People Limit and Exceed Time Limit events is available.

Heat Map



Selecting a **Heat Map** live icon displays a heat map image over the selected video.

Select options of Heat Map live to change a heat map image setting (image spectrum color, transparency, image interpolation option).

Queue monitoring / swarm detection / social distance violation / mask rule violation



Selecting **queue monitoring / swarm detection / social distance violation / mask rule violation** displays the set image analysis area.

Up to 5 areas are displayed for queue monitoring.

If the set limit is exceeded, an event is raised and the area of the offending object is highlighted.

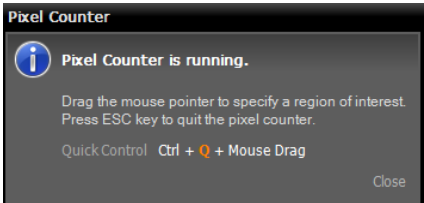
Pixel Counter

Displays the pixel information in the selected area in the image. The number of pixels of the object's size as the distance can be calculated with the constant-sized object.

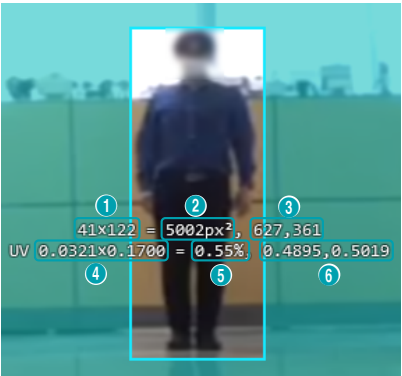
It provides quantitative information about object recognition by specifying the area of a specific type of object and measuring the density of the pixel (number of pixels per unit length). Go to **View > Pixel Counter**.



- ☒ It is displayed a notification pop-up as shown below running the pixel counter. It provides how to use the pixel counter and quick control shortcuts.



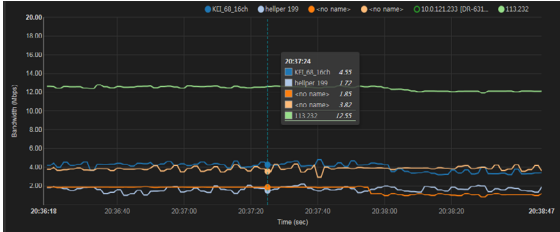
- ☒ The information provided by the pixel counter is shown below.



- Width and height pixels
 - Total pixels within the area
 - The pixel coordinates of the upper left corner of the area
 - Area width and height ratio to pane (UV coordinates)
 - Pane-to-area width ratio
 - UV coordinates of the upper left of the area
- ☒ UV coordinates represent the minimum coordinate as 0 and the maximum coordinate as 1. The upper left is represented by (0, 0), and the lower right is represented by (1, 1).

Live Network Monitor

Selecting **Live Network Monitor** from the menu displays real-time bandwidth (network traffic) for each device. 16 devices are supported in maximum, and select a legend to check the specific device only.



Text-In Viewer

Shows text-in data live.

Click  (Text-In Viewer) in the Control Toolbar to bring up **Text-In Viewer** window.

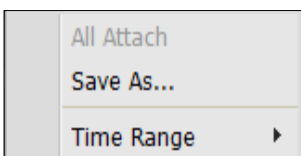
Turns the title bar of a camera to blue when a text-in event is detected.

CAM1 Text-In Viewer

CAM1

Mint Gum		0,75		9 (s)		6,75
Candy		0,25		5 (s)		1,25
Fanta		2,20		6 (s)		13,20
Sprite		2,00		2 (s)		4,00
total :						27,90
Thank you--						
Item	Unit price	Qty	amount			
Hotdog		3,50		6 (s)		21,00
Hamburger		4,25		9 (s)		38,25
Chocolate		1,75		4 (s)		7,00
Mint Gum		0,75		2 (s)		1,50
Sprite		2,00		7 (s)		14,00
Chocolate		1,75		4 (s)		7,00
Pepsi		1,95		5 (s)		9,75
total :						98,50
Thank you--						

Click on the title bar of the **Text-In Viewer** window to bring up text-in popup menu.



- **All Attach:** Gathers Text-in Viewer windows into one panel.
- **Save As...:** Saves text-in data as a text file(.txt).

- **Time Range:** Set the duration in which text-in data is displayed when text-in event is detected. Text-in data can be checked in the text-in viewer window during the set duration after text-in event has occurred.



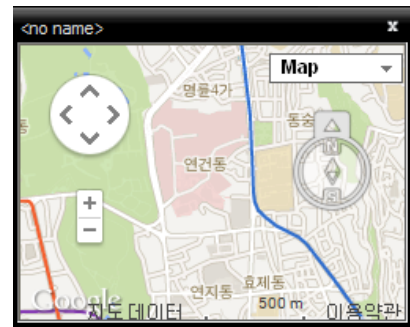
Only supported when text-in event is detected.

Google Maps

Click  (Google Maps) on the Control Toolbar to load the Google Maps panel as a popup.



This feature is only supported with vehicular DVRs/ NVRs.



If the video contains GPS info, the vehicle's location (📍) and direction of travel (➡) are shown on the map. "Map" and "Satellite" (Terrain On/Off) are Google Maps' display modes.

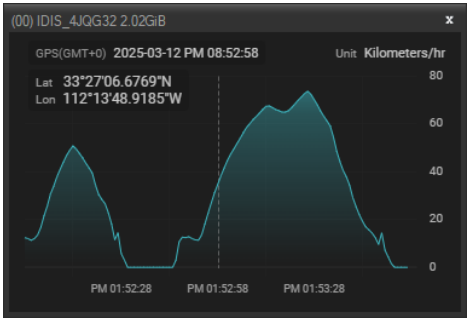


When checking the vehicle's location and direction of travel, the vehicle's speed is shown on the Speed Graph panel.

Speed Graph

Click  (Speed Graph) on the Control Toolbar to load the Speed Graph panel as a popup.

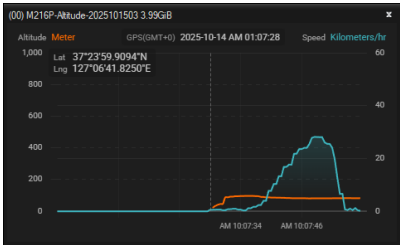
☒ This feature is only supported with vehicular DVRs/ NVRs.



If the video contains GPS data, the vehicle's speed is shown on the Speed Graph. The speed is shown in the middle of the graph. The red, vertical line in the middle indicates the vehicle's current location.

Right-click on the Speed Graph panel to configure graph type, graph unit, GPS info display, and HD output settings.

Click on the Speed Graph panel to see the recorded images of the location on the screen. ("HDP" site only)



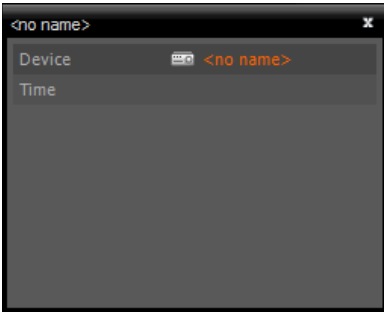
If the GPS data of the video includes altitude information, an orange line will be added to indicate the altitude values.

☒ When checking the vehicle's speed, the vehicle's location and direction of travel are shown on the Google Maps panel.

Vehicle Info

Click  (Vehicle Info) on the Control Toolbar to load the Vehicle Info panel as a popup.

☒ This feature is only supported with vehicular DVRs/ NVRs.



Vehicle information is shown if contained in the video file.

Live Zoom Pop-up

This feature displays the region of interest (ROI) of the video in a separate pop-up.

Select the **Live Zoom Pop-up** from the **Live** menu or press **F9** to start.

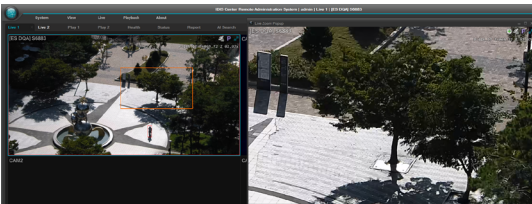
It interacts with the selected pane. When the pop-up is closed or a different camera pane is selected, the previous camera pane's status is saved and restored when the pop-up is reassigned.

It supports zoom-in and zoom-out functions.

It also supports fisheye camera dewarping (client-side dewarping). The fisheye camera dewarping pane displays the original image while the zoom pop-up is selected.

• Mouse Control

- Mouse M-button: Reset zoom (switch to original image)
- Drag and release the mouse pointer on the original image: Run ROI Spot
- Drag the mouse pointer: Move the ROI
- Scroll the mouse wheel: Control zoom in/out
- Drag the mouse R-button up/down: Control fisheye dewarping zoom in/out



Map Control

Controls the map using the control toolbar and screen menus.

Control toolbar

Select a map and place the cursor over the map to bring up control toolbar. The control toolbar can be used to control the selected map. Place the cursor over each button to view tooltips for the button.



-   (Previous Map, Next Map): Go to previous or next map after going to another map by a link or connecting to another map by selecting a map in the map list and dragging & dropping to the current map screen.

-  (Auto Focusing): Zooms in on the zone where the device is located on the map when an event occurs. For more details on auto focusing settings, refer to **Map on page 46**.



When events occur simultaneously on multiple devices, the canvas is expanded so that all the devices are displayed. If events are detected sequentially in different devices, the auto-focus will switch to latter event after the set duration has passed.

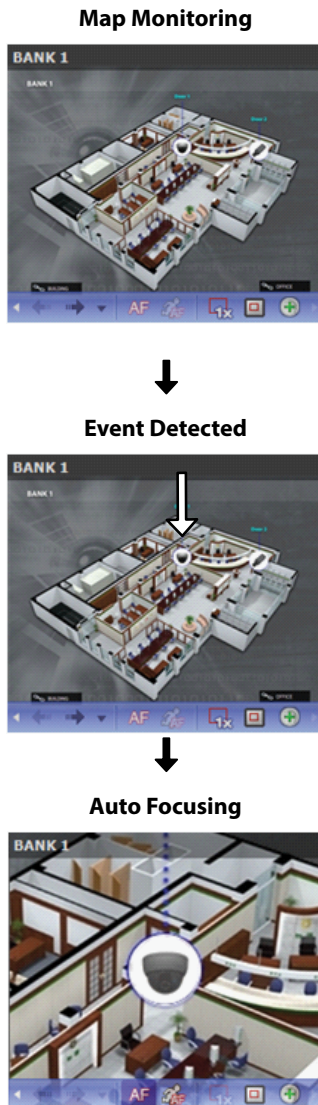
-  (Focusing Event): Designate an event to auto-focus on.
-  (Actual size): Shows the map in actual size of canvas.
-  (Zoom Finder): Shows or hides PIP screen. The square of PIP screen displays the zoomed area. If **Auto** is selected, PIP screen is only displayed when canvas is zoomed in.

Part 5 - Operation

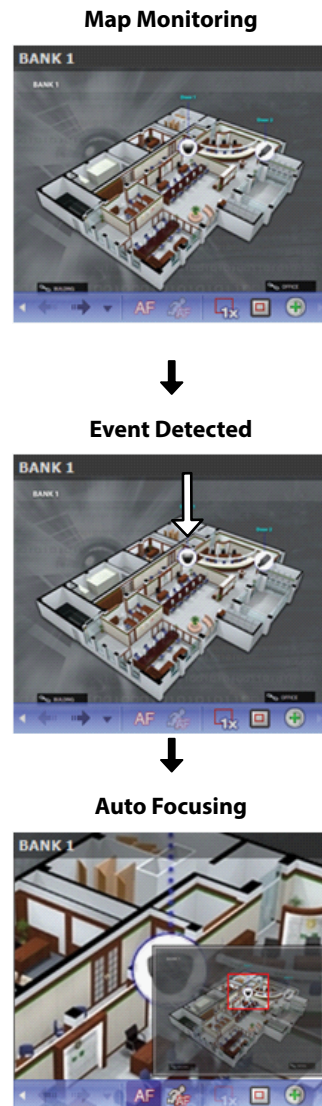
-  (Zoom slider): Changes magnification of the canvas.

Example of magnification finder settings

- If set as **Off**;

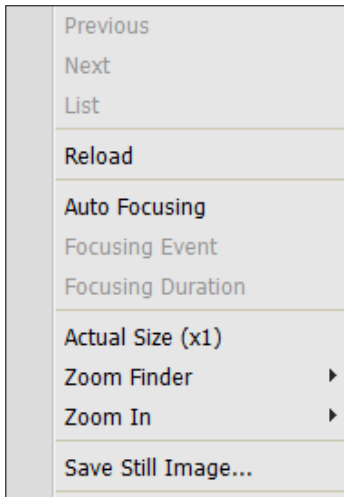


- If set as **Auto** or **On**;



Map screen menu

Select a map screen and right-click to bring up the screen menu. The screen menu can be used to control the selected map.



- **Previous, Next, Auto Focusing, Actual Size (x1), Zoom Finder, Zoom In:** Functions identically to the corresponding buttons in control toolbar. For more details, refer to **Control toolbar on page 61**.
- **List:** Shows the list of maps connected previously or to connect to next. Select a map on the list to go to the selected map.
- **Reload:** Refreshes connection to the current map.
- **Focusing Event, Focusing Duration:** Set focus events and focus duration for auto-focus feature.
- **Save Still Image:** Saves the current image on the screen as an image file at its original size.
- **Remove:** Terminates current connection.

Live Popup

When an event is detected during map monitoring, a live screen is displayed as a popup according to the settings in **Map Editor**.



Live popup list displays the list of current popup screens on IDIS Center .

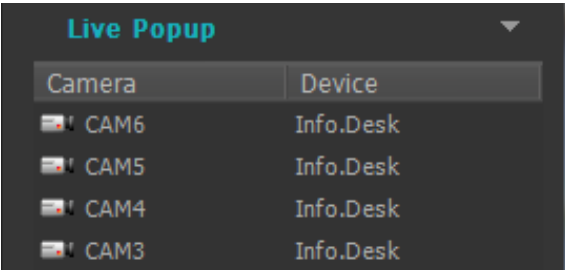
Popup screen



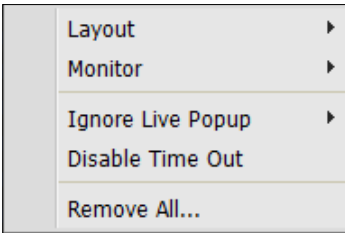
Select a screen and place the cursor over the screen to bring up control toolbar. The control toolbar can be used to control the camera. Place the cursor over each button to view tooltips for the button.

Right-click on the pop-up screen to bring up popup screen menu. The menu can be used to change popup screen settings or control the camera. Menus related to camera control have identical features as Live menu. For more information, refer to the **Live Screen Menu on page 62**.

Live popup list



Click on the arrow button at the upper right corner to bring up live popup menu. The menu can be used to change popup screen settings.

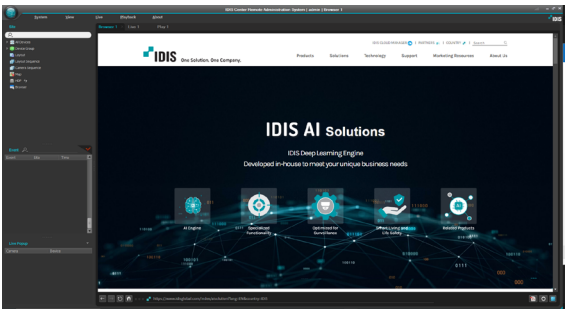


- **Layout:** Changes layout of popup screen. Select **Use Single Live Popup** to display a single popup on the screen.
- **Monitor:** When using dual monitors, the monitor for displaying popup screen can be selected.
- **Ignore Live Popup:** When a duration is entered, live popup feature is suspended for the duration entered regardless of **Live Popup Duration** entered in event activities in **Map Editor**.
- **Disable Time Out:** Closes popup screen manually regardless of the defined popup screen duration.
- **Remove All:** Removes the entire list.

Browser

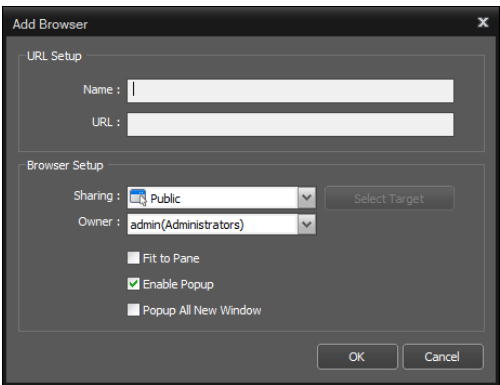
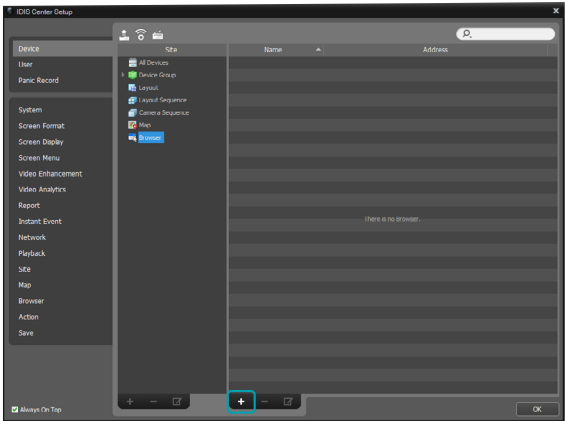
It's possible to launch registered browsers. It must first be registered to the administration service to launch a browser. For more details on browser registration, refer to the following section.

In the Browser list, select a browser you wish to launch. Then, drag & drop the selected browser on the live screen using your mouse. This launches the selected browser.



Browser Registration

- 1 Select **Settings** in the **System** menu and select the **Device** menu.
- 2 On the **Site** panel, click on **Browser**, then click on the **+** button at the bottom of the Site List panel on the right. **Add Browser** window will be shown.



- **URL Setup:** Enter the name and address of a URL (Uniform Resource Locator).
- **Fit to Pane:** Adjusts the web page to fit the size of the browser screen.

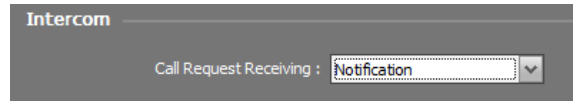
- **Enable Popup:** Allows popup pages.
- **Popup All New Window:** Displays the web page's popup screens as separate screens.

Intercom

By connecting the intercom device, you can monitor video and make calls, and control the opening and closing of doors.

Setting Call Request Receiving

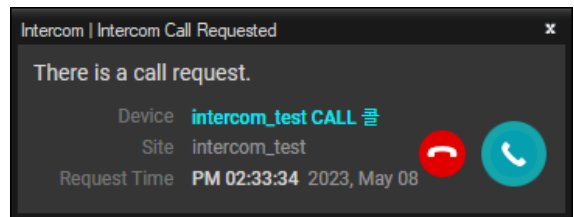
When the intercom call is received, when an event is detected, a pop-up screen appears according to the **Instant Event - Intercom - Call Request Receiving**.



- **Not Use:** Do not specify the setting when a call request is received.
- **Notification:** Display the intercom notification popup.
- **Intercom Popup:** Display the intercom popup.

Intercom Notification Popup

A pop-up screen is displayed when a call request is received. The device name, site (group) name, and call request time are displayed.



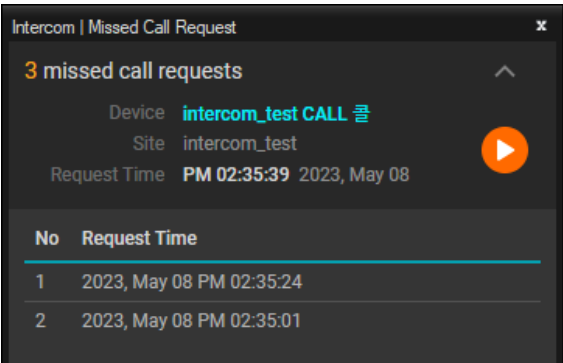
- **Click answer call button:** End notification popup and display the intercom call popup.
- **Clicking the left mouse button on the reject call button:** End the intercom notification popup.
- **Middle/Right Mouse Click on Reject Call Button:** Reject the call request without exiting the intercom notification popup.



- In the following cases, the pop-up automatic shutdown function operates.
 - When a call request timeout occurs while receiving a call request
 - 10 seconds after receiving a call request cancellation while receiving a call request
 - 1 minute after receiving end of call request due to preemption of VOIP call
- If the auto-shutdown count has started, clicking the pop-up will cancel the count.

Intercom Missed Call Request Notification Popup

A pop-up is displayed per device upon receipt of a missed call request event. The device name, site (group) name, and call request time are displayed.



- **Click the recorded video play button (including the play button in the list):** Plays the recorded video of the missed call request time.
- **Drag the recorded video playback button/playlist item and drop it on the camera pane:** Plays the recorded video at the time of the missed call request.
- **Click the Normal/Extended mode switch button:** If there are multiple missed call request records, you can switch the mode and view the missed call request list.

Intercom Call Popup

You can run the pop-up of forward call mode through the **Call** button on the control toolbar of the intercom camera pane connected to the Monitoring tab or the **Call** item in the context menu.

<Before Call>



<Calling>



- 1 **Device name:** Shows the device's name.
- 2 **Site/Group name:** Shows the name of the site or group.
- 3 **Volume control:** Controls the system volume and the mute of the audio input/output device.
- 4 **Unlock Door button:** Click and hold to unlock the connected door.
- 5 **Reject button**
 - Click left mouse button: End the call and exit the pop-up.
 - Click right/middle mouse button: Stop the call.
- 6 **Call button:** Respond to the intercom call request or request a call.
- 7 **Calling time:** During a call, the elapsed call time is displayed.
- 8 **Close button**
 - Click left mouse button: End the call and exit the pop-up.
 - Click right/middle mouse button: Stop the call.

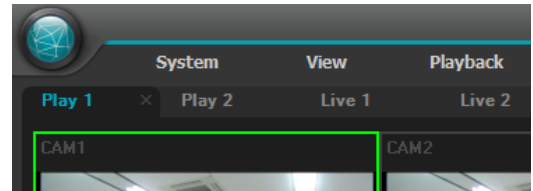
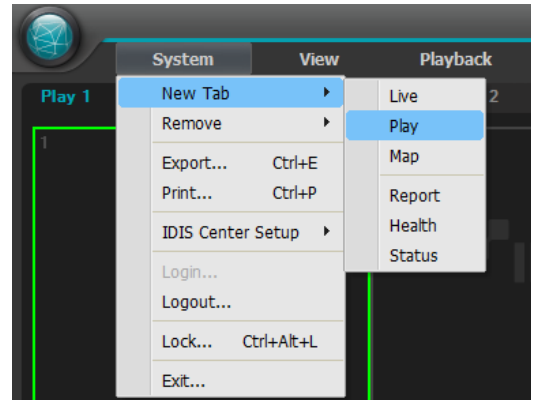


- In the following cases, the pop-up automatic shutdown function operates.
 - 10 seconds after the call request timeout while receiving a call request
 - 10 seconds after receiving a call request cancellation while receiving a call request
 - 1 minute after receiving end of call request due to preemption of VOIP call
 - If you do not click the OK button in the timeout dialog box displayed every 5 minutes when intercom call function is occupied, after 10 seconds
- If the auto-shutdown count has started, clicking the pop-up will cancel the count.
- **End/Reject button:** Ends or rejects the intercom call and closes the pop-up. (The pop-up does not close when clicking the right/middle mouse button.)
- **Unlock Door button:** Click and hold to unlock the connected door.

Recorded Video Playback

Recorded videos can be search and played.

- 1 Playback of videos recorded on the device and IDIS Center System are supported on up to 4 Play panels. If a Play tab doesn't exist in the panel tabs, you can add them by selecting **New Tab** in the **System** menu and clicking **Play**.



- 2 In the panel tabs, click the **Play** tab.
- 3 In the **Site** list, select a site you wish to connect to. Then, drag & drop the selected site on the playback screen using your mouse.
- 4 The recorded video of the each camera will be displayed on the screen.



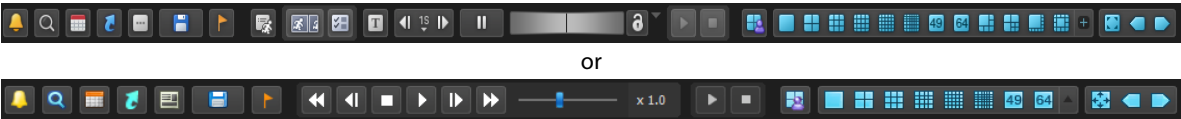
- You can select and move a camera playback to a desired position on the Play screen without pausing playback by selecting the camera being played and moving it using drag & drop with your mouse.
- If a layout is registered, you can select a desired layout from the Layout list and drag & drop on the Play screen to play videos using the selected layout.
- Monitoring or playing 2 or more camera videos on a PC with a low specification may cause the performance of IDIS Center system to drop.

5 Play recorded videos using Panel Toolbar, Timetable, Control Toolbar and Screen Menu.

Panel Toolbar

Video recording can be played and searched using the toolbar at the bottom of the panel.

☒ Toolbar may vary depending on the model and version of the devices connected. Some features may not be supported.



- / (Event Search/Time-lapse Search): Switch search modes between Event Search and Time-lapse Search.
- (Search Filter): Sets search conditions for event search. For more information on search condition, refer to the devices's operation manual.
- (Calendar): Search videos from specific dates. When a date is selected, recorded data of the selected dates are displayed on the timetable. Dates that have video recordings are activated.
- (Move To): Search videos from a specific time.
 - **Go To:** When the time setting window appears, enter the desired time of the video recording to go to the entered time. Selecting **Load Adjacent Frame** skips to the nearest time in the video recording if there are no video recordings for the desired time.
 - **Move First:** Go to the first video among the recording data on the timetable.
 - **Move Last:** Go to the last video among the recording data on the timetable.
- (Additional Menu): Show menu.
 - **Data Source:** Selects the data source to be searched.

Search on Local	Search video recordings in the primary storage device of DVR.
Search on Archive	Search video recordings in the backup storage device of DVR.
Search on Other	Search video recordings in the storage device that was used in other DVR. ☒ External Storage Search may not be supported depending on DVR's specifications and version.

- **Overwrite Protection:** Checks the recorded video with overwrite protection in the device.
- **Add Bookmark:** Bookmarks the recorded video.
- **Remote Site Panel:** Shows or hides a site list in the floating panel or full screen. Not every panel supports this function.
- **Text-In Panel:** Shows the Text-In panel.
- **Select Segment:** If more than one video exists in the same timeframe due to time overlap caused by changing the time of the DVR, a desired segment can be selected.

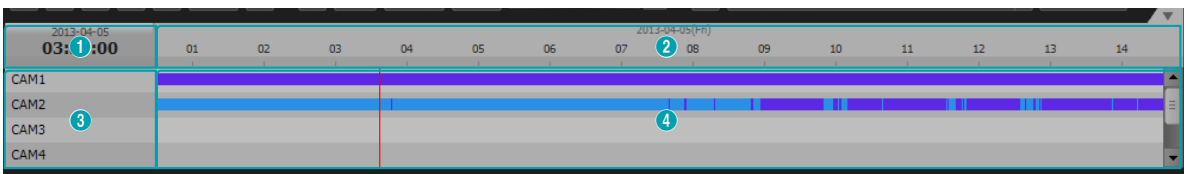
☒ Only supports DVR that provides a hourly timetable.

- (Export Video File): Save video recording as a proprietary viewer file(.exe) or an AVI file(.avi).
 - **Save Still Image:** Saves the current frame of the video on the screen as a image file in actual size.
 - **Export Image/Print Image:** Save or print current image on the screen.

- **Export Panorama Screen:** Save the image on the screen of all panels.
-  (Bookmark): Allows you to bookmark the selected recorded video, play or remove the added bookmark.
-  (Event on Play): If an event recording exists during a video recording playback, a list of events are shown. Double-click on the event on the Event List to play the event recording.
-  (Thumbnail Search): Shows still images of videos recorded during event and pre-event in the Play panel.
-  (Text-In Panel): Displays the Text-In panel. The Text-In panel shows the text-in data of the devices currently connected to the IDIS Center. If a camera is associated with the text-in device and the video of the associated camera is displayed on the current Play screen, the text-in data is displayed on the video on the camera screen, too. You can change the length of time that the text-in data is displayed by using the **Live Text-In Time Range** setting. For more details about the **Live Text-In Time Range** setting, refer to **Instant Event on page 44**.
-  (Step Playback): Skips to previous or next video by frame or time. Skip increments can be adjusted by pressing the arrow between  and .
-  /  (Fast Backward/Fast Forward): Plays video recording in high-speed in reverse or normally.
-  /  (Stop/Play): Stops or plays recorded video of the selected device.
-  (Jog shuttle): Adjusts the playback method and speed. Jog shuttle's vertical indicator indicates the current playback direction and speed. Vertical indicator placement to the right of the center means the video is being played back in the forward direction. Placement to the left means the opposite. Farther away the vertical indicator from the center, faster the playback speed. Click and drag the vertical indicator to adjust the playback speed. Releasing the mouse button returns the vertical indicator to the center and stops video playback. Clicking the  (Lock) button and dragging the vertical indicator fixates the vertical indicator in the new position.
-  (Jog shuttle): Adjust the playback speed. Vertical indicators on the job shuttle indicates the current playback speed.
-  /  (Play on Tab/Pause on Tab): Plays or pauses playing recorded video of all devices displayed on the current screen.
-  (Save to User Layout): Saves current screen layout.
-  (Layout): Changes layout. Various layouts can be selected by clicking  button. You can switch to previous or next camera group by clicking  or .

Timetable

In Time-lapse Search Mode, timetable at the bottom of the screen shows recording information of each camera. When the ▲ at the upper right corner of the timetable is clicked, recording information of all cameras on the screen are shown. If the ▼ is clicked, only the recording information of cameras selected in the Play screen are shown.



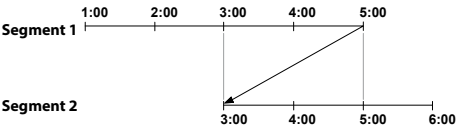
Timetable may vary depending on the model of the connected device.

1	Date/time of video playing	Shows time and date of current playback on the timetable. Click the left mouse button and open the time setting window.
---	-----------------------------------	---

2	Recording Time	Shows the date and timeframe of the video recording. To move to the previous or following date and time, click anywhere and drag left or right, or move the mouse wheel while holding down the Shift key on the keyboard. Timeframe can be magnified by moving the scroll wheel while holding down the Ctrl key on the keyboard.															
3	Camera Title	Shows the camera's title.															
4	Recorded data	Shows the recording information in minutes or hours. Second, Minute interval timetable (Applies to all devices, with exception of some DVR models) Red vertical indicator: Shows time and date of current playback on the timetable. Click on a desired time, and the first video recording of the selected time is played. Yellow separator: Separates segment where time overlap has occurred. In this case, the data shown on the right-hand side of the timetable is newer data. Click the  (Calendar) on the Play panel to go to a desired segment. Bar color: Shows the recording mode.<table><tr><td>Blue</td><td></td><td>Time Lapse Recording</td></tr><tr><td>Purple</td><td></td><td>Event Recording</td></tr><tr><td>Yellow</td><td></td><td>Pre-Event Recording</td></tr><tr><td>Red</td><td></td><td>Panic record</td></tr><tr><td>Green</td><td></td><td>Faulty recording due to a temporary disruption in device connection.</td></tr></table> - Moves the recorded image by 1 second~1 minute according to the timetable magnification. Hour interval timetable (Applies certain DVR models) Yellow bar: Shows time and date of current playback on the timetable. Pink bar/Gray bar: If time overlap has occurred, the video segment currently shown on the screen is indicated by a pink bar and the video segment not shown on the screen is indicated by a gray bar. Video segment indicated by a gray bar cannot be played. To change the segment to play on the screen, click  (Other Menu) in Play panel.	Blue		Time Lapse Recording	Purple		Event Recording	Yellow		Pre-Event Recording	Red		Panic record	Green		Faulty recording due to a temporary disruption in device connection.
Blue		Time Lapse Recording															
Purple		Event Recording															
Yellow		Pre-Event Recording															
Red		Panic record															
Green		Faulty recording due to a temporary disruption in device connection.															

☒

If the clock of the IDIS Center system or device is changed to a point in the past, overlapping recordings may be produced, which is where more than one recording exists at the same point in time. In this case, overlapped recordings have to be played as separate segments.



For example, making a recording from 1 o'clock to 5 o'clock, changing the system's clock at 5 o'clock to 3 o'clock, and then continuing to record until 6 o'clock produces two recordings that overlap between 3 o'clock and 5 o'clock. This results in two segments for the period between 3 and 5.

Event list

In Event Search Mode, event list is displayed at the bottom of the screen. When searching an SD (SDHC) memory card, only the events that occurred while SD (SDHC) memory card recording feature is enabled can be searched.

Event	Triggered by	Device	Date/Time
Motion Detection	CAM1	CAM1	2015-10-21 18:58:21
Motion Detection	CAM1	CAM1	2015-10-21 18:57:53
Motion Detection	CAM1	CAM1	2015-10-21 18:57:35
Motion Detection	CAM1	CAM1	2015-10-21 18:56:33
Motion Detection	CAM1	CAM1	2015-10-21 18:56:27

If there is an event recording, double-click on the event on the event list to play the event recording. To see the following matches, click  at the upper right corner of the event list. Click , set the time, and select the event to go to the previous recorded data as the time you set.

Control toolbar

Select a camera screen and place the cursor over the camera screen to bring up control toolbar. Place the cursor over each button to view tooltips for the button.



-  (Fisheye Dewarping): Dewarp the fisheye camera image.
-  (Object/Motion Search): Object or motion changes can be searched in the video recordings of devices or panic recordings of IDIS Center system.
-  (Zoom): Magnifies the current video.
-  (Color Control) : Adjust the brightness, contrast, saturation and color of the current video. Click  to cancel all changes and restore image to original.

☒ These settings are only applicable to images of IDIS Center program and do not apply to images of devices.

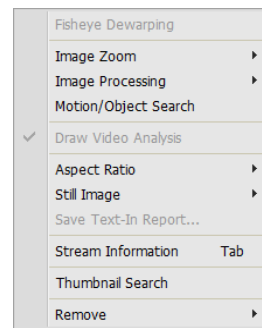
-  (Image Effect): Applies image effects.
-  (Audio playback): If audio is recorded, the recorded audio is played with the video upon playback.

☒ Only supports 1x1 layout.

-  (Google Maps): This feature is only supported with vehicular DVRs/NVRs.
-  (Speed Graph): This feature is only supported with vehicular DVRs/NVRs.
-  (Vehicle Info): This feature is only supported with vehicular DVRs/NVRs.

Play screen menu

Select a camera screen and right-click to bring up the screen menu.



- **Fisheye Dewarping:** Dewarp the fisheye camera image.
 - **Image Zoom:** Functions identically clicking to the corresponding buttons in control toolbar.
 - **Image Processing:** Applies image effects.
 - **Motion/Object Search:** Object or motion changes can be searched in the video recordings of devices or panic recordings of IDIS Center system.
 - **VA Overlay:** Displays video analysis data over the monitoring video.
 - **Aspect Ratio:** Sets the aspect ratio of video output.
 - **Fit to Screen:** Resizes video to camera screen regardless of original aspect ratio.
 - **Fit to Screen(Aspect ratio):** Resizes video to camera screen while maintaining original aspect ratio.
- ☒ Up, down, left, and right parts of the video may be cropped depending on size of camera screen. When using Image Zoom, aspect ratio of camera screen does not apply and **Original Ratio** is applied.
- **Original Ratio:** Resizes camera screen to original aspect ratio of the video.

- **Half Size (x0.5) - 4 Times Bigger (x4):** Displays the camera videos in the selected size based on the original size of the video.

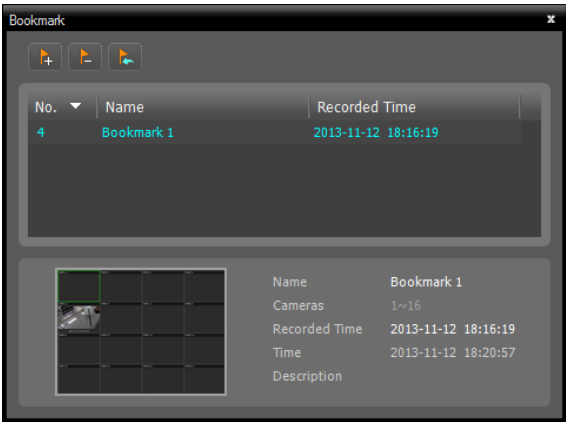
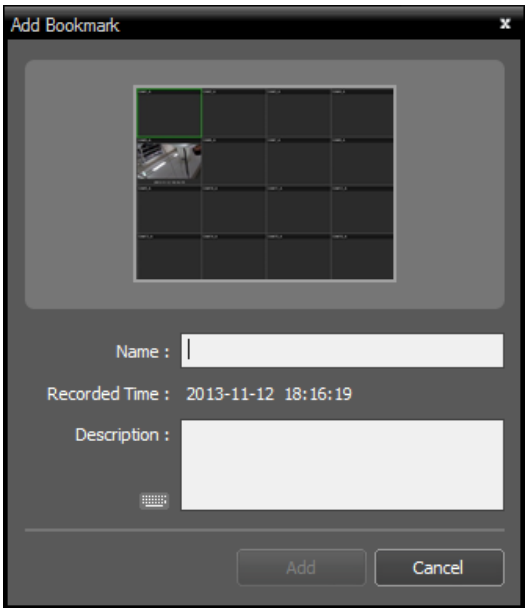
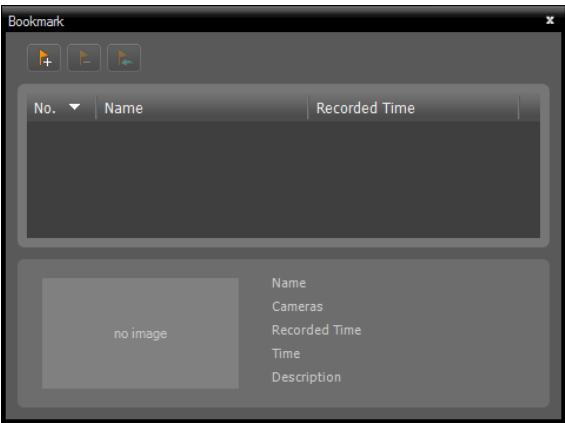


The menu is activated only when there is sufficient space to display the camera video in the selected size.

- **Still Image:** Saves the current frame of the video on the screen as an image file in actual size.
- **Save Text-In Report:** Saves the text-in information of the video as the report.
- **Stream Information:** Shows the stream information of the selected camera.
- **Thumbnail Search:** Shows still images of videos recorded during event and pre-event in the Play panel.
- **Remove:** Terminates connection.

Bookmark

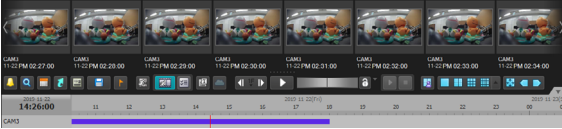
Clicking the  (Bookmark) button on the panel toolbar allows you to bookmark the selected recorded video.



- 1 Click the  (Add Bookmark) button.
- 2 Enter the bookmark name and description. Clicking the **Add** button bookmark the recorded video.

- 3 Clicking a bookmark from the bookmark list displays the bookmark information at the bottom. Clicking the  (Play Recorded Data) button displays the bookmarked video on the Play screen. Clicking the  (Remove Bookmark) button deletes the bookmark.

Thumbnail Search

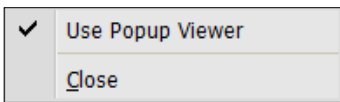


When  (Thumbnail Search) is clicked in the Panel Toolbar, still images of videos recorded which belong to the search filters are shown in the Play panel.

Recording information of the selected freeze-frame is displayed on the timetable. When user clicks anywhere on the recorded data on the time table, a freeze-frame image of the selected time is shown. Use arrow buttons or a mouse wheel scroll to move to previous/next still images.

Placing the mouse cursor over the freeze-frame brings up a popup viewer screen above the freeze-frame.

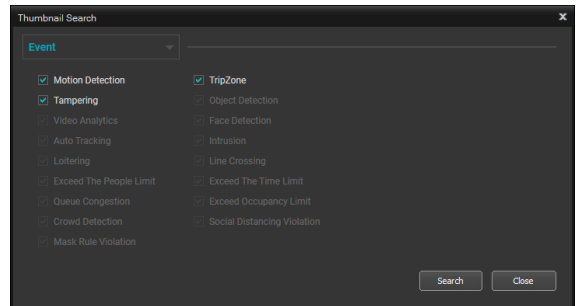
In the timelapse mode, click on the selected image again to decrease the time interval of thumbnails. When the interval is 1 second, a popup menu is displayed to select the time interval.



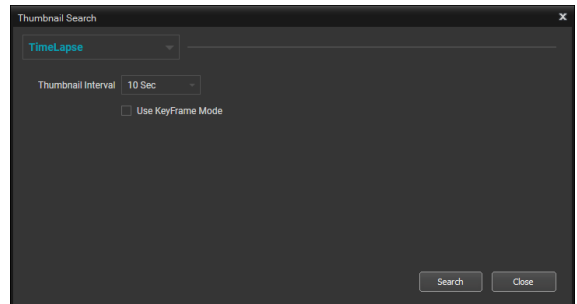
- **Use Popup Viewer:** Supports popup viewer screen.

Filter Settings

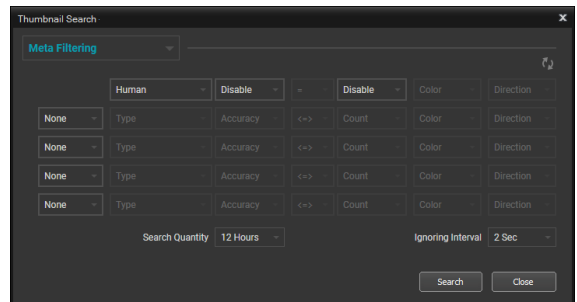
Select the  (Filter Settings) button to configure search filters. Filters include event search, timelapse search and meta filtering search.



- **Event Search:** Select more than one event to display the recorded image of the time when the event occurred.



- **TimeLapse Search:** Displays the images according to the set time interval (**4 Hours, 1 Hour, 10 Min, 1 Min, 30 Sec, 10 Sec, 1 Sec**). When **Use KeyFrame Mode** is selected, only keyframe images are listed.



- **Meta Filtering Search:** Displays meta data images which include data based on certain conditions. Conditions include object type, accuracy, amount, color and direction, and these conditions can be combined by **AND** or **OR** for search.

Motion/Object Search

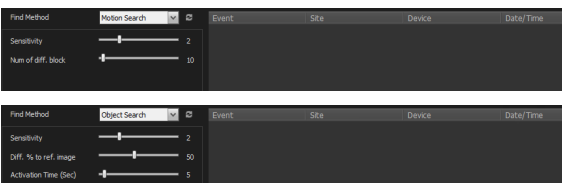
Clicking the  (Motion/Object Search) on the control toolbar brings up motion/object search panel at the bottom.

Object or motion changes can be searched in the video recordings of devices or panic recordings of IDIS Center system.



-  (Draw Search Zone): The area of the camera screen for detecting object or motion changes can be set by dragging the mouse.
-  (Erase Search Zone): Deletes the search area on the camera screen by dragging the mouse.
-  (Set Ref. Image): Sets current image in the camera screen as a reference image for detecting object changes.
-  (View Ref. Image): Shows or hides reference image as PIP screen.

☒ Setting and viewing reference images only apply to object searches.



- **Find Method:** Choose a scan method.
 - **Motion Search:** Compares two consecutive video recordings and detects the recording that shows changes in the search area. (e.g.: if a motion is detected)
 - **Object Search:** Compares changes in the search area to the reference image and finds videos where the change occurs and maintains until activation time. (e.g.: if an object is missing)

- **Sensitivity:** Set the sensitivity for detecting changes. Higher values will result in more sensitive detection.
- **Num of diff. block:** Select the minimum block for detecting changes. The change must be bigger than the defined number of blocks to be considered as a change.

☒ Only applies to motion search.

- **Diff. % to ref. image:** Select the minimum ratio for detecting changes. The change must be bigger than the defined change ratio to be considered as a change.

☒ Only applies to object search.

- **Activation Time:** Set the duration that the change must persist to be considered as a valid change when detecting changes. A detections that do not last for the specified duration of time will not be considered as a change.

Image Zoom

Press  (Image Zoom) in the control toolbar to zoom in on the current video.



-  (Slider): Adjusts magnification. Magnification can also be adjusted using the mouse scroll wheel.
-  (Actual Size Zoom): Enters Actual Size Zoom mode. In Actual Size Zoom mode, the video is zoomed in based on actual size of the video regardless of the size of camera screen or magnification.
-  (Zoom Finder): Shows or hides PIP screen. The square of PIP screen displays the zoomed area.

- ☒ PIP stands for Picture in Picture, and it refers to the small screen displayed within the bigger screen.

Image Effect

Click on  (Image Effect) on the control toolbar to bring up image effect control toolbar.

Image effects to the image using each button.

- ☒ These settings are only applicable to images of IDIS Center program and do not apply to images of devices.

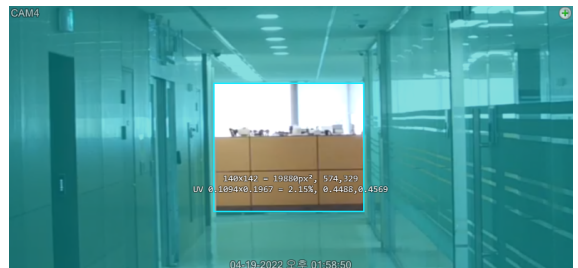


-  (Blur): Softens the image.
-  (Sharpen): Sharpens the image.
-  (High-Boost): Enhance image clarity by increasing brightness and sharpness.
-  (Histogram Equalization) : Makes image more natural by adjusting brightness.
-  (Edge Detection): Detect outline in the image.
-  (Revert): Cancel all changes and restore image to original.

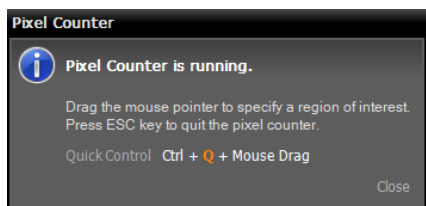
Pixel Counter

Displays the pixel information in the selected area in the image. The number of pixels of the object's size as the distance can be calculated with the constant-sized object.

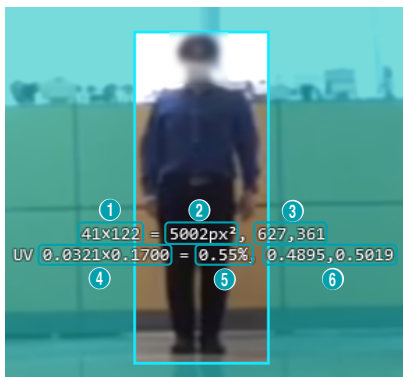
It provides quantitative information about object recognition by specifying the area of a specific type of object and measuring the density of the pixel (number of pixels per unit length). Go to **View > Pixel Counter**.



- ☒ It is displayed a notification pop-up as shown below running the pixel counter. It provides how to use the pixel counter and quick control shortcuts.



- ☒ The information provided by the pixel counter is shown below.

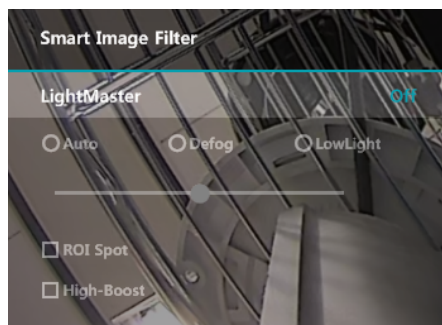


- Width and height pixels
- Total pixels within the area
- The pixel coordinates of the upper left corner of the area
- Area width and height ratio to pane (UV coordinates)
- Pane-to-area width ratio
- UV coordinates of the upper left of the area

- ☒ UV coordinates represent the minimum coordinate as 0 and the maximum coordinate as 1. The upper left is represented by (0, 0), and the lower right is represented by (1, 1).

Smart Image Filter

Click on  (Smart Image Filter) on the left bottom of the recorded image to apply filters to an image according to the status of the image or purpose.

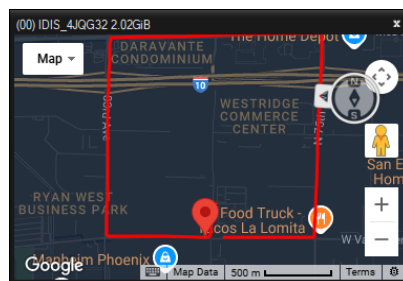


- **Auto, Defog, Lowlight:** Applies filters and set each value.
- **ROI Spot:** Applies filters to the selected area only.
- **High-Boost:** Applies high-frequency enhancement filter.

Google Maps

Click  (Google Maps) on the Control Toolbar to load the Google Maps panel as a popup.

- ☒ This feature is only supported with vehicular DVRs/ NVRs.



If the video contains GPS info, the vehicle's location () , direction of travel () , and route (red line –“HDP” site only) can be looked up. "Map" and "Satellite" (Terrain On/Off) are Google Maps' display modes. From Google Maps, click on the vehicle's route (red line) or select the Vehicle Location () icon and then drag and drop to see the recorded images of the location on the screen. (“HDP” site only)

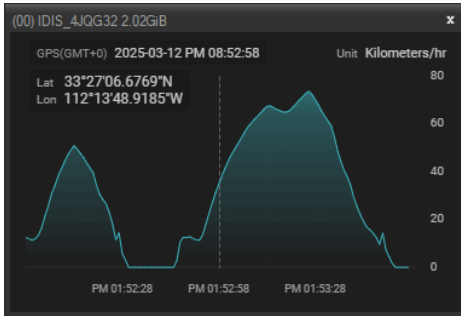
- ☒ When checking the vehicle's location and direction of travel, the vehicle's speed is shown on the Speed Graph panel.

Speed Graph

Click  (Speed Graph) on the Control Toolbar to load the Speed Graph panel as a popup.



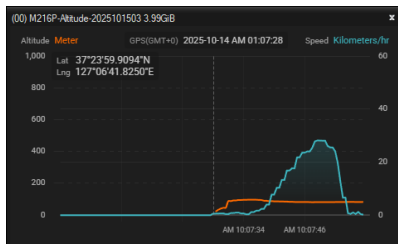
This feature is only supported with vehicular DVRs/NVRs.



If the video contains GPS data, the vehicle's speed can be looked up on the Speed Graph. The speed is shown in the middle of the graph. The red, vertical line in the middle indicates the current playback location.

Right-click on the Speed Graph panel to configure graph type, graph unit, GPS info display settings.

Click on the Speed Graph panel to see the recorded images of the location on the screen. ("HDP" site only)



If the GPS data of the video includes altitude information, an orange line will be added to indicate the altitude values.



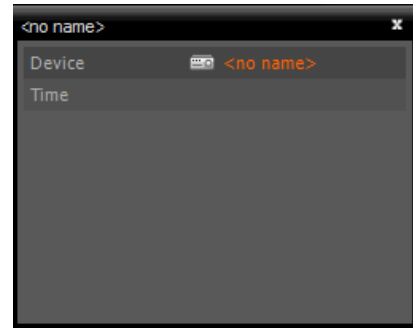
When checking the vehicle's speed, the vehicle's location and direction of travel are shown on the Google Maps panel.

Vehicle Info

Click  (Vehicle Info) on the Control Toolbar to load the Vehicle Info panel as a popup.



This feature is only supported with vehicular DVRs/NVRs.



Vehicle information is shown if contained in the video file.

Metadata Chart

Clicking Metadata Chart in the context menu of the playback screen will display the Metadata Chart panel in a pop-up screen. For more details, refer to **Metadata Chart Panel on page 161**.



This feature is only supported with vehicular DVRs/NVRs.

Text-In Report

Text-In search results can be saved as a PDF file report. Click  (Search) in the Toolbar at the bottom of the Play Panel and select Text-In from the popup window.

Event	Triggered by	Transaction	Date/Time		
Text-In	Text-In 1	0202 Item Unit price Qty ...	2019-03-29 18:30:45		
Text-In	Text-In 1	0101 Item Unit price Qty ...	2019-03-29 18:30:44		
Text-In	Text-In 1	1616 Item Unit price Qty ...	2019-03-29 18:30:43		
Text-In	Text-In 1	1515 Item Unit price Qty ...	2019-03-29 18:30:42		

Search Text-In from  (Search Conditions) to switch to the event search mode like the above. When search is complete, click  (Text-In Report) or double-click on the recorded image with the text-in data from the Play tab and switch it to 1x1 layout. Right click on the mouse and select **Save Text-In Report...** to bring up the following popup window.

Enter text-in information and click **Save** to save the text-in report as a PDF file.

Snapshot

Transaction

2019-03-17 AM 07:52:56

SPRINT_RH_3000S_R_R_1_1_R_10M_718

Title

Text-In Report

Comment

Additional Comments

Footer

Options

☒ Auto close after save

☐ Use Password

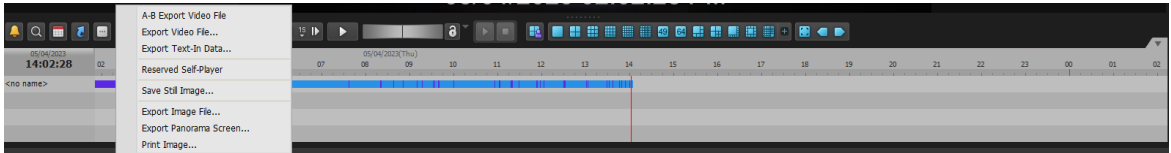
Additional Comments

Save Close

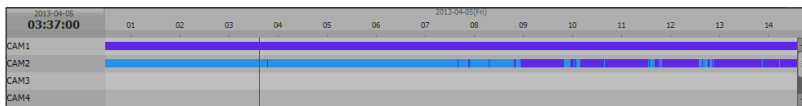
- **Snapshot:** Select an image to be included in the report. Select one of 12 images, ranging from -2 ~ +2 seconds from the text-in event. You can move left and right using the horizontal scroll control at the bottom of the list, or control it with the mouse wheel.
- **Transaction:** Displays the text-in data for the report.
- **Title, Comment, Footer:** Enter the title, comment and footer of the report.
- **Options**
 - **Auto close after save:** Automatically closes the text-in report window after saving is complete.
 - **Use Password:** Saves the text-in report as a PDF file with a password.

Export Video File

Recorded videos can be saved as a video file. Click on the  (Export Video File) in the Toolbar at the bottom of the Play Panel to bring up Export Video File menu.



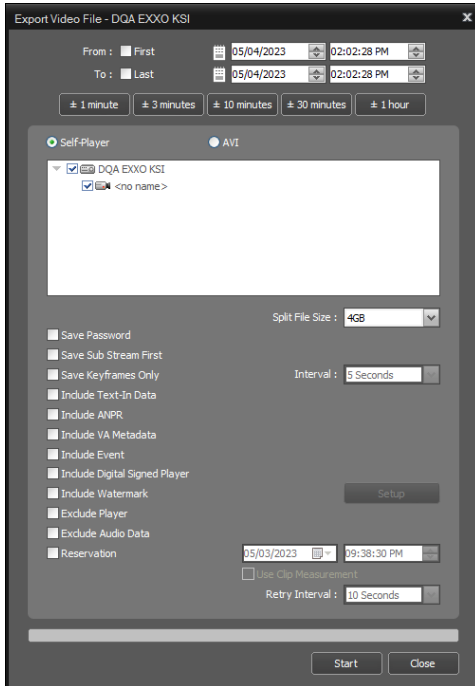
- **A-B Export Video File:** Set the section of the video you wish to save using the timetable. Select **A-B Export Video File** in the Export Video File menu. On the timetable, click the starting point and end point to specify the section you wish to save. When **Export Video File** window appears, the video for the selected section can be saved as a proprietary view file (.exe) or an AVI file (.avi).



- **Export Video File:** Set the section of the video you wish to save by manually entering the start and end points. Select **Export Video File** in the Export Video File menu. When **Export Video File** window appears, the video for the selected section can be saved as a proprietary view file (.exe) or an AVI file (.avi).
- **Export Text-In Data:** Exports the text-in data in a text file (.txt). Set up the range for the text-in data to save.
- **Reserved Self-Player:** The status of reserved video save can be checked in real time. Select **Site** in the Reservation List and click **Instant Start**, **Delete** buttons to use this function. Status of reserved save as video tasks can be refreshed by clicking **Refresh**.
- **Save Still Image:** Saves the current frame of the video on the screen as an image file in actual size.
- **Export Image:** Saves current image on the screen.
- **Export Panorama Screen:** Save the image on the screen of all panels.
- **Print Image:** Prints current image on the screen.

Save as a Self-Player File

Saves video recording as a self-player file(.exe).



- **From, To:** Enter the date and time of the recording you wish to save as video.
 - **First:** Sets date and time of the first video as the start point.
 - **Last:** Sets date and time of the last video as the end point.
 - **±1 Minute, ±3 Minutes, ±10 Minutes, ±30 Minutes, ±1 Hour:** Adds or subtracts the amount of time from the time currently selected on the timetable.
- **Self-Player, AVI:** Select **Self-Player**.
- **Split File Size:** Splits and saves the file if the recorded video data exceeds the set split file size.
- **Save Password:** Set a password for playing the video. When a password is set, the viewer program asks for password while running.
- **Save Keyframes Only:** Saves the keyframe only as the interval you set.
- **Include Text-In Data/ANPR/VA Metadata/Event:** Includes text-in data/ANPR/VA Metadata/Event data when saving video if the video was recorded with this data.
- **Include Watermark:** Saves the specified watermark(text or text pattern) with the video.

- **Exclude Player:** Saves only the video recording without proprietary viewer.



- Not including the player reduces the file size and time to save a video. However, the proprietary viewer (IDIS player.exe) provided in IDIS Center software installation folder (\Client\selfplayer) needs to be run to play the saved video.
- This function may not be supported depending on device's specifications and version.

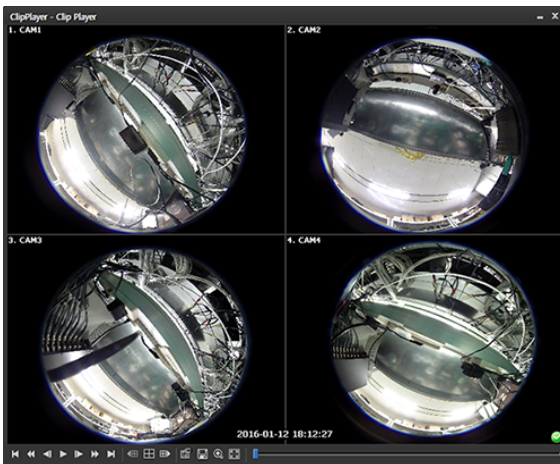
- **Exclude Audio Data:** Saves the recorded data without the audio data.
- **Reservation:** The save video function can be reserved. When a reservation period is set, the video is saved at the reserved time. If the device is disconnected during saving and saving fails, the IDIS Center system retries saving at the selected interval.
- **Use Clip Measurement:** Measures the clip size in advance to determine its capacity.



- When the data file reaches 2GB or 4GB depending on the device, you will be asked to continue saving by creating multiple files.
- If a network failure or disconnection occurs during saving, it is displayed as a list on the reserved self-player. When the network is restored, it tries exporting from the point where the saving was completed.
- To temporarily pause saving, press the **Stop** button, then select **Add to Reserved Self-Player** and click **Yes**. When a saving file is displayed on the list of reserved self-player, select **Instant Start** to resume saving.

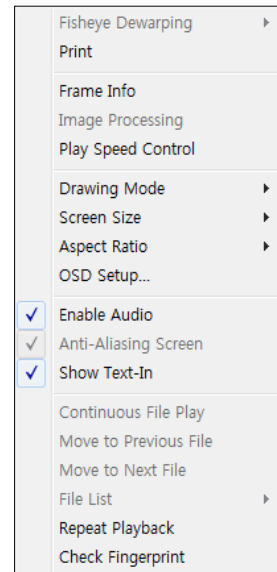
File Playback using proprietary viewer

Because proprietary viewer files include its own player (Clip Player), there is no need to install additional software for playback. When the file is double-clicked, the player is ran automatically and the video is displayed on the screen. The scroll bar at the right bottom of the player can be used to jump to a specific point of time in the video. Click  to exit the player.



	Go to beginning		Rewind
	Go to end		Play at normal speed
	Rewind by frame		Fast forward
	Play by frame		

-  : If current layout includes a video stored in the previous camera group, the panel switches to the previous camera group.
-  : Changes layout in the order of 4 → 8 → 9 → 16 → 20 → 25 → 1+32.
-  : If current layout includes a video stored in the next camera group, the panel switches to the next camera group.
-  : Properties of player can be set.



- **Fisheye Dewarping:** Controls Fisheye Dewarping.
- **Print:** Prints current image.
- **Frame Info:** Shows information about the current image, including the screen number, camera title, time of recording, recording mode, file size and resolution.
- **Image Processing:** Adjust brightness or apply image filters such as soften or sharpen.



Only supports 1x1 layout.

- **Play Speed Control:** Changes speed of **Play**, **Fast Forward** and **Rewind**.
- **Drawing Mode:** Select drawing mode. If the screen is not displayed correctly or not displayed at all, the problem can be resolved by changing Drawing Mode.
- **Screen Size:** Select screen size of the player.
- **Aspect Ratio:** Change the aspect ratio of the video displayed on the screen.

- **OSD Setup:** Change the basic settings of the video displayed on the screen.
- **Enable Audio:** If audio was recorded with the video, enabling this option plays audio upon playback.



Only supports playback in 1x1 layout.

- **Anti-Aliasing Screen:** Removes stair step (block) artifacts in magnified videos upon playback. If the playback is slow due to insufficient processing power of the PC's CPU, disabling the Anti-Aliasing option can improve overall speed.
- **Show Text-In:** Displays text-in data if the video was recorded with text-in data. In the single-screen layout, text-in data is displayed with images on the screen. In multi-screen layouts, click the right mouse button on a camera screen and then a text-in menu.
- **Continuous File Play:** Plays the files that compose the split file successively. For example, if video is split to 3 files of **abc_01.exe**, **abc_02.exe** and **abc_03.exe** when it is saved, you don't need to play each file one by one manually. **abc_01.exe**, **abc_02.exe** and **abc_03.exe** files will be played successively when you play the **abc_01.exe** file.
- **Move to Previous File:** Moves the previous file from the currently playing file or the file to be played when playing a split file.
- **Move to Next File:** Moves the next file from the currently playing file or the file to be played when playing a split file.
- **File List:** Lists the files that compose the split file in sequence. Selecting a file from the list moves to the selected file.
- **Repeat Playback:** Playback again after playing the recorded file.
- **Check Fingerprint:** Checks the validity of the entire file segments.



: Save the current image.

Save as Image
Save as Image (Actual Size)
Save as Clip-Copy
Save as Video
Clip-Copy Log
Save Frame Info

- **Save as Image:** Save current screen as image file.
- **Save as Image (Actual Size):** Save current screen as image file in actual size.



Only supports 1x1 layout.

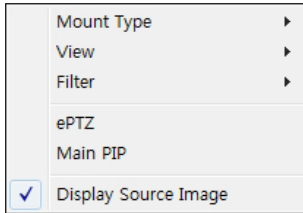
- **Save as Clip-Copy:** Saves video of desired time range as an executable file.
 - **Save as Video:** Save specific part of the video as AVI file(.avi).
 - **Clip-Copy Log:** Saves the clip copy log information as a text file. The user information about Save As Clip Copy will be logged as **Internal-Copy**.
 - **Save Frame Info:** Saves the frame information as a CSV file.
-  : Magnifies or shows screen in actual size. When magnified, you can click on the magnified screen and move the cursor to determine the position of the magnified screen.



Only supports 1x1 layout.

-  : Shows screen in full screen.
-  ,  : Displays at the lower right corner of the player. When it is confirmed that the video has not been altered, the  icon is displayed. If the video has been altered,  icon is displayed and playback is stopped.

- Fisheye Dewarping



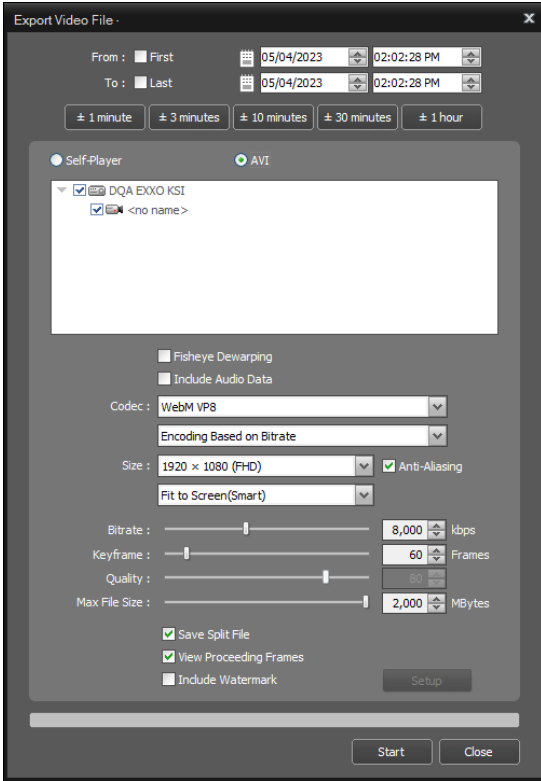
- **Mount Type:** Chooses a position that the camera is mounted. Choose from Auto, Wall, Ceiling and Desktop. The available Screen Type changes depending on this setting.
- **View:** Displays the original fisheye dewarping video. Choose from Single, Quad and Panoramic view. When ePTZ is on, you can control Pan, Tilt and Zoom by clicking the left/right mouse button. The Main PiP is selected as a default.
- **Filter:** Choose a filter to improve the resolution. Choose from Nearest, Linear, Cubic and Linear, NN OnPTZ filters.
- **ePTZ:** Controls Pan, Tilt and Zoom function. Dragging the mouse, the size of dragging indicates the speed of PTZ. The left button drag controls Left/Right (Pan) and Up/Down (Tilt). The right button drag controls Zoom.
- **Main PIP:** Displays PiP (Picture in Picture) view to select the area easily in the main view screen.
- **Display Source Image:** Cancels the adjustment and reloads the original image.



- The minimum CPU requirement for running the player is 800MHz Pentium III (Intel Pentium Dual Core 2.2GHz recommended). If the CPU does not provide sufficient processing power, it may lower playback speed of high resolution recordings and high-speed recordings. Also, DirectX 9.0 or later is required for running the program and a VGA card with 16 MB or more VRAM is recommended.
- The video may not be displayed on the screen correctly depending on the PC's display settings. In such case, right-click on the desktop, go to **Display Properties** → **Settings** tab, select **32-bit** as **Color Quality**. Then, select **Advanced**, go to Troubleshooting tab, and set **Hardware Acceleration** as **Max..** If the problem persists, click **Start** → **Run**, type in **dxdiag** and press Enter. In the DirectX diagnostics tool window, confirm that the DirectX version is 9.0 or higher. In the same window, go to Display tab and make sure that **DirectDraw Acceleration** is set as **On**. If running Microsoft® Windows® XP, test the settings by pressing the DirectDraw test button. Check the driver version of the VGA card. If it is not the latest version, update it with the latest version of the driver. If the problem persists after all of the attempts above, switching the PC's VGA card is recommended. VGA cards that use ATI chipsets are recommended for IDIS Center.
- If **Exclude proprietary viewer** option was selected when saving a recording, the proprietary viewer (IDIS player.exe) provided in IDIS Center software installation folder (\Client\selfplayer) needs to be run to play the saved video.
- The minimum operating system requirement for Fisheye Dewarping is Window Vista. Fisheye Dewarping is supported in the 1x1 layout only. You can control by clicking the right mouse button on the screen.

Save as AVI File

Saves video recording as AVI file(.avi).



- **From, To:** Enter the date and time of the recording you wish to save as video.
 - **First:** Sets date and time of the first video as the start point.
 - **Last:** Sets date and time of the last video as the end point.
 - **±1 Minute, ±3 Minutes, ±10 Minutes, ±30 Minutes, ±1 Hour:** Adds or subtracts the amount of time from the time currently selected on the timetable.
- **Self-Player, AVI:** Select **AVI**.
- **Fisheye Dewarping:** Saves the video as dewarped image displayed on the screen. This function is only activated in a single camera with the activated dewarping function. The video can be saved in panoramic or VR mode.
- **Include Audio Data:** Only a single channel is supported if the video was saved with audio.

☒ If the video is recorded at a size smaller than 1fps, saving audio may not be successful.

- **Codec, Bitrate, Quality:** Set the appropriate value for video compression.
 - **Encoding Based on Bitrate:** Encodes video based on bitrate.
 - **Encoding Based on Video Quality:** Encodes video based on video quality.
- **Size:** Set the file size for the compressed video, then select aspect ratio.
 - **Original Ratio:** Resizes camera screen to original aspect ratio of the video.
 - **Fit to Screen:** Resizes video to camera screen regardless of original aspect ratio.
 - **Fit to Screen(Aspect ratio):** Resizes video to camera screen while maintaining original aspect ratio.

☒ Up, down, left, and right parts of the video may be cropped depending on size of camera screen. When using Image Zoom, aspect ratio of camera screen does not apply and **Original Ratio** is applied.

- **Anti-Aliasing:** Removes stair step effect (blocks) that are caused when zooming a video to improve overall quality of video output.
- **Keyframe:** Set the interval of key frames for video compression.
- **Max File Size:** Set the maximum size of the file.
- **Save Split File:** If the file size of the saved recording exceeds **Max File Size**, the video is saved into multiple files while not exceeding the maximum file size.
 - ☒ If Save Split File is not enabled, output file will be limited to the maximum file size.
- **View Proceeding Frames:** Shows the current frame being saved in a popup screen while saving.
- **Include Watermark:** Saves the specified watermark with the video.

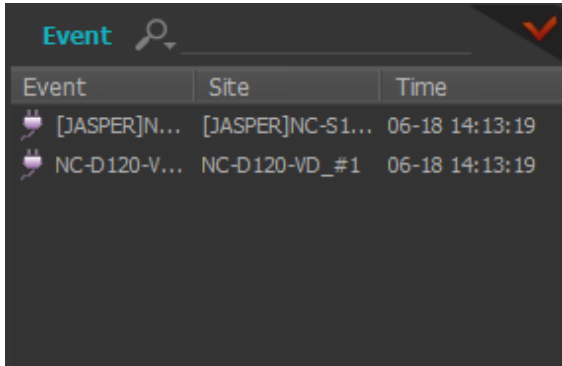
AVI File Playback

The AVI file can be played by using a video player.

☒ If the codec for the compression method used to save the AVI is not installed on the PC, the codec must be installed manually.

Event Handling

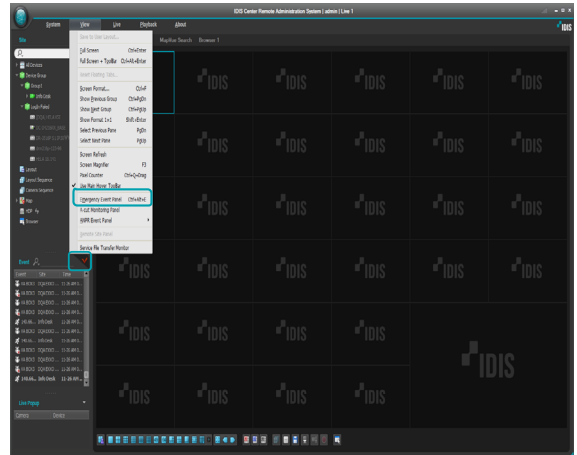
The video of the camera in which event is detected can be monitored live. If the event detection video is recorded, the video recording can be played.



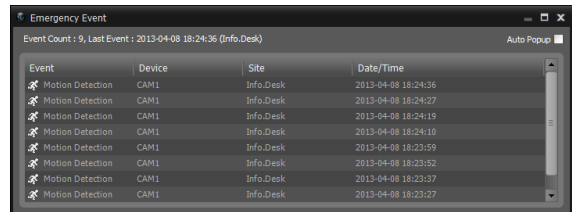
Events will be displayed on the list when Instant Event is detected on registered devices.

If Callback Event is detected on registered devices, **Emergency Event Panel** will be displayed automatically or bring up manually.

To bring up Emergency Event Panel manually, Click **View** -> **Emergency Event Panel** or Click  button on Event list.



Emergency Event Panel will be displayed.



Emergency Event list will be displayed when Emergency Event is detected.

- **Auto Popup:** Emergency Event Panel will be displayed automatically when Emergency Event is detected on client system.
- **Event Count:** Shows the count of displayed event.
- **Last Event:** Shows the information of latest Emergency Event.



Callback events are only displayed if the callback feature is enabled on the device. Event list indication options can be changed in **Settings > Report**. For more details, refer to **Report on page 43**.

Event Icons Indicated on the Event list

	Motion Detection		System Action
	Video blind		Restart
	Video loss		System shutdown
	Object detection		Malfunction in recording function
	Video-analytic detection		Disk full
	TripZone		Disk almost full
	Tampering		Bad sector on disk
	Text-in detection		Disk setting change
	Activate/Deactivate alarm-in detection		No error on S.M.A.R.T. diagnostics.
	Alarm-in error/no error		High disk temperature shown on S.M.A.R.T. diagnostics
	External storage inserted/removed		Start/end panic recording
	Device Disconnection/Device Connection Failure		Fan error / No fan error
	System boot		Face Detection
	Exceed People Limit On/Off		Exceed Time Limit On/Off
	VA Loss / No VA Loss		PIR Detection On/Off
	ANPR Detection On/Off		Auto-tracking Detection On/Off
	Main Stream Recording/Error		Sub Stream Recording/Error
	Alarm Box Error/Off		Exceed Occupancy Limit/Off
	Crowd Detections/Off		Social Distancing Violations/Off

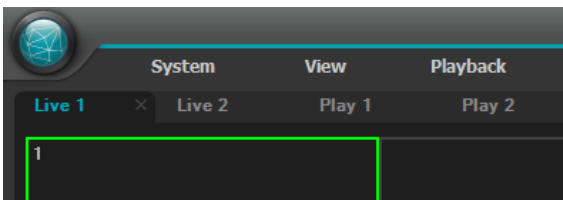
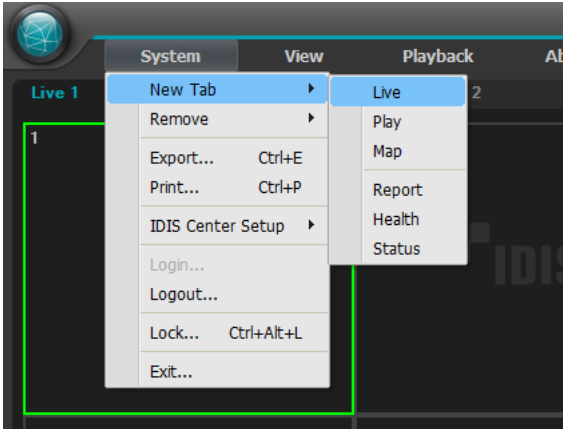
	Mask Rule Violations/Off		Queue congestion detection/Off
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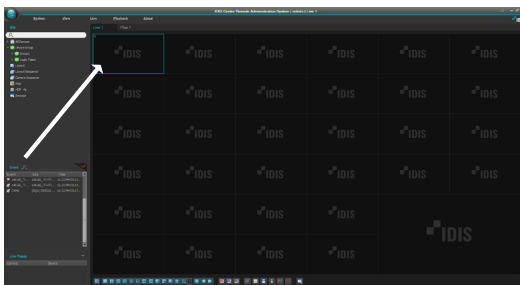
Certain event icons may not be supported depending on device's specifications and version.

Live Video

Monitoring live video from event detection cameras are supported on up to 4 Live panels. If a Live tab doesn't exist in the panel tabs, you can add them by selecting **New Tab** in the **System** menu and clicking **Live**.

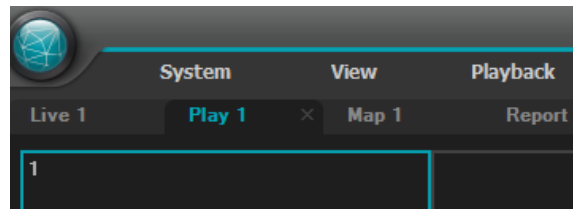
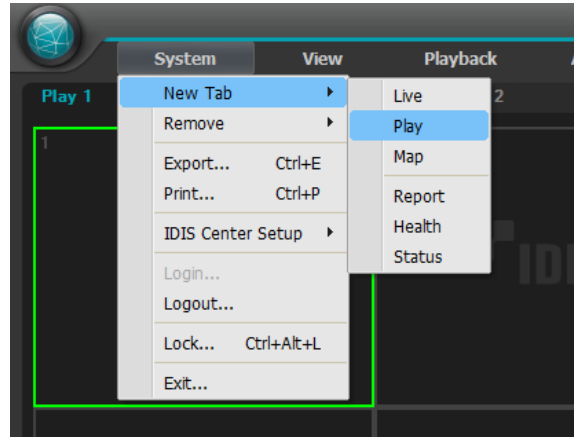


- 1 In the panel tabs, click the **Live** tab.
- 2 In the Live Event list, select an event you wish to monitor. Then, drag & drop the selected event on the Live screen using your mouse. The live video of the camera in which selected event was detected will be displayed on the screen.

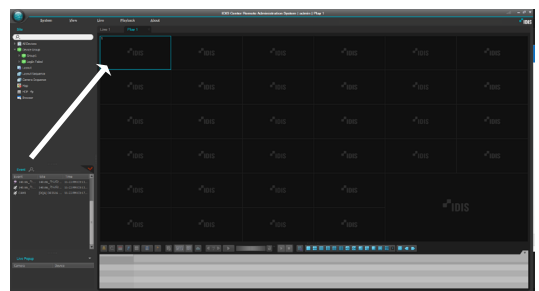


Video Playback

Playback of recorded event videos is supported in the Play panel. If a Play tab doesn't exist in the panel tabs, you can add them by selecting **New Tab** in the **System** menu and clicking **Play**.



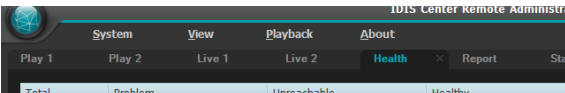
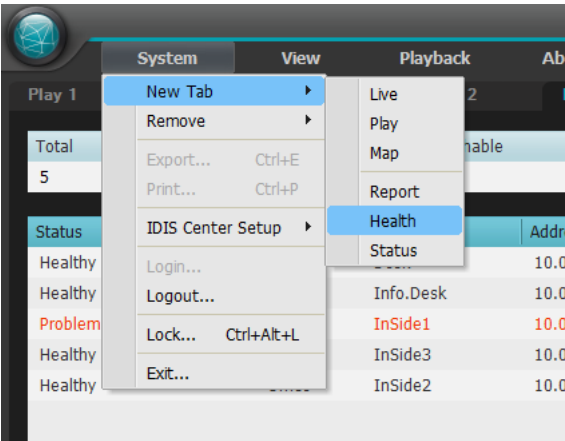
- 1 In the panel tabs, click the **Play** tab.
- 2 In the Live Event list, select an event you wish to monitor. Then, drag & drop the selected event on the Play screen using your mouse. The recorded video of the selected event will be displayed on the screen.



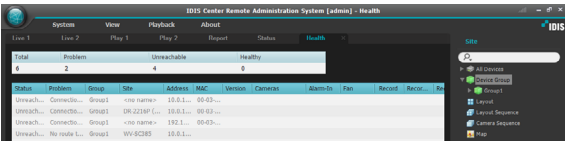
System Status Monitoring

The system status of registered devices can be monitored live.

System status monitoring is supported in the Status panel. If a Status tab doesn't exist in the panel tabs, you can add them by selecting **New Tab** in the **System** menu and clicking **Health**.



Once **Health** tab is added, the health monitoring results are automatically displayed.



- **Summarized list:** Summarizes status of all devices added to the device group.
 - **Total:** Shows the total number of devices added to all device groups.
 - **Problem:** Shows the number of malfunctioning devices.
 - **Unreachable:** Shows the number of disconnected devices.
 - **Healthy:** Shows the number of devices that are operational without malfunctions.
- **Detailed list:** Shows the status of each device in detail (The status may not be displayed depending on the device).
 - **Status:** Shows status.

Healthy	No malfunctions have been detected.
----------------	-------------------------------------

Problem	Video loss, event detection, alarm-in device error, recording error
Unreachable	Device is not connected.

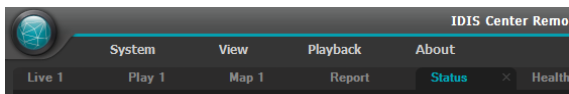
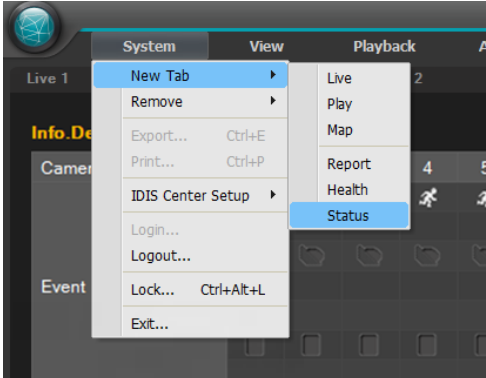
- **Problem:** Shows the cause of the malfunction.
- **Group:** Shows the device group in which the device is registered to.
- **Address:** Displays the device's IP address.
- **MAC Address:** Displays the device's MAC address.
- **Site:** Shows name of the device.
- **Version:** Shows device's software version.
- **Cameras:** Shows status of the cameras used by the device.
- **Alarm In:** Shows status of the alarm-in device used by the device.
- **Fan:** Shows fan error status.
- **Record:** Shows recording status.
- **Record Check:** Shows recording check status.
- **Record Period:** Shows recording period.

• Function buttons

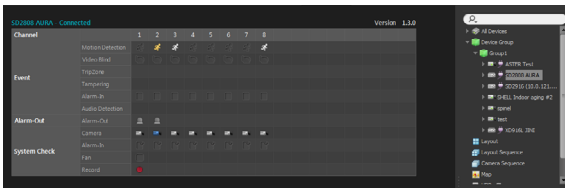
-  (Refresh): Displays the newest information of the health monitoring panel.
-  (Event Condition): Sets the conditions for events to display. The data of the health monitoring which belong to the selected condition is displayed.
-  (Save): Saves the data of the health monitoring panel in .txt, .csv, .html and .pdf formats.
-  (Full Screen): Shows the Status Panel in full screen.

Device Status Monitoring

The device status of registered devices can be monitored live. Device status monitoring is supported in the Device Status Panel. If a Device Status tab doesn't exist in the panel tabs, you can add them by selecting **New Tab** in the **System** menu and clicking **Status**.



In the **Site** list, select a device you wish to monitor. Then, drag & drop the selected device on the Device Status Panel using your mouse. The status of the selected device will be displayed.



- **Status Indicator Window:** Shows the status using icons.
 - **Version:** Shows system version.
 - **Camera:** Shows camera number
 - **Event:** Shows event detection status. Colored event icon indicates that an event was detected. When the cursor is placed over the icon, the type of the event is shown in tooltips.
 - **Alarm Out:** Shows Alarm-out status.
 - **System Check:** Shows status of device and recording function.

Function buttons

- (Disconnect): Disconnects current connections in the Device Status Panel.
- (Panic Recording): Remotely starts or stops panic recording of the device.

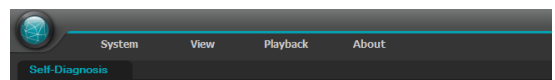
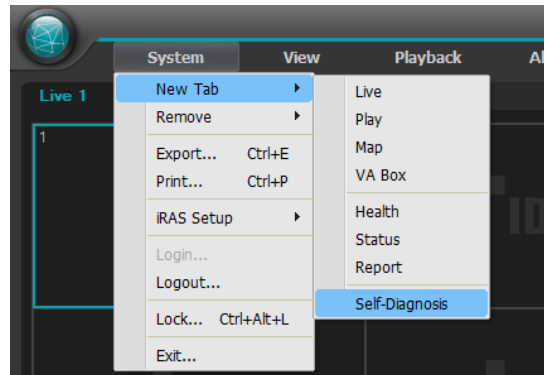


Only supported for DVRs with panic recording support.

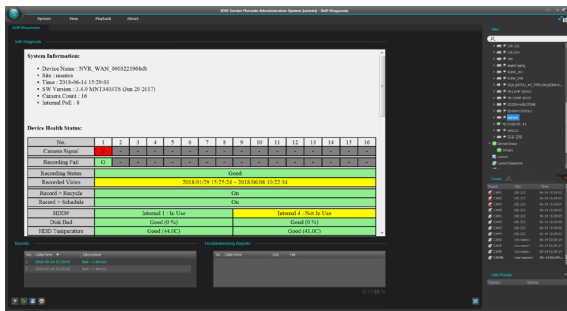
- **Rec. From/Rec. To:** Shows recording period.
- **Status:** Shows device's recording, playback, backup and clip copy statuses.
- (Full Screen): Shows the Device Status Panel in full screen.

Self-Diagnosis

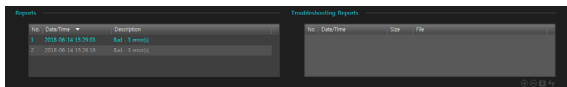
Self-diagnosis is supported for overall diagnosis and reporting of a recorder's system, network and camera status. If a Self-Diagnosis tab doesn't exist in the panel tabs, you can add them by selecting **New Tab** in the **System** menu and clicking **Self-Diagnosis**.



In the **Site** list, select a device you wish to monitor. Then, drag & drop the selected device on the Self-Diagnosis Panel using your mouse. The self-diagnosis of the selected device will be displayed.



- **Self-Diagnosis:** Shows the overall status of a recorder in a report format.



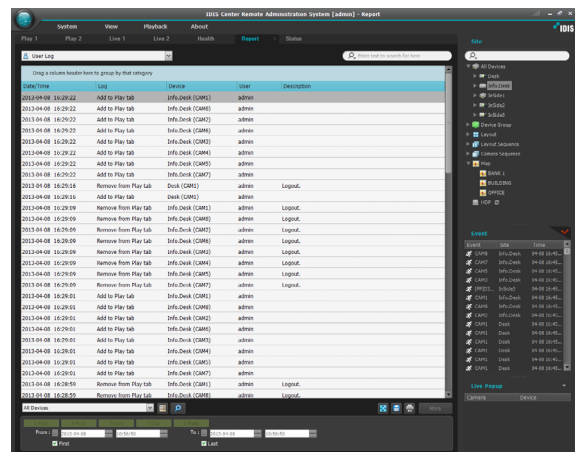
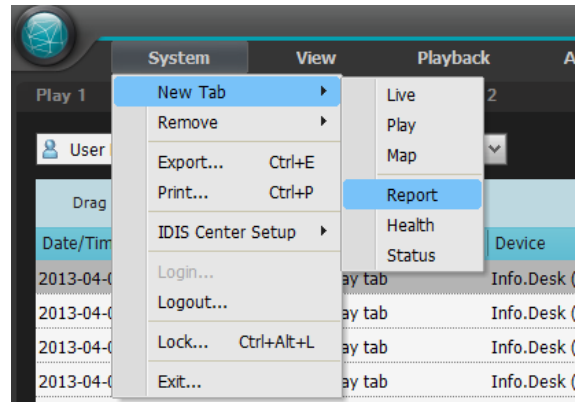
- **Reports:** Shows the results of self-diagnosis with date and summary.
- **Troubleshooting Reports:** Creates and saves a self-diagnosis report dumb file to send it to the partner site.
 - (Request Troubleshooting Reports): Creates troubleshooting reports.
 - (Delete): Deletes the selected troubleshooting report from the list.
 - (Save as File): Saves troubleshooting reports as a dumb file. After saving is complete, click Register Partner Portal and enter the partner site account if connected to the external network, to report the dump file to the partner site.
 - (Refresh): Shows the newest list of the troubleshooting reports.



- **Function buttons**
 - (Disconnect): Disconnects current connections in the Self-Diagnosis Panel.
 - (Refresh): Reloads the self-diagnosis report.
 - (Save): Saves the self-diagnosis report as an HTML file (.html).
 - (Print): Prints the self-diagnosis report.
 - (Full Screen): Shows the Self-Diagnosis panel as a full screen.

Log search

Searches the log of IDIS Center program and devices. Log search is supported in the Report Panel. If a Report tab doesn't exist in the panel tabs, you can add them by selecting **New Tab** in the **System** menu and clicking **Report**.

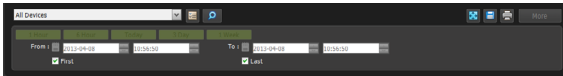


When a log list is displayed, you can right click on the column data to bring up a menu, which can be used to categorize the data to your preference.

- **Log type:** Select the type of log to search in the list.
 - **User Log:** Shows IDIS Center Program's log.
 - **Health Log:** Shows the system status log of registered devices.
 - **Device System Log:** Shows device's system log.
 - **Device Event Log:** Shows device's event log. If the device is a network camera or a network video server, only the events that occurred while SD (SDHC) Memory Card Recording feature is enabled can be searched.
 - **Admin Service Log:** Shows maintenance service log. For more information, contact your IDIS Center software retailer.
 - **Monitoring Service Log:** Shows monitoring service log. For more information, contact your IDIS Center software retailer.
-  (Search): Search log.

Report toolbar

The specific logs can be searched by using the toolbar at the bottom of the panel.



- **From, To:** Set the date and time of the logs to search for. Enter a specific date and time or select **First** or **Last** options.
 - ☒ Click the **1 Hour, 6 Hour, Today, 3 Day, or 7 Day** buttons to adjust the **From** and **To** by the amount of time that corresponds to each button.
 - Selecting the **First** or **Last** options will search every log from the oldest to the most recent.
-  (Condition): Select the type of log to search for.
-  (Search): Begin search according to the search criteria.
-  (Full Screen): Shows the Report Panel in full screen.
-  (Save): Saves the search results as a text file(.txt) or a CSV file (.csv).
 - ☒ System and service logs can be saved as password-protected HTML files (.html). Password must be entered to view HTML files.
-  (Print): Print the search result.
- **More:** Shows next results.

Browser

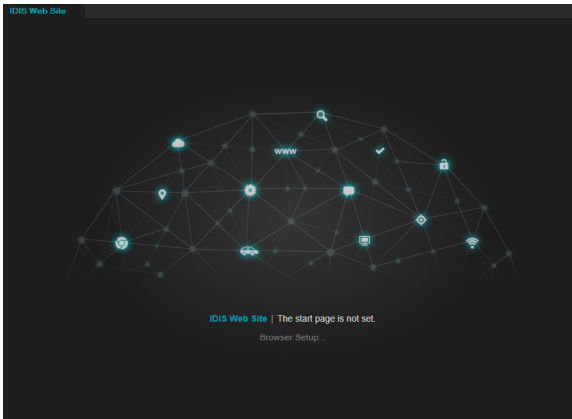
Web browser is available in the Browser panel, and panels can be added up to 8 in maximum.

Browser Screen



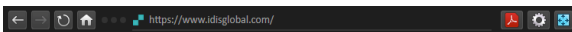
1	Browser Panel Name	Each browser panel name is displayed. Panel names are maintained for every login and different panel names can be saved for each user.
2	Browser Page	Displays a web page. Empty address displays the default page.
3	Browser Toolbar	Basic browser functions are provided.
4	Browser Device	Select System > IDIS Center Setup > Device and add browser device to the Browser under Site. Drag and drop the device to the browser page to move to the address set in the device.

Default Page



- 1 When a Browser tab is added without a start page, the default page is displayed.
- 2 Enter a blank URL in the address bar and press Enter to move to the default page. If you move to the default page with a start page set up, a message which says "Enter URL" is displayed.
- 3 Select **Browser Setup** from the default page to bring up the browser setup screen to assign the start page.

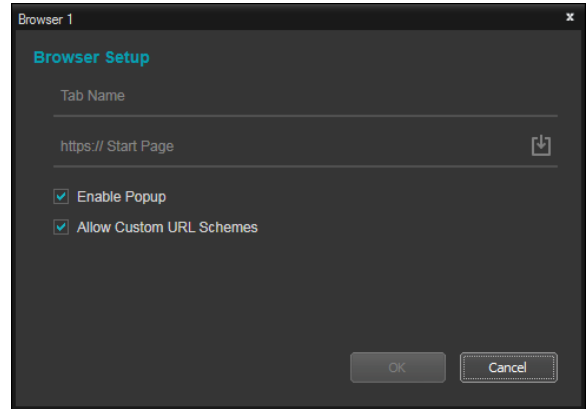
Browser Toolbar



- (Previous/Next Page): Moves to the previous/next page.
- (Refresh): Reloads the current page.
- (Stop): Stops loading a page.
- (Homepage): Moves to the set homepage.
- (URL address): Enter an address.
- (Save as PDF): Saves the current page as a PDF file.
- (Browser Setup): Configures the current browser's panel information settings.
- (Full Screen): Displays the browser panel in full screen.

Browser Setup

Configures settings of the current browser panel. Browser settings are managed for each user, and the settings are retained for relogin.

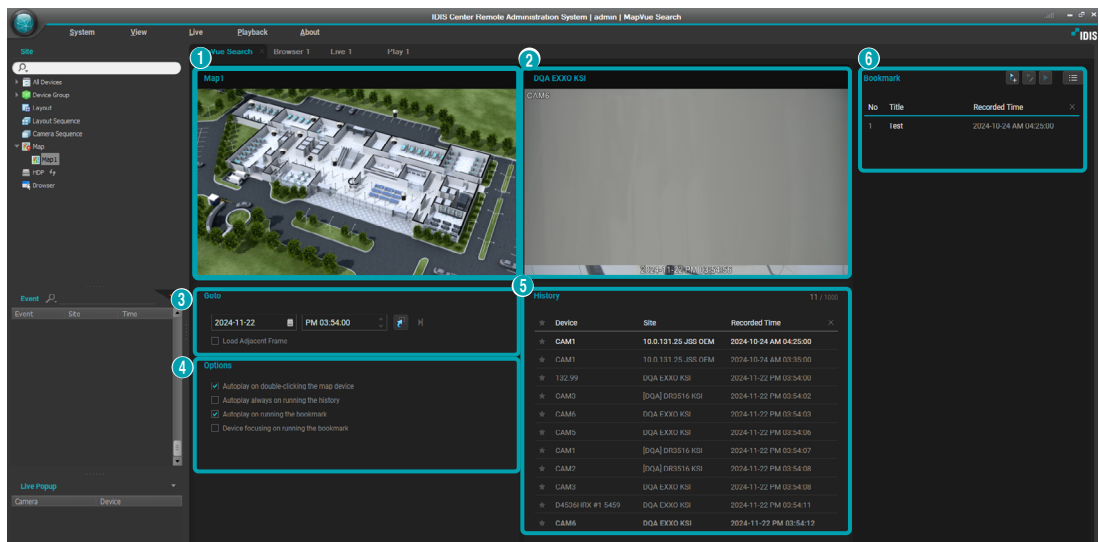


- **Tab Name:** Enter a browser tab name.
- **Start Page:** Sets the start page of the browser panel. Entering a blank URL displays the default page. Click on the (Current Page) button to set the current page URL as the start page.
- **Enable Popup:** Enables a popup in a browser page. A popup is blocked when this option is not selected.
- **Allow Custom URL Schemes:** Allows custom URL schemes to bring up a specific web page.

MapVue Search

You can search and play recorded video of a specific object, and use a map to check the location of playback device. The bookmark feature can build up a scenario to track the object's actions and movements. MapVue search is supported on the MapVue Search panel. Select **New Tab** from the **System** menu and click **MapVue Search** to add a tab.

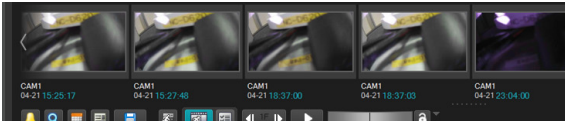
MapVue Search Screen



1	Map	Monitors the status of registered devices on a map.
2	Playback Screen	Plays all of recorded data related to MapVue search.
3	Goto	Searches video of specific date and time.
4	Options	Select map/playback options.
5	History	Displays history of camera registration and recorded time of the playback screen
6	Bookmark	Saves map and playback video of selected time as bookmarks.

☒ You can adjust the size of each section by dragging the corner.

MapVue Search Toolbar



- (Open MapVue Search File): Opens a MapVue Search data file. The current MapVue Search status of the data file is applied. Click the arrow button to display the list of recently opened MapVue Search files.
- (Save MapVue Search File): Saves the current MapVue Search file.
- (Save MapVue Search File As): Saves the current MapVue Search file with a different name or location.
- (Save As Excel): Saves the bookmark data as an Excel file.
- (Close MapVue Search File): Initializes all of the data.
- (Full Screen): Displays the MapVue Search panel in full screen.

Device Registration and Recorded Video Playback

Drag&drop a device from the site tree to the map section to register a map. For the playback screen, you can register the camera devices from the map and devices from the site tree by drag&drop. When the MapVue Search panel is activated, double-click on a device of the site tree to easily register the device.

Map

Monitors the status and location of the registered devices, and tracks the movement of an object. It supports all of features from **Map Monitoring on page 60** and **Map Control on page 75** except for Event Action of Map Monitoring. Double-click on the device to display the recorded video on the playback screen.

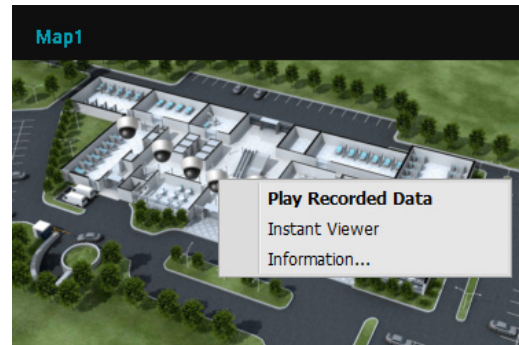


The background of the device blinks when the bookmark or history is played.



Device Context Menu

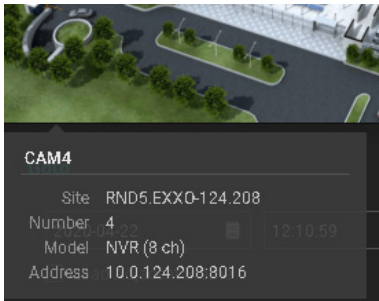
Use the context menu to check the device or playback status.



- **Play Recorded Data:** Displays the recorded data of the device on the playback screen.
- **Instant Viewer:** Displays a popup with a real-time monitoring video.
- **Information:** Displays the device status information.

Device Tooltip

Brief device information is displayed in a tooltip when you put a cursor on a device.

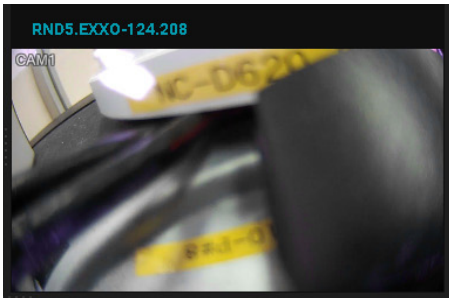


- **Device Name:** Displays the selected device name.
- **Site:** Displays the name of the highest device that includes the selected device on the site tree.
- **Number:** Displays the channel number.
- **Model:** Displays the model type or name of the site device.
- **Address:** Displays the address and port number of the site device.

Playback Screen

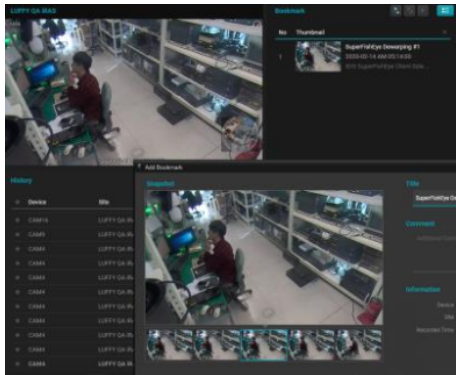
Plays the recorded video from the MapVue Search. Use a control toolbar to use **Recorded Video Playback on page 81** features. You can switch to 1x1 screen layout by a double-click on the playback screen.

- ☒ • The device cannot be simultaneously registered on the Play panel and MapVue Search panel.
- Use the context menu to add history and bookmark.



ROI Connection

Connect the Region Of Interest (ROI) of the registered camera video on the playback screen to use the features.



For fisheye cameras, the displayed screen becomes the ROI when ePTZ is on by the dewarping function (Client-Side Dewarping). For general cameras, the displayed screen becomes the ROI when the dynamic zoom function is activated.

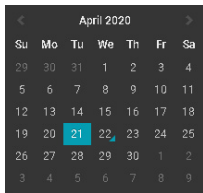
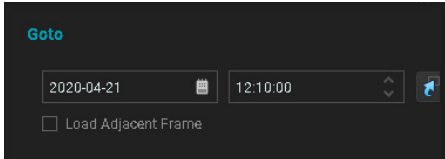
When saving history/bookmark, ROI is saved and the backed up ROI is displayed for the playback. Bookmark snapshots and thumbnails of the dewarping video are saved as ROI images. If the dewarping mode is select mode or spot mode, the selected ROI pane is used as the bookmark image.

- ☒ The ROI connection is effective for fisheye camera videos and high resolution videos such as UHD.

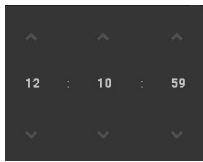
Goto and Options

Goto

You can search for the specific time of the recorded video on the playback screen.



<Calendar Widget>

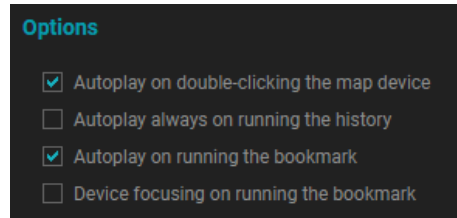


<Time Widget>

- (Move Time): Displays the recorded video of date and time selected on the playback screen.
- (Move To Last): When the dynamic zoom function is on, the displayed image becomes the ROI.
- **Load Adjacent Frame:** Displays the most adjacent frame if there is no available image for the selected time.
- **Date/Time:** Select date and time to search the image. You can use mouse wheel, number keys and arrow keys to enter the date/time. Click the button or right mouse click on the date to bring up the calendar widget, and right mouse click on the time to bring up the time widget.

Options

Select MapVue Search playback and map options.

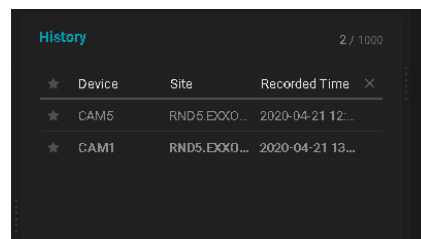


- **Autoplay on double-clicking the map device:** Select to register on the playback screen and automatically play when you double-click the map device.
- **Autoplay always on running the history:** Select to play the video at the same time the recorded video is registered on the playback screen.
- **Autoplay on running the bookmark:** Select to register the recorded image on the playback screen and automatically play when you run the bookmark.
- **Device focusing on running the bookmark:** Select for device focusing on the map when you run the bookmark.

History

Registering camera devices on the playback screen or moving to other recorded time are added to the History section. You can track the past search history and register to the bookmark.

History List



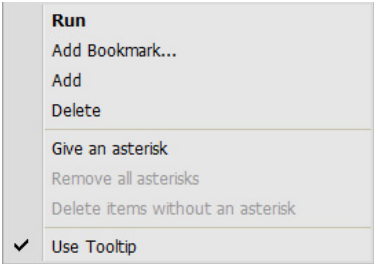
Time search from the Goto section and time table search are added to the History list. Running thumbnail search or event search results adds to the History list as well. A history item is added to the end of the list and the scroll automatically moves to the added item unless another selected item is being played.

The number of current and maximum history items is displayed on the right top of the list. If the number of items exceeds the maximum number (up to 1000), the oldest item is automatically deleted.

Inaccessible devices or deactivated devices are colored dark and cannot be played.

Context Menu

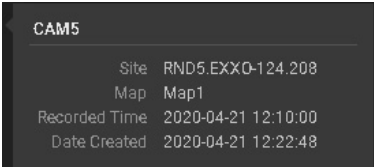
Mouse right click on the History item to bring up the following context menu.



- **Run:** Displays the recorded data of the device from the History list on the playback screen.
- **Add Bookmark:** Adds the history to the bookmark.
- **Add:** Adds the current MapVue Search history under the selected item on the list.
- **Delete:** Deletes the selected item.
- **Give an asterisk:** Gives an asterisk to the selected item.
- **Remove all asterisks:** Removes all asterisks from the items with an asterisk.
- **Delete items without an asterisk:** Deletes all of the items without an asterisk.
- **Use Tooltip:** Select to use a tooltip for the History list.

History List Tooltip

Hover a mouse cursor on a History item to bring up the information in a tooltip.



- **Device Name:** Displays the selected device name.
- **Site:** Displays the name of the highest device that includes the selected device on the site tree.
- **Map:** Displays the map device connected to the selected device.

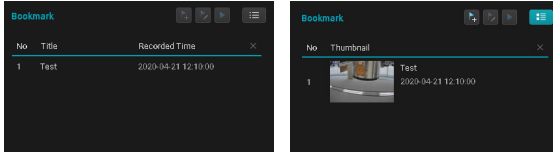
- **Recorded Time:** Displays the recorded time of the image of the selected device.
- **Date Created:** Displays the date and time when the History item was added.

List Item Control

- **Add History:** Select **Add History** from the playback screen context menu, or select **Add** from the History context menu to add a history according to the current playback status and time. Map device information is also saved if the playback device is connected to the registered map device. When the items are listed with the **Sort by asterisk** filter, a history item is added with an asterisk when a user manually adds one.
- **Delete History:** Select **X** (Delete) button from the History list or select **Delete** from the context menu. The **X** (Delete) button is displayed when you put a mouse cursor on a History item. Click the  button on the top right of the list to delete all of History items.
- **Run History:** Double-click on the History item or select **Run** from the context menu to run a history. When you run the history, the camera is registered and the selected time data is displayed on the playback screen. The history with map device information registers the map device on the map section. Double-click on the map device with the **Autoplay on double-clicking the map device** option or select **Play Recorded Data** from the Map context menu to add a history item with automatic playback.
- **Asterisk Option:** An asterisk feature is for managing priority of history items. Click the  button on the left of each history item to enable/disable an asterisk. Select the  (Sort by asterisk) button on top of the history list to filter items with an asterisk only (). The History context menu suggests asterisk options: **Give an asterisk**, **Remove all asterisks** and **Delete items without an asterisk**.

Bookmark

You can add the current status of MapVue search or history to the bookmark. Bookmark recorded video and route of the specific object to form up a scenario. Bookmarks can be saved as Excel files.



<List Mode>

<Thumbnail Mode>

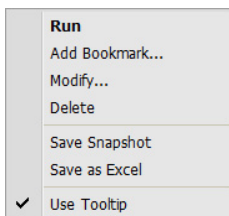
- (Add Bookmark): Adds the current MapVue search status to the bookmark.
- (Edit Bookmark): Edits the bookmark information.
- (Run Bookmark): Displays the selected bookmark's map and recorded data on the screen.
- (Thumbnail List): Displays the bookmark list with thumbnails.



Inaccessible devices or deactivated devices are colored dark and cannot be played.

Context Menu

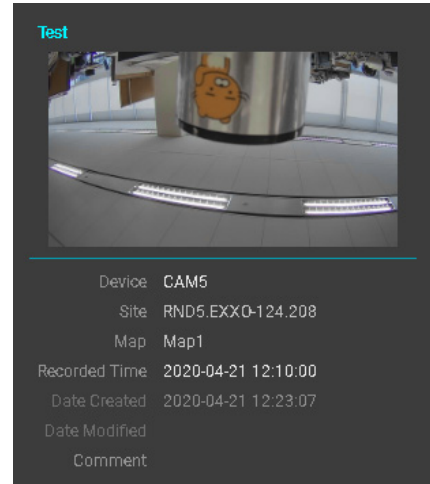
Mouse right click on the Bookmark item to bring up the following context menu.



- **Run:** Displays the selected bookmark's map and recorded data on the screen.
- **Add Bookmark:** Adds the current MapVue search status to the bookmark.
- **Modify:** Edits the bookmark information.
- **Delete:** Deletes a bookmark.
- **Save Snapshot:** Saves a thumbnail saved in the bookmark as a file.
- **Save as Excel:** Saves the bookmark list information as an Excel file.
- **Use Tooltip:** Select to use a tooltip for the Bookmark list.

Bookmark List Tooltip

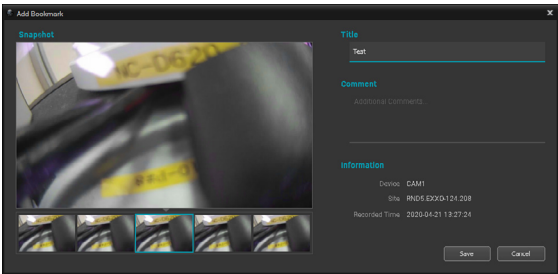
Hover a mouse cursor on a Bookmark item to bring up the information in a tooltip.



- **Title:** Displays the selected bookmark name.
- **Thumbnail Image:** Displays a playback screen snapshot of the time (± 2 seconds) when the bookmark was created.
- **Device:** Displays the device name of the selected bookmark.
- **Site:** Displays the name of the highest device that includes the selected device on the site tree.
- **Map:** Displays the registered map device included in the bookmark.
- **Recorded Time:** Displays the recorded time of the video.
- **Date Created:** Displays the date and time when the bookmark was created.
- **Date Modified:** Displays the latest date when the bookmark information was modified.
- **Comment:** Displays a comment that describes the bookmark.

List Item Control

- **Add Bookmark:** Select the  (Add Bookmark) button at the top of the bookmark list, or **Add** from the bookmark list context menu, or **Add Bookmark** from the playback screen context menu to add the current map and playback status to the bookmark. Select **Add Bookmark** from the History list context menu, or drag&drop a history item to the Bookmark list to add as a bookmark (up to 1000 bookmarks). When adding a bookmark, the following window is displayed. An item is created on the Bookmark list after configuring the setting.



- **Snapshot:** Displays the selected image from the thumbnail list. Thumbnails show images of recorded time in the range of -2 sec, -1 sec, 0 sec, +1 sec, +2 sec.
- **Title:** Enter the bookmark title (up to 64 characters).
- **Comment:** Enter the bookmark description (up to 256 characters).
- **Information:** Displays the device, site and recorded time of the bookmark.
- **Run Bookmark:** Select the  (Run Bookmark) button, or double-click on the bookmark item, or select **Run** from the context menu to load the map and recorded data of the bookmark. If the **Autoplay on running the bookmark** option is enabled, the bookmark automatically plays the recorded data. If the **Device focusing on running the bookmark** option is enabled and a map device is connected to the playback screen, the device focusing is automatically activated. Drag&drop the bookmark item to the playback screen to register the device and play the recorded data.
- **Edit Bookmark:** Select a bookmark and click the  (Edit Bookmark) button at the top of the bookmark list, or select **Modify** from the context menu to edit the bookmark information.

- **Delete Bookmark:** Select **X** (Delete) button from the Bookmark list or select **Delete** from the context menu. The **X** (Delete) button is displayed when you put a mouse cursor on a bookmark item. The popup window is displayed when you select **Delete**, and press Shift and Delete to delete the item without the popup window. Click the  button on the top right of the list to delete all of bookmark items.
- **Arrange Bookmark List:** Drag&drop the bookmark list item within the Bookmark section to rearrange. Press Ctrl and drag the item, and drop it on the Bookmark list area to switch the position in the list. Click the name at the top of the bookmark list to arrange the items in ascending/descending order.
- **Save Bookmark as an Excel file:** You can save the bookmark list information as an Excel file. Select the  (Save As Excel) button on the MapVue Search toolbar, or Save as Excel from the context menu.

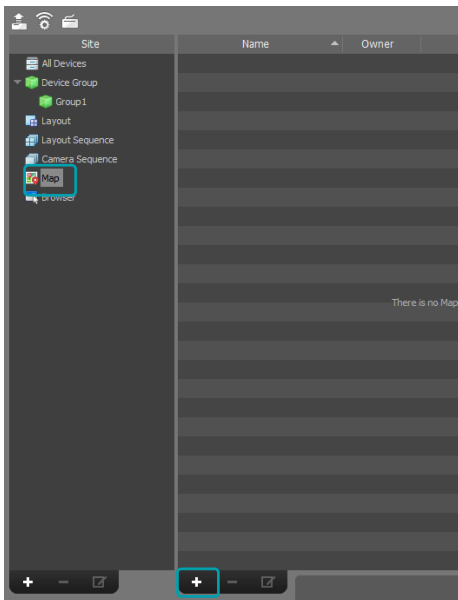
Excel File Exporting Test				
No	Snapshot	Title	Recorded Time	Site
1		Thumbnail List Mode Test	2019-12-08 AM 11:50:25	LUFFY QA IRAS
2		Delete Test	2019-12-05 AM 10:54:06	RND5 EXXD-124.208

Map Editor

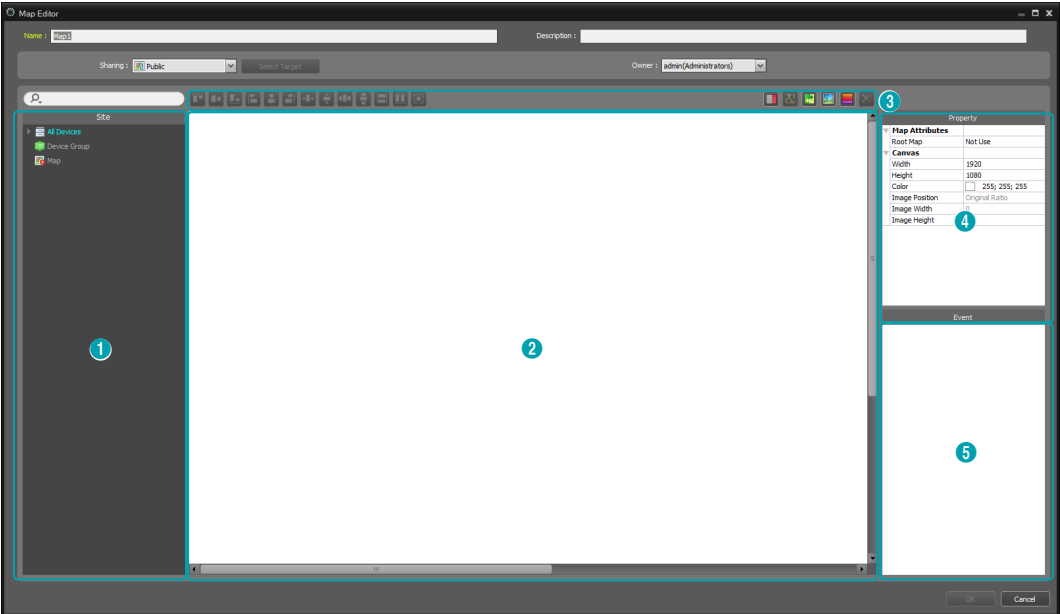
By registering a map, camera videos, events, and status of connected I/O devices can be monitored on a map.

Map Registration

- 1 Select **Setup** in **System** menu and select the **Device** menu.
- 2 On the **Site** panel, click on **Map**, then click on the **+** button at the bottom of the Sites List panel on the right. A **Map Editor** window will appear on the screen.
- 3 On the **Site** panel, select the I/O devices connected to the device and subordinate map. Then, drag & drop them to the desired position on the canvas.
- 4 Configure the map.
- 5 Enter a name for the map and click **OK** to complete map registration.
- 6 On the **Site** panel, click on **Map**, then click on the **+** button at the bottom of the Site panel on the left. An **Add Map Group** window will appear on the screen.



Map Settings



1	Site	Shows a list of registered devices and maps. Registered devices and maps can be searched by typing search query in the  field.
2	Canvas	Create a map by inserting a background image and positioning desired I/O device icons and map links from the Site List.
3	Settings Buttons	Configures the map. • Alignment: The I/O device icons or map links positioned on the canvas can be aligned to user's preference. •  (Text box): Inserts a text-box for entering text. •  (Route sequence): Sets route sequence. •  (Map object name sync): Automatically syncs names of I/O devices depending on the devices' settings. •  (Insert background image): Inserts a desired background image to the canvas. •  (Status color): Designates colors to indicate event detection and I/O device status on the map. •  (Delete): Select I/O device icons or map links you wish to delete from the canvas and click the Delete button to delete the selected I/O device icons or map links from the canvas.
4	Properties	Sets the properties of map, the canvas of the map, and I/O device icons or map links positioned on the canvas.
5	Event Action	Set the event action for the I/O device icons positioned on the canvas. When an event is detected on the map, the user is notified by the defined actions.

Icon Alignment

After selecting more than one I/O device icon or map link, you can click the Align buttons to modify their position on the canvas and size at once.



- / (Positioning): Aligns one or more icons to the horizontal / vertical center of the background image.
- / , / , / (Positioning): Aligns two or more icons based on the icon that was selected last.
- / (Spacing): Adjusts the spacing between three or more selected icons to be regular.
- / / (Resizing): Resizes the width / height / size of two or more selected icons to be the same. Only applies to same types of icons with different width and height ratios.

Properties

The properties of canvas, I/O device icons or map links on the canvas can be set. After selecting a canvas, an icon or a map link, select each property, and manually enter the desired value or select a desired value from the drop down menu.

Property	
▼ Map Attributes	
Root Map	Not Use
▼ Canvas	
Width	1920
Height	1080
Color	255; 255; 255
Image Position	Original Ratio
Image Width	0
Image Height	0

Property	
▼ General	
Name	CAM1
Icon	Camera
Ratio	75
X Coordinate	130
Y Coordinate	289
Width	48
Height	48
Halo effect	Not Use
Camera View	Not Use
▼ Information	
Name	CAM1
Site	<no name>
IP Address	NVR_WAN_00032260D5
Number	1

Property	
▼ General	
Name	Map1
X Coordinate	113
Y Coordinate	190
Width	128
Height	32
▼ Fill	Use
Icon	Use
Font Size	8
Font Style	Regular
Text Color	255; 255; 255
Background Color	85; 110; 215
Opacity	80
Align Text	Left
▼ Information	
Name	Map1

Property	
▼ General	
X Coordinate	583
Y Coordinate	324
Width	126
Height	81
▼ Text	
Text	test
Font	Microsoft Sans Serif
Font Size	9
▶ Text Color	0; 0; 0
▶ Background Color	255; 255; 255
▶ Margin	2; 2; 2; 2
Align Text	Left, Top
Bold	Not Use
Italic	Not Use
Underline	Not Use

- **Map Attributes:** Sets the map properties. When **Root Map** is set as **Use**, a list of devices registered to the map is displayed on the right-hand side of the Map Panel when monitoring a map.



Only applies to Map Panels.

- **Canvas:** Sets the properties of canvas or background image inserted to the canvas.
 - **Width, Height, Color:** Sets the width, height, and color of the canvas.
 - **Image Position:** Sets the position of background image inserted to the canvas.
 - **Information:** Shows the width and height of the background image inserted to the canvas.
- **Device:** Sets the properties of selected I/O device icon.
 - **Name:** Sets the name of the device icon.

- **Icon, Ratio:** Sets the shape and ratio of the device icon.
- **X Coordinate/Y Coordinate, Width/Height:** Sets the position and size of the device icon. These values can be adjusted by dragging the icon on the canvas with your mouse.
- **Associated Camera:** Cameras can be connected to a device. When a camera is connected, the video from the connected camera can be watched when the event is detected. Map link can be set for an alarm-in device.



Only supports Alarm-in or Audio Input devices.

- **Halo effect:** Sets background color of an icon for locating the icon easier on the map.
 - **Camera View:** Configure viewing angle, pan, and distance.
-  Only supports camera devices.
- **Information:** Shows the device information.
 - **Map link:** Sets the properties of the selected map link.
 - **Name:** Sets the name of the map link. The name entered is displayed on the map link.
 - **X Coordinate/Y Coordinate, Width/Height:** Sets the position and size of the map link. These values can be adjusted by dragging the map link on the canvas with your mouse.
 - **Text Color, Background Color:** Sets the font color and background color of the map link.
 - **Opacity:** Sets the opacity of the background color of the map link.
 - **Align Text:** Aligns the text of the map link.
 - **Information:** Shows name of the map.
 - **Text Box:** Sets the properties of the selected text box.
 - **Text:** Sets text. The set text is displayed on the map.
 - **Font, Font Size:** Sets font and font size.
 - **Text Color, Background Color:** Sets the font color of the text and background color of the text box.
 - **Align Text:** Aligns text.
 - **Bold, Italic, Underline, Strikethrough:** Applies bold, italics, underline or strike-out to the text.
 - **X Coordinate/Y Coordinate, Width/Height:** Sets the position and size of the text box. These values can be adjusted by dragging the text box on the canvas with your mouse.

Path Sequence

By setting a sequence route, videos from multiple cameras can be monitored sequentially on the same camera screen when using Map monitoring. A path sequence must be registered to each camera on the canvas to use.

- 1 Click the  (Path Sequence) button.
- 2 On the canvas, click on the camera icons in the order you wish to monitor them.
- 3 Complete path selection by right-clicking your mouse. Once a path is set, select the path and set the properties.

Property	
▼ General	
Name	Path Sequence 1
▼ Path Sequence	
Color	 5; 159; 175
Opacity	80
Width	5
Shape	Ellipse
Background Color	 0; 241; 252
Opacity	65
Reverse	
▶ Margin	4; 4; 4; 4
▼ Associated Device	
▼ CAM1	Disconnect
Duration	20
▼ CAM2	
Duration	20

- **Name:** Sets the name of the path.
 - **Color/Opacity/Width:** Set the color/opacity/width of the path displayed on the map.
 - **Shape:** Set the shape of the icon for identifying the camera when a video from a path sequence camera is displayed while monitoring a map.
 - **Background Color/Opacity/Margin:** Set the color/opacity/margin of the icon displayed when a video from a path sequence camera is displayed while monitoring a map.
 - **Reverse:** Changes direction of the path.
 - **Associated Device:** Shows a list of cameras selected for path sequence. When monitoring a map, the path sequence will show the videos from each camera in the defined order for the **Dwell Time** value.
- 4 By selecting a camera from the list and clicking **Remove**, the camera can be removed from the path sequence.

Event Action

Sets the event actions to be performed when events are detected in the I/O devices positioned on the canvas. Select an icon, item, and select the desired value from the drop down menu.

Event	
▼ Action	
▼ Click	
Instant Viewer	Use
Device Information	Not Use
▼ Action	
▼ Motion Detection	
Live Popup	Not Use
Event Sound	Not Use
Event Spot	Use
▼ Object Detection	
Live Popup	Not Use
Event Sound	Not Use
Event Spot	Use
▼ Video Loss	
Live Popup	Not Use
Event Sound	Not Use
▼ TripZone	
Live Popup	Not Use
Event Sound	Not Use
Event Spot	Use
▼ Tampering	
Live Popup	Not Use

- **Click:** You can configure event actions so that clicking the device icon on the map brings up Instant Viewer window. If the device is the alarm-out device, you can configure it so that clicking the icon activates or deactivates the alarm and delays activation/deactivation during the specified time.
- **Motion Detection, Object Detection, Video Loss, Video Blind, Alarm In, etc:** Set or cancel the actions to be performed when each event is detected.
 - **Live Popup:** Pops up the video of the camera (a connected camera if the device is not a camera).
 - **Event Spot:** Shows the video of the camera (a connected camera if the device is not a camera) on the Event Spot Screen.
 - **Event Sound:** Plays audio if audio file(.wav) is selected.



- If the map is configured to ignore event actions of I/O devices, the event actions will not be performed regardless of the settings in this window.
- To change settings to ignore event actions, right-click on the Map I/O Device and select **Ignore Event Action**.

VA Dashboard

The information of violations and events detected from a VA device is displayed in a dashboard format. Up to 4 sites can be searched and displayed with results. Select **New Tab** from the **System** menu and click **VA Dashboard** to add a tab.

VA Dashboard Screen



1	Page Name	Displays the current page name. Click the  (edit) button or double-click to edit the name. The page name is maintained until the next login.
2	Search Range Setup and Menu	Set up the search range selecting between the preset or user custom options. Click the  (menu) button to use actions related to the current page.
3	Violations	Displays violation information within the search range and a graph visualizing the violation trend.
4	Events	Displays detected events and items within the search range as a graph and a list.
5	Site Panel Title Bar	Displays the registered site name and setting buttons of the site panel. When the site panel is folded, the summary of violation information is displayed.



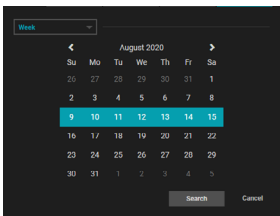
You can adjust the size of each section by dragging the size adjust bar between the violations and events sections.

Search Range

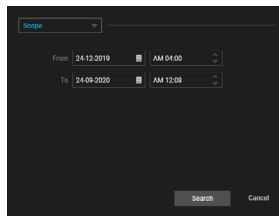
You can set the scope of search between the preset mode and the user custom mode.



- **Today:** Searches for today's data.
- **This Week:** Searches for this week's data including today. You can select the starting day of a week from **System > Setup > System > Date/Time**.
- **This Month:** Searches for this month's data including today.
- **Custom:** A user can select the search range. Select from the calendar by **Day, Week, Month**, or enter **From/To** range under **Scope**.



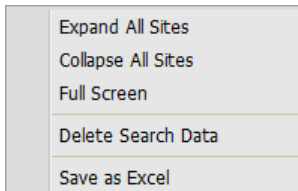
Search by Week



From/To Search

Page Menu

Functions which can be applied to the page or the whole site pnael are provided.



- **Expand All Sites:** Expands all of site panels.
- **Collapse All Sites:** Collapses all of site panels.
- **Full Screen:** Displays the current page in full screen mode.
- **Delete Search Data:** Deletes the search data of all site panels.
- **Save as Excel:** Saves violation and event information of all site panels as an excel file.

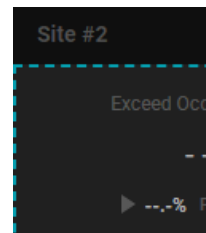
Site Panel Toolbar

Actions and settings of the site panel can be controlled.

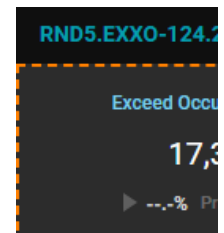
- (Refresh): Reloads data of the site panel.
- (Stop Search): Stops the data search. Search results before the pause are displayed on the panel.
- (Save as Excel): Saves violation and event data as an excel file.
- (Delete Search Data): Deletes all search results displayed on the site panel.
- (Unregister Site): Disconnects the registered site.
- (Settings): Configure the site panel settings.
- (Collapse/Expand): Collapses or expands the site panel.

Registration and Search

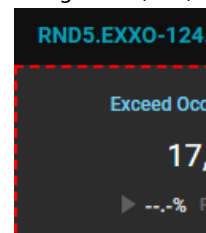
- 1 Select a device from the **Site** list and drag to the device site panel. Depending on whether or not a site can be registered, the border color is displayed in the site panel as the following.



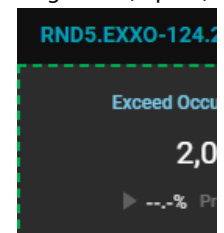
Registrable (New)



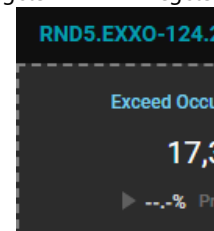
Registrable (Replace)



Unable to Register



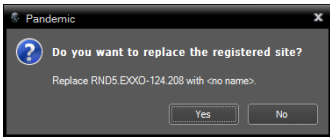
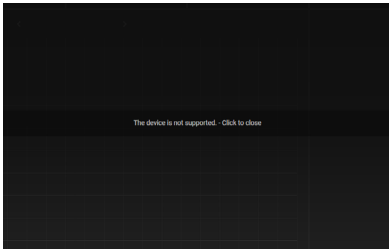
Register while Searching



Same Site or Re-register

2 If you drag and drop a site which cannot be registered, a notifying message pops up on the site panel. If you drop a registrable site on the panel with already registered site, a message pops up which asks if you would like to replace.

- ☒ If the panel is during search or attempts to register the same site, the action is ignored.



3 When a site is registered on the site panel, the site name is displayed and the  (Unregister Site) button and the  (Settings) button are activated.

- ☒ If more than one site are available, the search section is activated.

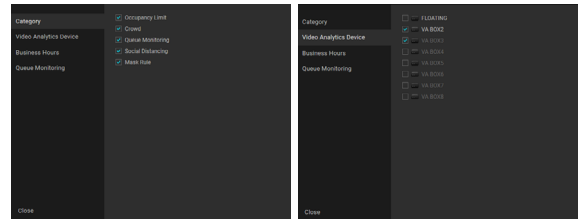
4 Select the scope of search to start data search. Select from **Today**, **This Week**, **This Month** or click **Custom** to designate the search range and click **Search**. The search range is displayed on the left. If no data is available within the search range, the "There is no video analytics data" message is displayed on the site panel.

5 Once the search is complete, a graph illustrating violation/event information and violation trend.

6 Click the  (Unregister Site) button to disconnect the registered device from the site panel.

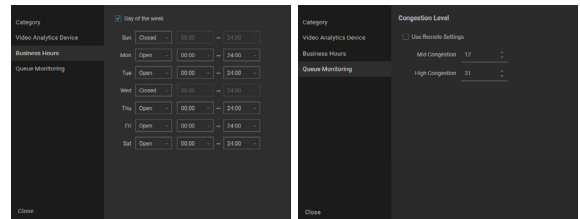
Site Panel Setup

Configure the site panel settings. Click  (Settings) from the site panel toolbar to bring up the setup window.



Category

Video Analytics Device



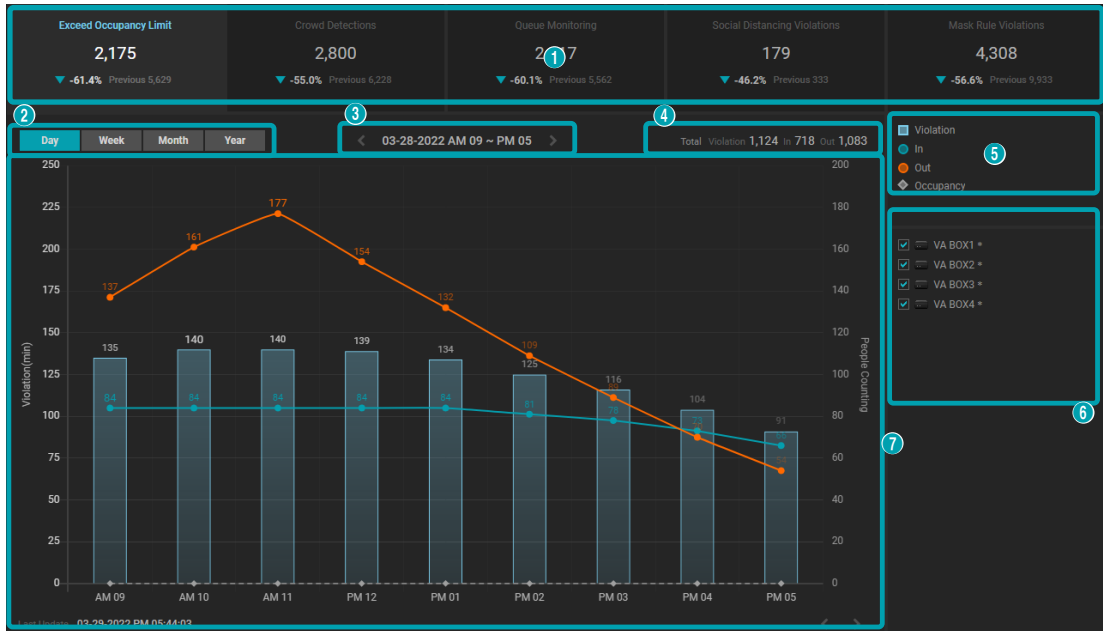
Business Hours

Queue Monitoring

- **Category:** Select the data to display on the dashboard.
- **Video Analytics Device:** Select a video analytics device for data search.
- **Business Hours:** Set up the time range in which data is displayed. Select **Day of the week** to configure time for each day. Select **Closed** under the **Day of the week** option to exclude the selected day.
- **Queue Monitoring:** Set the medium or high congestion level for queue monitoring. Enabling **Use Remote Settings** will use the medium or high congestion level set on the recorder.

Violation

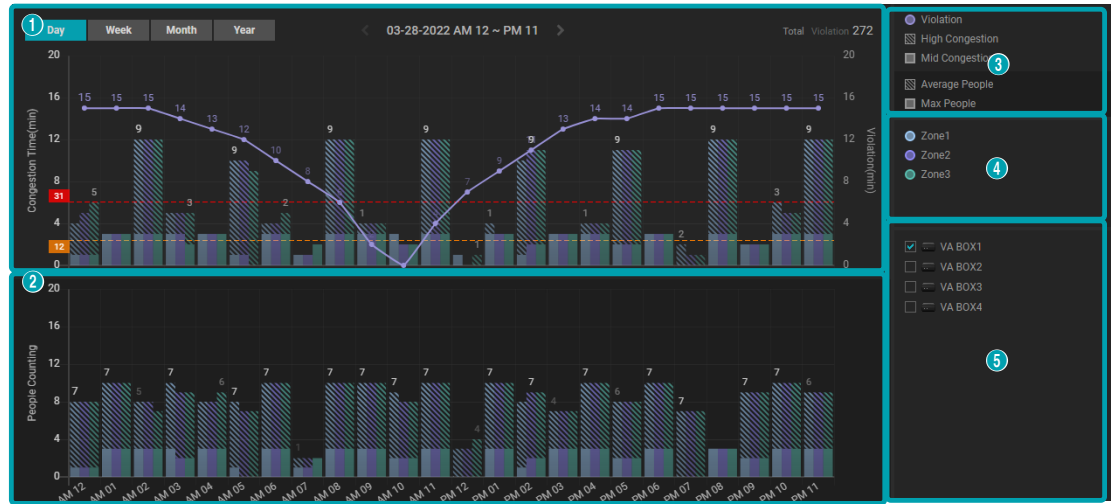
The violation (Exceed Occupancy Limit, Crowd Detections, Queue Monitoring, Social Distancing Violations, Mask Rule Violations) search results are displayed.



1	Violation Data File	Displays the searched violation information according to categories. Clicking a tile displays each violation trend on the graph, and clicking the selected tile again displays the violation trend of all categories.
2	Unit of Time	Select the value for the x-axis of the graph. Day: Displays data for a day, up to 24 hours on an hourly basis. Week: Displays data for a day, up to 7 days on a daily basis. Month: Displays data for a month, up to 31 days on a daily basis. Year: Displays data for a year, up to 12 months on a monthly basis.
3	Graph Time Range	Displays the time range of the data on the graph. Click to change the date/time of the graph.
4	Total Data Value	Indicates the total sum of values displayed on the graph for each category.
5	Legend	Indicates the data displayed on the graph. Click to toggle on/off. ☒ The legends for Crowd Detections, Social Distancing Violation and Mask Rule Violation are not displayed, since each has only one legend.
6	Video Analytics Device List	Displays data of selected video analytics devices on the graph.
7	Graph	Displays violation data and additional data as a bar or line graph. ☒ The additional violation data is as the following: - Exceed Occupancy Limit: In/Out/Occupancy - Queue monitoring: Mid/High Congestion, Average/Maximum Number of People

Queue Monitoring Graph

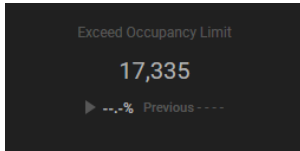
Queue monitoring simultaneously displays the congestion graph and the number of people graph.



1	Congestion Graph	Displays the time for crossing the congestion level. - Normal bar: Indicates medium congestion times. - Shaded bars: Indicates high congestion times. - Line: Indicates the violation time. - Orange/Red dotted line: Indicates medium/high congestion level. Dotted line is not displayed when Use Remote Settings is checked in Graph Settings > Queue Monitoring > Congestion. - Upper bar value: High congestion time represents the largest value among the zones at the same time. If High Congestion is disabled, the Medium Congestion Time represents the largest value.
2	People Counting Graph	Displays the number of people data. - Normal bar: Indicates the average number of people. - Shaded bar: Indicates the maximum number of people. - Upper bar value: Indicates the highest average number of people among the districts at the same time. If the average number of people is disabled, the maximum number of people indicates the largest value.
3	Congestion/People Legend	Displays a legend for the Congestion/People Graph. Click to select whether or not to display each item.
4	Zone Legend	Indicates the area to display the Congestion/People Graph. Click to select an area to display on the graph.
5	Video Analytics Device List	Displays data of selected video analytics devices on the graph.

Violation Data Tile

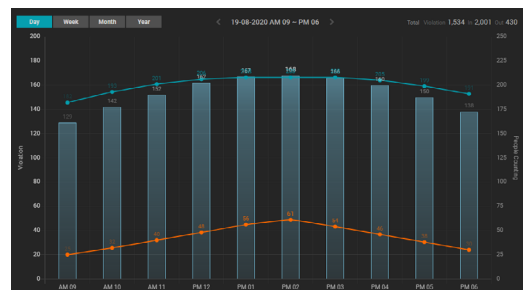
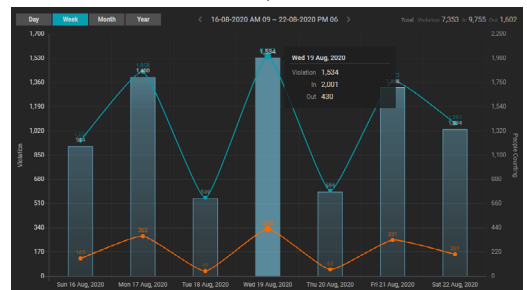
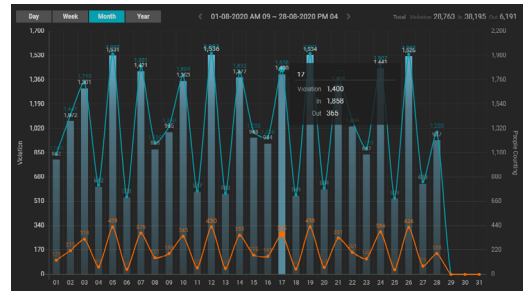
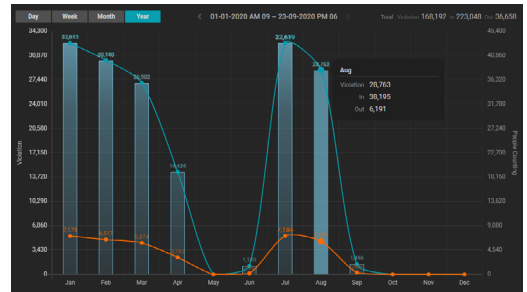
Information related to violation data is displayed.



- **Type:** Displays the type of violation.
- **Violation Value:** Displays the violation value within the search range.
- **Previous Value:** Displays the previous violation value. The search range is the same as the current search range.
- **Increase/Decrease Rate:** Indicates the increase or decrease rate between the previous and the current value.



Previous Value and Increase/Decrease Rate are not displayed in the case of **Custom** search range.



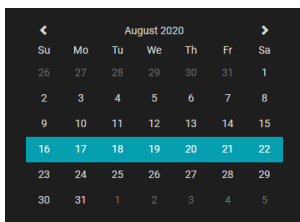
Left Mouse Click on the Graph (Year - Month - Week - Day)



Right mouse click on the graph changes the time unit in the order of Day - Week - Month - Year.

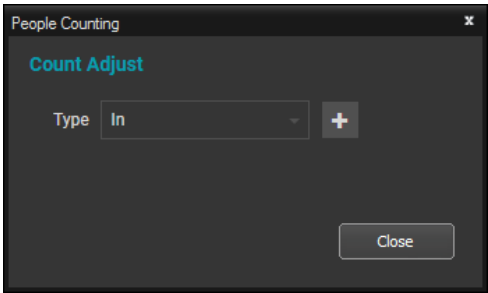
Time Shift of Graph

< 16-08-2020 AM 09 ~ 22-08-2020 PM 06 >



- Click the left/right of the time range or the < / > (Previous/Next) buttons on the right bottom of the graph to display the graph corresponding to the previous/next time range.
- Clicking the time range displays a calendar and selecting the time displays the corresponding data on the graph.
- Range of selection on the calendar differs according to the unit of time (day, week, month, year).
- Clicking the bar or line graph works as follows:
 - Left mouse click: Displays the graph in a narrower range of time unit. The graph including the time of the clicked bar or line is displayed.
 - Right mouse click: Displays the graph in a broader range of time unit. The graph including the currently illustrated range is displayed.

People Count Adjust

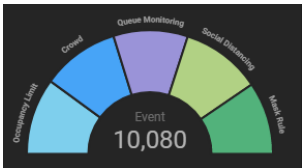


- **In/Out** data of **Exceed Occupancy Limit** can be modified from **Count Adjust** under **Video Analytics on page 71**.
- Select **In** or **Out** on the **Count Adjust** window and click the **+** button to increase the In/Out data.

Event

Violation events are displayed on the graph and list.

Event Chart



- The number of violation events for each violation type is displayed.
- Clicking the specific violation event activates the violation chart and the corresponding event items are displayed on the list.
- Clicking the selected violation event displays the total violation event items on the list.
- The number of selected violation event or the number of total events is displayed in the middle of the chart.
- The maximum number of events is 100,000.

Event List

Page 1 / 1000		
Device	Time	
VA BOX3	24-09 AM 12:03:57	
VA BOX7	24-09 AM 12:02:26	
VA BOX3	24-09 AM 12:01:27	
VA BOX3	24-09 AM 12:00:25	

- Violation event items within the search range are listed (up to 100,000 items).
- 100 event items can be displayed on one page of list in maximum.
- The current page/total pages is displayed on the top of the list.
- Click the spin button on the right of the current page number to turn the page.
- Clicking the current page number to display the page list. Time indicates the time when the first event of the page occurred. Clicking the page item moves to the corresponding page.

Event List Tooltip

Social Distancing Violations	
Device	VA BOX3
Recorded Time	24-09-2020 AM 12:01:27
Camera	7, 8

- **Event Type:** Displays the violation type of the event.
- **Device:** Indicates the video analytics device where the event occurred.
- **Recorded Time:** Indicates the time when the event occurred.
- **Camera:** Displays the cameras related to the video analytics device where the event occurred.

FEN Service Use Agreement

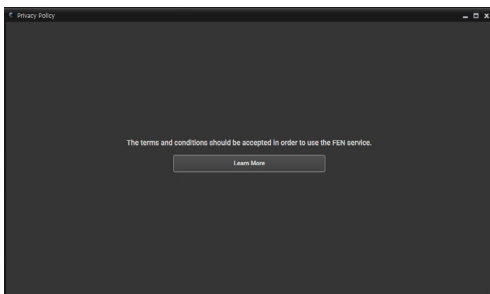
According to the privacy protection policy of GDPR (General Data Protection Regulation) and CCPA (California Consumer Privacy Act), you should agree with the IDIS privacy policy (<https://www.idisglobal.com/index/privacy>) in order to use the FEN service.

Click **About** menu and select **Privacy Policy** and configure FEN service use agreement setting for each device.

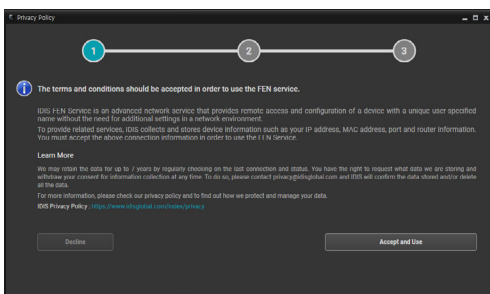
FEN Service Use Agreement

Select to agree with the IDIS privacy policy. Each of FEN service registered device can have an agreement respectively, and these devices can use the FEN service.

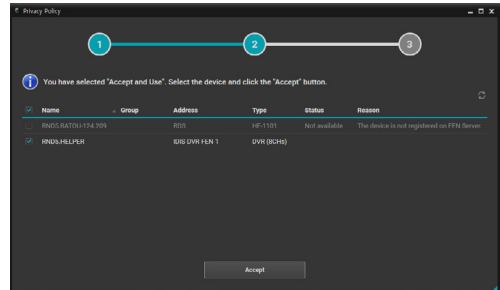
- 1 Click **About** menu and select **Privacy Policy**.
- 2 Press **Learn More** from the window below.



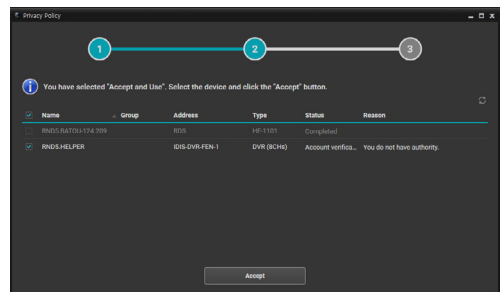
- 3 Read the FEN service terms and click the **Accept and Use** button. Click the link below the terms to check the IDIS privacy policy.



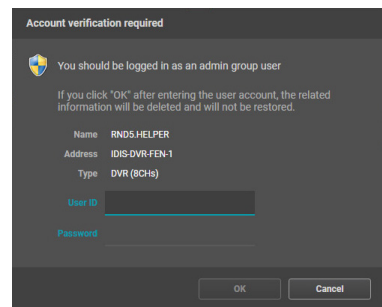
- 4 Select a device to register for the FEN service use agreement and click **Accept**.



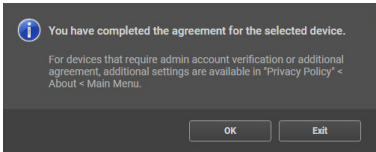
- 5 Successfully registered devices are displayed **Completed** under **Status**. Failed devices are displayed with descriptions under **Status** and **Reason**.



- 6 When the logged in device account is not an administrator, **Account verification required** is displayed under **Status** with a below popup message. Enter the administrator user information and click **OK** to register the device under the agreement.



- 7 The message pops up when the agreement is complete. Click **OK** for additional agreement or click **Exit** to close the privacy policy window.

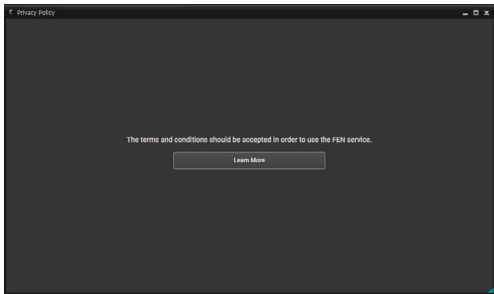


- 8 Pressing the  (Refresh) button after clicking **OK**, or opening the privacy policy again after clicking **Exit** hides completed devices from the list.

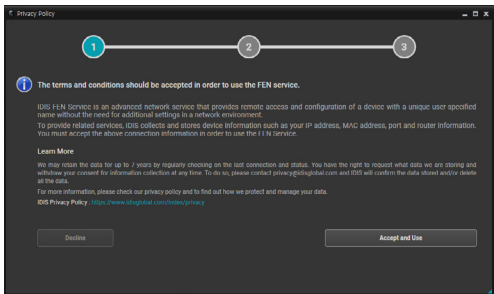
FEN Service Decline

Select devices to decline using the FEN service. Each of FEN service registered device can be declined respectively.

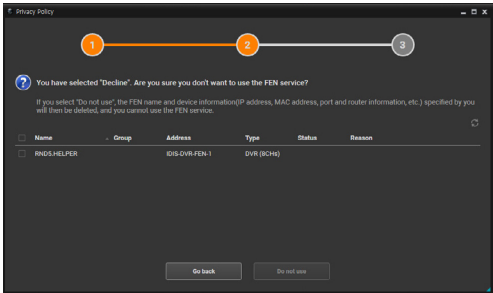
- 1 Click **About** menu and select **Privacy Policy**.
- 2 Press **Learn More** from the window below.



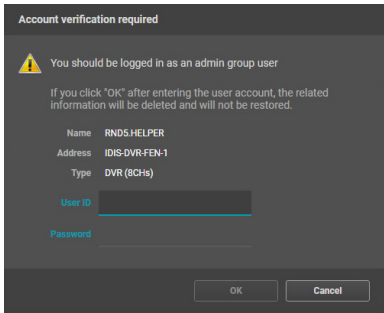
- 3 Read the FEN service terms and click the **Decline** button. Click the link below the terms to check the IDIS privacy policy.



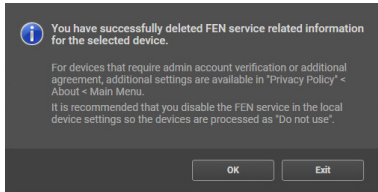
- 4 Select a device to delete from the FEN service and click **Do not use**. Clicking **Go back** returns to the FEN service use agreement page.



- 5 Enter the administrator user information for each device and click **OK** to delete from the FEN service. If you do not know the administrator account, click **Skip** to move on to the next device.



- 6 The message pops up after the verification is complete. Click **OK** for additional deletion or click **Exit** to close the privacy policy window.



- 7 Pressing the  (Refresh) button after clicking **OK**, or opening the privacy policy again after clicking **Exit** hides deleted devices from the list.

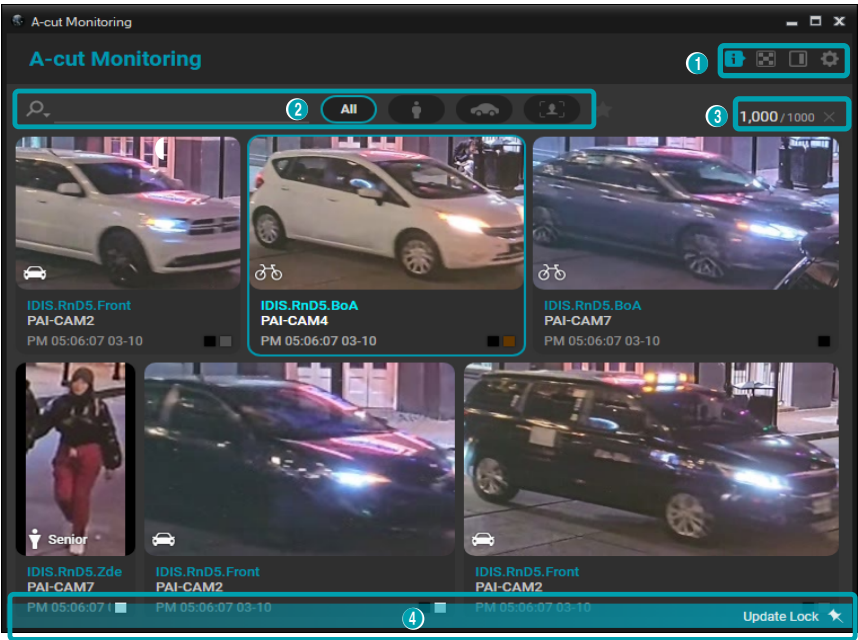
A-Cut Monitoring Panel

Screen Layout

You can view the A-cut images received from camera devices registered under the Monitoring tab.

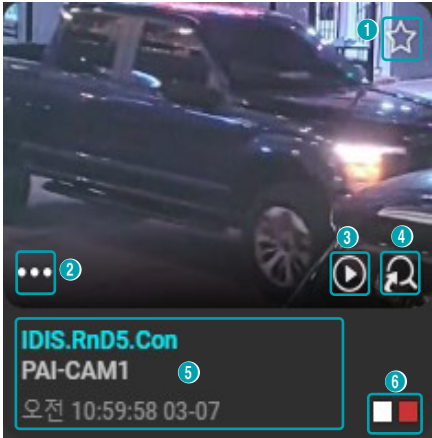
Popup Configuration

The A-cut images transmitted from camera devices registered in the Monitoring tab are available for viewing.

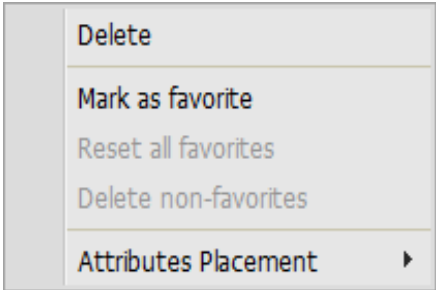


1	Popup Settings and Function Collection Area
2	Filtering Settings Area
3	A-cut Item Count Widget and Delete All Button
4	Update Lock Status Bar

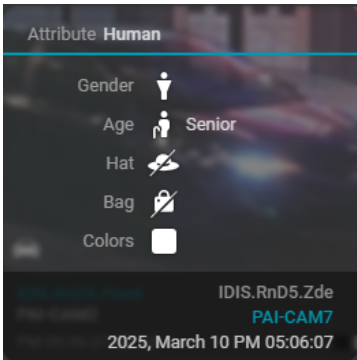
A-cut Composition

	① Select whether to set or unset as a favorite.
	② Display the properties of the A-cut item.
	③ Play the selected A-cut section using instant playback.
	④ Register the selected camera to the Play tab and move to the start time of the A-cut section.
	⑤ Display the recording point, camera name, and recording time of the A-cut item.
	⑥ Display the color.

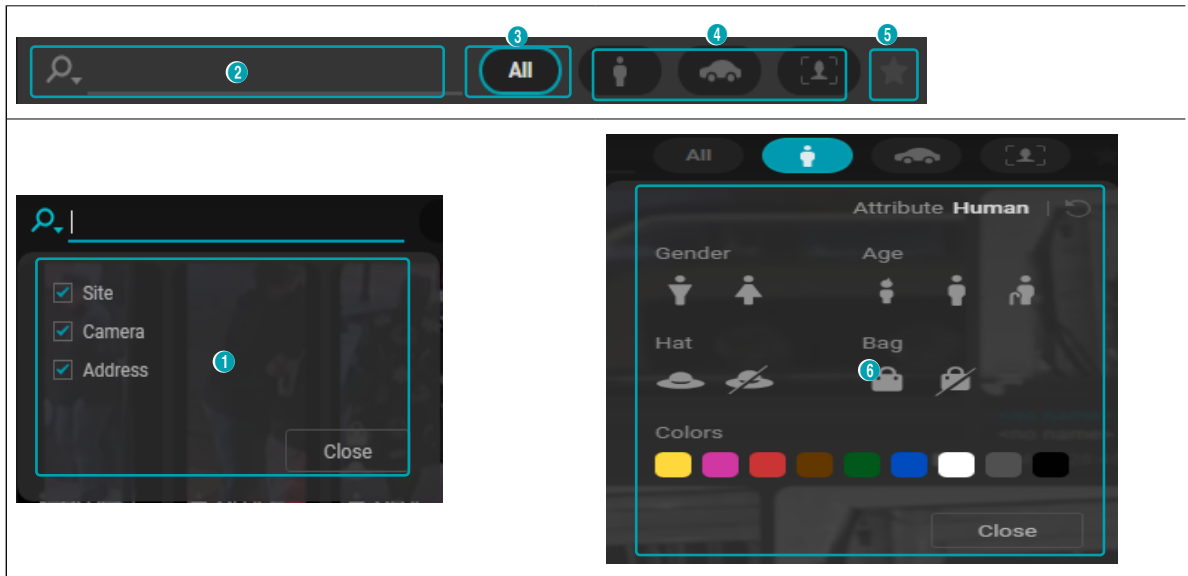
A-cut Context Menu

	Delete: Deletes the selected A-cut items
	Mark as favorite: Marks or unmarks the selected A-cut items as favorites.
	Reset all favorites: Unmarks all A-cut items that have been marked as favorites.
	Delete non-favorites: Deletes all A-cut items that are not marked as favorites.
	Attributes Placement: Sets the display format for attributes. (Auto / Horizontal / Vertical)

A-cut Tooltip

	① Displays the object type of the A-cut item.
	② Displays the attributes of the A-cut item.
	③ Displays the recording point name, camera name, and recording time of the A-cut item.

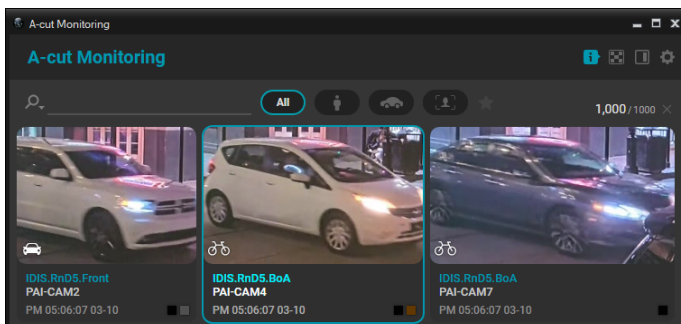
Filtering



- ① Specifies the target range for the text filter.
- ② Enter the text to filter.
- ③ Resets the object type filter.
- ④ Displays the filter attribute selection widget based on object type. Right-click to directly apply the most recently used filter settings.
- ⑤ Displays only items marked as favorites. This option can be used in combination with other filter settings.
- ⑥ Allows for the configuration of filter attributes based on the selected object type.

Update Lock

When an A-cut item is clicked, the update lock is activated. While the update lock is active, the display of newly added A-cut items is delayed. Upon deactivating the update lock, all delayed A-cut items will be displayed at once. The update lock can be released by either clicking the selected A-cut item or by clicking the update lock bar at the bottom of the popup. The update lock will automatically be released once the duration set in the popup settings has elapsed.

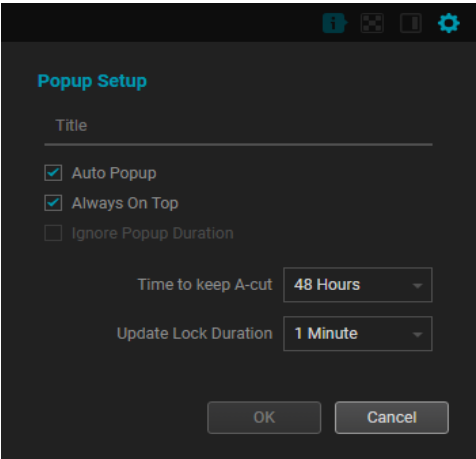


Feature Descriptions

	① Displays a tooltip when hovering over an A-cut item. ② Omits the display of the point name, camera name, and recording time. ③ Changes the window's position and size according to the location set in the IDIS Center settings - [Screen Split] - [Side Panel Position]. ④ Displays the popup settings widget.
--	---

Settings

Popup Settings

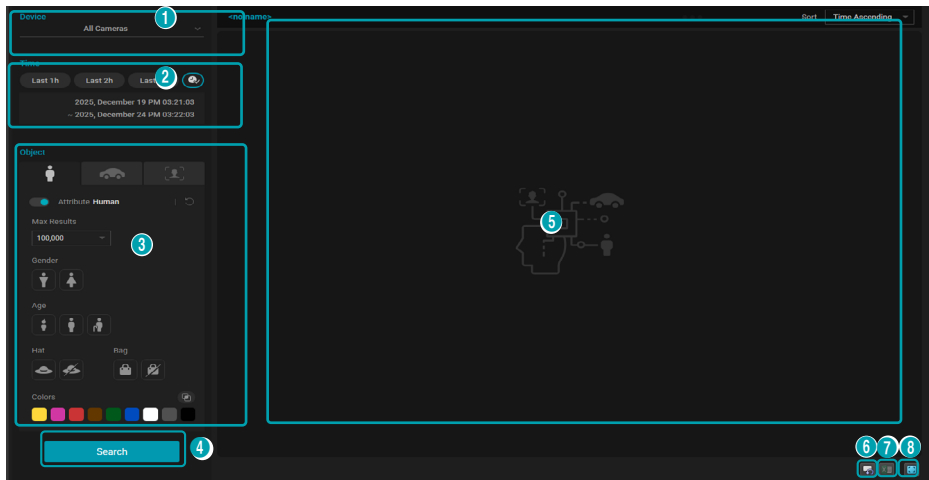


- **Title:** Sets the title of the popup.
- **Auto Popup:** Automatically opens the popup window when an A-cut is received.
- **Always On Top:** Keeps the A-cut live popup window displayed at the front of the screen.
- **Time to Keep A-cut:** Configures the duration for which the A-cut item remains displayed. Once the set duration expires, the A-cut will be deleted.
- **Update Lock Duration:** Sets the duration for which the update lock is maintained. Once the specified time has passed, the update lock will be released.

AI Search

Search A-cuts and snapshots for a site using the specified criteria.

Screen Layout

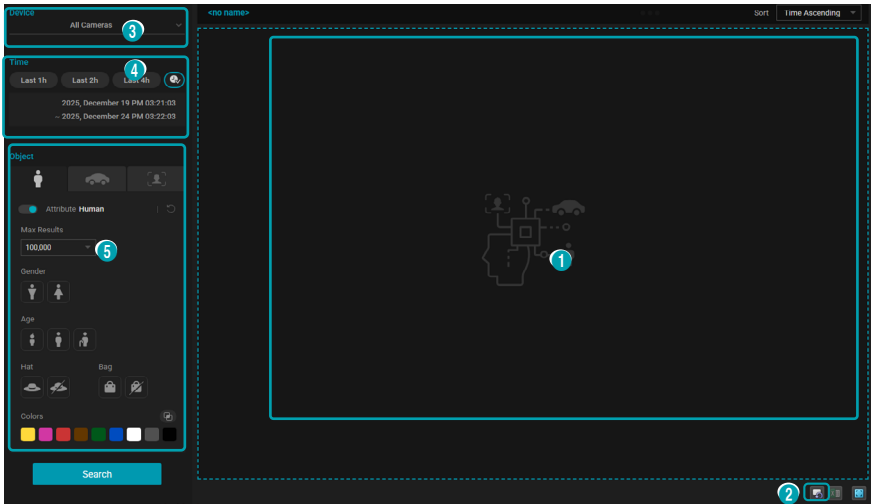


- 1 Device:** Displays the name or number of the selected device(s). Click to open the device selection widget.
- 2 Search Range:** Allows you to set the search period. Clicking the last Custom button opens the custom date range selection widget.
- 3 Search Settings:** Allows you to configure the target type, maximum number of results, search interval, or attributes for the search.
- 4 Search:** Click the search button to start or stop the search.
- 5 Search Results Display & Site Drag Area:** Displays the search results. Sites can be registered by dragging and dropping them into this area.
- 6 Unregister Site:** Removes a registered site.
- 7 Save as Excel File:** Enables or disables Excel file save mode.
- 8 Full Screen:** Enables or disables full screen display.

Site Registration and Search

Registration

After selecting a device from the site list, drag it to the central panel or the search settings panel. Depending on the site's registration status, a border will be displayed on the central panel as shown in the image below.



1 Panel Border Indicators

Cyan	Site is available for connection.	Red	Site does not support AI search functionality.
Gray	Attempting to connect to a site that is already registered.	Yellow	Site registration is unavailable due to ongoing search or other reasons.
Orange	Attempting to connect to a site different from the one previously registered.	X	Zoom Out.

2 (Unregister Site): Unregisters the currently registered site.

3 **Search Device:** Filters devices based on the input string. Allows you to choose whether to search for individual devices.

4 **Search Range:** Set the search range using the preset mode, which allows you to select a specific period starting from a particular point, or the custom mode, where the user manually selects the search interval. The currently selected search range is displayed at the bottom.

	Last 1h: Searches data from the past 1 hour based on the current time.
	Last 2h: Searches data from the past 2 hours based on the current time.
	Last 4h: Searches data from the past 4 hours based on the current time.
	Custom: Allows the user to define the search range manually. The range can be selected by day or week using a calendar, or by entering the start and end time directly.

5 Search Settings

- ① Select the object type to search for.
- ② Choose whether to perform an attribute-based search or interval-based search.
- ③ Specify the maximum number of results, search interval and minimum accuracy threshold.
- ④ Deselect all selected attribute settings.
- ⑤ Select the attributes to search for. When selecting colors, you can choose between Normal Mode and Combination Mode. In Combination Mode, only two colors can be selected.

Search Results

Results

(00) PAI-IPC.NewOrleans 3.72GiB

①

②

③

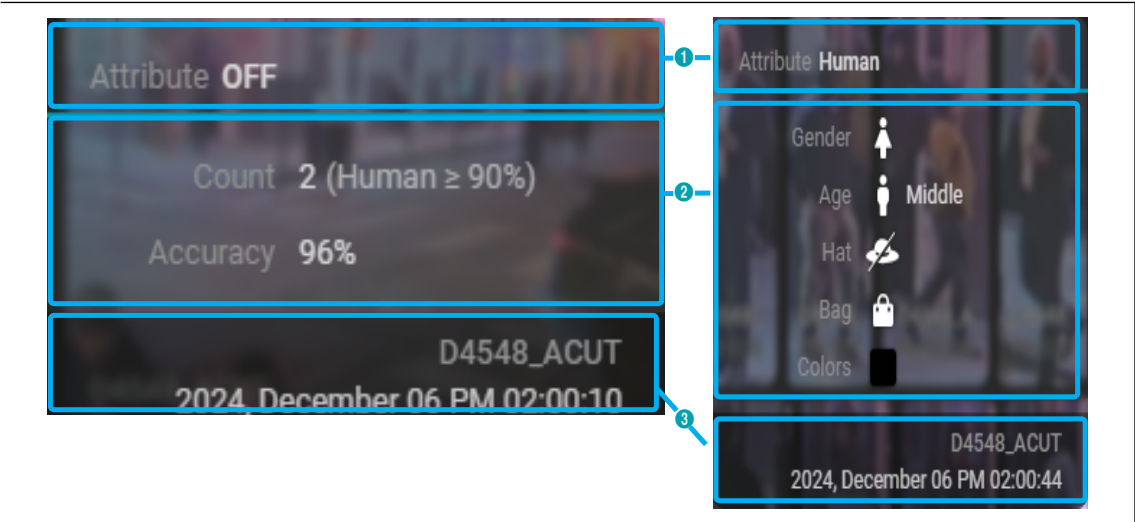
④

⑤

- ① Activated during search or while saving to an Excel file.
- ② Displays the total number of search results.
- ③ Delete button: Activated upon completion of the search. Click to delete the search data.
- ④ Sorts search results in the selected order.
- ⑤ Displays the progress of the ongoing search.

- ① Saves the image and data of the selected A-cut item as a PDF file.
- ② Plays back the selected A-cut section in quick playback mode.
- ③ Registers the selected camera to the Playback tab and moves to the start time of the A-cut section.

Search Results Tooltip



- ❶ Indicates whether the result is from an attribute search, and if so, displays the object type.
- ❷ Displays the data associated with the item.
- ❸ Displays the camera name and the recorded time.

Search Result Display- Icon Guide

❶❷❸ 	❶ Toggles the default display of camera and recording time information. ❷ Adjusts the size of thumbnail images. ❸ Toggles the use of tooltips.
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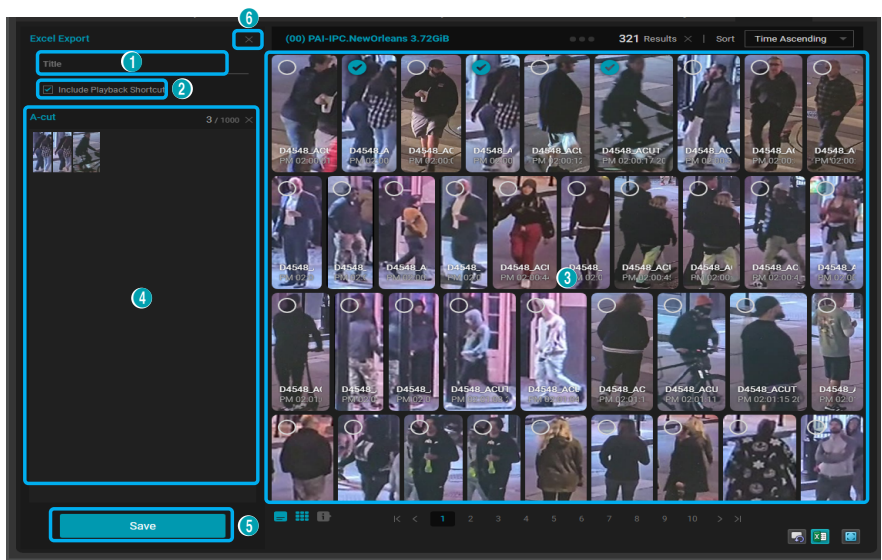
Saving Options

Save as PDF

The screenshot shows a 'PDF Report' dialog box with a dark theme. On the left, there is a 'Snapshot' section with a large image of a street scene at night and a row of four smaller frames below it. Below the frames is an 'Attribute' section with the following text: 'Human', 'Gender: Female', 'Age: Middle', 'Hat: Not Wearing Hat', and 'Bag: Carrying Bag'. To the right of the attributes is a timestamp: '2024-12-06 PM 02:00:44'. On the right side of the dialog, there are several input fields: 'Title' (containing 'PDF Report'), 'Comment' (with a placeholder 'Additional Comments...'), and 'Footer'. Below these is an 'Options' section with two checkboxes: 'Auto close after save' (checked) and 'Use Password' (unchecked). Under 'Use Password' are two more input fields: 'Password' and 'Confirm Password'. At the bottom right are 'Save' and 'Close' buttons.

- **Title:** Specifies the title of the PDF report.
- **Comment:** Adds a comment to be included in the PDF report.
- **Footer:** Adds a footer to be included in the PDF report.
- **Auto Close After Save:** Selects whether the popup should close automatically after saving the PDF report.
- **Use Password:** Enables password protection and allows you to set a password for the PDF report.

Save as Excel File



- ❶ Specifies the title of the Excel file.
- ❷ Include Playback Shortcut: Adds playback shortcut links to the Excel file. These links are only accessible from the PC on which the file was saved.
- ❸ Selects the items to include in the Excel file. A maximum of 1,000 items can be selected.
- ❹ Displays a preview of the selected items. Clicking a preview item will navigate to the corresponding result in the search list. Click the X button next to the selection count widget to deselect all items.
- ❺ Executes the save operation for the Excel file.

Control Using Network keyboards

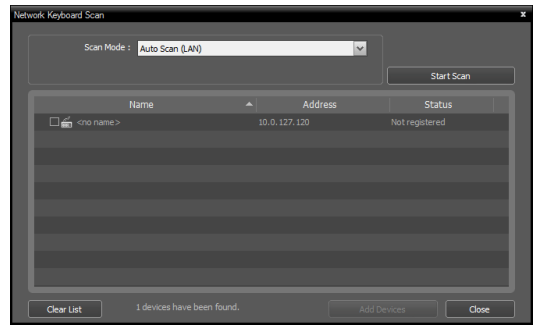
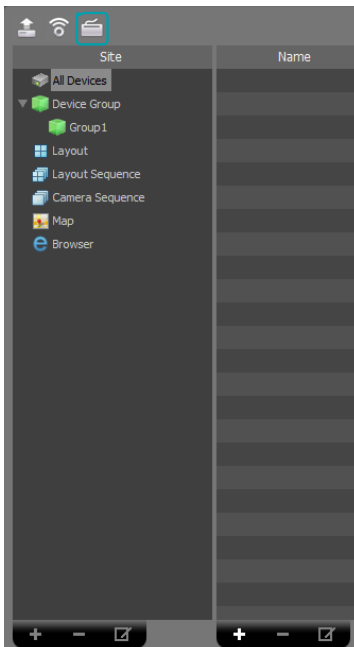
IDIS Center program can be controlled using network keyboards which needs to be purchased separately.

- ☒ Only network keyboards of a certain model are supported.

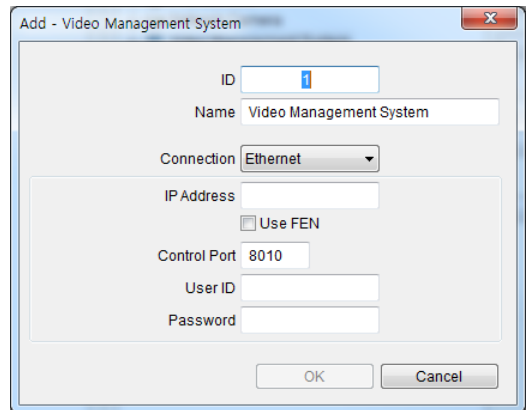
Registration

Register the network keyboard to IDIS Center program.

- 1 Select **Settings** in **System** menu and select the **Device** menu.
- 2 Press the  (Network Keyboard Setup) button and **Network Keyboard Scan** window will appear. Registering a network keyboard is identical to registering devices. For more details, refer to **Device Registration on page 12**.



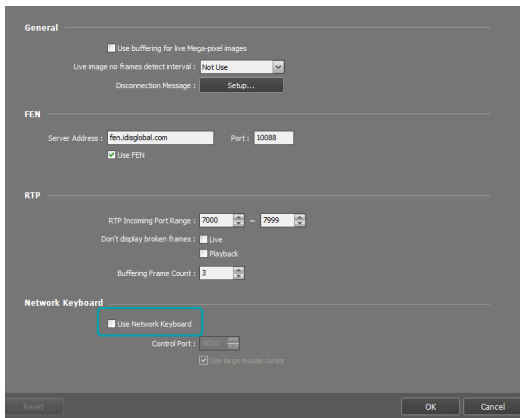
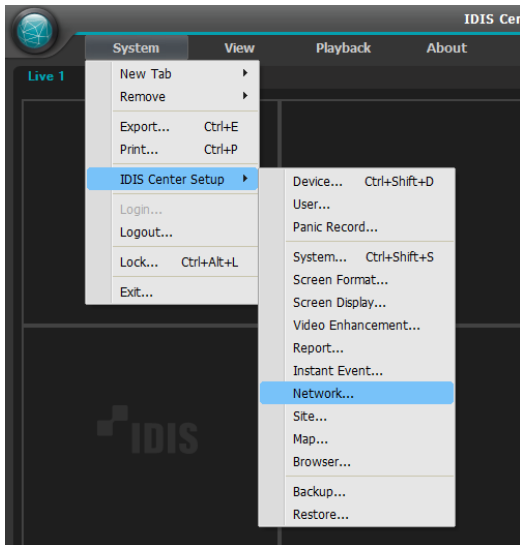
- 3 IDIS Center system can be registered on the network keyboard. For more details, refer to the network keyboard user manual.



- **ID** (IDIS Center System ID): It is automatically assigned during IDIS Center System registration, and can be changed.
 - ☒ The ID is used to identify the system from other IDIS Center Systems. Therefore, a unique ID must be set.
- **Name**: Set a name for the IDIS Center System for user convenience.
- **IP Address**: Enter the IDIS Center System's IP address. Do not select **Use FEN**.
- **Control Port**: Enter the Control Port set in IDIS Center System. Control Port settings can be checked in **System > Settings > Network > Network Keyboard**.
- **User ID, Password**: Enter the User ID and Password used to login to IDIS Center System.

- 4 In **System** menu, select **IDIS Center Settings**, and then select **Setup Network**.

- 5 Select **Use Network Keyboard** option to enable network keyboards on IDIS Center System.

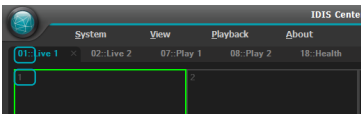
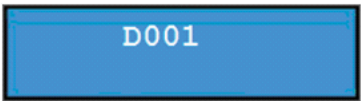


Connect

- 1 On the network keyboard, enter the **IDIS Center System ID**.



- 2 Press **DEV** button to connect the network keyboard to the IDIS Center System. If the connection is established, a unique ID will be displayed on each camera screen and panel Tab as shown below.



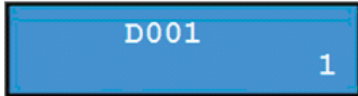
- 3 You can terminate connection by pressing the **SHIFT** button and **DEV** button simultaneously.



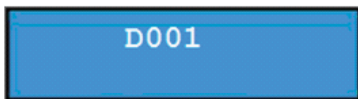
Run

Live Video

- 1 On the network keyboard, enter Live panel Tab ID.



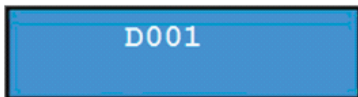
- 2 Press the **DEV** button.



- 3 Enter Camera Screen ID.

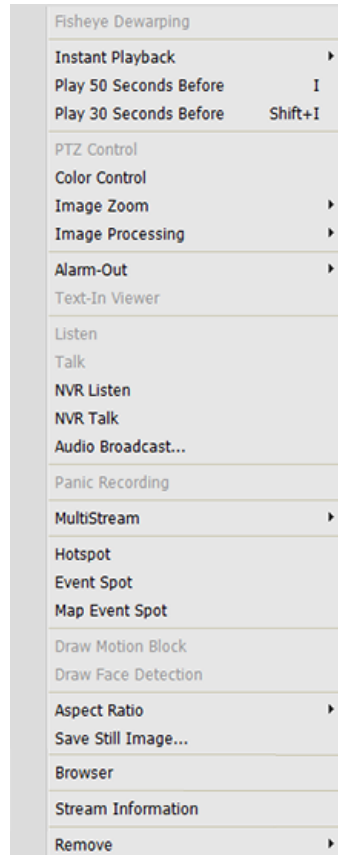
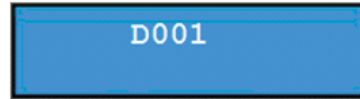


- 4 Press the **PANE** button.



- 5 In the **Site** list, select a site you wish to connect to using the mouse connected network keyboard. Then, drag & drop the selected site on the live screen using your mouse. The live video of the selected site will be displayed on the screen.

- 6 Pressing the  (Menu) button will bring up Live Menu.



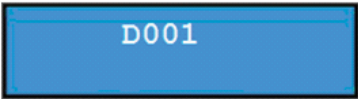
Navigate to the desired menu using the arrow buttons on the network keyboard and press Enter  to select or deselect the menu. To leave the current menu, press the  (Menu) button and deselect the menu.

Video Playback

- 1 On the network keyboard, enter Play Tab ID.



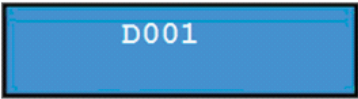
2 Press the **DEV** button.



3 Enter Camera Screen ID.

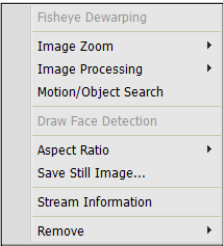
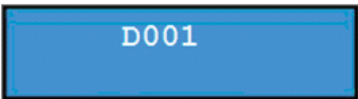


4 Press the **PANE** button.



5 In the **Site** list, select a site you wish to connect to using the mouse connected network keyboard. Then, drag & drop the selected site on the Play screen using your mouse. The recorded video of the selected site will be displayed on the screen.

6 Pressing the  (Menu) button will bring up Play Menu.



Navigate to the desired menu using the arrow buttons on the network keyboard and press Enter  to select or deselect the menu. To leave the current menu, press the  (Menu) button and deselect the menu.

Network Keyboard Buttons

Followings are the network keyboard buttons used to control the IDIS Center System.



For more details on PTZ control-related buttons, refer to the network keyboard user manual.

Command Buttons

Button	Description	Action
①	Numbers (1-9)	ID → [MON] , [PANE] , [DEV] : Selects the monitor, camera screen, panel tab and IDIS Center system to control.
②	Number (0)	Not used as a command button.
[SHIFT]	Shift	[SHIFT] → Button: Runs the second function if the button has two functions.
[ESC]	Esc	[ESC] : Cancels a command while it is running.
[DEV]	Connect	IDIS Center System ID → [DEV] : Controls IDIS Center System.
	Disconnect	[SHIFT] & [DEV] : Disconnects from IDIS Center System.
	Panel Tab	Tab ID → [DEV] : Selects corresponding panel.
[PANE]	Camera Screen	Camera Screen ID → [PANE] : Selects corresponding camera screen.
[MON]	Monitor	Monitor ID → [MON] : Selects corresponding monitor.
[−]	−	[−] : Disconnects from the currently selected camera or device.
[F1]	Function (1-8)	- F1: Shows monitor ID if two or more monitors are used. - F7 ([SHIFT] & F3): Shows or hides System menu → Settings window. - F8 ([SHIFT] & F4): Shows or hides IDIS Center program's software version.

IDIS Center System Control Buttons



Certain functions may not be supported depending on type and version of the connected device.

Button	Description	Action
	Panic Recording On	Camera Screen ID → : Begins panic recording of the camera screen.
	Panic Recording Off	Camera Screen ID → & : Stops panic recording of the camera screen.
	Alarm Output On	- Camera Screen ID → : Activates No.1 alarm output of the device connected to the current camera screen. Alarm Output Device Number → : Activates the selected alarm output.
	Alarm Output Off	- Camera Screen ID → & : Deactivates No.1 alarm output of the device connected to the current camera screen. Alarm Output Device Number → & : Deactivates the selected alarm output.
	Layout	: Changes screen layout. Select a layout by using the arrow keys and Enter button. & : Switches to 1x1 layout. Returns to previous layout if button is pressed again.
	Group	: Switches to next screen group.
	Freeze-frame	: Freezes Live screen.
	Zoom	& : Magnifies certain area of the Live screen. Magnified area can be moved by using the arrow keys and Enter button.
	Full Screen	Panel Tab ID → : Shows the corresponding panel Tab in full screen.
	Search/Monitor	: Shows the Play Panel and can search or play recorded videos on the device connected to the camera screen selected on the Live Panel. & : Go back to previous Live Panel.
	Rewind	: Rewinds video recording.
	Rewind by frame	& : Rewinds video recording by one frame at a time.
	Play/Pause	: Plays video recording. Pressing the button again while playing pauses the video.
	Fast Forward	: Fast forwards video recording.
	Fast Forward by frame	& : Fast forwards video recording by one frame at a time.
	Menu	Shows the screen menu for the selected camera screen.

	Enter 	• Selects the screen menu item of the selected camera screen. • Changes zoom ratio in Zoom Mode.
	Arrow Keys	• Navigates to screen menu item of the selected camera screen. • Moves magnified area in Zoom Mode. • Only operates in Play Mode. • Plays video by one frame at a time when the video is paused in Play Mode. Plays or rewinds video by rotating the jog dial clockwise or counter clockwise.
	Jog Dial	• Zoom in/out the image by turning the jog dial. • Changes playback speed when playing video recordings of a device.
	Shuttle Ring	• Zoom in/out the image repeatedly by turning the shuttle ring. • Changes playback speed when playing video recordings of a device.

Hotkey

System Menu

System

Hotkey	Operation
Ctrl + E	Save screen capture image file, execute log file save if other log save is supported
Ctrl + Alt + P	Execute the print output function in tabs that support screen capture image output and other print output
Ctrl + Alt + L	Manual execution of Client S/W lock function
Ctrl + Shift + P	Run the Preference Device page

Screen

Hotkey	Operation
Ctrl + Enter	Toggle selected tab full screen
Ctrl + Alt + Enter	Toggle full screen with selected tab toolbar
Ctrl + F	Screen division selection/creation dialog box pop up
Ctrl + PgDn	Go to the previous group of the screen format
Ctrl + PgUp	Go to the next group of the screen format
Shift + Enter	Toggle selected camera pane 1x1 format
PgDn	Select the previous pane of the selected camera pane

PgUp	Select the next pane of the selected camera pane
F3	Run the screen magnifier
Ctrl + Q + ROI-Drag	Selected camera pane video image drag designated area pixel counter display
Ctrl + Alt + E: (IDIS Center)	Toggle Panic Event Manager panel popup
Ctrl + Alt + E: (ISS)	Toggle Event Manager panel popup
Alt + F6	Select the tab on the right side of the tab docked in the main frame
Alt + Shift + F6	Select the tab on the left side of the tab docked in the main frame

Monitoring

Hotkey	Operation
T	Toggle two-way audio
Shift + Home	Toggle full screen including toolbar of selected tab
Home	Screen division selection/creation dialog box pop up
Pause(Break)	Move the previous group of the screen format
F9	Toggle live zoom pop-up

Play

Hotkey	Operation
Ctrl + Space	Toggle play/pause playback sessions for selected camera pane.
Ctrl + Shift + Space	Toggle batch play/pause of selected playback sessions.

Ctrl + L	Increase playback speed
Ctrl + J	Decrease playback speed
Ctrl + K	Reset playback speed (stop playback)
Ctrl + P	Normal speed playback
Ctrl + H	Fast forward play
Ctrl + G	Fast Backward play
Ctrl + T	Jump to time
Home	Jump to the start
End	Jump to the most recent point
F	Jump to the next frame (Forward Frame)
D	Jump to the previous frame (Backward Frame)
Ctrl + Right Arrow	1 sec. forward
Ctrl + Left Arrow	1 sec. backward
Shift + Right Arrow	1 min. forward
Shift + Left Arrow	1 min. backward
Alt + Right Arrow	10 min. forward
Alt + Left Arrow	10 min. backward
(Play or stop button) Scroll the mouse wheel	Jogging frame by frame

(Step playback or previous/next button) Scroll the mouse wheel	Jump to the specified time
(Jog shuttle) Scroll the mouse wheel	Shuttle step control
(Jog shuttle) Right-click on the mouse	Shuttle lock
(Jog shuttle) Click the mouse wheel button.	Shuttle reset (pause, unlock)

Monitoring

Hotkey	Operation
L	Toggle two-way audio
Tab	Display OSD with camera pane video stream information
(Live popup) F4	Cancel the Ignore Live Popup function

Screen

Hotkey	Operation
After dragging pane (A), drop it onto pane (B).	Change the position of the pane / Swap the devices of both panes (A and B) if both devices are registered.
C + After dragging pane (A), drop it onto pane (B).	Clone the device registered in A to B

After dragging pane (A), drop it onto pane (B) on a different screen.	Clone the device registered in A to B / Device registration and Goto (A: Instant playback, B: playback screen)
---	--

Sequence

Hotkey	Operation
Shift + PgDn	Go to the next layout
Shift + PgUp	Go to previous layout
Ctrl + Shift + PgDn	Go to the next camera sequence
Ctrl + Shift + PgUp	Go to the previous camera sequence

Hover Toolbar

Hotkey	Operation
(Hover toolbar) Scroll the mouse wheel	Scroll left and right

Message Box

Hotkey	Operation
Ctrl + C	Copy the string from the message box to the clipboard and then press Ctrl + V to paste the content into a text editor such as Notepad.

Device

Hotkey	Operation
NumericID, Ins	Register a NumericID device to the selected camera pane (root device, camera supported)
NumericID, L + Ins	Register a NumericID layout to the selected screen
Del	Unregister a device registered to the selected camera pane
Ctrl + Del	Unregister the camera pane device associated with the previously registered root device
Shift + Drag&Drop	Unregister a device registered to the selected camera pane
Shift + A + Drag&Drop	Bulk disconnect the devices registered on the screen
Ctrl + Alt + A + drop the device to the camera pane	Register the screen format auto extender
Drop to the live popup panel	Force a live popup when dragging and dropping a device with a live popup under the site tree
Drop to the map pane	Focusing on the device location when dragging and dropping a device on the map page pane

Smart UX

Instant Playback

Hotkey	Operation
I	Toggle the instant playback to previously run time interval

Shift + I	Toggle the instant playback for 1 minute
Space	Toggle play/stop
L	Increase playback speed / Step-by-step control / Continuous run during keystroke
J	Decrease playback speed / Step-by-step control / Continuous run during keystroke
K	Reset the playback speed
H	Fast forward play / Step-by-step control
G	Fast Backward play / Step-by-step control
P	Normal speed playback
Home	Jump to the start
End	Jump to the most recent point
F	Jump to the next frame (Forward Frame)
D	Jump to the previous frame (Backward Frame)
Ctrl + Right Arrow	1 sec. forward / Continuous run during keystroke
Ctrl + Left Arrow	1 sec. backward / Continuous run during keystroke
Shift + Right Arrow	1 min. forward / Continuous run during keystroke
Shift + Left Arrow	1 min. backward / Continuous run during keystroke
Tab	Toggle the widget display
Shift + Tab	Toggle the widget display mode change (vertical / horizontal)

B	Add bookmark
R	Refresh based on the current time/ Update recording time range
Shift + PgUp	Go to the previous <time interval> of the recording time range
Shift + PgDn	Go to the next <time interval> of the recording time range
(Caption time bar) Right-click on the mouse	Toggle thumbnail mode
Scroll the mouse wheel on the play button	Jogging frame by frame
(On the previous/ next button) Scroll the mouse wheel	Move by 1 sec
(On the previous/ next button) Shift + Scroll the mouse wheel	Move by 1 min / Move by 5 sec if the recording time section is 3 minutes or less
(Caption time bar) Scroll the mouse wheel	Move by 1 sec
(Caption time bar) Shift + scroll the mouse wheel	Move by 1 min / Move by 5 sec if the recording time section is 3 minutes or less

Quick PTZ

Hotkey	Operation
Ctrl + Drag left button of the mouse	Pan/Tilt control based pointer offset speed

Ctrl + Drag right button of the mouse (up/down)	Zoom In / Out control based pointer offset speed
Ctrl + Scroll the mouse wheel	Zoom In/ Out control
Ctrl + Shift + Click the mouse wheel	Maximum zoom out
Ctrl + Shift + Drag left button of the mouse	Move Pan/Tilt so that the designated position in the video is in the center
Ctrl + Alt + Drag the left mouse button area	Move Pan/Tilt/Zoom to the designated area in the video
Ctrl + Alt + Click the mouse wheel	Toggle area zoom history popup
Esc	Disable control mode if running in PTZ control mode
Direction keys on the keyboard	Control PTZ 8 directions
Number pad 1~4, 6~9	Control PTZ 8 directions
Number pad 5	PTZ preset popup
+	Zoom In
Z	Zoom In
-	Zoom Out
X	Zoom Out
/	Focus far
*	Focus near
Number pad 0	Open aperture

.	Close aperture
S	PTZ control speed setting

Quick Dewarping

Hotkey	Operation
(In the original video) Ctrl + Drag the left mouse button area	Dewarp to the designated area in the video
Ctrl + Drag left button of the mouse	Move Pan / Tilt to the designated area in the video
Ctrl + Drag right button of the mouse (up/down)	Fine control of zooming in/out
Ctrl + Scroll the mouse wheel	Zoom In/Out control
Ctrl + Click the mouse wheel	Dewarping rset
Esc	Disable control mode if running in ePTZ control mode

Quick Dynamic Zoom

Hotkey	Operation
(In the original video) Ctrl + Drag the left mouse button area	Zoom in to the designated area in the video
Ctrl + Drag left button of the mouse	Move the zoom area
Ctrl + Scroll the mouse wheel	Zoom In / Out control

Ctrl + Click the mouse wheel	Zoom reset
Esc	Disable zoom mode if running in dynamic zoom mode

Quick Save

Hotkey	Operation
Ctrl + S	Automatically save the still image with the path and file name set in the Settings -> Save -> Still Image
Ctrl + Shift + S	Save as a still image
Ctrl + C	Save to clipboard

Part 6 - Appendix

Troubleshooting

Problem	Solution
Unable to monitor live video.	• Make sure that the device has been added to the device group. • Make sure you have Live monitoring authorization.
I keep losing connection while monitoring Live video and program continues to attempt to reconnect.	Check the device status and the network connection between the device and the IDIS Center System.
I cannot see Live videos.	• Check device's connection to the camera. • System or network overload may cause delays in the Live videos.
Event functions are not working.	Make sure that Device Real-Time Monitoring option is selected in Edit Device menu. If the option is not selected, event-related features are only supported in the device currently being monitored.
I cannot run IDIS Center program because I forgot my User ID and password.	Remove and re-install IDIS Center program. However, all data stored on the system will be deleted upon uninstallation. Deleted data cannot be recovered.

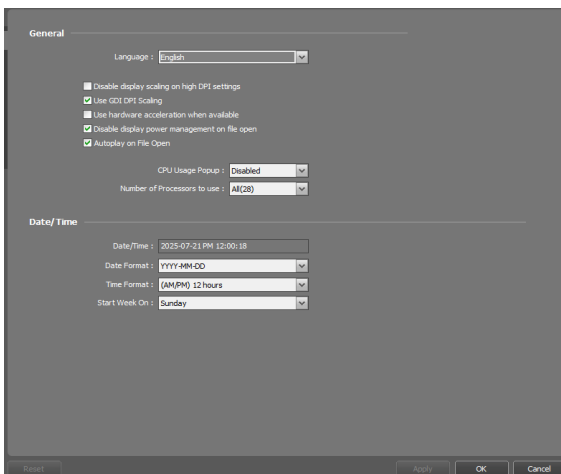
Mobile Player

Preference

System

Configure the system language, date and time.

Click on **System** menu > **Preference** > **System**.



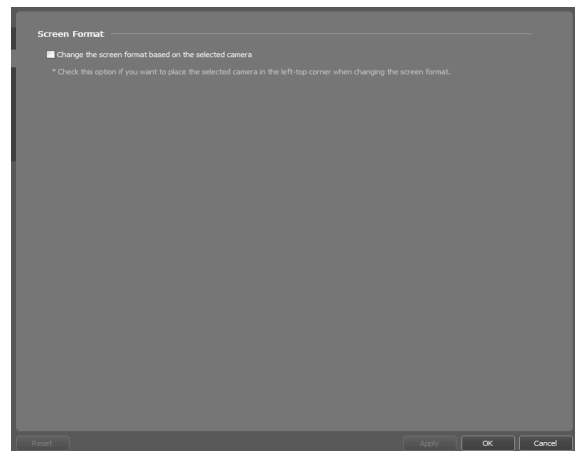
- **Language:** Select the language to use when running the program. The changed setting will take effect the next time the program is launched.
- **Disable display scaling on high DPI settings:** Uncheck to change the size of the client program according to the DPI scale.
- **Use GDI DPI Scaling:** Makes text more visible on high DPI displays. This function is activated only when the operating system supports Use GDI DPI Scaling and "Disable display scaling on high DPI settings" function is disabled.
- **Use hardware acceleration when available:** Use this function in an environment that meets certain conditions.
- **Disable display power management on file open:** Display power management option includes **Turn off the display** and **Put the computer to sleep**.
- **Autoplay on File Open:** Playback will start automatically when a file is opened.
- **CPU Usage Popup:** Shows a warning if the Mobile Player system's CPU usage exceeds a set value and notifies the user.

- **Number of Processors to use:** Set up the number of processors to use during the Mobile Player program running. It allows you to limit the CPU usage for the Mobile Player program running.
- **Date/Time:** Set the display format for current date and time.

Screen Format

Configure the camera screen and layout-related settings.

Click on **System** menu > **Preference** > **Screen Format**.

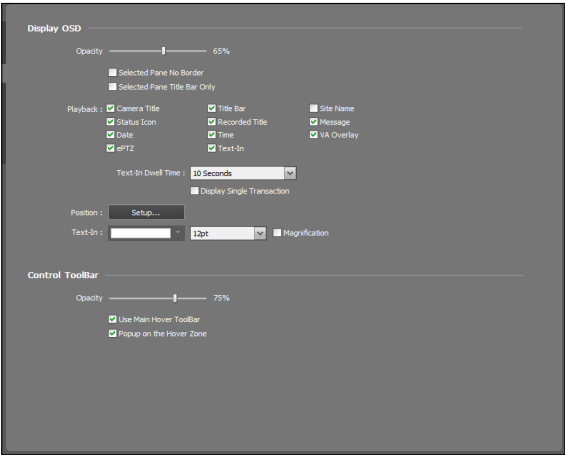


- **Change the screen format based on the selected camera:** If enabled, the camera selected in the current screen is positioned at the first camera screen when the layout is changed.

Screen Display

Sets OSD(On Screen Display) display method on the camera screen and enables / disables OSD.

Click on **System** menu > **Preference** > **Screen Display**.



- **Opacity:** Adjusts the opacity of OSD using a slider.
- **Selected Pane No Border:** Hides the border of the selected pane.
- **Selected Pane Title Bar Only:** Displays the title bar of the selected pane.
- **Playback:** Configures OSD information displayed on the screen.
 - **Camera Title:** Displays the camera name set in Mobile Player program.
 - **Title bar:** Separates the title display area at the top of the camera screen.
 - **Site Name:** Displays the name of the device. Displays only if camera name and device name are different.
 - **Status Icon:** Displays status OSD.

	Zoom In
	Color Control
	Image Effect
	Listen

- **Recorded Title:** Displays the name of the camera configured during video recording.
- **Date, Time:** Displays current date and time of Mobile Player.
- **VA Overlay:** Displays video analysis data over the monitoring video.
- **ePTZ:** Displays the guide GUI (Graphic User Interface) when you control PTZ in the fisheye camera.
- **Text-In, Text-In Dwell Time:** If a text-in event occurs on a device, text-in information is displayed on the screen. (Only supports 1x1 layout.) The Text-In information will be removed after the Text-In Dwell Time from the time an event occurred.

- **Position:** Used to adjust the OSD's position, text size, and margin.
- **Text-In:** Used to change the color and size of the text-in.
- **Control Toolbar:** Adjusts the opacity of control toolbar on camera screen using the **Opacity** slider.



Camera title, Status icon, Date/Time



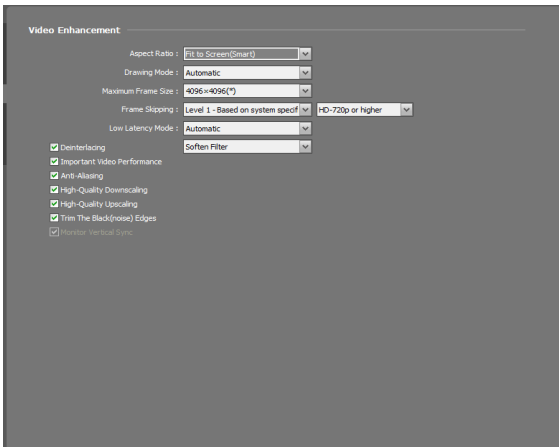
Control Toolbar

- **Use Main Hover Toolbar:** Sets whether the hover toolbar is displayed in the camera pane. When functions are executed via the context menu, the hover toolbar is displayed regardless of this setting.
- **Popup on the Hover Zone:** Toggles on/off the toolbar by a mouse cursor position in the hover zone.

Video Enhancement

Configure the video-related settings.

Click on **System** menu > **Preference** > **Video Enhancement**.



☒ This feature requires high specification as it reduces buffering, parallel processing and post processing.

- **Deinterlacing:** If the video is encoded in interlaced mode, this option removes horizontal stripes or noise that may occur during movement to improve video output quality. Select the desired de-interlacing filter.
- **Important Video Performance:** Puts speed over quality of video output when displaying videos on the screen.
- **Anti-Aliasing:** Removes stair step (blocks) artifacts that are caused when zooming a video to improve overall quality of video output.
- **High-Quality Downscaling/Upscaling:** Maintains the quality of video output when downscaling/upscaling the video.
- **Trim The Black(noise) Edges:** Removes black borders (noise) around videos.
- **Monitor Vertical Sync:** Improves tearing artifacts caused when the monitor's refresh rate is low.

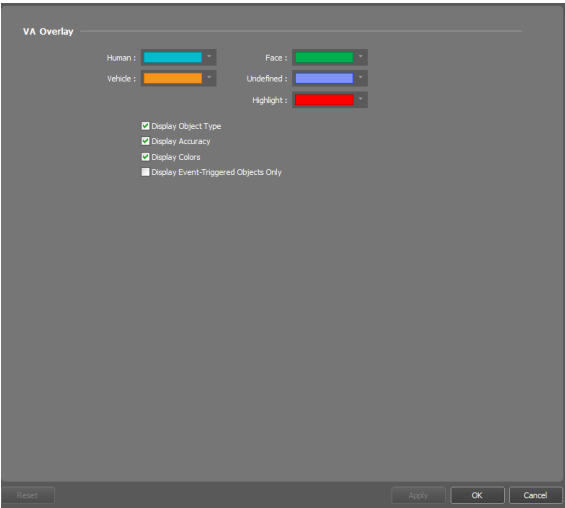
☒ Only supports 1x1 layout. CPU usage may increase if this option is enabled.

☒ Left and right part of the video may be cropped depending on size of camera screen. When using **Zoom, Hotspot, Event Spot, Show Motion Block** features, **Original Ratio** is applied instead of camera screen aspect ratios.

- **Actual size (1x):** Displays the video in actual size.
- **Drawing Mode:** Choose the drawing mode for video display on the screen. The overall color and display performance may vary depending on drawing mode settings.
- **Maximum Frame Size:** Select the maximum frame size to display on screen.
- **Frame Skipping:** Select the frame skipping to enhance video performance if the video exceeds the decoding specification.
 - **Level 1 - Based on system specifications:** Apply frame skipping in decoder configurations that exceed video decoding specifications.
 - **Level 2 - Include when the pane size is smaller than the video resolution:** Apply frame skipping if the size of the target camera pane is smaller than the size specified by the original video resolution.
 - **Level 3 - Turn off loop filter:** Applies codec's loop filter off when skipping frames.
- **Low Latency Mode:** Minimizes frames to be decoded in parallel to reduce DPB (Decoded Picture Buffer).

Video Analysis

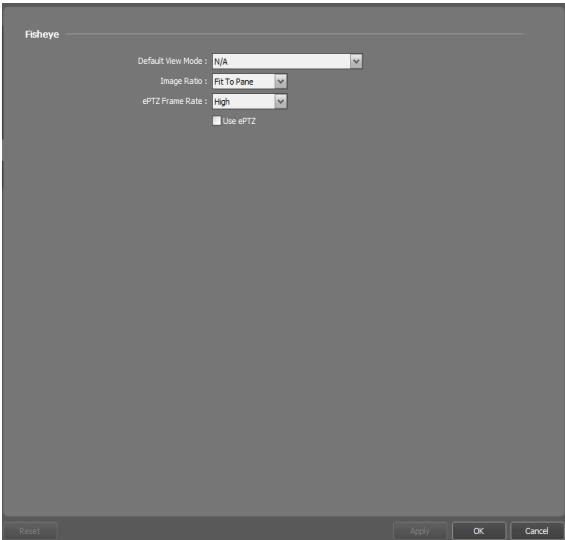
Configure video analysis-related settings.
Click on **System** menu > **Preference** > **Video Analysis**.



- **Color Settings:** Set the color of the image analysis result overlaid on the image by object type.
- **Display Object Type:** Displays the object type in the image analysis result.
- **Display Accuracy:** Displays the accuracy of the video analysis results.
- **Display Colors:** Displays the colors of the video analysis results.
- **Display Event-Triggered Objects Only:** Displays only the event-triggered objects.

Action

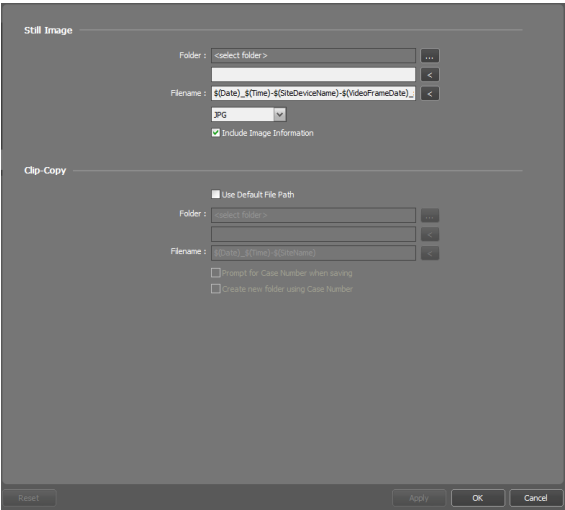
Configure action-related settings.
Click on **System** menu > **Preference** > **Action**.



- **Fisheye:** Set up the default Action when accessing a fisheye camera.
 - **Default View Mode:** Set the default view mode.
 - **Image Ratio:** Set the image ratio.
 - **ePTZ Frame Rate:** Set the ePTZ frame rate. **High** (Over average of 60 Fps), **Normal** (Over average of 30 Fps), **Low** (Average of 15 Fps), **Very Low** (Average of 5 Fps) - a PC with a low specification is appropriate.
 - **Use ePTZ:** Uses ePTZ when accessing a fisheye camera.

Save

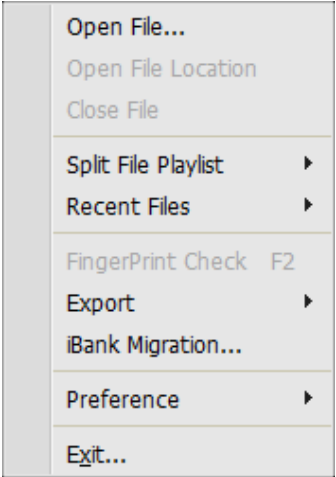
Configure still image saving-related settings.
Click on **System** menu > **Preference** > **Save**.



- **Still Image:** Set still image related options.
 - **Folder:** Select a folder to save the still image.
 - **Filename:** Set a name of the folder for saving the still image. Supported extensions include JPG, WebP, PNG, TIF, BMP and PDF.
 - **Include Image Information:** Include image information in the saved still image file.
- **Clip-Copy:** Set video related options.
 - **Use Default File Path:** A video is automatically saved in the pre-set default file path with the default filename.
 - **Folder:** Set the default folder to use when saving a video.
 - **Filename:** Set the default filename to use when saving a video.
 - **Prompt for Case Number when saving:** Displays the Case Number input window when saving a video, and the entered Case Number is filled in the \${CaseNumber}.
 - **Create new folder using Case Number:** Displays the Case Number input window when saving a video, and a folder of the entered Case Number is created in the default file path. The video is saved in the created folder.

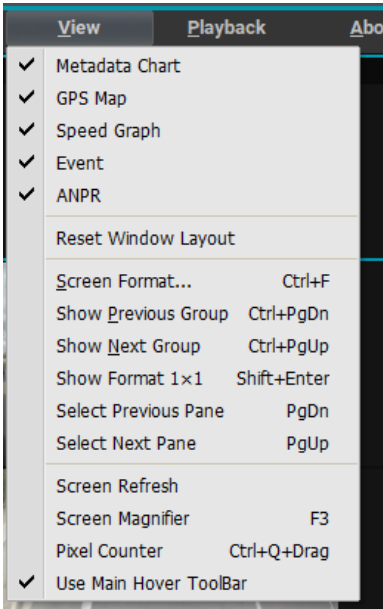
System Menu

System



- **Open File:** Opens a new file.
- **Open File Location:** Opens the folder where the currently playing clip file is saved.
- **Close File:** Closes the currently playing clip file.
- **Split File Playlist:** If the currently playing clip file is a split file, displays a list (playlist) of related playback files.
- **Recent Files:** Displays recently played clip files (up to 20).
- **FingerPrint Check:** Checks the validity of the entire section of the clip file.
- **Export:** A collection of tools for exporting data such as clips, videos, GPS datas, and still images.
- **iBank Migration:** Converts I-BANK 2.0 legacy clips (.ccf) to I-BANK 3.0 format (.cbf).
- **Preference:** Changes basic settings.
- **Exit:** Exits or restarts the program.

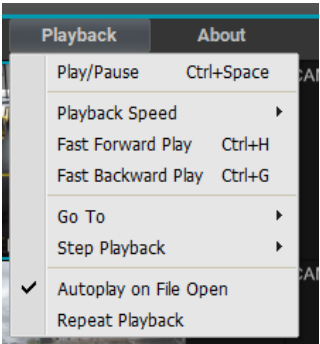
View



- **Metada Chart:** Show/hide the metadata panel, which visualizes the metadata recorded in the clip file.
- **GPS Map:** Show/hide the GPS map panel, which visualizes the GPS data recorded in the clip file on a map.
- **Speed Graph:** Show/hide the speed graph panel, which graphs the GPS data recorded in the clip file.
- **Event:** Show/hide the panel, which displays the event records recorded in the clip file.
- **ANPR:** Show/hide the ANPR event panel, which is recorded in the clip file.
- **Reset Window Layout:** Resets the layout to its initial state, doing so will reboot the player.
- **Screen Format:** Change screen layout.
- **Show Previous/Next Group:** Switch to previous or next camera group.
- **Show Format 1x1:** Shows as a 1x1 format and turn it off.
- **Select Previous/Next Pane:** Select the previous or next pane.
- **Screen Refresh:** Refresh the video in the screen pane in the Live or Plays tab.
- **Screen Magnifier:** Magnifies the area near the mouse cursor.
- **Pixel Counter:** Shows the information of the pixel of the selected area in Live or Plays.

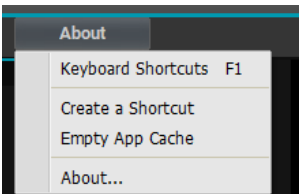
- **Use Main Hover ToolBar:** Sets whether the hover toolbar is displayed in the camera pane. When functions are executed via the context menu, the hover toolbar is displayed regardless of this setting.

Playback



- **Play/Pause:** Plays or pauses the currently loaded clip file.
- **Playback Speed:** Increases and decreases the playback speed.
- **Fast Forward/Backward Play:** Plays clip files forward or backward at high speed.
- **Go to:** Skips to the specific point of video to be played.
- **Step Playback:** Skips to previous or next video by frame or time.
- **Autoplay on File Open:** When checked, the file will start playing immediately when opened.
- **Repeat Playback:** When the playback clip ends, it will start playing again from the beginning.

About



- **Keyboard Shortcuts:** Displays a keyboard shortcut description pop-up.
- **Create a Shortcut:** Creates a shortcut icon. It also displays a popup asking if you want to pin it to the taskbar, and if you accept, the icon will be pinned to the taskbar.
- **Empty Add Cache:** Clears all app caches.
- **About:** Shows software version and copyright information.

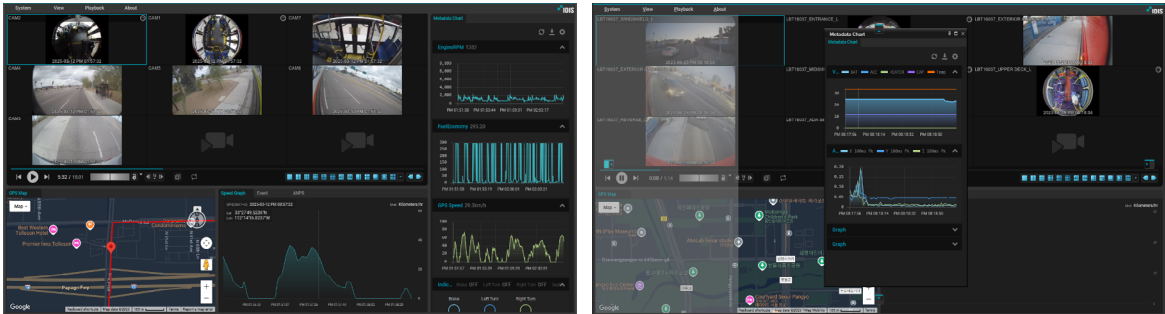
Mobile Player Use

Screen Configuration

On the mobile player, all tabs except for the 'Recorded Video Playback' tab support floating and docking features, allowing users to freely arrange them for convenience.

You can dock a tab by dragging its header area to the desired location. If it is dropped in a location where docking is not possible, it will automatically switch to a floating window.

If a tab is closed, it can be reopened from **System** menu > **View**.



Playback Screen



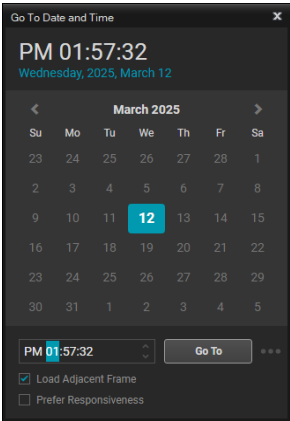
The playback screen can be displayed in various layout configurations. Initially, the system automatically detects the number of cameras and applies the optimal layout to appropriately arrange all video feeds.

Toolbar

The playback control UI on the mobile player allows users to perform a variety of functions as outlined below.



- (Playback Bar): Visually indicates how much of the video has been played. Clicking on a specific point moves the playback to the corresponding time. When hovering the mouse over the bar, scrolling the wheel allows you to move forward or backward in time.
- (Go to Start/Go to End): Moves the playback to the beginning or the end of the recorded video.
- (Pause/Play): Plays or pauses the recorded video.
- (Time Information [MM:SS]): Displays the current playback position and the total duration of the clip. Clicking on the time information allows you to access the date and time navigation feature.



- Entering a specific date and time and clicking **Go to** moves the playback to the specified point.
- Load Adjacent Frame: If there is no video at the selected time, playback jumps to the nearest available frame.
- Prefer Responsiveness: For Long-GOP videos, instead of seeking the exact frame corresponding to the specified time (which may reduce responsiveness), the system displays the nearest frame to maintain smoother playback performance.
- (Shuttle): Adjusts the playback method and speed. Jog shuttle's vertical indicator indicates the current playback direction and speed. Vertical indicator placement to the right of the center means the video is being played back in the forward direction. Placement to the left means the opposite. Farther away the vertical indicator from the center, faster the playback speed. Click and drag the vertical indicator to adjust the playback speed. Releasing the mouse

button returns the vertical indicator to the center and stops video playback. Clicking the (Lock) button and dragging the vertical indicator fixates the vertical indicator in the new position. Speed control is possible in lock mode with mouse wheel scroll in shuttle control.

- (Step Playback): Skips to previous or next video by frame or time. Skip increments can be adjusted by pressing the arrow between and . Moves forward/backward in units you set with mouse wheel scroll in step control.
- (Split File Control): This feature is enabled only when the video has been saved in separate segments. Hovering over the icon displays button for navigating to the previous or next file. Clicking it plays the corresponding file.
- (Loop Playback): This is a toggle button for enabling loop playback. When activated with clicking , the video will automatically return to the beginning and play repeatedly after reaching the end.
- (Layout): Changes layout. Various layouts can be selected by clicking + button. You can switch to previous or next camera group by clicking or .

In video surveillance, you can quickly control certain functions without switching modes by combining the keyboard and mouse. For more details, refer to **Smart UX Quick Control on page 68**.

Camera Control

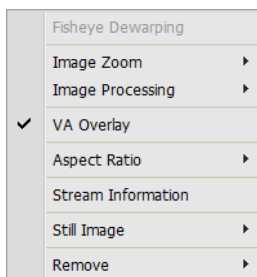
Select a camera screen and place the cursor over the camera screen to bring up control toolbar. The control toolbar can be used to control the selected camera. Place the cursor over each button to view tooltips for the button. If the control toolbar is downsized, you can move the toolbar left or right by scrolling the mouse wheel.



- (Fisheye Dewarping): Dewarp the fisheye camera image.
- (Zoom): Zooms the video.
- (Color Control) : Adjust the brightness, contrast, saturation and color of the current video. Click to reset all changes and restore the image to original settings.
- (Image Effect): Applies image effects.
- (Listen): Receives audio from the device.

Play screen menu

Select a camera screen and right-click to bring up the screen menu.



- **Fisheye Dewarping:** Dewarp the fisheye camera image.
- **Image Zoom:** Functions identically clicking to the corresponding buttons in control toolbar.
- **Image Processing:** Applies image effects.
- **VA Overlay:** Displays video analysis data over the monitoring video.
- **Aspect Ratio:** Sets the aspect ratio of video output.
 - **Fit to Screen:** Resizes video to camera screen regardless of original aspect ratio.

- **Fit to Screen(Smart):** Resizes video according to the extra spaces, to the **Fit to Screen** or **Actual Size**.
- **Fit to Screen(Aspect ratio):** Resizes video to camera screen while maintaining original aspect ratio.



Up, down, left, and right parts of the video may be cropped depending on size of camera screen. When using Image Zoom, aspect ratio of camera screen does not apply and **Original Ratio** is applied.

- **Original Ratio:** Resizes camera screen to original aspect ratio of the video.
- **Half Size (x0.5) - 4 Times Bigger (x4):** Displays the camera videos in the selected size based on the original size of the video.



The menu is activated only when there is sufficient space to display the camera video in the selected size.

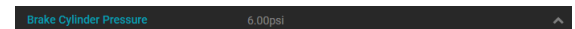
- **Stream Information:** Shows the stream information of the selected camera.
- **Still Image:** Saves the current frame of the video on the screen as an image file in actual size.
- **Remove:** Terminates connection.

Metadata Chart Panel

Mobile Player supports metadata charts that visualize metadata stored in recorded videos in the form of graphs, gauges, indicator lights, and strings by type.

<Chart Toolbar>

The toolbar displays the information of the chart.



- **Chart Name:** Displays the name of the chart.
- **Data Value:** Indicates the data value of the selected time.
- **(Collapse)** / **(Unfold):** Collapses/unfolds the site panel.

<Graph Chart>

The data can be illustrated as a line graph (available for all types except string). The number type is displayed as a typical line graph, and the boolean and enumeration types are displayed as a step line graph.



- **Unit:** Displays the unit of the y-axis value.
- **Marker Line (Dotted):** Indicates the playback time of the image.
- **Marker Line (Solid):** Hovering the mouse over the graph displays the corresponding time in a solid line. Clicking the mouse moves the image to the selected time.
- **Tooltip:** Displays the time and data information which belongs to the marker line (solid).

<Gauge Chart>

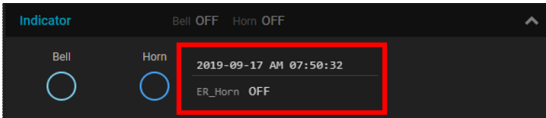
The data can be illustrated as a bar graph (available for the number type).



- **Unit:** Displays the unit of the x-axis value.
- **Tooltip:** Displays the time and data information of the current video playback time.
- **Value:** Displays the value of the current video playback time.

<Indicator>

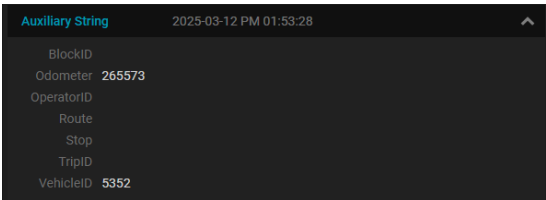
The indicators display on/off status of the data (available for the boolean type).



- **Tooltip:** Displays the time and data information of the current video playback time.

<Auxiliary String>

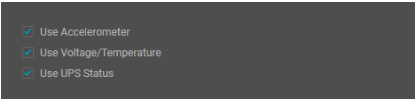
Name and value of data is displayed as a string (available for all types).



Metadata Settings

Configure the metadata popup and chart settings. The settings are applied to all of the metadata popups for IDIS Center.

<General>



- **Use Accelerometer:** Select to use an accelerometer in a metadata chart.
- **Use Voltage/Temperature:** Select to use a voltage/temperature in a metadata chart.
- **Use UPS Status:** Display UPS Status data in JSON format in a metadata chart.
- **Metadata Chart Auto Popup:** A metadata chart window automatically pops up when connecting to a device which includes metadata. (This is supported only for IDIS Center)
- **GPS Map Auto Popup:** A GPS map window automatically pops up when connecting to a device which includes GPS data. (This is supported only for IDIS Center)
- **Speed Graph Auto Popup:** A speed graph window automatically pops up when connecting to a device which includes speed data. (This is supported only for IDIS Center)

<Metadata>

A metadata chart window automatically pops up when connecting to a device which includes metadata. Click the  button and use the mouse wheel or up/down arrow buttons on the keyboard to change the order.

No	Identifier	Name	Type	Display Type	
1	ER_BCP	Brake Cylind...	Numeric	Graph	⬆⬇⬆
2	ER_BFP	Brake Pipe Pr...	Numeric	Graph	⬆⬇⬆
3	ER_Speed	Speed	Numeric	Gauge	⬆⬇⬆
4	LDVR_GpsSp...	GPS Speed	Numeric	Graph	⬆⬇⬆
5	ER_PWM	PWM	Numeric	Graph	⬆⬇⬆
6	ER_Throttle	Throttle	Enumeration	Graph	⬆⬇⬆
7	ER_Bell	Bell	Boolean	Indicator	⬆⬇⬆
8	ER_Horn	Horn	Boolean	Indicator	⬆⬇⬆
9	ER_Direction	Direction	String	String	⬆⬇⬆
10	ER_Time	Time	String	String	⬆⬇⬆
11	LARI_Firmwar...	F/W Version	String	String	⬆⬇⬆
12	LARI_SerialN...	Serial Number	String	String	⬆⬇⬆

+

-







OKCancel

- **+** (**Add**): Adds a metadata item.
- **-** (**Delete**): Deletes a metadata item.
- **[Edit]** (**Edit**): Edits information of a metadata item.
- **[Import]** (**Import Saved File**): Imports a file with the saved metadata item and applies to the item list.
- **[Save]** (**Save as File**): Saves a metadata item information as a JSON (.json) file.

<Add/Modify Metadata>

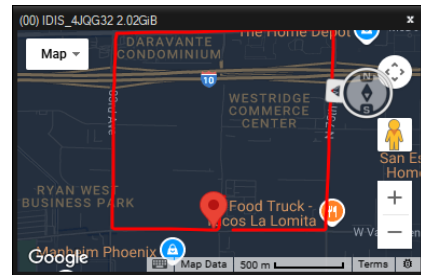
Item	Name	Value
	IDLE	0
	TN1	1
	TN2	2
	TN3	3

- **Identifier:** Distinguishes the metadata.
- **Name:** Displayed on the toolbar of the metadata chart.
- **Type:** Displays the type of the metadata value (Boolean, String, Numeric, Numeration).
- **Display Type:** Displays the type of the metadata chart (Graph, Gauge, Indicator, String).
- **Use Line Graph:** Displays the data as a line graph.
- **Unit:** Select the unit of the metadata. Selecting Custom allows you to manually enter the unit.
- **Color:** Select colors for graph, gauge and indicator using the color picker.
- **Use Default Color:** Uses the default color without selecting a color in particular.

- **Duration Time:** Used for the string type. Select the duration time of string.
- **Infinite:** Set the string duration time as infinite. The string is displayed until the next string data is displayed.
- **Min Value/Max Value:** Used for graph and gauge type. Select the minimum/maximum value of the graph.
- **Item:** Used for enumeration type. Enter name and value to define the item. Click **+** (Add), **-** (Delete), **[Edit]** (Edit) buttons to apply the enumeration items to the list.

GPS Map Panel

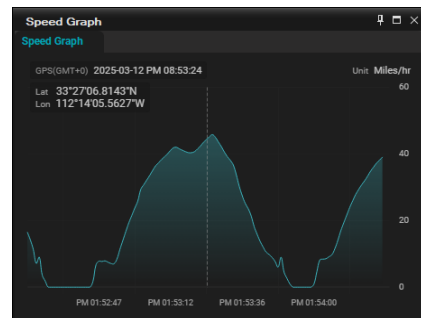
Mobile Player displays the vehicle location and travel route from recorded video GPS information and supports functions supported by Google Maps (street view, satellite map, etc.).



- You can turn it on and off from **System menu > View**.
- Clicking on a path or dragging and dropping a marker on the path will move to the point corresponding to the location.

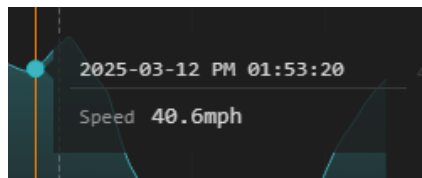
Speed Graph Panel

Mobile Player supports speed graphs that visualize latitude, longitude, altitude information and vehicle speed contained in recorded video GPS information.

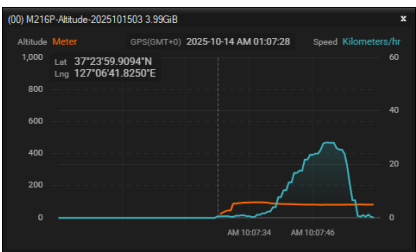


- You can turn it on and off from **System menu > View**.
- Get GPS information by load balancing based on the current time.

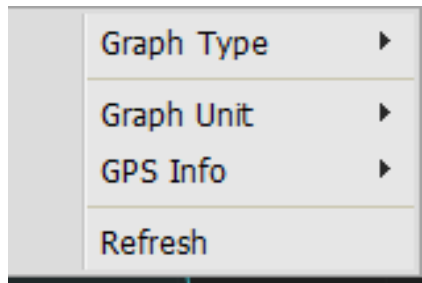
- Hovering the mouse, you can see detailed speed information as a tooltip, and when you click, you can move to the corresponding time.



- If the GPS data of the video includes altitude information, an orange line will be added to indicate the altitude values.



You can set options related to Speed Graph through the context menu when you right-click the mouse.



- Graph Type: Change the graph type to Consecutive Line, Consecutive Curve, Staraight Line, and Bar Graph.
- Graph Unit: Set the speed units (Kilometers/hr, Miles/hr, Knots) and altitude display units (Meters, Feet).
- GPS Info: Turn on/off GPS time/latitude/longitude information.
- Refresh: Refresh the speed graph.

Event Panel

Mobile Player supports an event panel that displays event records contained in recorded video in list format.

Time	Event	Device	Data
2025-03-12 PM 01:52:00	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:01	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:02	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:03	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:04	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:05	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:06	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:07	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:08	Text-In	Text-In 2	IVN Text-In Data

- You can turn it on and off from **System menu > View**.
- : Filter events by entering keywords corresponding to the event/device/data.
- Clicking an event goes to that point in time.
- **Page 01** **/ 2**: Move to the next/previous page by pressing or .
- You can also easily navigate between pages using the overlay window that appears when you click **Page 01**.

Time	Event	Device	Data
2025-03-12 PM 01:52:00	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:01	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:02	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:03	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:04	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:05	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:06	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:07	Text-In	Text-In 2	IVN Text-In Data
2025-03-12 PM 01:52:08	Text-In	Text-In 2	IVN Text-In Data

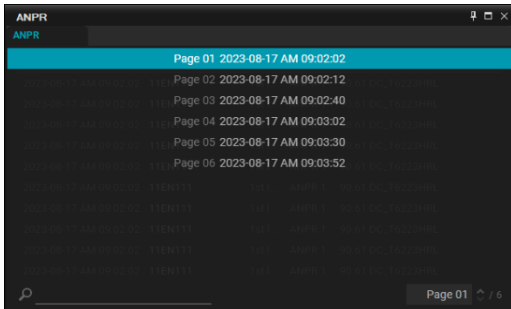
ANPR Event Panel

Mobile Player supports ANPR event panel that displays ANPR records contained in recorded video in list format. It can be turned on and off from **System menu > View**.

Time	Number Plate	Lane	Device	Data
2023-08-17 AM 09:02:02	11EN111	1st L.	ANPR 1	90.61 DC_T6223HRL
2023-08-17 AM 09:02:02	11EN111	1st L.	ANPR 1	90.61 DC_T6223HRL
2023-08-17 AM 09:02:02	11EN111	1st L.	ANPR 1	90.61 DC_T6223HRL
2023-08-17 AM 09:02:02	11EN111	1st L.	ANPR 1	90.61 DC_T6223HRL
2023-08-17 AM 09:02:02	11EN111	1st L.	ANPR 1	90.61 DC_T6223HRL
2023-08-17 AM 09:02:02	11EN111	1st L.	ANPR 1	90.61 DC_T6223HRL
2023-08-17 AM 09:02:02	11EN111	1st L.	ANPR 1	90.61 DC_T6223HRL
2023-08-17 AM 09:02:02	11EN111	1st L.	ANPR 1	90.61 DC_T6223HRL
2023-08-17 AM 09:02:02	11EN111	1st L.	ANPR 1	90.61 DC_T6223HRL
2023-08-17 AM 09:02:02	11EN111	1st L.	ANPR 1	90.61 DC_T6223HRL

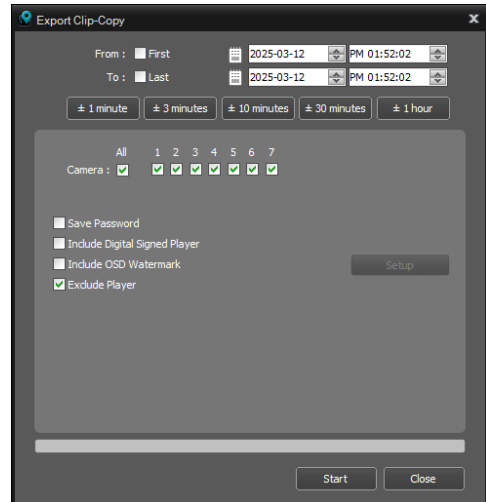
- : Search for events by entering keywords corresponding to license plate / lane / device / data.
- Clicking the ANPR event goes to that point in time.

- **Page 01**   / 2 : Move to the next/previous page by pressing  or .
- You can also easily navigate between pages using the overlay window that appears when you click **Page 01**



Export Clip-Copy

Saves video recording as a clip-copy file. Click **System menu > Export > Export Clip-Copy**.



- **From, To:** Enter the date and time of the recording you wish to save as video.
 - **First:** Sets date and time of the first video as the start point.
 - **Last:** Sets date and time of the last video as the end point.
 - **±1 Minute, ±3 Minutes, ±10 Minutes, ±30 Minutes, ±1 Hour:** Adds or subtracts the amount of time from the time currently selected on the timetable.
- **Camera:** Select the camera to save recorded video.
- **Save Password:** Set a password for playing the video. When a password is set, the viewer program asks for password while running.
- **Include Digital Signed Player:** Includes digital signed player to play recorded clip.
- **Include OSD Watermark:** Saves the specified watermark(text or text pattern) with the video.
- **Exclude Player:** Saves only the video recording without mobile player.

Export Video

Saves video recording as AVI file(.avi). Click **System menu > Export > Export Video**.

- **From, To:** Enter the date and time of the recording you wish to save as video.
 - **First:** Sets date and time of the first video as the start point.
 - **Last:** Sets date and time of the last video as the end point.
 - **±1 Minute, ±3 Minutes, ±10 Minutes, ±30 Minutes, ±1 Hour:** Adds or subtracts the amount of time from the time currently selected on the timetable.
- **Camera:** Select the camera to save recorded video.
- **Codec, Bitrate, Quality:** Set the appropriate value for video compression.
 - **Encoding Based on Bitrate:** Encodes video based on bitrate.
 - **Encoding Based on Video Quality:** Encodes video based on video quality.
- **Size:** Set the file size for the compressed video, then select aspect ratio.
 - **Original Ratio:** Resizes camera screen to original aspect ratio of the video.
 - **Fit to Screen:** Resizes video to camera screen regardless of original aspect ratio.

- **Fit to Screen(Aspect ratio):** Resizes video to camera screen while maintaining original aspect ratio.



Up, down, left, and right parts of the video may be cropped depending on size of camera screen. When using Image Zoom, aspect ratio of camera screen does not apply and **Original Ratio** is applied.

- **Anti-Aliasing:** Removes stair step effect (blocks) that are caused when zooming a video to improve overall quality of video output.
- **Keyframe:** Set the interval of key frames for video compression.
- **Max File Size:** Set the maximum size of the file.
- **Fisheye Dewarping:** Saves the video as dewarped image displayed on the screen. This function is only activated in a single camera with the activated dewarping function. The video can be saved in panoramic or VR mode.
- **Include Audio Data, NVR Audio Included:** Only a single channel is supported if the video was saved with audio.



If the video is recorded at a size smaller than 1tps, saving audio may not be successful.

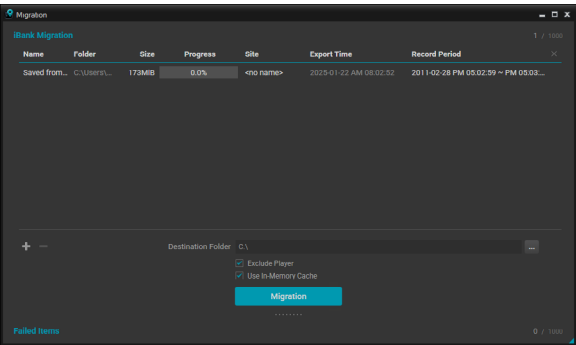
- **Save Split File:** If the file size of the saved recording exceeds **Max File Size**, the video is saved into multiple files while not exceeding the maximum file size.



If Save Split File is not enabled, output file will be limited to the maximum file size.

- **Include OSD Watermark:** Saves the specified watermark(text or text pattern) with the video.
- **View Proceeding Frames:** Shows the current frame being saved in a popup screen while saving.

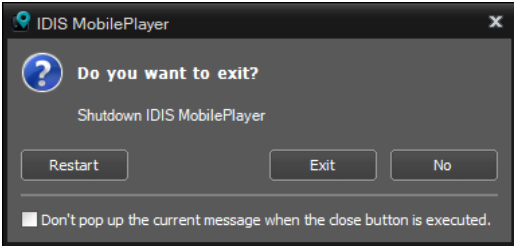
iBank Migration



- **Name:** Displays the file name of the original clip.
- **Folder:** Displays the path where the original clip is located.
- **Size:** Displays the file size of the original clip.
- **Progress:** Displays the migration progress.
- **Site:** Displays the device name.
- **Export Time:** Displays the time when the original clip was saved.
- **Record Period:** Displays the duration for which the original clip was saved.
- : Adds the clips to be converted to the list.
- : Removes the selected clip from the list.
- : Selects the folder where the converted clips will be saved.
- **Exclude Player:** Does not include the self-player in the clip.
- **Use In-Memory Cache:** Conversion is performed in In-Memory Cache mode, which improves speed but uses additional memory equivalent to the clip size.

Exit Program

When you exit the Mobile Player, a confirmation message pops up.



If you check **Don't pop up the current message when the close button is executed** and then exit, the message pop-up will not appear when you exit from the next time. To disable this setting, click **System menu > Exit...** and uncheck the option.



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