



Network Video Recorder

Operation Manual

DR-6216P-S

DR-6232P-S

Powered by ***Direct IP™***



Before reading this manual

This operation manual contains basic instructions on installing and using DirectIP™ Network Video Recorder, an IDIS product.

Users who are using this product for the first time, as well as users with experience using comparable products, must read this operation manual carefully before use and heed to the warnings and precautions contained herein while using the product. Safety warnings and precautions contained in this operation manual are intended to promote proper use of the product and thereby prevent accidents and property damage and must be followed at all times. Once you have read this operation manual, keep it at an easily accessible location for future reference.

- ✓ • The manufacturer will not be held responsible for any product damage resulting from the use of unauthorized parts and accessories or from the user's failure to comply with the instructions contained in this operation manual.
- It is recommended that first-time users of DirectIP™ Network Video Recorder and individuals who are not familiar with its use seek technical assistance from their retailer regarding product installation and use.
- If you need to disassemble the product for functionality expansion or repair purposes, you must contact your retailer and seek professional assistance.
- Both retailers and users should be aware that this product has been certified as being electromagnetically compatible for commercial use. If you have sold or purchased this product unintentionally, please replace with a consumer version.

Safety Precautions


	CAUTION	
RISK OF ELECTRIC SHOCK DO NOT OPEN		
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Symbol	Publication	Description
	IEC60417, No.5032	Alternating current

1. Read Instructions

All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions

The safety and operating instructions should be retained for future reference.

3. Cleaning

Unplug this equipment from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

4. Attachments

Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

5. Water and/or Moisture

Do not use this equipment near water or in contact with water.

6. Ventilation

Place this equipment only in an upright position. This equipment has an open-frame Switching Mode Power Supply (SMPS), which can cause a fire or electric shock if anything is inserted through the ventilation holes on the side of the equipment.

7. Accessories

Do not place this equipment on an unstable cart, stand or table. The equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.



This equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

8. Power Sources

This equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your equipment dealer or local power company. You may want to install a UPS (Uninterruptible Power Supply) system for safe operation in order to prevent damage caused by an unexpected power stoppage. Any questions concerning UPS, consult your UPS retailer.

This equipment should be remain readily operable.

9. Power Cords

Operator or installer must remove power and TNT connections before handling the equipment.

10. Lightning

For added protection for this equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the equipment due to lightning and power-line surges.

11. Overloading

Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

12. Objects and Liquids

Never push objects of any kind through openings of this equipment as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the equipment.

13. Servicing

Do not attempt to service this equipment yourself. Refer all servicing to qualified service personnel.

14. Damage requiring Service

Unplug this equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- A. When the power-supply cord or the plug has been damaged.
- B. If liquid is spilled, or objects have fallen into the equipment.
- C. If the equipment has been exposed to rain or water.
- D. If the equipment does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the equipment to its normal operation.
- E. If the equipment has been dropped, or the cabinet damaged.
- F. When the equipment exhibits a distinct change in performance this indicates a need for service.

15. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

16. Safety Check

Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in proper operating condition.

17. Field Installation

This installation should be made by a qualified service person and should conform to all local codes.

18. Correct Batteries

Warning: Risk of explosion if battery is replaced by an incorrect type. Replace only with the same or equivalent type. Dispose of used batteries according to the instructions. The battery shall not be exposed to excessive heat such as sunshine, fire or the like.

19. Tmra

A manufacturer's maximum recommended ambient temperature (Tmra) for the equipment must be specified so that the customer and installer may determine a suitable maximum operating environment for the equipment.

20. Elevated Operating Ambient Temperature

If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (Tmra).

21. Reduced Air Flow

Installation of the equipment in the rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.

22. Mechanical Loading

Mounting of the equipment in the rack should be such that a hazardous condition is not caused by uneven mechanical loading.

23. Circuit Overloading

Consideration should be given to connection of the equipment to supply circuit and the effect that overloading of circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

24. Reliable Earthing (Grounding)



Reliable grounding of rack mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

HDMI Port Precautions

- Use a certified cable marked with an HDMI logo when using an HDMI. The screen may not appear or a connection error may occur if you do not use a certified HDMI cable.
- It is recommended that you use the following HDMI cable type.
 - High-speed HDMI Cable
 - High-speed HDMI Cable with Ethernet

Important Safeguards

In-Text

Symbol	Type	Description
	Caution	Important information concerning a specific function.
	Note	Useful information concerning a specific function.

User's Caution Statement

Caution: Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

FCC Compliance Statement

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE, IN WHICH CASE USERS WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT THEIR OWN EXPENSE.

WARNING: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS CLASS OF DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE CAUSING EQUIPMENT REGULATIONS.

WEEE (Waste Electrical & Electronic Equipment)

Correct Disposal of This Product

(Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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The information in this manual is believed to be accurate as of the date of publication even though explanations of some functions may not be included. We are not responsible for any problems resulting from the use thereof. The information contained herein is subject to change without notice. Revisions or new editions to this publication may be issued to incorporate such changes.

The software included in this product contains some Open Sources. You may obtain the complete corresponding source code from us. See the Open Source Guide on the software CD (OpenSourceGuide\OpenSourceGuide.pdf) or as a printed document included along with the Manual.

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Part 1 - Getting Started

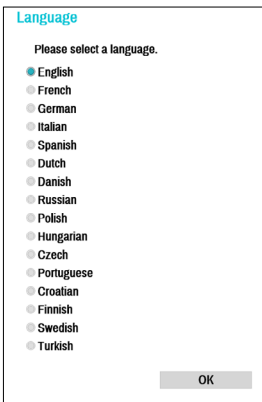
This document covers the 8-, 16-, and 32-channel network video recorders. The NVRs are identical except for the number of cameras and alarms that can be connected and the number of cameras that can be displayed. For simplicity, the illustrations and descriptions in this document refer to the 32-channel model.

Setup Wizard

Setup Wizard lets you configure basic settings required for operating the system.

Setup Wizard only appears during initial booting. When you login as an administrator account after initial booting, you can use Wizard to go to Live menu and select Wizard.

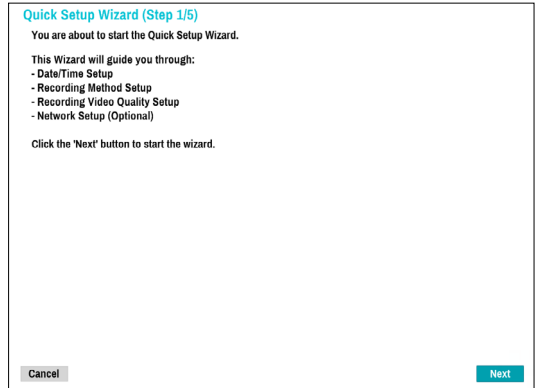
1 Select a system language.



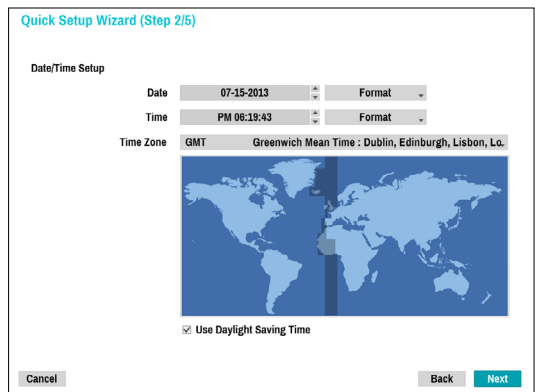
Select **Cancel** from any of the Wizard screen to cancel the setup process and return to the main setup menu.

Quick Wizard

1 Select Quick Wizard.

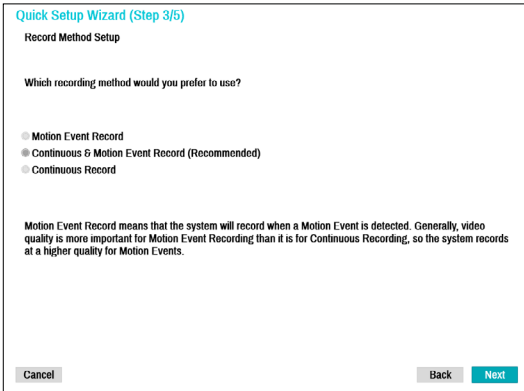


2 Specify the current date and time and then click **Next**.



- The new date and time settings will only be applied after clicking **Next**.
- For more information on date and time settings, refer to the **Date/Time** section under **System Setup on page 29**.

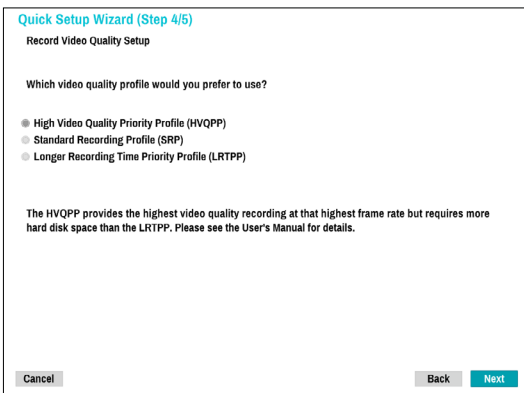
3 Choose the desired **Recording Method** and click **Next**.



– Recording resolutions used under each recording method and record video quality setting are as follows:

	High Video Quality Priority Profile	Standard Recording Profile	Longer Recording Time Priority Profile
Motion Event Record	Very high	High	Standard
Continuous & Motion Event Record	High (Continuous) / Very high (Motion)	Standard (Continuous) / High (Motion)	Low (Continuous) / Standard (Motion)
Continuous	Very high	High	Low

4 Choose the desired **Recording Quality** and click **Next**.



5 Click **Finish** to exit Quick Wizard.



- Higher recording quality uses up more disk space.
- Recording resolution is determined based on the selected recording quality.
 - **High Video Quality Priority Profile:** Very high
 - **Standard Recording Profile:** High
 - **Longer Recording Time Priority Profile:** Standard

Network Wizard

- After exiting from Quick Wizard, the network with Network Wizard will start automatically.

1 Select Network Wizard.

Network Setup Wizard (Step 1/5)

Network Wizard will help configure the Device for your Network.

Please make sure to connect an Ethernet cable between your device and router or cable modem.

The wizard includes:

- LAN Setup
- UPnP (Port forwarding) Setup
- FEN Setup

Click the 'Next' button to start the wizard.

2 Specify whether the system is connected to the Internet and click **Next**.

Network Setup Wizard (Step 2/5)

Internet Connection

Is your Device connected to the Internet?

Yes (I will use an Internet connection)

No (I will Not use an Internet connection)

- If you have chosen **No**, wait for the test to finish and then click **Finish** to exit Network Wizard.

3 Select Network Configuration and then click **Next**. Select either Auto Configuration or Manual Configuration and then click **Test** to test the system's current network configuration.

Network Setup Wizard (Step 3/5)

LAN Setup

Auto Configuration - Test

- ✓ Get IP, Gateway, Subnet Mask
- ✓ Search DNS Server
- ✓ Check Internet connectivity
- ✓ Search UPnP/PortForwarding
-> Update has succeeded

Your network has been configured successfully! Please press 'Next' to continue...

- This test must be performed before proceeding to the next step.
- If the NVR is on a network connected to a network that has a DHCP server, selecting **Auto Configuration** retrieves LAN settings such as IP and DNS addresses automatically. Selecting **Manual Configuration**, on the other hand, lets you specify the settings manually.
 - **UPnP support device not found.** If this error message is displayed, check to see if the IP router (or NAT) supports UPnP and if UPnP has been enabled. For more information about the router's UPnP function, refer to the router's operation manual.

- 4 Enter in the **Device Name** field the NVR name to be registered on the FEN server and then click **Check** to check its availability.

The screenshot shows the 'Network Setup Wizard (Step 4/5)' window. At the top, it says 'FEN Setup'. There is a checked checkbox for 'Use FEN'. Below that, there are three input fields: 'Device Name' with a 'Check' button next to it, 'FEN Server' with the value 'fen.idisglobal.com' and a 'Default' button, and 'Port' with the value '10088' and a 'Default' button. A note below the fields reads: 'You may register your device name and use it instead of the IP address when accessing the device through internet. Type in your preferred device name and check its availability.' At the bottom, there are 'Cancel', 'Back', and 'Next' buttons.

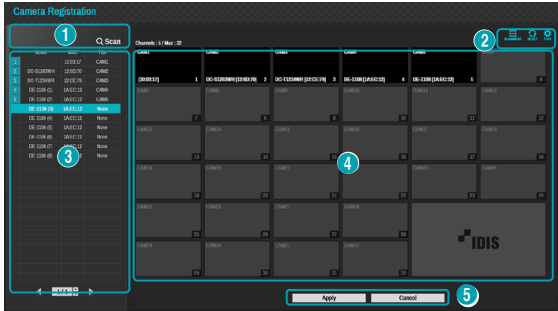
- 5 Click **Finish** to exit Network Wizard.

The screenshot shows the 'Network Setup Wizard (Step 5/5)' window. It displays the message: 'You have now completed your network setup. Click 'Finish' to complete the setup wizard'. At the bottom, there are 'Cancel' and 'Finish' buttons.

- The device name you register on the FEN server will be a unique name used to identify the NVR. Once registered, the name can be used to access the NVR directly from clients such as the IDIS Center. Check the name's availability to complete the registration process. The Finish button will then become activated. You will be prompted with an error message if you do not enter a name for the NVR or enter a name already registered on the FEN server.
- Depending on the network environment, FEN services may not be active and therefore prevent the NVR from connecting to the network. In this case, you will need to manually configure the ports. For more information on port configuration, refer to **Network Setup on page 65**.

Camera Registration

Once Network Setup Wizard is complete, the system will automatically enter Camera Registration mode and scan for cameras connected to the NVR.



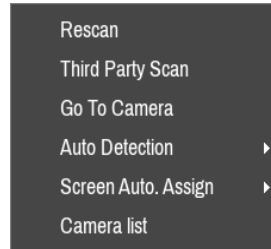
1	Camera Scan Button
2	Camera View Menus
3	Camera List Area
4	Video Display Area
5	Apply/Cancel Buttons

- You can also register cameras on the remote program. For more information on the remote camera registration, refer to [Registration on page 39](#).

Camera Scan Button

You can scan and search and register cameras that were not detected automatically or third party cameras.

Pressing the **Scan** button displays the following submenu.



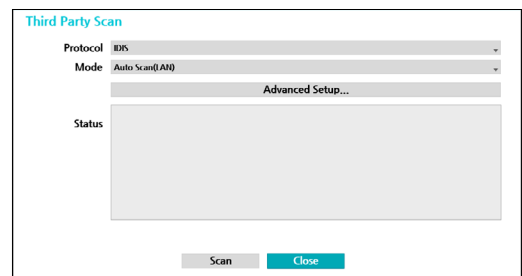
Rescan

Scans for DirectIP™ cameras that were not scanned automatically.

Third Party Scan

Used to manually scan for third-party cameras that cannot be recognized by the auto scan feature.

- Some functions may not be supported for the third-party cameras depending on their protocol and model.



- **Protocol:** Select the protocol used by the camera (or video encoder) you wish to search for.

- Even if the network device uses a protocol supported by the NVR, the device itself may not be visible for scanning and registration by the NVR. For more information about supported network devices and models, contact your retailer.

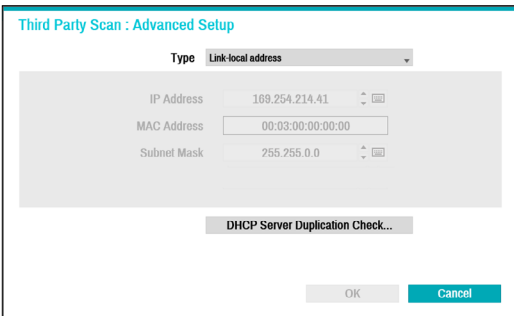
- **Mode:** Select the scan mode.
 - **Auto Scan (LAN):** Lists cameras in a LAN environment. If **Auto Scan (LAN)** fails to recognize

a camera, try using **IP Address Scan** instead.

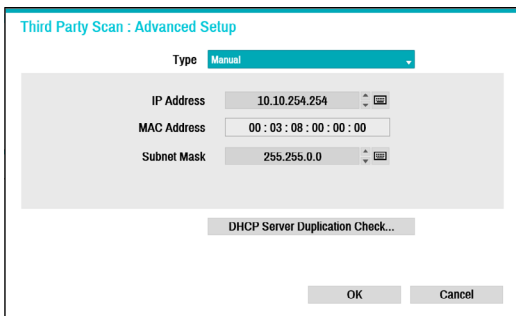
- **IP Address Scan:** Enter the IP address of a camera. The NVR scans for the camera matching the specified address. If you enter IP address's range, the NVR scans for cameras falling under the specified address's range. By specifying an IP address, you can also specify which port to use with the Remote Admin feature. It is recommended that the camera not be networked via DHCP (Dynamic Host Configuration Protocol). If the camera is networked via DHCP, connection to the camera may not be made properly depending on changes in the external network environment.

- **Advanced Setup:** If the camera is networked but not scanned, use this setup. This setup allows you to change the network setting of the NVR's VIDEO IN port which is camera's network environment. Check the camera's network setting first before you use this setup.

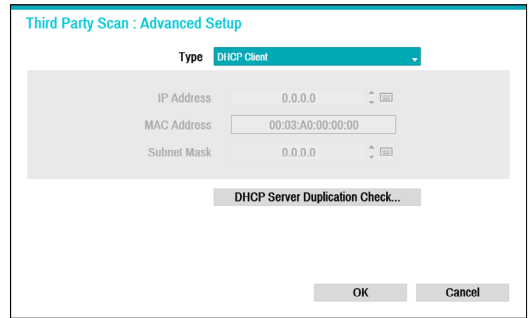
Make sure that this setting does not conflict with the WAN setting. For more information on the WAN setting, refer to **WAN on page 67**.



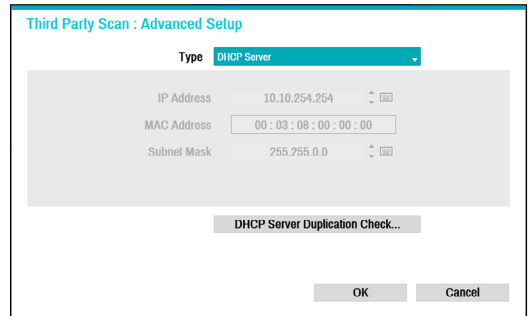
- **Link-local address:** Indicates the default IP address.



- **Manual:** Allows you to enter the IP address and other network settings manually.



- **DHCP Client:** Retrieves an IP address and other network settings automatically from a DHCP server.



- **DHCP Server:** It makes the NVR run as a DHCP server. Check if there is another DHCP server on the same network. If there is no DHCP server, this option is enabled. The NVR allocates an IP address automatically in the range of **10.10.0.128** to **10.10.254.254** by using DHCP to the camera connected to the NVR's VIDEO IN port. On **DHCP Server**, Video In Network is connected between NVR and network cameras only, so Gateway does not have any meaning. **Subnet Mask** is 255.255.0.0(Class B).

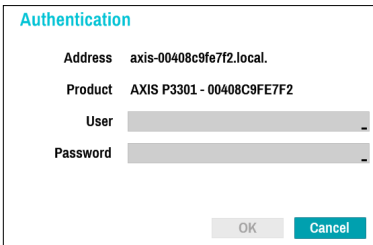
- When several NVRs exist in the same network, only one of NVRs has to be run as a DHCP server. If several DHCP servers are running, the redundant IP may be allocated to the camera.
- The range of 10.10.0.1 to 10.10.0.127 is not recommended because NVR system already has the IP address.

1 Select **Scan** to commence scanning.

Only cameras that are connected to the NVR via VIDEO IN ports can be scanned and registered.

2 Select a camera from the scan list and then select **Add Camera**. The device login window will appear.

3 Enter a **User ID** and a **Password** for the selected camera.



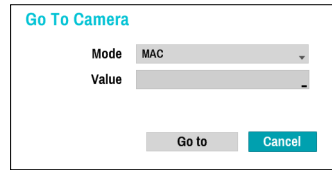
The Authentication dialog box displays the following information:

- Address:** axis-00408c9fe7f2.local.
- Product:** AXIS P3301 - 00408C9FE7F2
- User:** [Text input field]
- Password:** [Text input field]

Buttons: OK, Cancel

Go To Camera

Moves the focus automatically to the camera using the MAC address of camera in the camera list.



The Go To Camera dialog box contains the following fields and buttons:

- Mode:** MAC (dropdown menu)
- Value:** [Text input field]
- Go to:** [Button]
- Cancel:** [Button]

Auto Detection

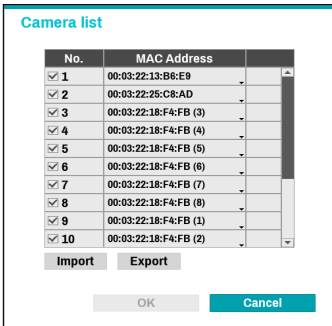
Activated in Live mode. Automatically notifies the user of unregistered DirectIP™ camera connections.

Screen Auto. Assign

Assigns the detected cameras on the video display area.

Camera list

By using the camera information file, .csv, the user can register the cameras easily.



- **Export** : Exports the list of camera information on USB as a .csv file.
- **Import** : Imports a camera information file, .csv file. The user can edit a csv file directly.



- A column indicates camera number, B column the camera MAC address, C column the Video In port of the video encoder. C column indicates only for video encoders. if camera information displays as follows: 5,00:11:22:18:30:20,3, 5 = CAM 5, 5,00:11:22:18:30:20 = MAC address, 3 means video encoder.
- Before using this feature, the cameras must be scanned first. If the cameras to be registered do not exist in the list, the camera cannot be registered.

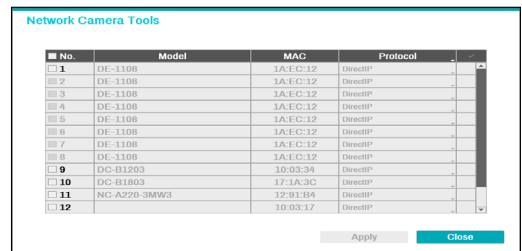
Camera View Buttons

- **ALIGNMENT** Button: Realigns camera screens displayed on the video display area in the order of **Video In** port connections.
- **RESET** Button: Refreshes the video display area and the camera list.



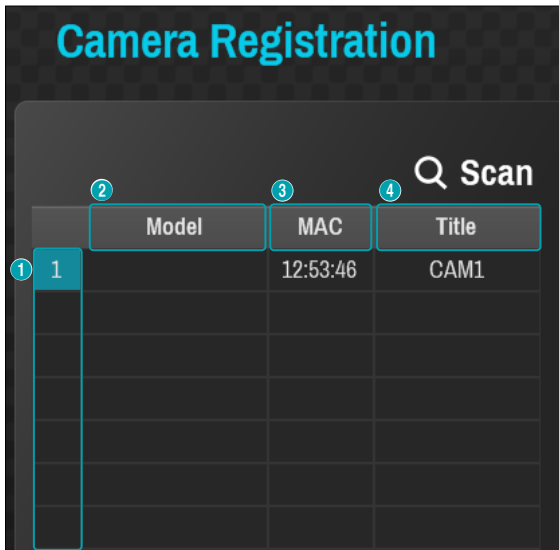
Selecting **RESET** clears all scanned devices from the list.

- **Tool** Button: Displays network camera tool window and changes the camera protocol.



IDIS cameras can be detected automatically but IDIS protocol cannot be detected automatically. We recommend you use the DirectIP protocol to detect the cameras automatically. When you change the protocol, the camera reboots and then you can register the camera on the NVR. For more information on the settings, please refer to the network camera manual.

Camera List Area



	Registered	5	DE-1104 (4)	14:21:8F	CAM5
Screen display	Initial registration	6	MNC321BR	1D:2F:CF	CAM6
	other NVRs (Registration X)	7	DC-S1263WH	12:6D:90	CAM7
	Initial registration	8	MNC321BR	1D:69:A1	CAM8
Screen No display	Initial registration		DE-1104 (1)	14:21:8F	None
	other NVRs (Registration X)		MNC321BR	1D:2F:CE	None

- Screen Position/Registration Status:** Identifies the camera's position in the video display area. A blue background indicates a camera that is available for registration. A grey background indicates an already registered camera. Other registered cameras are shown in black background.
- Model:** Indicates the camera's model.
- MAC:** Displays the last 6 digits of the camera's MAC address.
- Title:** Indicates the camera's name. Changing a camera's name in the video display area updates the camera list as well.

Following options can be accessed by right-clicking on a camera list entry:

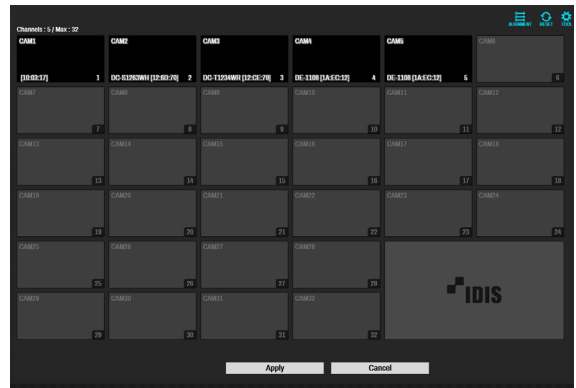
- Add/Remove Camera:** Adds or removes the selected camera. The Add Camera option is inactive if the camera has already been added to the screen.
- Authentication:** Enter the necessary camera login info. This option is inactive for DirectIP™ / IDIS cameras because they do not require logins. This option is inactive for IDIS protocol only if the password is set.

Video Display Area

Left-click on the video display area to toggle between split screen and single screen modes.

Drag the camera screens around to rearrange them.

The maximum number of the channels that can be registered on the NVR and the current registered camera channels display on the upper left corner of each screen.



Camera Screen



1 Camera Title

Indicates the camera's title. Left-click on the title to edit the camera's title.



2 MAC Address

Camera's model and MAC address are shown if the camera has not been registered to the NVR.

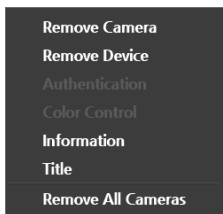
3 Screen Position/Registration Info

Flashes in orange if the camera has not been registered to the NVR.

- Information is not indicated on the bottom of the screen for cameras already registered to the NVR, and the **Screen Position/Registration Info** icon is shown with a black background.
- Screen Position/Registration Info** icon for cameras registered to another NVR is shown with a steady orange background on top of a grey screen.

Camera Menu

Right-click on the video display area to bring up the camera menu.

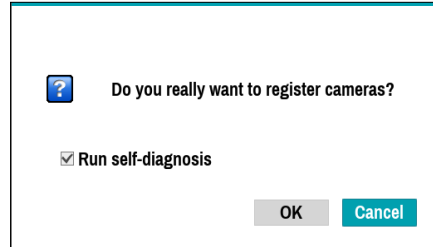


- **Remove Camera:** Removes the registered camera.
- **Remove Device:** Removes the registered encoder.
- **Authentication:** Enter the necessary camera login info.
- **Color Control:** Adjusts the camera's color settings.
- **Information:** Displays the camera's basic information.
- **Title:** Edits the camera's title.
- **Remove All Cameras:** Removes all registered cameras.

- You can drag & drop to add or remove cameras.

Apply/Cancel Buttons

While in Camera Registration mode, select **Apply** to register all changes. When selecting **Apply**, the following message will be displayed. You can activate or deactivate Self-diagnosis.



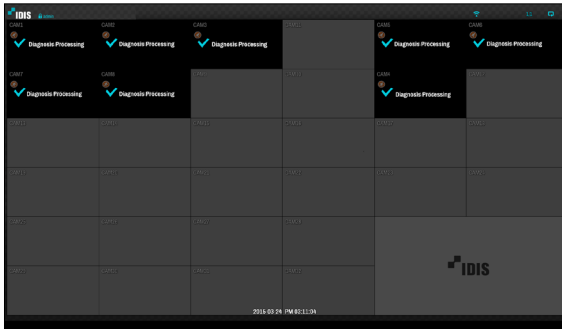
Select **Cancel** to exit Camera Registration mode without applying the changes.

- It is not possible to register a camera that has already been registered to a different NVR.

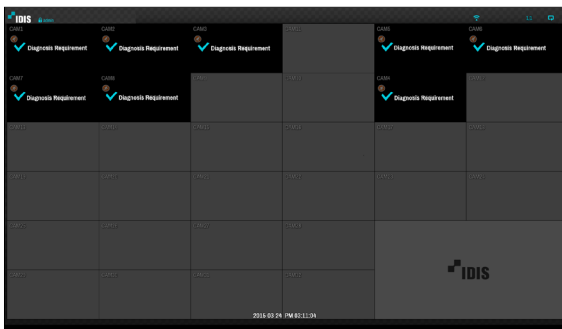
Diagnosis Process

When the camera is registered to the NVR, **Self-diagnosis** runs automatically for the new registered and changed cameras.

If **Self-diagnosis** is processing, **Diagnosis Processing** message will be displayed.

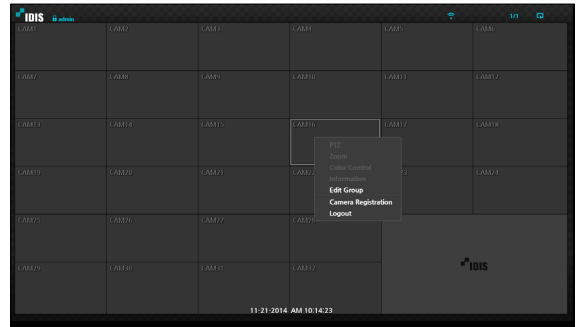


If **Self-diagnosis** is failed, **Diagnosis Requirement** message will be displayed. In this case, you can run **Self-diagnosis** manually. For more information, refer to the [Self-Diagnosis on page 38](#).

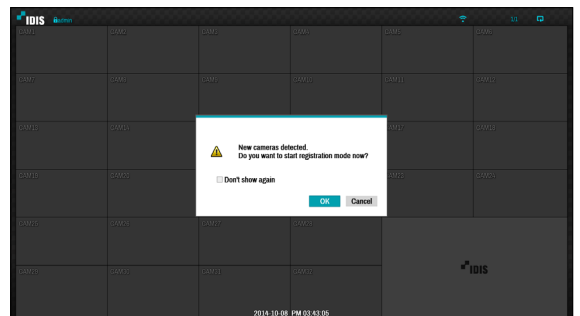


Camera Registration Mode

While in Live mode, right-click and select **Camera Registration**.



If Auto Detection has been enabled, a message will appear while in Live mode when a new camera is detected.




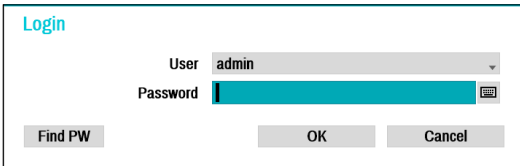
Select **OK** to enter Camera Registration mode.

- Auto Detection should be disabled if no more camera connections are expected.


Login


Configuring the NVR's settings and accessing its searching and other functions require an authorized user login.

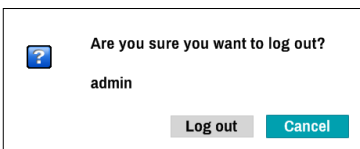
1 Bring up the Live menu and either press the **SETUP** button on the remote control or click on  (Login) using the mouse.



2 Select a user, enter the password, and then select **OK**.

- There is no default password for the admin account. Select **admin** and then **OK** without entering a password to log in.
- Leaving the admin account unassigned with a password poses a security risk. Please assign a password at your earliest convenience. A warning message will continue to be displayed until a password is assigned.
- Click on the  button next to the password field using the mouse. This will bring up a virtual keyboard you can use to assign a password. For more information on using the virtual keyboard, refer to the **[Text Input via Virtual Keyboard on page 28](#)**.

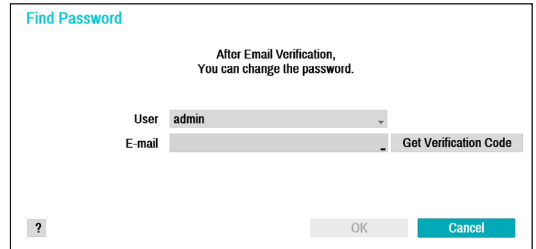
3 To log out, bring up the Live menu and click on  (Log out) using the mouse.



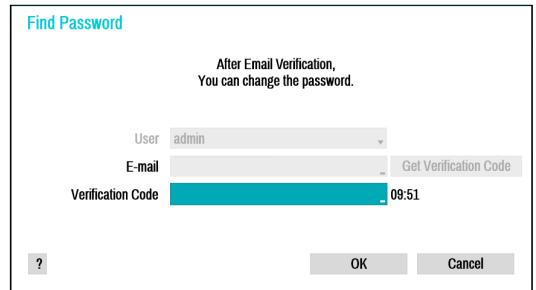
Find Password

If you do not know the password, select **FIND PW**. You can set a new password.

1 Enter a user, registered email and then select **Get Verification Code**.



2 Enter Verification Code and select **OK**.



- Select the question mark button at the bottom left corner of the screen to refer to the password settings instructions.
- The password must be entered only with the virtual keyboard.
- To use find password function via e-mail, set the mail server supporting SSL/TLS. For more information on e-mail, refer to **[Mail on page 71](#)** and **[SMTP Setup on page 72](#)**.

Live Mode

Live Menu

Press the **Setup** button while in Live mode to bring up the Live menu on the top of the screen. Press **Setup** once more to hide the menu. Use the Arrow buttons on the front panel of the NVR or the remote control to select the menu options.



①	Login/Logout	②	Layout	③	Previous Group, Next Group	④	Display
⑤	Freeze	⑥	Alarm	⑦	Panic Recording	⑧	Sequence
⑨	Select Camera	⑩	Search Mode	⑪	Setup	⑫	Wizard
⑬	Status Indication						



Placing the mouse pointer near the top portion of the screen also displays the Live menu.

① Login/Logout

Log into and out from accounts. If in the logged in state, the account ID is shown. If in the logged out state, the login icon is shown.

② Layout

Used to change the screen layout to single screen, corridor format, 2x2, 1+5, 1+7, 3x3, 4x4, 5x5, or 6x6. In order to use the corridor format feature, **Corridor Format** (Display Setup - Main monitor - Use Corridor Format) must first be enabled.



The 32-channel model does not support the corridor format feature.

③ Previous/Next Group

Loads the previous/next screen group.

④ Display

- **OSD** (On Screen Display): Enables/disables the **OSD** feature.
- **Full**: Displays the video in full screen mode.
- **Aspect Ratio**: Select whether to enable the original aspect ratio of video transmitted from the camera.

⑤ Freeze

Freezes the screen. Select **Freeze** again to unfreeze.


⑥ Alarm

Pressing this button while the alarm has been activated resets all NVR outputs, including the built-in buzzer.

⑦ **Panic Recording**

Activates/deactivates Panic Recording.

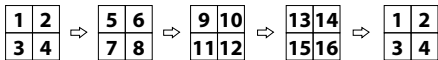
⑧ **Sequence**

Initiates **Sequence** in the same manner as pressing the **SEQUENCE** button while in Live mode. To exit, select **Sequence** once more or press the **SEQUENCE** button on the remote control. The  icon is displayed on the upper right part of the screen while Sequence is in progress.

Full Sequence

Displays all channels in sequence while in Live mode (single and split screen settings). In order to use the Full Sequence feature, **Full Sequence** (Display Setup - Main Monitor > Sequence) must first be enabled.

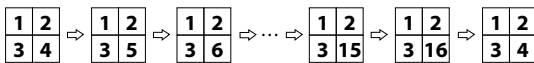
e.g.) Full Sequence in 2x2 split screen mode



Cameo Sequence

In **Cameo Sequence** mode, only the bottom right screen in a split screen setup changes sequence. In order to use the **Cameo Sequence** feature, **Cameo Sequence** (Display Setup - Main Monitor > Sequence) must first be enabled.

e.g.) Cameo Sequence in 2x2 split screen mode



- If using the **Full Sequence** setting, page numbers appear on the system status area on the upper right part of the screen, next to the Sequence icon.
- Pages are skipped under the following circumstances:
 - If all cameras included in the page are deactivated.
 - If there are no video signals.
 - If the page contains "covert" cameras.
 - If the user does not have permission to view feeds from the cameras.

⑨ **Select Camera**

Displays the selected camera in a single screen format.

⑩ **Search Mode**

- **Time-Lapse Search:** Select **Search Mode > Time-Lapse Search** to search for and play back saved data directly from the record table.
- **Event Log Search:** Select **Search Mode > Event Log Search** to search for event logs and play back associated event recordings.
- **Thumbnail Search:** Select **Search Mode > Thumbnail Search** to search associated event recordings in detail.

⑪ **Setup**

Used to access the Setup menu.












⑫ **Wizard**

Running the Wizard lets you configure basic settings required for operating the system.


⑬ **Status Indication**

Displays system status icons.

Status Indication

	Indicates remote control receptivity.
	Indicates connection to the NVR from a remote program.
	Indicates two-way audio connection between NVR and camera.
	Indicates two-way audio connection between NVR and PC.
	Indicates two-way audio connection among NVR, PC and camera.
	Indicates connection to the NVR using the VNC service.
	Indicates a zoomed in state.
	Indicates Freeze is in use.
	Indicates Sequence is in use.
1/4	Indicates the current screen's group.
	Indicates an event monitoring.
	Indicates HDD use. The icon to the left is shown if using the overwrite setting. Otherwise, remaining HDD space is shown as a percentage value.

Zoom

Press the **ZOOM** button on the remote control or right-click on the mouse to select a channel you wish to zoom in on while in live mode or time-lapse mode. When a zoom frame appears on the selected channel, right-click on the mouse or press the **Enter** button to zoom in. Use the arrow buttons to position the frame. When Zoom is activated,  icon is on the status bar located on the upper right corner of the system.

- In Full Screen mode, activating Zoom automatically selects the current channel.
- To restore the channel to normal size, press the Zoom button again.

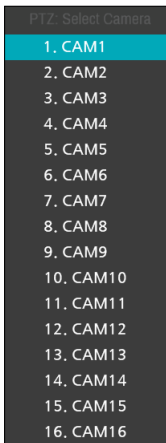
You can also change the direction by dragging on the mouse.


Also, it's possible to use the mouse wheel to zoom in/out.

- Logging in with an account that has **PTZ Control Authority** is necessary in order to control PTZ cameras.
- A message will prompt if there is no PTZ camera displayed on the Live screen.
- Zoom in/out and shift focus using the **PTZ Control (ZOOM, FOCUS)** buttons on the remote control.
- To exit PTZ mode, press the **PTZ** button again.

PTZ Control



While in Live mode, right-click and select PTZ from the context menu or press the **PTZ** button on the NVR's front panel or remote control to display the PTZ camera selection window.





Select the camera you wish to control. The  icon will begin to flash on the selected camera's OSD window.

Use the **Arrow** buttons to pan and tilt the camera up, down, left, and right.


Use the  and  buttons to zoom in/out.

Use the  and  buttons to shift focus from nearby to far and vice versa.

Use the  button to load the preset window.

Use the  button to save current position as a preset.

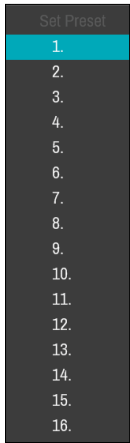
Dewarping Control

While in Live mode, right-click and select Dewarping from the context menu. The  icon will begin to flash on the selected camera's OSD window. You can change the direction by dragging on the mouse. In order to select dewarping type and mode, **Video** (Camera - Advanced Setup) must first be enabled.

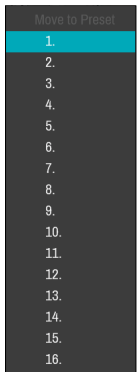
- This feature is supported only with Fisheye camera connected on the DirectIP protocol.
- Original mode does not support dewarping control feature.

Setting Up a PTZ Preset

While in PTZ mode, select the **VIEW** button on the remote control to display the **Set Preset** window and assign the current position as a preset.

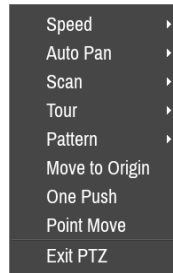


While in PTZ mode, select the **SAVE** button on the remote control to display the **Move to Preset** window. Select a preset to move the current PTZ camera to the selected preset's position.



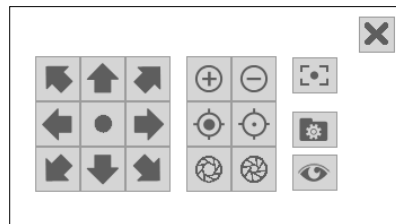
Advanced Settings

In PTZ mode, selecting a camera and then clicking **Menu** button loads the Advanced PTZ screen as shown below. You can load the Advanced PTZ screen also by pressing the **Play/Pause** button and then **SETUP** button on the front panel. This menu lists **Speed, Auto Pan,** and other advanced PTZ camera control options available for the camera. Also selecting Point Move button moves PTZ camera to the point that the user clicks. Options that are not available for the selected PTZ camera remain inactive.




- You can use the mouse to control PTZ cameras. Left-click on the mouse and drag to move the camera in the desired direction and use the mouse wheel to zoom in/out.


While in PTZ mode, place the mouse pointer close to the bottom edge of the screen to display the PTZ Tools window.



	PTZ Camera Pan and Tilt
	Zoom In/Out
	Focus Near / Far
	IRIS Open / Close
	One Push
	Set / Move to Preset
	Device Menu supported by the camera

- The exact PTZ protocol supported by the camera must be specified in order to use the NVR's PTZ controls.
- Drag and drop to reposition the PTZ Tools window.
- Select the  icon to hide the PTZ Tools window.

Event Monitoring

When an event occurs, the NVR automatically changes to the camera screen linking event monitoring and shows the  icon on the system status area on the upper right portion of the screen. To use the Event Monitoring feature, navigate to **Display Setup > Main Monitor** and enable **Event Monitoring**. Event Monitoring remains in effect throughout the entire **Linked Time**. After that, the NVR will return to the previous screen if a new event does not take place. Pressing the **Layout** or a **Camera** button before the end of the **Linked Time** reverts the system to Live mode.

Covert Camera


Use this feature to assign **Covert Camera View** permissions.

Navigate to **Camera Setup > General** and designate cameras as **Covert 1** or **Covert 2**.

- **Covert 1:** Hides images from the camera in Live mode but does indicate the camera's title and status via icons.
- **Covert 2:** The camera is indicated as being inactive. Images from the camera are not shown. Camera title and status icons are not shown.

- Users that have a cover **Covert Camera View** are able to view both images from and status icons for all **Covert 1** and **Covert 2** cameras.

Context Menu Access

While in Live mode, press the remote control's  button and then the Menu button to display the Context Menu window. You can display the ContextMenu window also by pressing the **Play/Pause** button and then **SETUP** button on the front panel. Alternatively, right-click on the mouse to access the Context menu.


- **PTZ:** Access PTZ controls.
- **Dewarping:** Dewarps the fisheye camera image.
- **Zoom:** Zoom in.
- **Audio:** Enable/disable audio. (This function supports only in single screen.)
- **Color Control:** Select a channel to display its Color Control window. Adjust the selected camera's brightness, contrast, saturation, and hue settings.
- **Microphone:** Enables audio transmission to a remote locale via microphone(This function only supports cameras with two-way audio).


- Even if two-way audio communication is set up between the NVR and camera, the microphone connected to the NVR will terminate automatically when the microphone on the remote is turned on(The remote microphone takes priority).

- **Information:** Select a network channel to display information about the selected channel's device.
- **Edit Group:** Rearrange the split screen layout.
- **Camera Registration:** Activate Camera Registration mode.
- **Login/Logout:** Log into the account or log out of the account.

Edit Group

Edit Group lets you customize split screen pages in both Live and Search modes.

- 1 While displaying a split screen page, select the **Edit Group** option from the context menu. A yellow border is drawn around the page. Use the arrow buttons on the front panel or the mouse to select a different page.
- 2 Press a **Camera** button or select a camera after pressing the **Menu** button. Selected camera is then loaded on to the selected page. Repeat to assign other channels to the page.
- 3 Press the remote control's  button to exit Edit Group. Alternatively, press the **Menu** button and then select **Exit Group Edit** to exit.


 Edit Group will terminate automatically after 15 seconds of inactivity.


Video Recording


Video recording will only take place if all the connections are made correctly as per information contained in Part 2 of this operation manual.


For more information on video recording settings, refer to the **Record Setup on page 51**.

Panic Recording

Select **Live** or **Search** menu's Panic Recording  icon or press the **Panic Recording** button on the front panel or the remote control to commence panic recording on all registered cameras.

To stop Panic Recording, select the Panic Recording  icon or press the **Panic Recording** button again. If the **Panic Recording Duration** option under **Record Setup > General** has been configured, Panic Recording will automatically terminate after the specified duration of time has elapsed. For more information, refer to the **Record Setup on page 51**.

-  • Panic Recording takes place irrespective of any recording schedule set up by the user.
- Panic Recording video profile from **Record Setup – General** applies to all Panic Recording videos.

 Panic Recording will not take place if recording mode is not set to **Recycle** and the HDD has reached 100% of its capacity.

Audio Recording

If the Record Audio option under **Record Setup** > **General** has been enabled the camera will record audio along with video. For more information, refer to the **Audio on page 49, Record Setup on page 51.**



Check your local laws and regulations on making audio recordings.

Video Recording Playback

You can play back video recordings by using mouse or remote control.



- Login with an account that has search permission is needed to playback video recordings.
- The initial video playback point in Search mode is the recording's last playback point or the end of the recording data.
- Audio playback of the selected recording is available in full screen mode only.
- Covert protection on cameras also applies to video recording playback.

All Channel Playback


- 1 Press the **Menu** button while in Live mode.
- 2 Select the Search Mode **▶** icon and then select **Time-Lapse Search, Event Log Search** or **Thumbnail Search.**
- 3 The selected search mode will be initiated.

For more information on data search, refer to the **Part 3 - Search on page 78.**

Remote Control Buttons during Playback

- 1 **Camera Button:** Displays the selected recording in full screen.
- 2 **Zoom Button:** Allows you to zoom in on a specific area of the recording.
- 3 **Layout Button:** Cycle through 1x1, 2x2, 1+5, 1+7, 3x3, 4x4, 5x5, and 6x6 modes.

Context Menu

While in Search mode, press the remote control's  button and then the **Menu** button to display the Context Menu window. Alternatively, right-click on the mouse to access the Context Menu.

- **Zoom:** Zoom in.
- **Audio:** Enable/disable audio. (This function supports only in single screen.)
- **Edit Group:** Rearrange the split screen layout.

Part 2 - Configuration

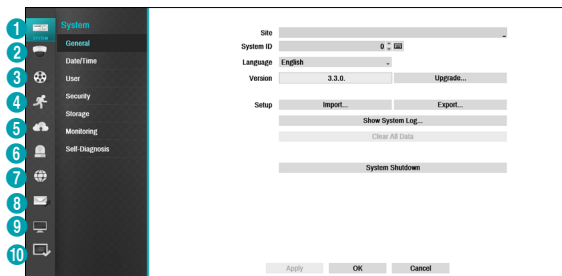
Menu Use

Information contained in this section (Menu Use) applies to all other instructions found throughout Part 3 - Configuration.

Login with an ID that has permission to access the setup menu is needed to access and make changes to the Setup menu.

- When using **Use 2FA**, you can access the setup menu only after the mobile device on NVR must be authenticated. For more information on 2FA function, refer to the **Use 2FA on page 34**.

- While in Live mode, press the remote control's **SETUP** button or select Live menu > Setup using the mouse.



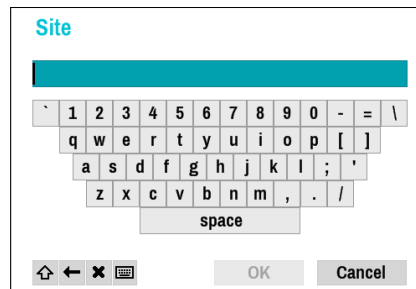
1	System Setup
2	Camera Setup
3	Record Setup
4	Event Setup
5	Event Upload Setup
6	Device Setup
7	Network Setup
8	Notification Setup
9	Display Setup
10	Status Setup

- Use the remote control's arrow buttons to select an option and then press the remote control's button or left-click on the option using the mouse.
- Change the setting and then select **Apply** or **OK** to save the change.

- To apply default settings, select the Default button located on the left bottom corner of the setup window.

Text Input via Virtual Keyboard

Use the remote control's arrow buttons to select a virtual keyboard key and then press the remote control's button or click on the key using the mouse.



	Toggle case.
	Deletes the character to the left of the cursor.
	Deletes the character to the right of the cursor.
	Converts keyboard.

Batch Assignment

Certain table-format menus such as the shown in the **Camera Setup on page 39** allow you to change the title value. In this case, changing the title value simultaneously changes all other entry values on the same row.

Mouse

Using a mouse makes it easier to configure the settings. A mouse lets you make selections faster and use its wheel to scroll through long menus. You can also use the mouse wheel to increase/decrease numerical values.

System Setup

Refer to the **Menu Use on page 28** for basic information on using the Setup menus.

General

This Setup menu contains general system options.

- **Site:** Used to enter a description about the system's installation site (no description by default). You can edit the information using the virtual keyboard.
- **System ID:** Used to identify the NVR apart from other NVRs. System ID is also used to control the NVR with the remote control.

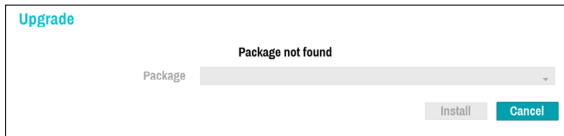


The default System ID is 0 and can be changed to a value between 0 and 99. The System ID can also be entered using the virtual keyboard.

- **Language:** Choose a language.
- **Version:** Indicates the software version.
- **Upgrade:** Upgrade the system. If NetFS feature is in use, click Upgrade. You can select the **USB Port** or **NetFS**. If the NetFS feature is not in use, you can only select the USB port. Selecting the USB port displays the USB search window. You will then be able to select an upgrade package and upgrade the system. Selecting NetFS displays the list of registered FTP sites. Once the upgrade is completed, the NVR will reboot automatically.




When using **Use 2FA**, you can upgrade the system only after the mobile device on NVR must be authenticated. For more information on 2FA function, refer to the **Use 2FA on page 34**.




- **Setup:** Exports current NVR settings or imports existing settings. If the NetFS feature is in use, you can export or import NVR settings in the registered FTP site.
- **Import:** Decide whether to import network settings as well. If you do not wish to change the current network settings, do not select **Include Network Setup**.

- Selecting **Setup Import** does not change the settings below.
 - Time-related settings (Date/Time, Time Zone, and Use Daylight Saving Time)
 - Camera-related **Advanced Settings** settings
 - Camera-related **Stream** settings (Only if the resolution is different from the camera in exporting)

- **Export:** Exports the current system settings to a storage device connected to the system's USB port or the registered FTP site in NetFS. You can designate a **File Name** for the export file.

 For USB flash memory devices, the NVR supports the FAT32 file format only.

- **Show System Log:** Displays a searchable list of 5,000 most recent system log entries. For more information on types of system log entries, refer to the **System Log Types in the installation manual**. The  icon appears next to log entries originating from a remote source. To export the system log, select the **Export** at the bottom of the screen and then designate a file name.



- In order to display the system_log.txt file, you must use the correct character encoding settings and use a fixed-width font.

- **Clear All Data:** Erases all recording data. Selecting **Clear All Data** displays a confirmation window. Select **Clear** to proceed.

- Before you perform **Clear All Data**, make sure you are not accidentally deleting important data. Erased data cannot be recovered.
 - **Clear All Data** does not affect the system log. Instead, the **Clear All Data** event will be added to the log.

- **System Shutdown:** Shuts down the system. When prompted, select **System Shutdown**.

Date/Time

- **Date:** Used to change the system's date setting.
- **Time:** Used to change the system's time setting.
- **Date Format/Time Format:** Used to change the system's date and time formats.
- **Time Zone:** Used to designate the system's time zone.

Refer to the map displayed on the screen and change the time zone using the mouse or the arrow buttons.

- **Use Daylight Saving Time:** Enables DST correction.
- **Time Sync.:** Select a time server for the system to synchronize with.

- 1 Select **Automatic Sync.**
- 2 Enter the **Time Server's** IP address or domain name or select and then choose a server from the list of registered time servers.
- 3 Specify the server synchronization **Interval.**
- 4 Select **OK** to apply and exit.

- If you have configured the DNS Server setting under **Network - WAN**, you can enter the time server's domain name instead of its IP address.
- Selecting **Run as Server** sets the current NVR as a time server for other NVRs within the system.

- **Holiday:** Designate holidays. On specified holidays, recording takes place according to the holiday recording schedule specified under Record Schedule.

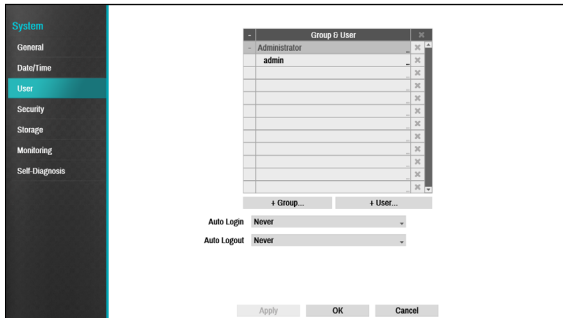
- 1 Select the **+** button at the bottom of the window.
- 2 Select a date.
- 3 Select **OK** to apply and exit.

No.	Date

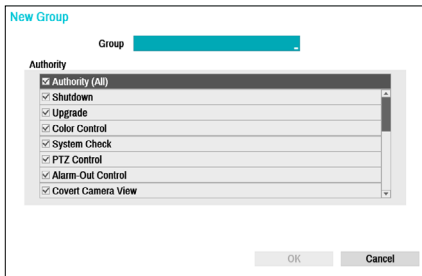
- Select the icon to delete the existing holiday date.

User

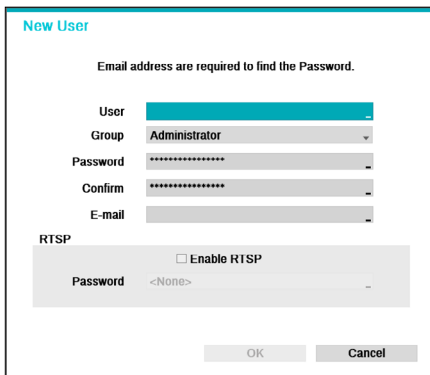
Use this option to register users and assign permissions.



- 1 Select **+ Group** and enter a group name. A group name can be up to 15 characters in length.
- 2 Specify the group's permission settings. For more information on permission settings, refer to the **Group Permissions on page 33**.



- 3 Select **+ User** and then enter a user name.



- 4 Select a group for the user and then enter a password. The password can be up to 16 characters in length and may include letters, symbols, and

numbers. The e-mail address will be used as information on password verification.

- 5 If you wish to use RTSP function, set the password. For security, It is recommended that you set a different password for RTSP and User. For more information on RTSP, refer to the **RTSP on page 70**.
- 6 Configure **Auto Login** and **Auto Logout** settings.
- 7 Select **Apply** or **OK** to exit.

- Group names, user names, passwords and email can be entered using the virtual keyboard. For more information on using the virtual keyboard, refer to the **Text Input via Virtual Keyboard on page 28**
- To delete a registered user or group, select the icon on the right of the corresponding user/group. **Group Administrator** and **User admin** cannot be deleted.
- Select the icon next to Group & User on the top of the screen to delete all groups and users except **Group Administrator** and **User admin** simultaneously.
- A password entry is required to edit existing groups and users.
- Group Administrator's** permissions cannot be changed.
- With the **User admin** account, only the password can be changed.
- When the system starts up, it will automatically log into the account designated under **Auto Login**.
- The system will automatically log out of the account if the duration of inactivity specified under **Auto Logout**.

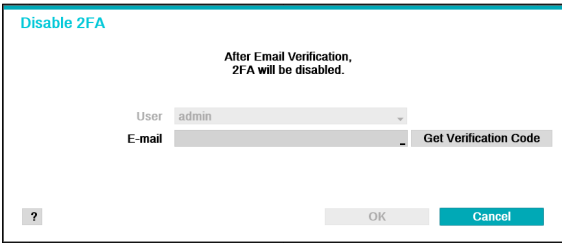
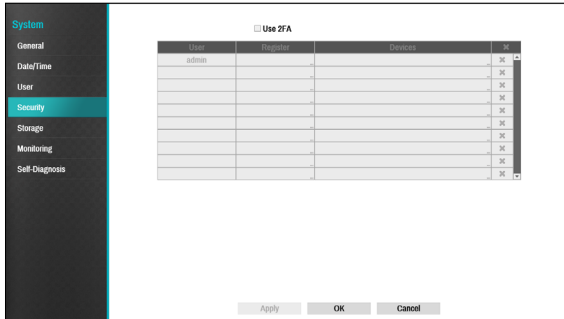
Group Permissions

System Shutdown	May shutdown the system from the system menu.
Upgrade	May upgrade the system from the system menu (System Setup).
Color Control	May adjust each camera's brightness, contrast, saturation, and hue settings.
System Check	May view System Check results.
PTZ Control	May control PTZ cameras.
Alarm-Out Control	May reset in the event of an alarm-out. Alarm-outs can be reset by pressing the Alarm button on the device or selecting the Alarm-Out Control button on the remote program.
Covert Camera View	May access covert cameras in Live and Search modes.
Search	Clip Copy
	The user who has permission for Clip Copy can perform Clip Copy. If the user does not have permission, Clip Copy is not allowed but only search is allowed.

Setup	System Time Change	May change the system's date and time settings.
	Data Clear	May clear data stored in the system.
	PTZ Setup	May configure PTZ settings.
	Alarm-Out Setup	May configure alarm-out settings.
	Covert Camera Setup	May configure covert camera settings.
	Record Setup	May configure recording settings.
	VNC	May access the NVR and control it remotely via network.
	EventUpload	May upload the video clips when an event occurs.
	Self-Diagnosis	May configure the NVR self-diagnostic settings.
	Setup Import	May import previously saved NVR settings.
Setup Export	May export current NVR settings.	

Security

Use this option to configure security settings.

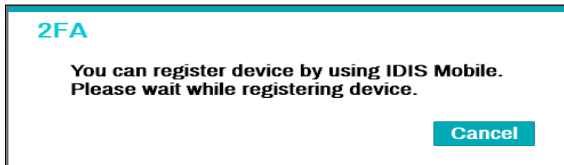


- ✓ To disable 2FA function via e-mail, set the mail server supporting SSL/TLS. For more information on e-mail, refer to **Mail on page 71**.
- The function can be accessed only by users with administrator-level.

Use 2FA

Two-factor authentication (2FA) is a method of confirming a user's claimed identity by utilizing a combination of two different components. In other words, it is a method of authenticating the registered mobile devices such as mobile phones and smartphones on NVR for security when proceeding settings, search and upgrade.

When you select **Registration**, the following message will appear.



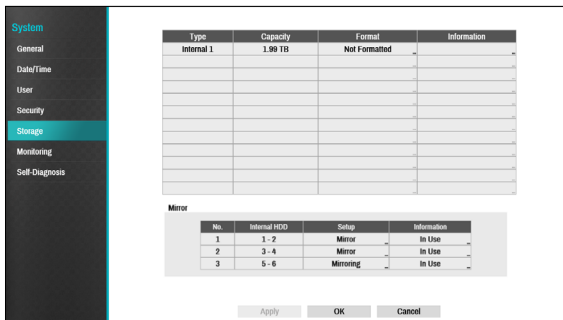
- ✓ 2FA device registration is supported only via IDIS Mobile app.
- The administrator account is required to configure this option.
- The maximum number of device that can be registered per an account is 4.

When the mobile device registration is complete, the following message will appear. Select the question mark button at the bottom left corner of the screen to deactivate 2FA function via the email of an administrator user account.



Storage

Use this option to configure storage settings.




- **Type:** Indicates the type of the installed disk.
- **Capacity:** Indicates the disk's capacity.
- **Format:** If the disk has been formatted, indicates either **Record** or **Not Using**. If you have connected an unformatted storage device, the Use As value will be indicated as **Not Formatted**.
- **Information:** Indicates if the disk is being used for recording purposes. Disks that were used in different systems will show up as **Other**. Select **Information** to check the saved data's time information or select **Delete** to erase the data.

- Select **Format** to prepare the disk as a storage for data recording.
- Disks formatted with Use As set to **Not Using** will not be used for data recording.
- This NVR supports SATA2 HDDs.

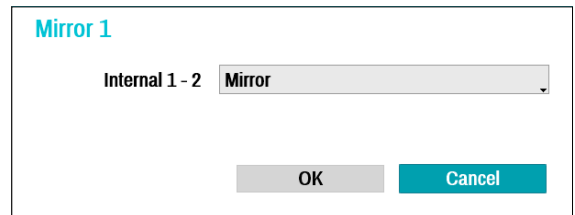
Mirror

The NVR supports function that records the same data on the two disks at the same time. You can set up mirroring by selecting **Storage** in the System menu and then selecting **Setup** in the Mirror. Up to three Mirrors are supported.

- This function only works if the two internal hard disks have the same capacity and model.

-  If you change the setup related to Mirror, you must reboot the system.
- A disk problem may cause mirroring to stop. The separated disk can be used to reboot the system.

- **Internal HDD:** Indicates the available disks for mirroring.
- **Setup:** Configure detailed settings related to Mirror.
 - **Mirror:** Click **OK** to start mirroring. Once you start mirroring (writing data on the two disks at the same time between two disks), all existing data on the two disks will be erased.



- Once you start mirroring, all existing data on the two disks will be erased. Please be careful not to designate the wrong disk by mistake.

- **Stop:** Once mirroring starts, you can stop it by selecting **Stop** option and then designating disks to delete. Once mirroring is stopped, all existing data on the disk will be erased.

Mirror 1

Internal 1 - 2:

Delete:

- When mirroring is stopped, the deleted disk will be set to **NOT Used**. If you want to use the disk for recording, you must reformat it.
- Mirror number 1 and 2 cannot resynchronize at the same time.

- **Resync:** Once you start mirroring, the two disks will be resynchronized, which means that all data on the destination disk will be erased and the data on the source disk will be copied to the destination disk. Select the **Resync** option, designate the source disk, and then click **OK**. When you click **OK**, all data on the destination disk will be erased. After resynchronization is complete, mirroring will start.

Mirror 1

Internal 1 - 2:

Source:

- When you try resynchronizing, the disk that has never tried mirroring cannot be selected as the source disk.

- Once you start mirroring, all data on the destination disk that designate as the source disk will be erased. Please be careful not to designate the wrong disk by mistake.

- **Information:** Indicates if the installed disk is being used for **mirroring** or **Resync** purposes. Select information about mirroring to check the disk's model and serial number.

Monitoring

Use this option to configure Monitoring settings.

System

General

Date/Time

User

Security

Storage

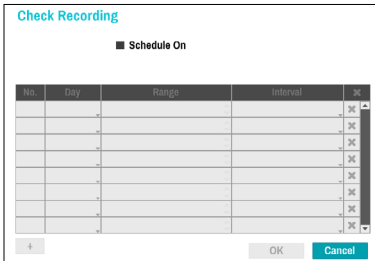
Monitoring

Self-Diagnosis

Event	Settings	Actions
System	Never	<input type="checkbox"/>
Boot Up		<input type="checkbox"/>
Restart		<input type="checkbox"/>
Shutdown		<input type="checkbox"/>
Power Record		
Check Recording	Off	<input type="checkbox"/> <input type="checkbox"/>
Check Alarm In	Off	<input type="checkbox"/> <input type="checkbox"/>
Disk Almost Full	90 %	<input type="checkbox"/> <input type="checkbox"/>
Disk Full		<input type="checkbox"/> <input type="checkbox"/>
Disk Bad	50 %	<input type="checkbox"/> <input type="checkbox"/>
Disk Temperature	70°C	<input type="checkbox"/> <input type="checkbox"/>
Disk S.M.A.R.T.		<input type="checkbox"/> <input type="checkbox"/>
Fan Error		<input type="checkbox"/> <input type="checkbox"/>
eSATA Disconnected		<input type="checkbox"/> <input type="checkbox"/>
Disk Config Change		<input type="checkbox"/> <input type="checkbox"/>
No Storage Found		<input type="checkbox"/> <input type="checkbox"/>

- **Settings:** Configure when and what the system should monitor for.
- **Actions:** Configure alarm-out (NVR alarm-out channel, NVR beep, camera alarm-out channel) and notification (email, LAN1 through 5, SNS, push, alert window) settings.

Monitoring Options

System	Define monitoring times. If self-diagnosis is not performed on a regular basis, the system will assume an error.
Bootup, Restart, Shutdown	Define bootup, restart and shutdown actions.
Panic Record	Define panic recording actions.
Check Recording	<p>The system will assume an error if the system has been scheduled to record normally but recording does not take place during scheduled intervals.</p> <p><input checked="" type="checkbox"/> Select Schedule On and then configure the days of the week, times, and monitoring interval. Select the + button on the bottom left of the screen to add a schedule. Select X icon to delete the schedule.</p> 
Check Alarm-In	The system will assume an error if the alarm-in status does not change during the specified monitoring interval while alarm-in is active.
Disk Almost Full	Generates an event if the disk reaches the specified capacity (80% to 99%).
Disk Full	Generates an event when all disks reach their maximum capacity.
Disk Bad	Generates an event when the specified percentage of the disk becomes damaged. Set to between 10% and 90% in 10% intervals.
Disk Temperature	Specify the threshold temperature. Once any disk reaches this threshold, the system will issue an alert.

Disk S.M.A.R.T.	Monitors disks that support S.M.A.R.T. and notifies the user if a disk error is detected.
Fan Error	Notifies the user when the fan inside the system malfunctions.
eSATA Disconnected	Notifies the user if an eSATA device becomes disconnected while in use.
Disk Config Change	It will be highlighted when the NVR reboots after the hard disk drive has been replaced.
No Storage Found	It will be highlighted when no hard disk drive has been connected.

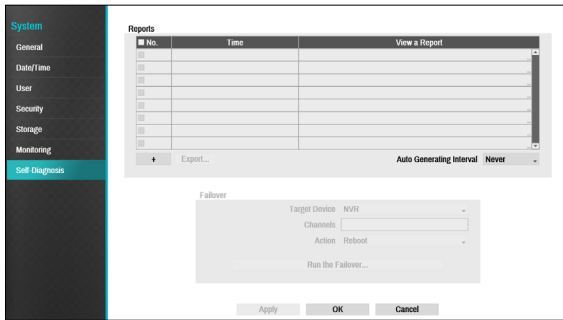


- For system events, only an e-mail notification of actions can be selected.
- In order to use the Notify(Callback) feature, the NVR must be registered to the remote program on the receiving PC's end.

Self-Diagnosis

Use this option to configure self-diagnostic settings.

- ✓ This feature is also supported when connected to the NVR from a remote program.



• Reports

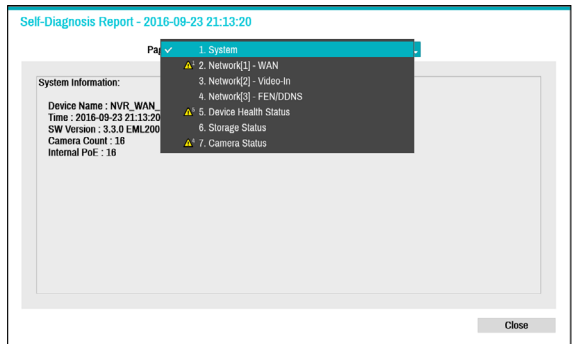
- **No.:** Selects which reports to export.
- **Time:** Displays when you started the self-diagnosis.
- **View a Report:** Briefly displays whether the report is "Good" or "Bad".
- **+**: Click the + icon at the bottom left corner of the screen to run the self-diagnosis.
- **Export:** Saves the reports to a storage device, such as the USB port and NetFS site, by converting them to HTML format. You can export more than one report at a time by selecting multiple reports.
- **Auto Generating Interval:** Select any time period between 6 hours and 7 days.

- ✓ The reports are stored in up to 24 files. If you have configured **Auto Generating Interval** as one-day period, only the reports from the last 24 days can be viewed.
- If the NVR is turned off, the reports will automatically turn off.
- The reports are organized by recent date and time.

• **FailOver:** When a problem is detected on the target device, click the **Run the failover button** to resolve the problem.

- **Target Device.:** Selects which device to run the failover.
- **Channels:** Select the camera channel if a camera is set to the target device.
- **Action:** Select the type of action to run the failover.
- **Run the failover:** Click the **Run the failover** button when a fail is detected on the target device to resolve the problem.

- ✓ Once **Run the failover** have made to the camera, the camera will reboot automatically.



Once you have run failover on the camera, the camera will reboot automatically. By selecting **System, Network, Device Health Status, Storage Status, or Camera Status**, you can see the brief results of the self-diagnosis for the target device.

- ✓ The NVR **self-diagnostic report** can only be viewed in text form.

This feature is also supported when connected to the NVR from a remote program.

We recommend clicking the **Export** button at the bottom of the list, which allows you to view the reports on a PC web browser. We also recommend scanning the self-diagnostic report on a remote program, which allows you to view the reports in HTML format as shown below.

System Information:																
<ul style="list-style-type: none"> • Device Name : NVR_WAN_00032160974 • Time : 2016-09-23 14:03:19 • SW Version : 3.3.0 MNI.3.04 (Sep 23 2016) • Camera Count : 16 • Internal PoE : 8 																
Device Health Status:																
No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Camera Signal	OK															
Recording Fail	OK															
Recording Status	Good															
Recorded Video	2016/09/23 14:02:02 - 2016/09/23 14:03:26															
Record - Recycle	On															
Record - Schedule	On															
HDD#	Internal T. In Use															
Disk Bad	Good (0%)															
HDD Temperature	Good (0/0C)															
S.M.A.R.T	Good															
Fan Status	Good															
Camera Status:																
No.	Title	Product	MAC Address	IP Address	Version	Connection	Network Status	PoE								

Camera Setup

Refer to the **Menu Use on page 28** for basic information on using the Setup menus.

Registration

You can register cameras at remote locales. By selecting a number from the list, you can move the camera up or down the list using the mouse wheel to reorder its position. The remaining cameras will move down the list automatically.

No.	Title	MAC Address	Address	Model	
1	CAM1	00:03:22:12:6D:70	188.254.230.243	DC-S1263WH	X
2	CAM2				X
3	CAM3				X
4	CAM4				X
5	CAM5				X
6	CAM6				X
7	CAM7				X
8	CAM8				X
9	CAM9				X
10	CAM10				X
11	CAM11				X
12	CAM12				X
13	CAM13				X
14	CAM14				X
15	CAM15				X
16	CAM16				X

- **Title:** Edit the camera's name.
- **MAC Address:** Displays the camera's MAC address registered to the NVR.
- **Address:** Displays the camera's IP address registered to the NVR.
- **Model:** Indicates the camera's model.
- **Scan:** Select to scan and register the device connected to the NVR.

This feature is supported only when connected to the NVR from a remote program.

Device Scan

Scan the device under **Registration - Scan**.

Device Scan						
Protocol		IDS 0 DirectIP				
Mode		Auto Scan(LAN)				
<input type="button" value="Stop"/>						
Scanning Devices... Found 10 devices						
Filter All						
No.	MAC Address	Address	Model	Protocol	Name	Status
1	00:03:22:1A:EC:12	188.254.230.46	DE-1108	DirectIP		Not Registered
2	00:03:22:1A:EC:12	188.254.230.46	DE-1108	DirectIP		Not Registered
3	00:03:22:1A:EC:12	188.254.230.46	DE-1108	DirectIP		Not Registered
4	00:03:22:1A:EC:12	188.254.230.46	DE-1108	DirectIP		Not Registered
5	00:03:22:1A:EC:12	188.254.230.46	DE-1108	DirectIP		Not Registered
6	00:03:22:1A:EC:12	188.254.230.46	DE-1108	DirectIP		Not Registered
7	00:03:22:1A:EC:12	188.254.230.46	DE-1108	DirectIP		Not Registered
8	00:03:22:1A:EC:12	188.254.230.46	DE-1108	DirectIP		Not Registered
9	00:03:22:10:03:34	188.254.86.73	DC-S1203	DirectIP		Registered
10	00:03:22:12:6D:70	188.254.230.243	DC-S1263WH	DirectIP		Registered
11						
12						
13						
14						

- **Protocol:** Select the protocol you wish to search for that was used by the camera (or encoder).
 - Even if the network device uses a protocol supported by the NVR, the device itself may not be visible for scanning and registration by the NVR. For more information about supported network devices and models, contact your retailer.
 - The supported scan modes may vary depending on protocol selected.
- **Mode:** Select the scan mode.
 - **Auto Scan(LAN):** Lists any cameras in a LAN environment. If Auto scan (LAN) fails to recognize the camera, try using IP Address scan instead.
 - **IP Address:** Enter the IP address of a camera. The NVR scans for the camera that matches the specified address. If you enter an IP address range, the NVR scans for cameras falling under the specified address range. By specifying an IP address, you can also specify which port to use with the Remote Admin feature. It is recommended that you do not network the camera via DHCP (Dynamic Host Configuration Protocol). If the camera is networked via DHCP, the camera may not be connected properly depending on changes in the external network environment.
- **Filter:** Enter a keyword in the MAC Address / Address / Model / Name / Status fields for the selected camera. This allows the user to scan this camera easily.

When configuring a port, the device may fail to scan if the port selected for the NVR and the port selected for the camera differ. In this case, you must register the camera to change its IP address.

- **No.:** Select the registered camera number and click the **Add Camera** button to register the camera.
- **MAC Address:** Displays the scanned camera's MAC address.
- **Address:** Displays the scanned camera's IP address.
- **Model:** Indicates the camera model.
- **Protocol:** Indicates the scanned camera's protocol.
- **Name:** Displays the scanned camera's IP name.
- **Status:** The "Registered" indicates the camera is registered to the NVR and "Not registered" indicates the camera is not registered to the NVR.

- By selecting **Apply to All Devices**, you can apply the same authentication information to all of the network devices in the list.
- When you select multiple network devices from the list and click the **Add camera** button, a window for the network device will appear. Select **Skip** to skip the authentication settings for the current network device and to display the Authentication window of the next network device.
- For IDIS cameras, a user and password may not be required.

Login

If the password is set or you want to register third party cameras, registering a device requires an authorized user login.

1 Select the desired device from the list and click the **Add Camera** button, then the login window will appear.

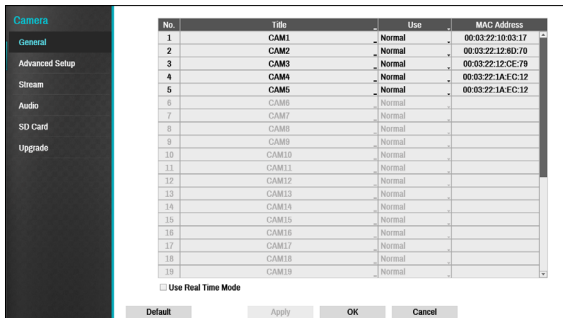
2 Select a user, enter the password, and then select **OK**.

The screenshot shows a 'Login' window with the following content:

- Index: 1 / 1
- MAC Address: 00:03:22:1A:EC:27
- IP Address: 10.0.130.156
- Model: CRI8000VS
- Name: (empty)
- User: (text input field)
- Password: (password input field)
- Apply to All Devices
- Buttons: Cancel, OK, Skip

General

Enable/disable the covert view and rename cameras.

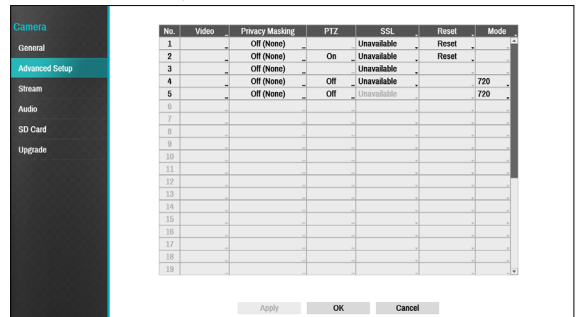


- **Title:** Edit the camera's name.
- **Use:** Set the camera as **Normal**, **Covert 1**, or **Covert 2**.
Live images and video recordings from cameras that have been set as **Covert 1** or **Covert 2** will not be available to users who do not have covert camera access. Setting a camera as **Covert 1** hides its images but does display OSD information about the camera. Setting a camera as **Covert 2** hides its images as well as ODS information about the camera as if it has been deactivated completely.
- **Use Real Time Mode:** Supports seamless video display even when there are multiple camera connections. (Only for the DR-6232P and DR-4216P)
 - If you have configured **Use Real Time Mode**, the streaming settings may change for all registered cameras. Some settings may be disabled.
 - If you have configured **Use Real Time Mode**, the remote streaming IPS can be low.



Advanced Setup

Configure security and other advanced camera settings.



- **Video:** Adjust the camera image sensor settings such as white balance and exposure. Configuration options may differ depending on the camera model.
- **Privacy Masking:** Enable/disable and configure privacy masking for the camera.
- **SSL:** Set the camera's security level as **Unavailable**, **Standard**, **High**, or **Very High**. **Standard**, **High** and **Very High** settings apply SSL (Secure Sockets Layer) protection to the camera. **Reset:** Resets the port or cameras.
 - **PoE Reset:** Control the PoE Switch's port. This option is available when connecting to Video In/ PoE port or using a DirectIP™ PoE Switch (optional). Select **PoE Reset** to reboot the camera. It is not supported by video encoders.
 - **Soft Reset:** Reboots the camera.
 - **Factory Reset:** Resets the NVR to all its initial factory settings. It is supported by DirectIP™ cameras only.
- **Mode:** Select a resolution mode. This is supported by video encoders only.
- **PTZ:** If using an RS-485-compliant camera, configure it for use in PTZ Mode.

Part 2 - Configuration

Camera 1

PTZ Product / ID: None / 0

Baud Rate: 9600

Data Bit / Stop Bit: 8 / 1

Parity: None

OK Cancel

- **PTZ Product:** Choose to select the model of installed PTZ device.
- **ID:** Choose to assign an ID to each PTZ device.
- Choose to set up **Baud Rate, Data Bit, Stop Bit** and **Parity** of the connected device.

Refer to the PTZ device manufacturer's instructions for the proper settings.

Types of configuration options shown vary depending on the PTZ functions supported by the camera.

1. CAM1

1 Preset 2 Scan 3 Pattern 4 Tour

0 0 0 0

5 PTZ Reset Reset

6 Home Position Default Setup

7 Auto Run None Time(sec.) 10

8 Auto Pan Clockwise

9 Auto Flip Digital

10 Tilt-Range -90 ~ 90

11 Restore Last Position & Function

OK Cancel

Numbers shown below Preset, Scan, Pattern, and Tour indicate the numbers of configured functions.

① Preset

Preset - Setup

No.	Name
1	1
2	
3	
4	
5	
6	
7	
8	

1 / 32

Zoom (+) (-)

Focus (○) (○)

Speed 8

Set Edit Go to Remove

OK Cancel

Use the buttons below to choose a preset position.

- Directional Buttons (← ↑ → ↓): Used to tilt and pan the camera.
- **Zoom** (+) (-): Zoom in and out.
- **Focus** (○) (○): Adjust camera focus to far or near.
- **Speed:** Specify the camera's panning and tilting

speed.

- **Set:** Choose a preset number and then enter a name. This saves the current preset under the specified preset number and name.
- **Go to:** Select a preset from the list and then click Go to to move the camera to the selected preset position.
- **Edit:** Used to change the selected preset's name.
- **Remove:** Used to remove the selected preset.

② Scan

Used to set up a profile for moving the camera between two points. At least two presets must be available in order to use the scan feature.

Scan - Setup

No.	Name	Start	Stop
1	scan1	1	2
2	scan2	2	3
3	scan3	3	4
4			
5			
6			
7			
8			

1 / 1

Set Test Edit Remove

OK Cancel

Set: Used to set up a scan profile.

No. 1

Name

Start (Preset): 1: jj Stop (Preset): 2: ffff

Dwell Time (sec.): 1 Speed: 16

Direction: Clockwise

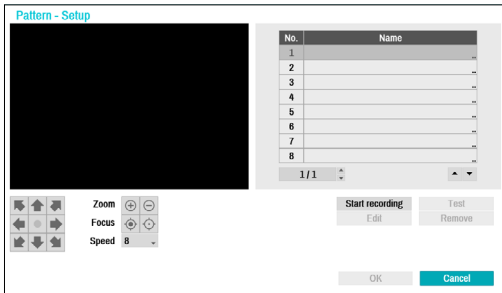
OK Cancel

- **Name:** Enter a name for the scan profile.
- **Start/Stop:** Specify which presets to use as start and stop points.
- **Dwell Time (sec.):** Specify how long the camera will dwell at start and stop positions.
- **Speed/Direction:** Specify scanning speed and direction.

- **Test:** Select a scan profile and then click Test to test it.
- **Edit:** Used to edit the selected scan profile.
- **Remove:** Used to remove the selected scan profile.

③ Pattern

Used to set up a pattern profile for the camera to follow along.

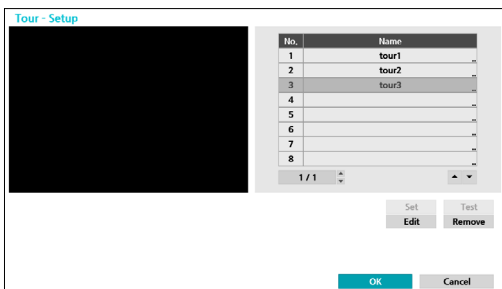


Start recording: Select a pattern number, enter a name for the pattern, and then click **OK** to save the pattern. Move the camera using directional, zoom, and focus buttons and then click **Stop recording** to save the pattern profile. You can record up to two minutes of movement.

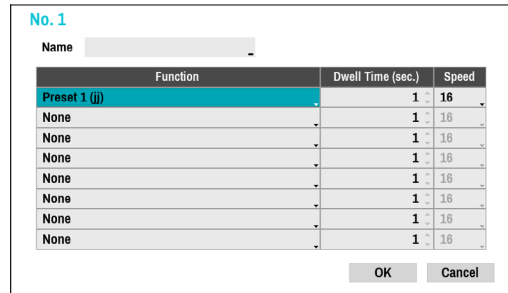
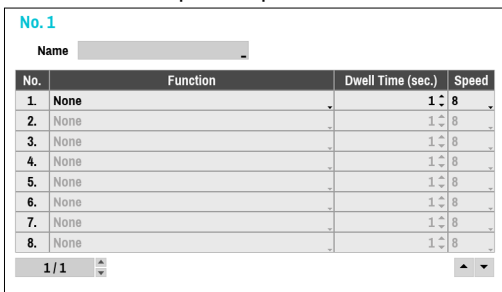
- Directional Buttons (← ↑ → ↓ ↶ ↷): Used to tilt and pan the camera.
- Zoom (⊕ ⊖): Zoom in and out.
- Focus (⊕ ⊖): Adjust camera focus to far or near.
- Speed: Specify the camera's panning and tilting speed.
- **Test:** Select a pattern profile and then click Test to test it.
- **Edit:** Used to edit the selected pattern profile.
- **Remove:** Used to remove the selected pattern profile.

④ Tour

Used to set up a tour profile of multiple functions in a designated sequence.



Set: Used to set up a tour profile.



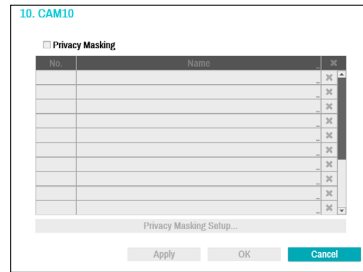
- **Name:** Enter a name for the tour profile.
- **Function:** Indicates the order of the function in the tour sequence.
- **Dwell Time (sec.):** Specify how long to perform the selected function for.
- **Speed:** Specify the preset speed.
- **Test:** Select a tour profile and then click Test to test it.
- **Edit:** Used to edit the selected tour profile.
- **Remove:** Used to remove the selected tour profile.

Select **Apply** after setting up a preset, scan, pattern, or tour profile to see images from the concerned camera on the left side of the screen. Selecting **Apply** or **OK** displays a popup screen that indicates whether the profile has been set up successfully.

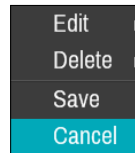
- **PTZ Reset:** Reboots the camera's panning / tilting and zoom settings.
- ⑥ **Home Position:** Specify the camera's home position.
 - **Default:** Uses the factory-default position as the camera's home position.
 - **Custom:** Uses the user-defined position as the home position.
 - Select **Set** to change the home position.
- ⑦ **Auto Run:** Specify which action to take if the camera has not been controlled for the specified duration of time.
- ⑧ **Auto Pan:** Specify the camera's panning direction. When Auto Pan is selected from a remote program, the camera pans in the direction selected here.
- ⑨ **Auto Flip:** Automatically flips the image when the camera tilts past 90° to prevent the objects from appearing upside down.
 - **Digital:** Flips the image left to right or top to bottom.
 - **Mechanical:** Automatically pans or tilts the camera.
 - **Off:** Disables Auto Flip.

- ⑩ **Tilt-Range:** Specify the camera's tilting range.
- ⑪ **Restore:** Specify whether to restore the camera to its last position or function. Enabling this option restores the camera to its last position or function after being restarted.

Privacy Masking Options

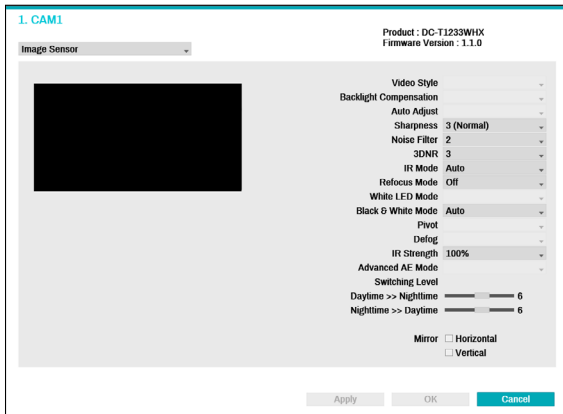


Select **Name** to rename the privacy masking area. Select the **X** icon to delete the existing privacy masking area. Select **Privacy Masking Setup** to display additional privacy masking area options. You can drag on the area with the mouse to resize it or add up to 16 different areas.



- **Edit:** Rename the selected privacy masking area.
- **Delete:** Delete the selected privacy masking area.
- **Save:** Save the changes and exit the privacy masking area options screen.
- **Cancel:** Exit the privacy masking area options screen without saving the changes.

Image Sensor Options



- **Product, Firmware Version:** Displays the camera model name and firmware version.
- **Video Style:** Select **TV1 Color** or **PC Color**.
- **Backlight Compensation:** Enable/disable Backlight Compensation. If enabled, objects are exposed brighter in backlit situations.
- **Auto Adjust:** Selecting **Auto** allows the system to assess the lighting conditions and adjust the setting automatically. Selecting **Manual** allows the user to adjust the setting manually.
- **Sharpness:** Adjust the sharpness level. Adjust the contours to make the images look sharper. Increasing the value raises the sharpness level, but using too high a value can result in unwanted noise.
- **Noise Filter:** Select the noise filter level. Noise filter can reduce the noise in images taken under low-lighting conditions. Increasing the value reduces the noise, but using too high a value can result in blurry images.
- **3DNR :** Enable/disable 3DNR (3D Noise Removal). 3DNR reduces background noise in images taken under low-lighting conditions. 3DNR does not produce blurry images like Noise Filter but can result in ghosting.
- **IR Mode:** **IR Mode** blocks out the infrared spectrum. You can ensure clear images at all times by blocking out the infrared spectrum in high-lighting conditions and allowing the infrared spectrum to pass through in low-lighting conditions.
 - **Daytime Mode/Nighttime Mode:** Enable/disable **IR Mode**.
 - **Auto:** Allow the system to enable/disable **IR Mode** automatically.
 - **Schedule:** Set up the **IR Mode** schedule. **IR Mode** is disabled for all days and times that are

designated as **Daytime** in the schedule and is enabled at all other times.



Some camera models may not support the **Schedule** function.

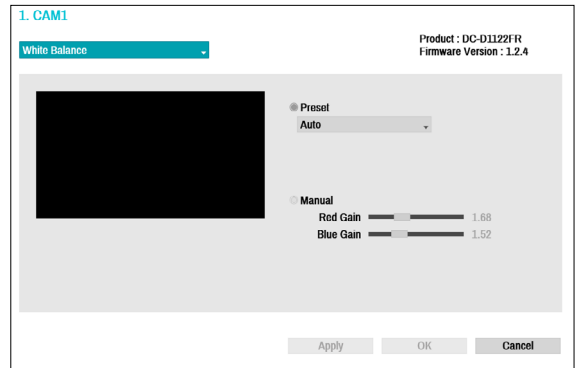
- **Refocus Mode:** Readjust the focus of the camera when changing daytime to nighttime or nighttime to daytime.
 - **On/Off:** Enable/disable **Refocus Mode**.
 - **DN Mode Shift:** When image of the camera is switched to daytime or nighttime, the focus of the camera will be adjusted.
 - **IR Adaptive Shift:** Readjust the focus of the camera when IR is detected by the camera.
- **White LED Mode:** Clicking on/off enables or disables White LED lighting when motion is detected by the PIR sensor. Also clicking auto allows the system to enable/disable **White LED mode** automatically.
- **Black & White Mode:** Display the images in greyscale for greater clarity in low-lighting conditions.
 - **On/Off:** Enable/disable **Black & White Mode**.
 - **Auto:** Allow the system to enable/disable **Black & White Mode** automatically.
 - **Schedule:** Set up the **Black & White Mode** schedule. **Black & White Mode** is disabled for all days and times that are designated as **Daytime** in the schedule and is enabled at all other times.
- **Pivot:** Enable this option and choose the direction of the pivot. You can turn the image by 90 degrees in the clockwise or counterclockwise direction. If vertical resolution is less than 320, this feature is not supported. This feature is particularly effective when monitoring hallways, passages, and other confined spaces.
 - The 32-channel model does not support the pivot feature.
- **Defog:** Disable or enable the Defog feature. When it is enabled, image with a fog is adjusted.
- **IR Strength:** Adjust the IR LED's brightness level. Select a brightness level manually between 0% (darkest) and 100% (brightest).
- **Advanced AE Mode:** Select desired setup mode between **Normal** and **Number-Identification**. In **Number-Identification** mode, when a certain area of images is too bright due to backlight under low lighting conditions and it causes the other area to be too dark, this function provides the other area of images brightly and clearly by blocking the backlight in the certain area. Dark parking lot entrances and

gas station entrances at night, for example (Local Exposure compensates for the bright light coming from incoming vehicle headlights and makes it possible to see the license plates). When setting to the **Number-Identification** mode, some option settings will be adjusted automatically, and you cannot change them as long as the Setup Mode is not changed.

- **Switching Level:** Controls the changing time of daytime / nighttime mode, depending on the **Switching Level** between 1 to 10. The higher the value is, day / nighttime mode is changed under high-lighting conditions. Also the lower the value is, day / nighttime mode is changed under low-lighting conditions.
- **Mirror:** Select **Horizontal** or **Vertical** to flip the image horizontally and/or vertically.

Select **Apply** after setting up a camera to see images from the concerned camera on the left side of the screen. Selecting **Apply** or **OK** displays a popup screen that indicates whether the camera has been set up successfully or not.

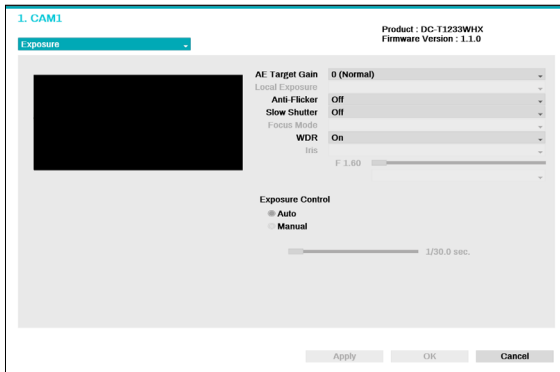
White Balance Options



- **Preset:** Use preconfigured white balance settings.
 - **Auto:** Allow the system to adjust the white balance automatically. The system will assess the lighting conditions and adjust the white balance automatically.
 - **Incandescent - Fluorescent Cold:** Select a lighting type to apply the appropriate white balance.
- **Manual:** Adjust the white balance manually. Adjust Red and Blue gain values. Greater the value, greater the intensity of the corresponding color.

Select **Apply** after setting up a camera to see images from the concerned camera on the left side of the screen. Selecting **Apply** or **OK** displays a popup screen that indicates whether the camera has been set up successfully or not.

Exposure Options



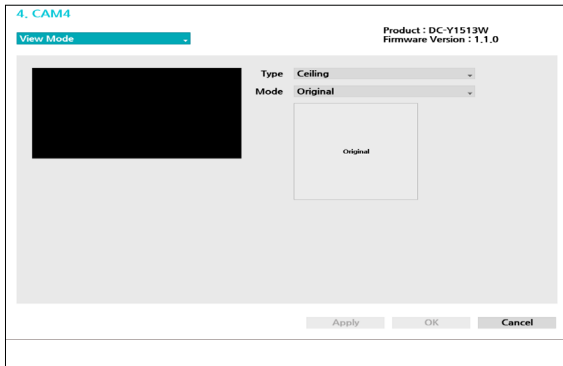
- **AE Target Gain:** Specify exposure compensation's target gain. Exposure is compensated automatically based on the specified target gain. Higher the gain, brighter the images.
- **Local Exposure:** Activate Local Exposure. Use Local Exposure on images that appear too dark due to backlighting conditions and on images containing over-exposed sections. Greater the value, clearer the image. e.g.) Dark parking lot entrances and gas station entrances at night (Local Exposure compensates for the bright light coming from incoming vehicle headlights and makes it possible to see the license plates).
- **Anti-Flicker:** If the lights in the area where the camera is located use alternating current, specify the frequency of the lights to minimize flickering. Matching the frequencies can eliminate flickering completely. (NTSC: 60Hz, PAL: 50Hz).
- **Slow Shutter:** Activate Slow Shutter. The slow shutter mode functions only under low lighting conditions. When the slow shutter mode is enabled, images are displayed bright even under the low-lighting conditions. There may be a difference in the way it functions depending on the camera model. See the camera user's manual for details.
- **Focus Mode:** Used to change the focus movement format as Auto/Manual/Semi-Automatic. It may not be supported depending on the device.
- **WDR:** Disables or enables the WDR (Wide Dynamic Range). When the very dark and very bright areas exist simultaneously on the screen, WDR allows you to recognize the both areas.
- **IRIS:** Select the lens IRIS type. If a manual IRIS lens is mounted on the camera, select **Manual**. If a DC-type auto IRIS lens is mounted, select **DC IRIS**. Also if a P-type auto IRIS lens is mounted, select **P IRIS**.

- **Shutter Speed Control:** Adjust Shutter Speed. This option is available only when **Anti-Flicker** and **Slow Shutter** are both set to **Off**.
 - **Auto:** The system will assess the lighting conditions and adjust the shutter speed automatically.
 - **Manual:** Use the slider to select the desired shutter speed. Select the most suitable minimum and maximum shutter speeds for the lighting conditions in the area where the camera is located. (1/30 to 1/8000)



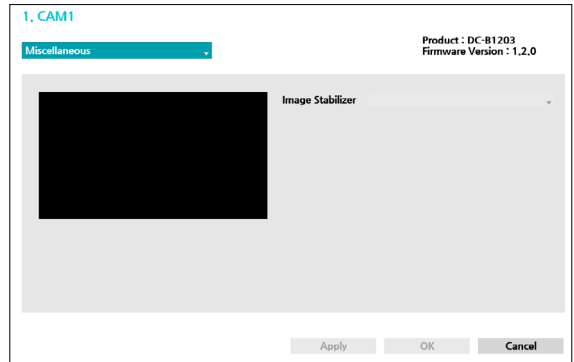
Select **Apply** after setting up a camera to see images from the concerned camera on the left side of the screen. Selecting **Apply** or **OK** displays a popup screen that indicates whether the camera has been set up successfully or not.

View Options



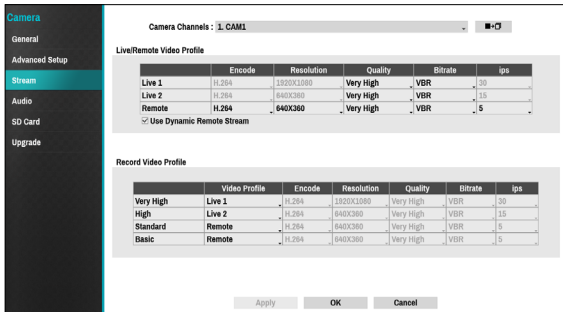
- **Type:** Selects the camera view.
 - **Mode:** Selects the screen layout in live mode.
- Dewarping feature is not supported when mode is set to the original.
- When changing the view mode, the resolution will be applied automatically. The maximum resolution of the original mode is 2560 x 2048 and the rest of modes is 1536 x 1536.

Miscellaneous



- **Image Stabilizer:** Activate Image Stabilizer. The Image Stabilizer reduces blurring caused by camera shake that results from external conditions such as the wind.

Stream

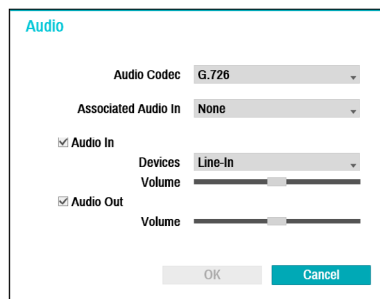
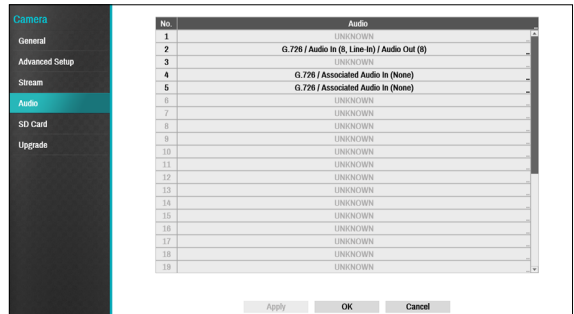


Configure the camera's live and recording resolution, encode, picture quality, transfer speed, and ips speed settings.

- **Camera Channels:** It's possible to configure a unique video profile for each camera.
- : Apply the video profile settings of the camera selected under Camera Channel to a different camera.
- **Live/Remote Video Profile:** Check the current Live video picture quality and edit remote video profile settings.
 - **Use Dynamic Remote Stream:** Automatically transmits the **Live 1** (Single Screen), **Live 2** (2x2), or **Remote** (greater than 2x2) stream, depending on the remote program's live screen layout.
- **Record Video Profile:** Set up 4 recording quality profiles.
- **Video Profile:** Select **Live 1**, **Live 2**, **Remote**, or **Custom** (available from Record Video Profile only). **Live 1** and **Live 2** allows the user to change **Bitrate** and **Quality** settings only and configures the remaining settings automatically.
 - **Encode:** Supports H.264.
 - **Resolution:** Select a resolution supported by the camera. Maximum available resolution is chosen automatically based on the selected video profile.
 - **Quality:** Select **Very High**, **High**, **Standard**, **Basic**, or **Manual**. You can assign different Quality settings to different cameras.
 - **Bitrate:** Select **CBR** or **VBR**. Transmitted data size is fixed with **CBR** but varies depending on the amount of movements in the images with **VBR**.
 - **ips:** Select a value between 1 and 30. Maximum **ips** is determined automatically based on the selected video profile.

Audio

Configure audio recording settings for all cameras simultaneously.



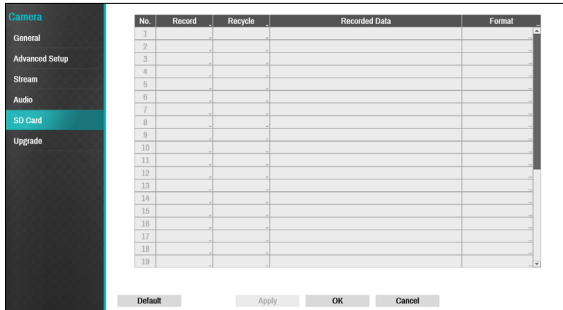
- **Audio Codec:** Select an audio codec. (G.726, ADPCM 16KHz, G.711 u-Law or G.711 a-Law)
- **Associated Audio In:** Associates the selected audio channel with the camera. It is supported by video encoders only.
- **Audio In:** Select an audio input source (microphone or line-in) and then adjust the volume.
- **Audio Out:** Adjust the volume.



Cameras do not feature built-in audio amplifier units and therefore require the user to purchase a speaker system with a built-in amplifier separately.

SD Card

If connection between the camera and NVR fails, the video will be recorded on SD memory card of the camera. When the connection is recovered again, the recorded video on SD memory card will be recorded on the NVR. The port number can also be entered using the virtual keyboard. For more information on Smart Failover, refer to the [Smart Failover on page 54](#).

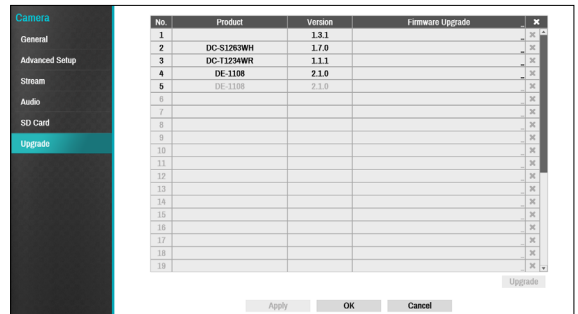


- **Record:** Configure this option to record the video on SD memory card when the connection between the camera and NVR fails.
 - **Recycle:** When there is not enough storage available on SD memory card, the oldest video will be deleted automatically.
 - **Recorded Data:** Indicates the time information of the recorded data.
 - **Format:** Click on this button to format the inserted SD card. Formatting the SD card deletes all data saved on the card.
- This function is only supported for the cameras supporting Failover recording of SD memory card.
 - For cameras in use by third-party NVRs or the newly registered cameras, the Format option displays **Other**.

Upgrade

When using NetFS, select Firmware Upgrade. You can select or USB port or NetFS. If not, you can only select USB port. Selecting Camera.

Select USB port to display USB search window and then select the corresponding upgrade package from the storage device connected to the NVR's USB port. After selecting an upgrade package, select Apply to upgrade the camera.



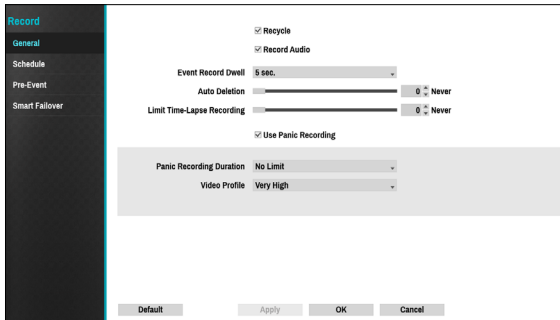
- If an upgrade attempt fails, an upgrade failure message will be displayed. Refer to **Error Code Types in the installation manual** for more details.
- The camera will reboot after the upgrade and then reconnect automatically.
- Current software version is not checked when upgrading a network camera.

Record Setup

Refer to the **Menu Use on page 28** for basic information on using the Setup menus.

General

Configure general recording settings.



- **Recycle:** When the recording disks become full, the system overwrites existing data with new data, starting with the oldest first. If **Recycle** is disabled, recording will simply stop when the recording disks reach their maximum capacity.
- **Record Audio:** The camera will record audio along with video.
- **Event Record Dwell:** If linked recording is designated as an event-triggered action, recording takes place for the duration specified under this setting.
- **Auto Deletion:** Configure this option to delete recording data automatically after the specified number of days has elapsed. Select between 1 day and 999 days.



To disable Auto Deletion, select **Never**. If enabled, recording data will be stored on the NVR for the specified number of days and then deleted automatically. Expired recording data are deleted automatically at midnight and will be deleted even if the system reboots or the **Auto Deletion** setting has been changed.

- **Limit Time-Lapse Recording:** You can store event recording data for longer. If you do not wish to use **Limit Time-Lapse Recording**, select **Never**. This function is activated when data has been stored for longer than as configured because the recording disk has sufficient capacity and saves new data by overwriting **Time Lapse Recording** data that are

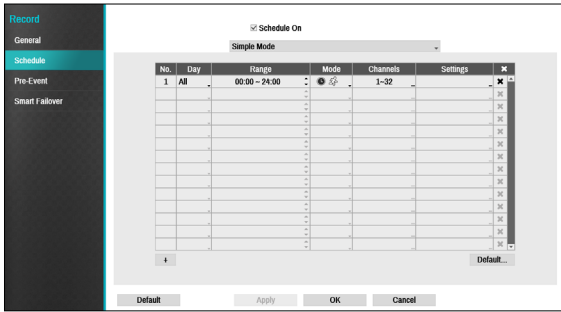
older than as specified under Recycle mode.



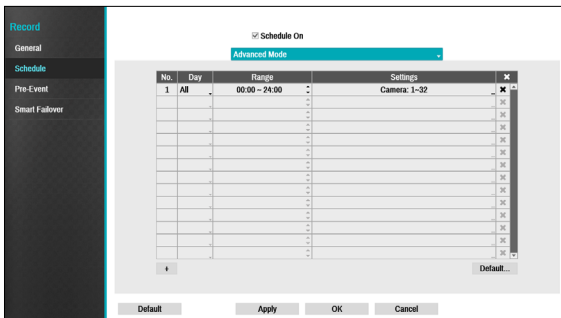
- If the recording stored on the disk is shorter than the duration specified under **Limit Time-Lapse Recording**, the older of **Event Recording** or **Time Recording** data is deleted first.
- The system's recording time may change depending on recording quality, resolution, motion, and other configurations made by the user. The duration specified under **Limit Time-Lapse Recording** may not be guaranteed in certain situations.

- **Use Panic Recording:** Enable/disable Panic Recording.
- **Panic Recording Duration:** Disable Panic Recording automatically. Select between 5 mins and 1 hr. If you do not wish to disable the feature automatically, select **No Limit**.
- **Video Profile:** Select a recording profile value for Panic Recording.

Schedule



<Simple Mode>



<Advanced Mode>

Disabling **Schedule On** suspends schedule recording regardless of the schedule and displays the on the upper left corner of each camera screen. Pressing the **Panic Record** button displays the and commences panic recording.

Set Record Schedule mode as **Simple Mode** or **Advanced Mode**. **Advanced Mode** allows you to configure a unique recording schedule for each event. Select the to delete a schedule.

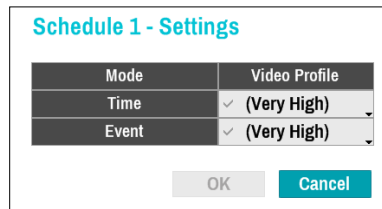
- Changing the recording schedule mode suspends all active event-linked actions.
- Select the + button on the bottom left of the screen to add a schedule. Select **Day** to specify the **Day** setting or select **All**. Select **Scope** to specify the time frame.

Simple Mode Options

- **Mode:** Select **No Record**, **Time**, **Event**, or **Time & Event**.

No Record	Unless the Panic Record button is pressed, no recording will take place during the scheduled time frames on the scheduled days.
Time	The icon appears on the upper left corner of the screen. The icon appears at scheduled times to indicate recording is in progress.
Event	The icon appears on the upper left corner of the screen. The icon appears when the specified event occurs to indicate recording is in progress. <input checked="" type="checkbox"/> If Pre-Event is enabled, the and icons appear when recording is not in progress, or the and icons appear when an event occurs and recording is in progress.
Time & Event	The icon appears on the upper left corner of the screen and recording commences as per the video profile selected for time under Setup . When an event occurs, the icon changes into icon and recording commences as per the video profile selected for events under Setup .












- **Channel:** Select which cameras to apply the schedule to.
- **Settings:** Select to configure default recording profile values for Time Lapse and Event Recording modes.



Advanced Mode Options

Select to configure event types and video profiles.

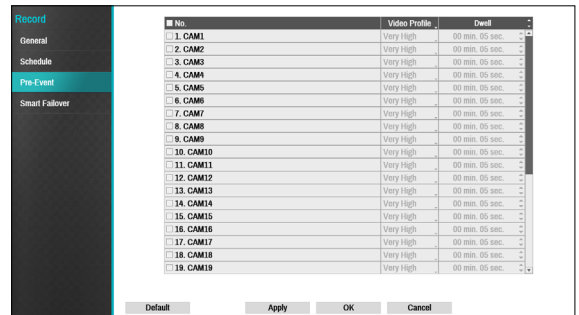
- **Type:** Event-specific and time recording icons are as follows:

	Time Lapse (Time)		Audio Detection
	Alarm-In		Trip Zone
	Motion Detection		Tampering
	Video Loss		Text-In
	Recording Fail		Fan Error
	Face Detection		

- **Video Profile:** Configure the profile to use for recording.
 - **Dwell:** Specify how long to record for after a corresponding event occurs.
- Upper-tier schedule's settings apply to unconfigured channels.
- If multiple events take place on a specific channel and different **Video Profile** and **Dwell Time** settings apply, highest settings apply to all event-linked recordings.

Pre-Event

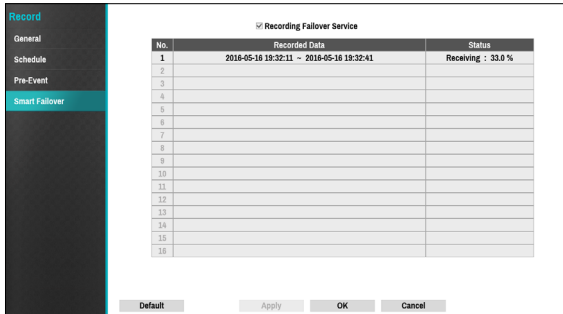
When an event occurs, enabling this option includes the specified duration prior to the event in the event-triggered recording.



- **No.:** Select which cameras to apply Pre-Event to.
 - **Video Profile:** Select a video profile for the recording.
 - **Dwell:** Specify the duration of pre-event recording data.
- If no event mode schedule exists in the schedule, a warning message prompting you to add an event mode schedule will be displayed.
- The warning message will appear even in **Time & Event** mode.

Smart Failover

When the connection is recovered again, Smart Failover Service enables the data recorded on SD memory card to record on NVR.



- **Recording Failover Service:** Use this option to record the data recorded on SD memory card on NVR.
- **Recorded Data:** Indicates the time information of the recorded data.
- **Status:** Indicates the current status of the recorded data.



- This function supports only if selecting **Recording Failover Service**.
- This function is only supported for the cameras supporting Failover recording of SD memory card.
- If the camera is reconnected during recording, the video recording will restart from the beginning.

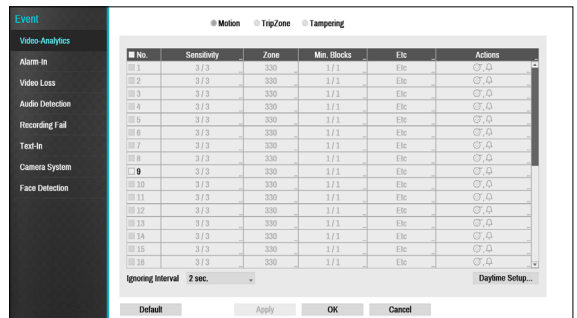
Event Setup

Refer to the **Menu Use on page 28** for basic information on using the Setup menus.

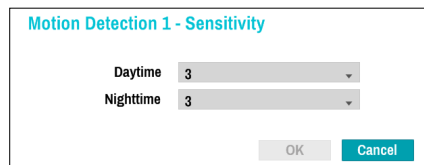
Video-Analytics

Video-Analytics methods are Motion, Trip Zone, and Tampering.

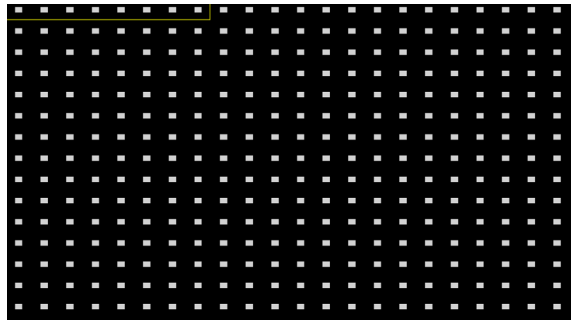
Motion




- **No.:** Select which cameras to apply Motion Detection to.
- **Sensitivity:** Set daytime and nighttime sensitivity settings between 1 (Low) and 5 (High).

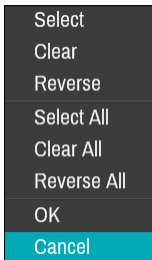


- **Zone:** Define the motion detection block.



Use the remote control's arrow buttons to move the block selection window up, down, left, and right. The selection window consists of 8 blocks per row. Select/deselect individual blocks using the **Camera** buttons. You can use the mouse to drag the zone and then select, clear, or reverse the selection.

From the zone selection screen, press the  button on the remote control or right-click on the mouse to open up the Zone Setup menu.



- **Select:** Confirm the block selection in the selection window.
- **Clear:** Clear the block selection in the selection window.
- **Reverse:** Clear the blocks selected within the selection window and select all unselected blocks within the selection window.
- **Select All:** Select all blocks.
- **Clear All:** Clear all block selections.
- **Reverse All:** Clear all selected blocks within the screen and select all unselected blocks within the screen.
- **OK:** Save the changes and exit the menu.
- **Cancel:** Exit the menu without saving the changes.

- **Min. Blocks:** Motion needs to be detected in more than the specified number of blocks in order to trigger a Motion Detection event. You may select a value between 1 and the number of blocks selected under **Zone** for daytime and nighttime, each.

- **Etc:** Select to detect an event on PTZ movement.

- **Actions:** Specify which actions to take when motion is detected.
 - **Record:** Specify which cameras to begin linked recording on when an event occurs. If the schedule is set to Event or Time & Event mode, the selected cameras will begin linked recording when an event occurs.
 - **Alarm-Out:** Designate event-triggered alarm-out channels (each for the NVR and camera) and beeps.
 - **Notify:** Configure to be notified of events by Mail, LAN1 through 5, SNS, Push, and/or Alert Window.
 - **EventUpload:** Uploads the video clips when an event occurs.
 - **PTZ:** Moves the PTZ camera to a specific preset position when an event occurs.
 - **Event Monitoring:** Selects the cameras to monitor when an event occurs.

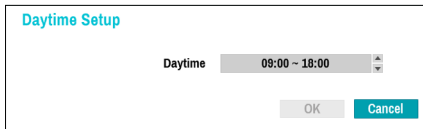


In order to use the Callback feature, the NVR must be registered on the remote program.

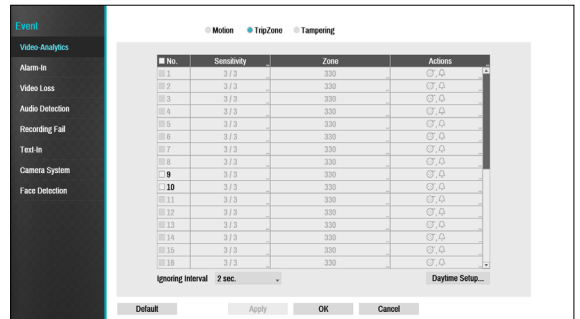
- **Ignoring Interval:** The system does not produce event log entries or issue remote notifications regarding motion detected for the time specified after the initial motion was detected. Set the value between 1 sec and 5 secs or choose **Never**.

Ignoring Interval does not affect motion detection recording.

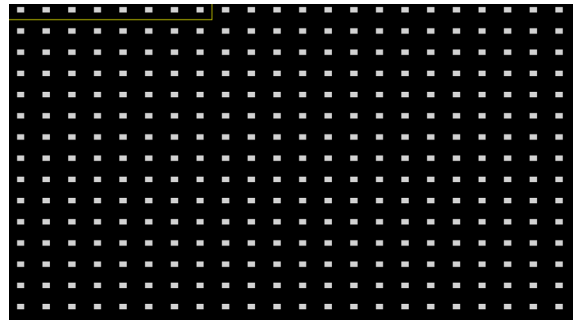
- **Daytime Setup:** Specify when daytime starts and ends. Adjust the time frame in 15-minute increments. Times outside the specified range will be assumed as nighttime by the system.




Trip Zone

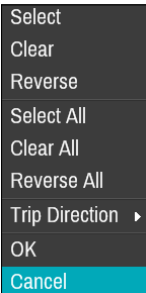


- **No.:** Select which cameras to apply Trip Zone to.
- **Sensitivity:** Set daytime and nighttime sensitivity settings between 1 (Low) and 5 (High).
- **Zone:** Define the motion detection block.



Use the remote control's arrow buttons to move the block selection window up, down, left, and right. The selection window consists of 8 blocks per row. Select/deselect individual blocks using the **Camera** buttons. You can use the mouse to drag the zone and then select, clear, or reverse the selection.

From the zone selection screen, press the  button on the remote control or right-click on the mouse to open up the Zone Setup menu.



- **Select:** Confirm the block selection in the selection window.
- **Clear:** Clear the block selection in the selection window.
- **Reverse:** Clear the blocks selected within the selection window and select all unselected blocks within the selection window.
- **Select All:** Select all blocks.
- **Clear All:** Clear all block selections.
- **Reverse All:** Clear all selected blocks within the screen and select all unselected blocks within the screen.
- **Trip Direction:** Define in which direction the motion has to occur in order for it to be considered an event. Select In for movements from outside the selection area in or Out for movements from inside the selection area out.
- **OK:** Save the changes and exit the menu.
- **Cancel:** Exit the menu without saving the changes.

- **Actions:** Specify which actions to take when Trip Zone is detected.

- **Record:** Specify which cameras to begin linked recording on when an event occurs. If the schedule is set to Event or Time & Event mode, the selected cameras will begin linked recording when an event occurs.
- **Alarm-Out:** Designate event-triggered alarm-out channels (each for the NVR and camera) and beeps.
- **Notify:** Configure to be notified of events by Mail, LAN1 through 5, SNS, Push, and/or Alert Window.
- **EventUpload:** Uploads the video clips when an event occurs.
- **PTZ:** Moves the PTZ camera to a specific preset position when an event occurs.
- **Event Monitoring:** Selects the cameras to monitor when an event occurs.

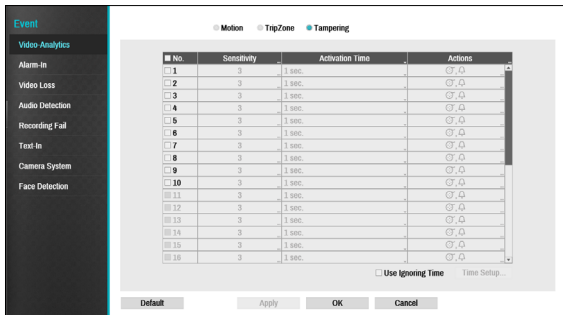
- In order to use the Callback feature, the NVR must be registered on the remote program.

- **Trip Zone Ignoring Interval:** The system does not produce event log entries or issues remote notifications regarding Trip Zone events detected during the specified time following the initial Trip Zone event. Set a value between 1 sec and 5 secs or choose Never.

- Trip Zone Ignoring Time does not affect Trip Zone recording.

- **Daytime Setup:** Specify when daytime starts and ends. Adjust the time frame in 15-minute increments. Times outside the specified range will be assumed as nighttime by the system.

Tampering

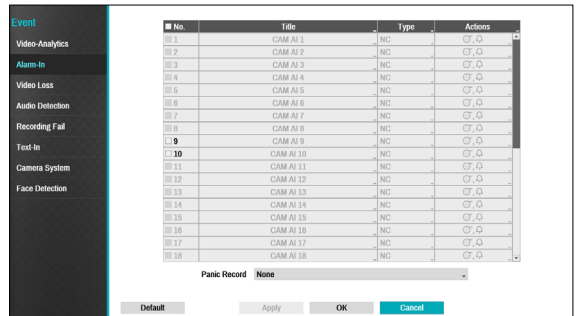


- **No.:** Select which cameras to apply Tampering to.
- **Sensitivity:** Set to between 1 (Low) and 5 (High).
- **Activation Time:** Specify how long tampering detection needs to last in order for it to be considered an event. Tampering detections that do not last for the specified duration of time will not be considered as events.
- **Actions:** Specify which actions to take when Tampering is detected.
 - **Record:** Specify which cameras to begin linked recording on when an event occurs. If the schedule is set to **Event** or **Time & Event** mode, the selected cameras will begin linked recording when an event occurs.
 - **Alarm-Out:** Designate event-triggered alarm-out channels (each for the NVR and camera) and beeps.
 - **Notify:** Configure to be notified of events by Mail, LAN1 through 5, SNS, Push, and/or Alert Window.
 - **EventUpload:** Uploads the video clips when an event occurs.
 - **PTZ:** Moves the PTZ camera to a specific preset position when an event occurs.
 - **Event Monitoring:** Selects the cameras to monitor when an event occurs.

In order to use the Callback feature, the NVR must be registered on the remote program.

- **Use Ignoring Time:** Select **Time Setup** to specify the tampering detection ignore time. Tampering detection will be disabled during the specified time frame.

Alarm-In



- **No.:** Enable / disable alarm-ins.

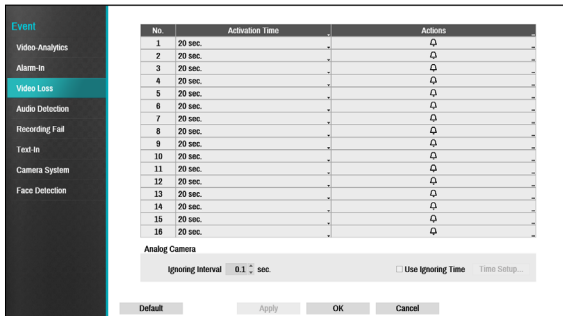
This option includes both local and network camera alarm-ins. 1 through 16 are network camera alarm-ins, whereas 17 through 20 are local alarm-ins.

- **Title:** Use the virtual keyboard to enter titles.
- **Type:** Change the alarm-in type.
- **Actions:** Specify which actions to take when Alarm-In is detected.
 - **Record:** Specify which cameras to begin linked recording on when an event occurs. If the schedule is set to Event or Time & Event mode, the selected cameras will begin linked recording when an event occurs.
 - **Alarm-Out:** Designate event-triggered alarm-out channels (each for the NVR and camera) and beeps.
 - **Notify:** Configure to be notified of events by Mail, LAN1 through 5, SNS, Push, and/or Alert Window.
 - **EventUpload:** Uploads the video clips when an event occurs.
 - **PTZ:** Moves the PTZ camera to a specific preset position when an event occurs.
 - **Event Monitoring:** Selects the cameras to monitor when an event occurs.

In order to use the Callback feature, the NVR must be registered on the remote program.

- Select **Panic Record** to specify which alarm-in channels to use. Panic Record commences when the corresponding alarm-in occurs and terminates when the alarm-in is deactivated.

Video Loss

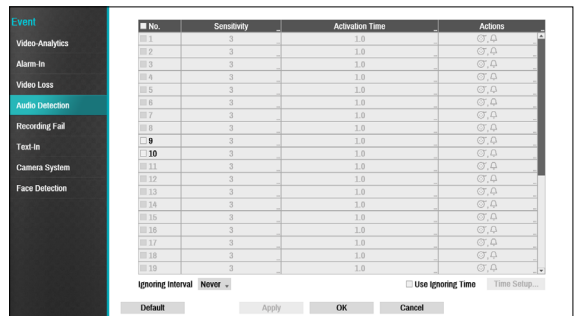


- **Activation Time:** Specify how long video loss has to last in order for it to be considered as an event. When the video loss is not detected for the specified duration of time, it will not be considered as an event.
- **Actions:** Specify which actions to take when a Video Loss event occurs.
 - **Record:** Specify which cameras to begin linked recording on when an event occurs. If the schedule is set to **Event** or **Time & Event** mode, the selected cameras will begin linked recording when an event occurs.
 - **Alarm-Out:** Designate event-triggered alarm-out channels (each for the NVR and camera) and beeps.
 - **Notify:** Configure to be notified of events by Mail, LAN1 through 5, SNS, Push, and/or Alert Window.
 - **EventUpload:** Uploads the video clips when an event occurs.
 - **PTZ:** Moves the PTZ camera to a specific preset position when an event occurs.
 - **Event Monitoring:** Select the cameras to monitor when an event occurs.

In order to use the Callback feature, the NVR must be registered on the remote program.

- **Analog Camera:** Detect a video loss event for the analog cameras connected to the video encoder.
 - **Ignoring Interval:** The system does not produce event log entries or issue remote notifications for video loss detected for the time specified after the initial video loss was detected. Set the value between 0.1 and 15 seconds or choose **Never**.
 - **Use Ignoring Time:** Select **Time Setup** to specify the time to ignore video loss detection. Video loss detection will be disabled for a specified time period.

Audio Detection

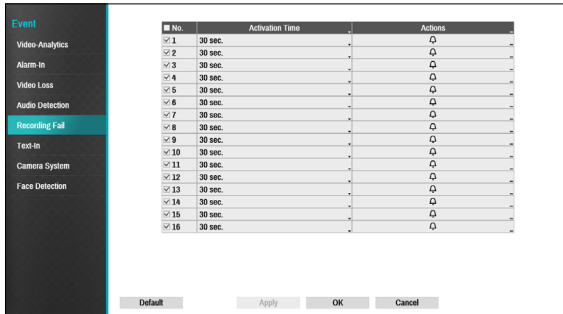


- **No.:** Select which cameras to apply Audio Detection to.
- **Sensitivity:** Set to between 1 (Low) and 5 (High).
- **Activation Time:** Specify how long audio detection has to last in order for it to be considered an event. Audio detections that do not last for the specified duration of time will not be considered as events.
- **Actions:** Specify which actions to take when audio detection events occur.
 - **Record:** Specify which cameras to begin linked recording on when an event occurs. If the schedule is set to Event or Time & Event mode, the selected cameras will begin linked recording when an event occurs.
 - **Alarm-Out:** Designate event-triggered alarm-out channels (each for the NVR and camera) and beeps.
 - **Notify:** Configure to be notified of events by Mail, LAN1 through 5, SNS, Push, and/or Alert Window.
 - **EventUpload:** Uploads the video clips when an event occurs.
 - **PTZ:** Moves the PTZ camera to a specific preset position when an event occurs.
 - **Event Monitoring:** Selects the cameras to monitor when an event occurs.

In order to use the Callback feature, the NVR must be registered on the remote program.

- **Ignoring Interval:** The system does not produce event log entries or issues remote notifications regarding audio detected during the specified time following the initial audio detection. Set a value between 1 sec and 5 secs or choose **Never**.
- **Use Ignoring Time:** Select **Time Setup** to specify the audio detection ignore time. Audio detection will be disabled during the specified time frame.

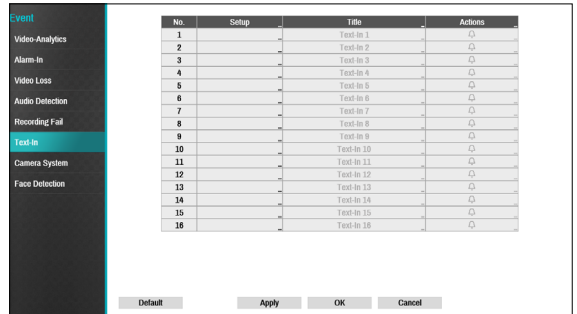
Recording Fail



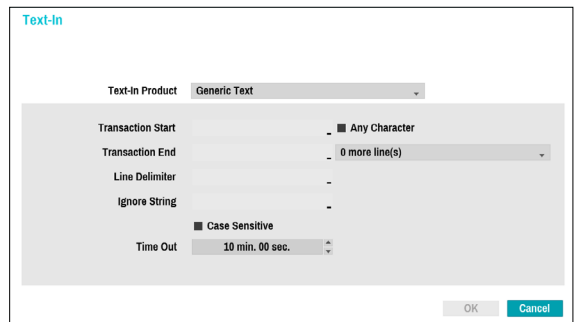
- **Activation Time:** Specify how long recording fail has to last in order for it to be considered as an event. When the recording fail is not detected for the specified duration of time, it will not be considered as an event.
- **Actions:** Specify which actions to take when a Recording Fail event occurs.
 - **Record:** Specify which cameras to begin linked recording on when an event occurs. If the schedule is set to **Event** or **Time & Event** mode, the selected cameras will begin linked recording when an event occurs.
 - **Alarm-Out:** Designate event-triggered alarm-out channels (each for the NVR and camera) and beeps.
 - **Notify:** Configure to be notified of events by Mail, LAN1 through 5, SNS, Push, and/or Alert Window.
 - **EventUpload:** Uploads the video clips when an event occurs.
 - **PTZ:** Moves the PTZ camera to a specific preset position when an event occurs.
 - **Event Monitoring:** Selects the cameras to monitor when an event occurs.

In order to use the Callback feature, the NVR must be registered on the remote program.

Text-In




- **Setup:** Configure text-in devices.



- It's possible to batch configure all text-in devices with the exception for port settings.
- An influx of large amounts of text-in data from multiple channels can hinder system performance.

- **Text-In Product:** The setup window is updated so that the portion below the port setting matches the corresponding text-in device. Displayed screenshot illustrates Generic Text settings.
- **Transaction Start:** Once **Transaction Start** has been designated, the system will recognize the specified string as the beginning of a transaction. You can choose the Any Character setting. Under this setting, any character will trigger the system into recognizing the start of a new transaction.
- **Transaction End:** Once **Transaction End** has been designated, the system will recognize the specified string as the end of a transaction. Select **0 more line(s)** next to Transaction End and specify a value between 1 and 10. The system will recognize the specified Transaction End string plus the number of lines as being the end of a transaction.

- **Line Delimiter:** Designate a string to mark the end of a line. You can enter control strings by selecting  and then entering ^, followed by a letter. For example, Carriage Return is ^M and Line Feed (new line) is ^J.
- **Ignore String:** Specify a string to ignore from transaction records.
- **Case Sensitive:** Ignores case in strings designated under **Transaction Start**, **Transaction End**, **Line Delimiter**, and **Ignore String**.

Case Sensitive does not apply to control strings.

- **Time Out:** Once **Time Out** has been enabled, the system will assume the end of a transaction if no new string is entered within the specified duration of time. Select between 5 secs and 15 mins.

Selecting RS-232, RS-485, USB-Serial 1 through 8, or LAN 1 through 16 as the port activates the Port Setup button. Select **Setup** and configure the **Baud Rate**, **Data Bit**, **Stop Bit**, and **Parity** settings.

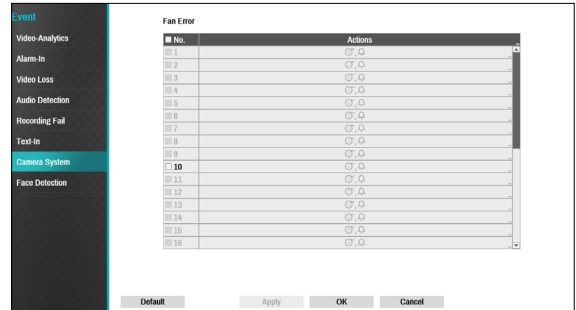
- If any one of LAN1 through 16 has been selected as the port, select the Port Setup button and configure the network port setting.
- If using a USB-serial port, the Text-In feature may malfunction if the USB cable is removed while the system is in operation.

- **Title:** Designate a name for the text-in device.
- **Actions:** Specify which actions to take when text-in is detected.
 - **Record:** Specify which cameras to begin linked recording on when an event occurs. If the schedule is set to Event or Time & Event mode, the selected cameras will begin linked recording when an event occurs.
 - **Alarm-Out:** Designate event-triggered alarm-out channels (each for the NVR and camera) and beeps.
 - **Notify:** Configure to be notified of events by Mail, LAN1 through 5, SNS, Push, and/or Alert Window.
 - **EventUpload:** Uploads the video clips when an event occurs.
 - **PTZ:** Moves the PTZ camera to a specific preset position when an event occurs.
 - **Event Monitoring:** Selects the cameras to monitor when an event occurs.

In order to use the Callback feature, the NVR must be registered on the remote program.

Camera System

The event occurs when the fan has stopped in the fan mounted camera.

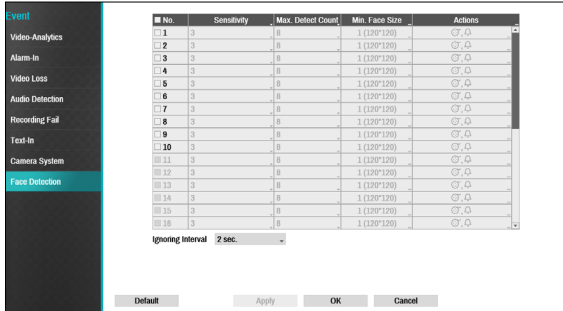


- **No.:** Select which cameras to apply Fan Error to.
- **Actions:** Specify which actions to take when a Fan Error event occurs.
 - **Record:** Specify which cameras to begin linked recording on when an event occurs. If the schedule is set to **Event** or **Time & Event** mode, the selected cameras will begin linked recording when an event occurs.
 - **Alarm-Out:** Designate event-triggered alarm-out channels (each for the NVR and camera) and beeps.
 - **Notify:** Configure to be notified of events by Mail, LAN1 through 5, SNS, Push, and/or Alert Window.
 - **EventUpload:** Uploads the video clips when an event occurs.
 - **PTZ:** Moves the PTZ camera to a specific preset position when an event occurs.
 - **Event Monitoring:** Selects the cameras to monitor when an event occurs.

- In order to use the Callback feature, the NVR must be registered on the remote program.
- In case of the camera that not supports camera system event, the camera system feature will be disabled.

Face Detection

When face detection event occurs in the selected camera, the area that the face is detected displays on the screen.



- **Ignoring Interval:** The system does not produce event log entries or issue remote notifications regarding face detected for the time specified after the initial motion was detected. Set the value between 1 sec and 5 secs or choose **Never**.

- **No.:** Select which cameras to apply Face Detection to.
- **Sensitivity:** Set sensitivity settings between 1 (Low) and 5 (High).
- **Max. Detect Count:** Set the maximum detected number of face as 8 or 32.

When you set the Max. Detect Count as 32, the sensitivity feature will be disabled.

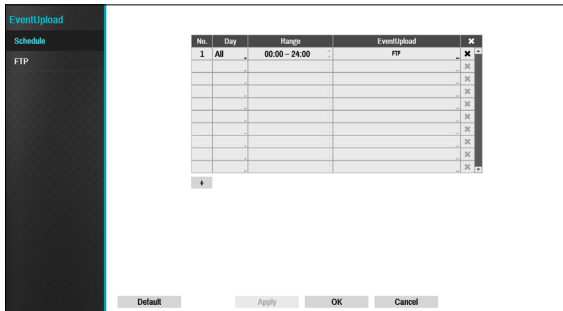
- **Min. Face Size:** Select 120 x 120, 150 x 150, 180 x 180, 210 x 210 or 240 x 240.
- **Actions:** Specify which actions to take when a Face Detection event occurs.
 - **Record:** Specify which cameras to begin linked recording on when an event occurs. If the schedule is set to **Event** or **Time & Event** mode, the selected cameras will begin linked recording when an event occurs.
 - **Alarm-Out:** Designate event-triggered alarm-out channels (each for the NVR and camera) and beeps.
 - **Notify:** Configure to be notified of events by Mail, LAN1 through 5, SNS, Push, and/or Alert Window.
 - **EventUpload:** Uploads the video clips when an event occurs.
 - **PTZ:** Moves the PTZ camera to a specific preset position when an event occurs.
 - **Event Monitoring:** Selects the cameras to monitor when an event occurs.

- In order to use the Callback feature, the NVR must be registered on the remote program.
 - In case of the camera that not supports face detection event, the face detection feature will be disabled.

EventUpload

Refer to **Menu Use on page 28** for basic information on using the Setup menus.

Schedule

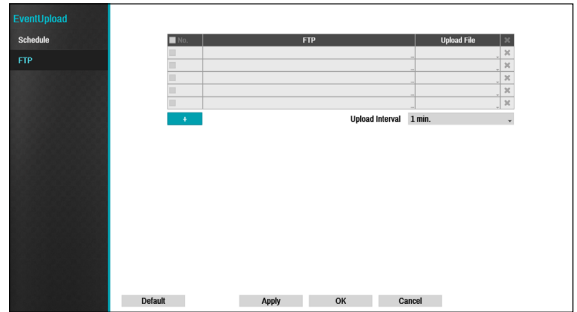


Click the + icon at the bottom of the list to add an event to the schedule.

- **Day:** Select different schedules for different days of the week.
- **Range:** Change the scheduling time period.
- **EventUpload:** Uploads the video clips when an event occurs.

- In order to use the EventUpload feature, the NetFS settings and the FTP sites must be registered to the NVR.

FTP

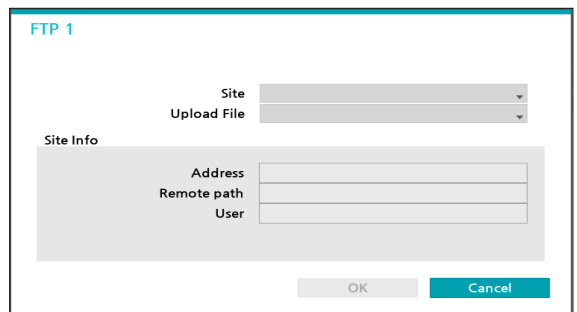


The FTP feature uploads event-detected images or video clips to the FTP site when an event occurs. Click the + icon at the bottom of the list to add an FTP site.

- **FTP:** Enter the FTP site information using the virtual keyboard.
- **Upload File:** Select the file format to be uploaded to the FTP site.

- Up to 5 FTP sites can be registered.

Click the + icon at the bottom of the list to add an FTP site.



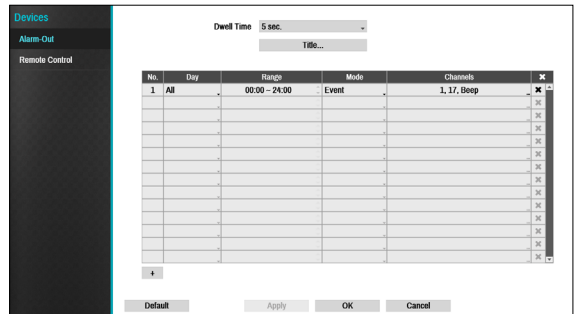
- **Site:** Displays the list of the registered FTP sites. Select an FTP site from the list. If the Use settings of the NetFS site are set to anything other than **ALL** or **Clip-Copy**, you cannot select the FTP site. You can change the Use settings or register other FTP sites in the NetFS setup screen in the Network menu.
- **Upload File:** Select between **CBF** and **MP4**. When you select **CBF**, the NVR will upload an event detected video clip to the FTP site. When you select **MP4**, the NVR will attach an event-detected image file to the FTP site.

- **Site Information:** Displays information for the FTP site.
- ☑ For the FTP notification to work properly, the related settings should be configured as follows:
 - **Network menu - NetFS tab - Use setting**
 - **Event menu - Actions - EventUpload setting**
- When you delete an FTP site from the NetFS setup screen in the Network menu, the FTP site in the FTP setup screen in the Notification menu will be deleted, too.
- If many event occurs during a short period, the images may not be uploaded to the FTP site.
- The FTP notification is not supported for system events.
- If upload fails several times, the images or video clips are deleted.
- When the NVR boots, all images and video clips are deleted even if they were not uploaded yet.

Device Setup

Refer to the **Menu Use on page 28** for basic information on using the Setup menus.

Alarm-Out



Click the + icon at the bottom left corner of the screen to add a schedule.

You can apply different schedules for different **Days** of the week.

Select icon to delete the schedule.

- **Dwell Time:** Select a value between 5 secs and 15 mins as the alarm-out duration.
- **Title:** Designate a name for the alarm-out.
- **Range:** Change the schedule time frame.
- **Mode:** Select **Event**, **On**, or **Off**.

Event	Generates an alarm-out when an event occurs.
On	Alarm-out is always on.
Off	Alarm-out is always off.

- **Channels:** Configure alarm-out port and beep settings.

Remote Control

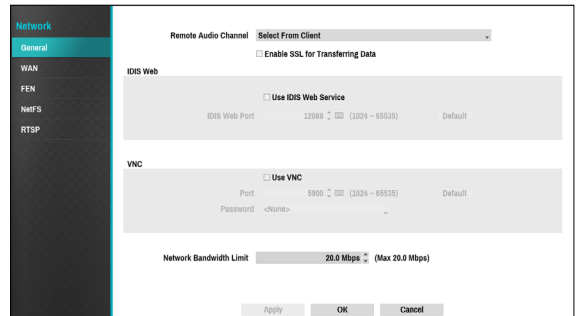


- Port:** Select **None**, **RS232** or **RS485**. Click the **Setup** button and then select the correct **Baud Rate**, **Parity**, **Data Bits** and **Stop Bits** for the device you are connecting to the NVR. You can select the device from the **Remote Control Product** list. If the **RS232** port and **RS485** port are in use for PTZ control, networking or text input, the remote keyboard cannot be configured. A warning message window will appear when other devices are using the same port, such as PTZ control, networking or text input. The message warns that you cannot use another device because the ports overlap.

Network Setup

Refer to the **Menu Use on page 28** for basic information on using the Setup menus.

General



- Remote Audio Channel:** Transmits the selected channel's audio to the remote program. Select **Select From Client** to stream audio of the channel selected on the remote program.



Audio skipping and sync issues can occur under poor network conditions.

- Enable SSL for Transferring Data:** Applies SSL (Secure Sockets Layer) protection on remote viewing and recording data transmissions.



- If using the SSL feature, it will not be possible to connect to the NVR from a remote program or a network keyboard that does not support SSL.
- Changing the SSL setting temporarily severs all remote connections to the NVR in order to apply the change.
- This product contains content developed by OpenSSL Project for use in Open SSL Toolkit (<http://www.openssl.org/>).

- IDIS Web:** If you wish to use IDIS Web, select **IDIS Web - Use IDIS Web Service**. Select **IDIS Web - IDIS Web Port** and choose a port number between 1024 and 65535. The port number can also be entered using the virtual keyboard. For more information on IDIS Web, refer to the **Part 4 - IDIS Web on page 88**.

- **VNC:** Use Virtual Network Computing (VNC) by clicking the **Use VNC** button to toggle between On and Off. You will be able to change the settings if Use VNC is enabled. VNC service allows you to access the NVR and control it remotely using a PC or mobile devices via Ethernet.
 - **Port:** Configure the port number of the VNC server.
 - **Password:** Configure the **Password** to connect to the NVR from a remote locale.

Up to three users at a time can access a NVR remotely via VNC service.

- **Network Bandwidth Limit:** Configure the bandwidth limit.

If you configured **Network Bandwidth Limit**, the live video may not display smoothly in a remote program.

Key	Function
← or h	Press the ← or h key to move to the left in the menu. This is the same as pressing the Left arrow button on the front panel.
→ or l	Press the → or i key to move to the right in the menu. This is the same as pressing the Right arrow buttons on the front panel.
↑ or k	Press the ↑ or k key to move up in the menu. This is the same as pressing the Up arrow button on the front panel.
↓ or j	Press the ↓ or j key to move down in the menu. This is the same as pressing the Down arrow button on the front panel.
m or Windows	Press the m or Windows key to display the Live Monitoring menu or Search menu on the screen. This is the same as pressing the MENU button on the front panel.
Enter or Return	Press the Enter or Return key to select the highlighted item or complete an entry that you have made during system setup. This is the same as pressing the Play/Pause button on the front panel.
d or PaceUP/ PageDown	Press the d or PageUp or PageDown key to toggle between different display formats. This is the same as pressing the DISPLAY button on the front panel.
c or Home	Press the c or Home key to copy video clips. This is the same as pressing the CLIP-COPY button on the front panel.
F5	Press the F5 key to refresh the current VNC screen.

WAN

Designate the IP address type as **Manual** or **DHCP**.

Manual

Set **Type** to **Manual**.

- Manual** lets you configure related settings manually. Configure **IP Address**, **Gateway**, and **Subnet Mask** settings manually using the remote control's arrow buttons or the virtual keyboard.

- **DNS Server:** Enter the DNS server's IP address. The IP address can also be entered using the virtual keyboard.
- **Remote Port:** The port used by the remote program to connect to the NVR. Choose a value between 1024 and 65535. The port number can also be entered using the virtual keyboard.
- **Remote Callback:** Set the port number using for remote callback. The port number can also be entered using the virtual keyboard.

- **Ping Test:** Select to test the current WAN settings you made.

- 1 Enter the IP address of the NVR.
- 2 Adjust the frequency of the ping test.
- 3 Select **Run** to do the test. The test result is displayed.

- 4 Select **Close** to exit.

- If using a firewall, select Change Port to change the port number to one that is permitted by the firewall.
- Changing the port temporarily severs the NVR's remote connection.

- Remote point IP and port settings on the remote program must also be changed in order for it to connect to the NVR.

- To use the **UPnP** (Universal Plug and Play) feature, select **Use UPnP**. If using an IP router (or NAT), UPnP service allows the device to automatically forward the port to the NVR.

- This port is used to access a port that has a private IP address.
- In order to use the UPnP service, the IP router (or NAT) must support UPnP port forwarding and have the relevant options enabled.
- Port number cannot be changed with **Use UPnP** selected.

- **Status:** Indicates the number of the port forwarded by the IP router (or NAT) to the NVR via UPnP service.

DHCP



Select **DHCP** and then **Save** to retrieve IP address and other network settings automatically from the DHCP server. Once the network settings have been retrieved, the NVR's current IP address is displayed in the IP Address field.



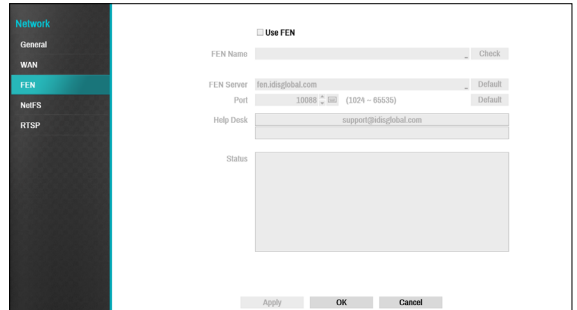
- It may not be possible to retrieve the IP address if there is no DHCP server. If this is the case, contact your network administrator.
- With DHCP, the NVR's IP address might change with each startup.



There is a limit to the number of users allowed to connect remotely at the same time. Contact the service center for more information.

FEN

If using a dynamic IP address, FEN service makes it easy to connect to the NVR from a remote program without having to configure dynamic IP or router settings.



- **Use FEN:** Check if you wish to use FEN service.
- **FEN Name:** After entering the NVR name you wish to register on the FEN server, check and register the entered name. This is a unique NVR name that will be registered on the FEN server.
- You will not be able to save FEN settings unless you click on the Check button next to the NVR Name field and check the entered name's availability.
- You will be prompted with an error message if you do not enter NVR name or enter a name already registered to the FEN Server.
- If the device name contains the #, \, and/or % symbol, it might not be able to connect to the NVR from the IDIS Web program.
- **FEN Server:** Enter the FEN server's IP address or domain name.
- If you have configured the DNS Server setting under **Network - WAN**, you can enter the FEN server's domain name instead of its IP address in the **FEN Server** field.
- **Port:** Specify the FEN server's port number.
- If using an IP router (or NAT), port configuration and other network functions will depend on the usage method of the IP router (or NAT).
- **Status:** Used to check the status of the device being registered to the FEN server.

Select **Save** after making changes to register the NVR's name to the FEN server.





If FEN has been configured correctly, the FEN server's help desk information will be displayed in the **Help Desk** field the next time you access the FEN Setup screen.


NetFS

This allows you to register NetFS sites for the following functions:


- Upload or download files to upgrade, import/export of a setup file, log export, self-diagnosis export, or file print on an FTP site. The related settings are as follows:

:  (Setup) in the live monitoring mode - System menu - General tab - Upgrade, Import, Export or SystemLog - Self-Diagnosis Export


:  (Setup) in the live monitoring mode - System menu - Self-Diagnosis Export


: in the search mode -  (Print)

- Upload clip-copy files to an FTP site. The related settings are as follows:

:  (Export) in the search mode - A-B Clip-Copy or Clip-Copy.

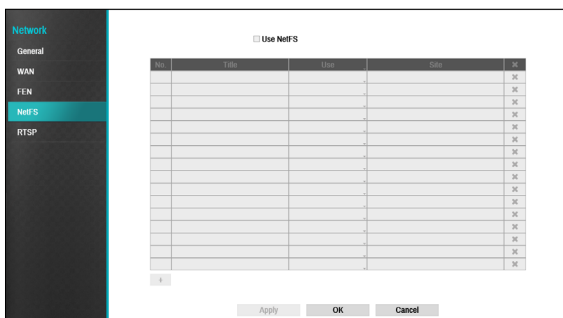
- FTP notification of an event detection (system events excluded). The related settings are as follows:

:  (Setup) in the live monitoring mode - Notification menu - FTP tab - FTP setting,

:  (Setup) in the live monitoring mode - Event menu - Actions – Notify (FTP) setting)



- It is recommended that you use FileZilla and smallFtp servers.
- This feature is supported only in the passive mode (PASV) of the FTP site.




Select Use NetFS to use the **NETFS feature**. Click the + icon at the bottom of the list to add up to 16 FTP sites.

- **Title:** Check if you wish to use FEN service.

- **Use:** Select the usage for the NetFS feature.
 - N/A : Disables the NetFS feature.
 - ALL: Enables the NetFS feature.
 - Upgrade: Allows you to use the upgrade file that was uploaded to the NetFS site.
 - Setup: Allows you to import or export a setup file that was uploaded to the NetFS site.
 - System Log – Allows you to save system logs to the NetFS site.
 - Clip-Copy – Allows you to manually copy video clips or automatically copy event-detected video clips to the NetFS site.
 - Print – Allows you to save images as a PDF file to the NetFS site.
- **Site:** Enter NetFS site information.



- When you delete an FTP site from the NetFS setup screen in the Network menu, the FTP site in the FTP setup screen in Eventupload will be deleted, too.
- When you change the usage to anything other than ALL or Clip-Copy, the FTP notification function will be disabled.
- Select the  icon to delete the existing NetFS site.

Enter information about the NetFS site using the virtual keyboard and then click the **test** button to test the current NetFS site.

- **Address:** Enter the NetFS address using the virtual keyboard.
- **Port:** Configure the port to connect to the NetFS site.
- **Remoth path:** Enter a folder path to the NetFS site using the virtual keyboard.
- **User / Password:** Enter the user and password to access the NetFS site using the virtual keyboard.
- **Test:** Test the current NetFS site settings you have entered.

RTSP

RTSP service allows you to monitor real-time using the Real-Time Streaming Protocol.



- **RTSP Port:** Set the port number of the RTSP server obtained from your system administrator.
- **RTP Port:** Set the start/end port number of the RTP server obtained from your system administrator.

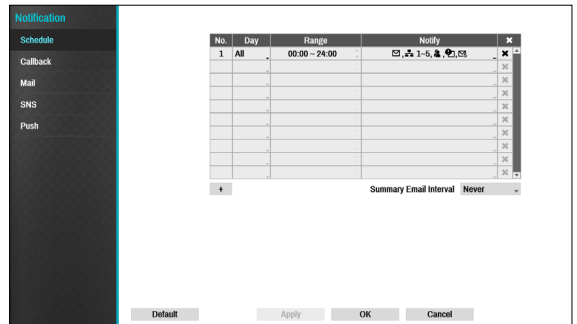


- You can access a remote NVR and monitor live video images using media players, such as VLC Player, supporting RTSP service. Start the media player on your local PC and enter "rtsp://ID:Password@IP address:RTSP port number/trackID=channel number" (e.g.: rtsp://admin:@10.0.152.35:554/trackID=1) When you change the usage to anything other than ALL or Clip-Copy, the FTP notification function will be disabled.
- Video display on certain media players may not be smooth depending on the network status.
- RTSP service might not be supported, depending on the type of media player.

Notification Setup

Schedule

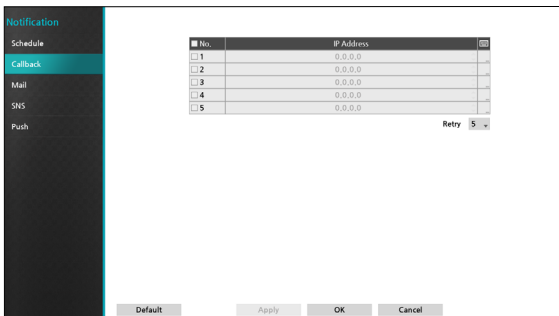
Select the + icon at the lower left corner of the screen to add a notification schedule.



- **Day:** Add different schedules for different days of the week.
- **Range:** Change the event notification time frame.
- **Notify:** Select which notifications to generate when an event occurs. Select **Mail, LAN 1 through 5, SNS, Push,** and/or **Summary**.
- In order to use the **Notification (Callback)** feature, the NVR must be registered on the remote program.
 - Select the icon to delete the existing schedule.
- **Summary Email Interval:** Transmit event summary emails to a remote destination at specified intervals.

Callback

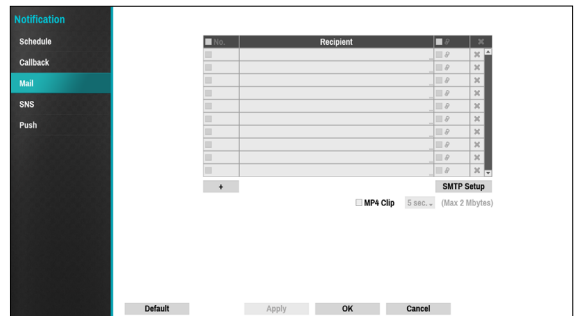
Configure Callback settings.



Enter the IP address of the receiving server and set **Retry** to between 1 and 10 in case of connection failure.

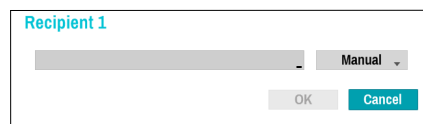
Mail

Configure Mail settings.





Select the **+** icon at the bottom left corner of the screen to add a mail account.

Select **Recipient** and then enter the mail address and server information.



- The recipient's mail address must be in the correct email format and contain the @ symbol.

Select the  icon to attach event recordings to outgoing mails.

Select the  icon to remove the account.

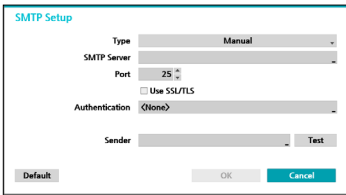
Select **MP4 Clip** to attach event recordings to outgoing mails.

- The event recordings generated by a camera can be attached only. Select the **MP4 Clip** option at the bottom to attach .mp4 video clips.

SMTP Setup

Select **SMTP Setup** at the bottom right corner of the screen to configure an SMTP server.

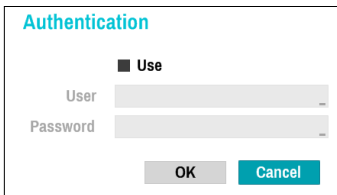
- 1 Select the SMTP server **Type**.
- 2 Enter the **SMTP Server's** IP address or domain name and then configure the **Port** and **Sender** settings.



Default SMTP server port number is **25**. Select **Test** to send out a test mail using the current settings. Select **Use SSL/TLS** to use an SMTP server that requires SSL connections.

- If you have configured the DNS Server setting under **Network - WAN**, you can enter the SMTP server's domain name instead of its IP address in the **SMTP Server** field.
- Address entered under **Sender** must be in the correct email format and include the @ symbol.

If user authentication is required by the SMTP server, select **Use** and then enter the **User** and **Password** information.

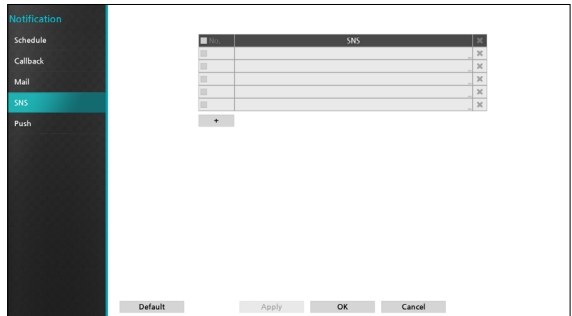


- 3 Select **OK** to apply and exit.

- This product contains content developed by OpenSSL Project for use in Open SSL Toolkit (<http://www.openssl.org/>).

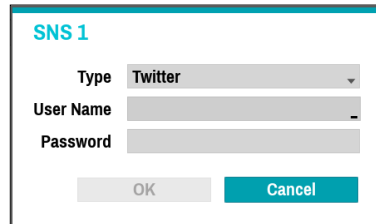
SNS

This option enables the NVR to send out SNS messages.



The SNS (Social Network Service) feature sends out event-related messages to designated Twitter accounts. Select the + icon at the bottom left corner of the screen to add an SNS account. Select the icon on the right side of the list to remove the SNS account.

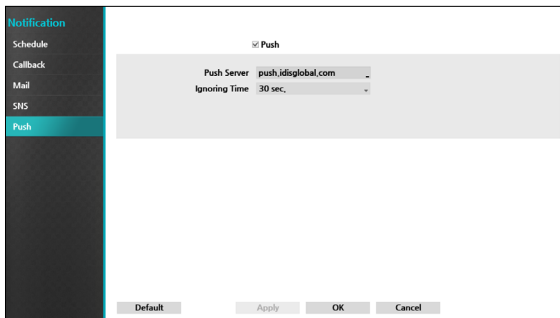
Enter the **User Name** and **Password** information.



- Messages may not be transmitted successfully due to limitations in Twitter's services.

Push

Configure Push settings.



Select **Push** to use Push feature.

The Push feature sends out event-related messages to mobile phone.

- Enable to receive the event occurred in NVR on the mobile phone(Android, iOS). The NVR must be registered and set in mobile phone.

Display Setup

Refer to the **Menu Use on page 28** for basic information on using the Setup menus.

OSD



Show OSD (On Screen Display) information on the bottom of the screen.



Status

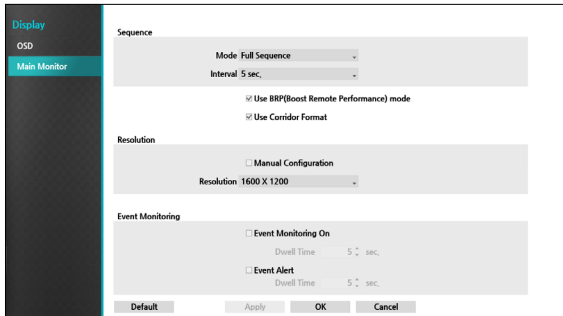
- **Date and Time:** Displays the date and time.

Camera

- **No.:** Displays the camera number on the upper left corner of the camera screen.
- **Title:** Displays the camera name on the upper left corner of the camera screen.
- **Record:** Displays recording and schedule icons.
- **Audio:** Displays the  icon on channels generating audio.
- **PTZ:** Displays the  icon on PTZ cameras.
- **PTZ Zoom:** Displays the zoom magnification (e.g. x2, x3, etc.)
- **Text-In:** Displays strings received from text-in devices. Select **Display Dwell** and specify how long to display the text-in string. Text-in strings are shown on the single screen only.
- **Resolution (Search):** Displays the recording resolution in Playback mode.

Main Monitor

Configure monitor-related settings.



- **Mode:** Select **Full Sequence** or **Cameo Sequence**.
- **Interval:** Select between 3 secs and 2 mins. For more information on Sequence, refer to the **8 Sequence on page 22**.
- **Use BRP(Boost Remote Performance) mode :** With BRP mode on, the camera full screen does not display in live mode and the network bandwidth can limit to 100Mbps.
- **Use Corridor Format:** Divides the screen into 3 panes. This format displays vertically and is set to display the optimized video of the camera when using the camera’s pivot feature. This is particularly effective when monitoring hallways, passages, and other confined spaces. (The 32-channel model does not support this feature.)
- **Manual Configuration:** Set the resolution manually regardless of the resolution supported by the monitor.
- **Resolution:** Select 1920 x 1200, 1920 x 1080, 1680 x 1050, 1600 x 1200.
- **Event Monitoring On:** With Event Monitoring enabled, the camera screen linking event monitoring is shown. For more information on Event Monitoring, refer to the **Event Monitoring on page 25**.
- **Event Alert:** With Event Alert selected, the red line appears on the top of the camera screen linking event monitoring when an event occurs.



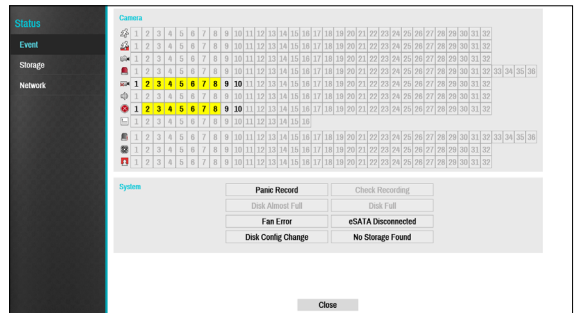
- Supported resolutions may be restricted depending on the monitor.
- We recommend that you use 1920 x 1080 resolution.

Status Setup

Refer to the **Menu Use on page 28** for basic information on using the Setup menus.

Event

This screen displays an overview of all events. When an event occurs, the corresponding channel flashes for 5 seconds.



Event Types

	Motion		Trip Zone
	Tampering		Alarm-In
	Video Loss		Audio Detection
	Recording Fail		Text-In
	Check Alarm-In		Fan Error
	Face Detection		

- **Panic Record:** Displays event status based on current Panic Record status.
- **Check Recording:** Displays event status based on **System Monitoring** settings. For more information, refer to the **Monitoring on page 36**.
- **Disk Almost Full/Disk Full:** If the storage device is not in **Recycle** status, event status is displayed when the amount of disk space specified under **System Monitoring** is reached and when the disk becomes 100% full. For more information, refer to the **Monitoring on page 36**.
- **Fan Error:** Event is indicated when the cooling fan cannot reach a certain RPM or fails for longer than 50 seconds.
- **eSATA Disconnected:** Event status is displayed when an eSATA device is abruptly disconnected.
- **Disk Config Change:** It will be highlighted when the NVR reboots after the hard disk drive has been replaced.
- **No Storage Found:** It will be highlighted when no recordable storage device has been found.

Storage

Indicates each disk's status.

Type	Disk Bad	Temperature	S.M.A.R.T.
Internal 1	Good (0%)	Good (0 °C)	Good

Recorded Data

From: 07-15-2013 PM 08:52:58
To: 07-18-2013 PM 07:15:38

Close

Configure Disk Bad and Disk Temperature settings under **Setup > System > Monitoring**.

Disk Bad	Not Formatted	A disk that has never been used before.
	Good	<ul style="list-style-type: none"> Disk performing normally. If the HDD is partially damaged, indicates the bad sector percentage.
	Error	<ul style="list-style-type: none"> If the HDD's bad sector ratio is higher than as designated by the user. Generates a system event.
Temperature	N/A	Unable to detect the disk's temperature.
	Good	Operating within normal temperature range.
	Bad	<ul style="list-style-type: none"> Disk temperature higher than as designated by the user. Generates a system event.
S.M.A.R.T.	N/A	A disk that does not support S.M.A.R.T.
	Good	A disk with normal S.M.A.R.T. status.
	Bad	A disk with abnormal S.M.A.R.T. status. Possibility of damage within 24 hours.

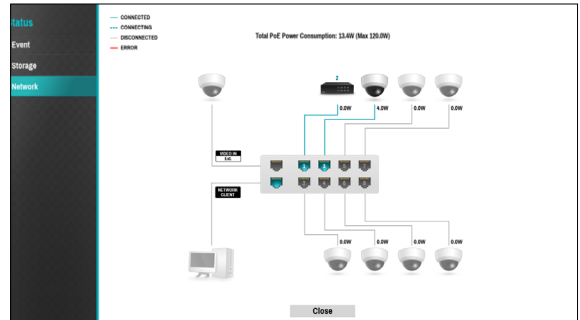
- Check each disk's data storage time information under **Recording Data**.













- For the DR-6200P and DR-4200P series, clicking the temperature, S.M.A.R.T can check the each HDD information.









Network

This page provides a complete overview of the network status in real-time.




Information shown include camera connection status, LAN port link status, power consumption, number of connected clients, and network connection info.

<p>Camera Connection</p>	<p> indicates the camera is connected.  indicates the camera is not connected. Clicking the image displays status information of the device connected to the NVR.</p>
<p>Network Switch</p>	<p> indicates a network switch is connected to the LAN port and shows how many cameras are connected. Clicking the image displays status information of the device connected to the NVR.</p>
<p>Video Encoder</p>	<p> indicates a video encoder is connected to the LAN port and shows how many cameras are connected. Clicking the image displays status information of the device connected to the NVR.</p>
<p>LAN Port Link</p>	<p> indicates a camera or a network switch is connected.  indicates neither is connected.</p>
<p>Network Switch</p>	<p> indicates a network switch is connected to the LAN port and shows how many cameras are connected. Clicking the image displays status information of the device connected to the NVR.</p>
<p>Video Encoder</p>	<p> indicates a video encoder is connected to the LAN port and shows how many cameras are connected. Clicking the image displays status information of the device connected to the NVR.</p>
<p>LAN Port Link</p>	<p> indicates a camera or a network switch is connected.  indicates neither is connected.</p>

<p>Power Consumption</p>	<p>If receiving power from the NVR, the actual amount of power consumed by each camera is indicated under each camera icon. Total power consumption is shown at the top of the screen in the following format: [PoE Power Consumption: 27.0W (Max 120.0W)] Ports A through H in PoE-enabled products support PoE.  (VIDEO IN Ext.) and  (NETWORK CLIENT) ports do not support PoE.</p>
<p>Number of Connected Clients</p>	<p>Indicates whether there are clients connected to the NVR via an external network and how many clients are connected.  indicates at least one client is connected.  indicates no client is connected.</p>
<p>Network Connection Info</p>	<p>Indicates network connection statuses (connected, connecting, disconnected, and connection error) using following lines:  CONNECTED  CONNECTING  DISCONNECTED  ERROR</p>

Part 3 - Search

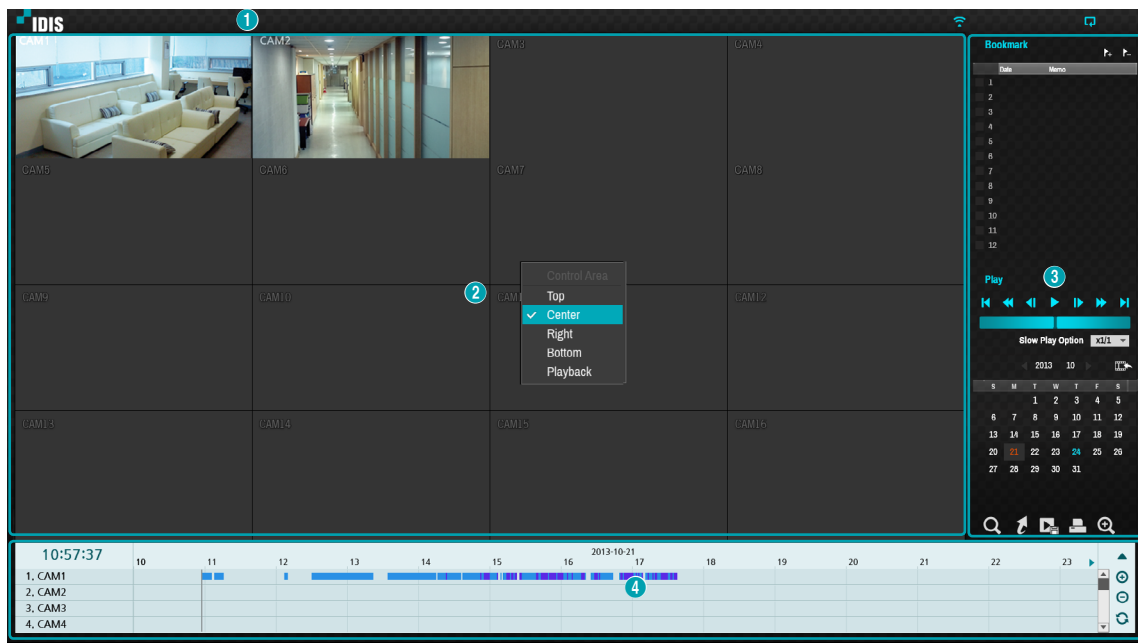
Time-Lapse Search

While in Live mode, select the **Search Mode**  icon and select **Time-Lapse Search** or **Event Log Search** or **Sumnail Search**.



When using **Use 2FA**, you can access the search menu only after the mobile device on NVR must be authenticated. For more information on 2FA function, refer to the [Use 2FA on page 34](#).

- 1 Select **Setup** while in Search mode to display a menu from which you can select **Control Area**.
- 2 Press **Setup** once more to move the **Control Area**.
- 3 In 2 seconds after moving the **Control Area**, the **Control Area** becomes selected and the corresponding menu disappears.
- 4 After selecting the desired **Control Area**, use the arrow buttons on the front panel or the remote control to select the menus and options. Search menu can also be displayed by placing the mouse cursor on the upper portion of the screen.



The **Control Area** consists of **Top**, **Center**, **Right**, **Bottom**, and **Playback**.

- ① **Top:** Activates top Search menu. Use the arrow buttons to select an option.
- ② **Center:** Activates the middle screen section. Use the arrow buttons to select a camera.
- ③ **Right:** Activates the control buttons on the right. Use the arrow buttons to select Bookmark, Play, Calendar Search, and other control buttons.
- ④ **Bottom:** Activates the bottom record table. Use the arrow buttons to select a record table.
- ⑤ **Playback:** Activates the arrow and playback buttons as a recording function.

Search Menu



① Layout

Used to change the screen layout to single screen, corridor format, 2x2, 1+5, 1+7, 3x3, 4x4, 5x5, or 6x6. In order to use the Corridor Format feature, Corridor Format (Display Setup - Main monitor - Use Corridor Format) must first be enabled.

② Previous/Next Group

Loads the previous/next screen group.

③ Display

- **OSD On/Off:** Enables/disables the OSD feature.
- **Original Ratio On/Off:** Setting On displays video on the camera screen in its original ratio.

④ Alarm

Pressing this button while the alarm has been activated resets all NVR alarm outputs, including the built-in buzzer.

⑤ Database

- **Record:** Search recording data contained in the main recording device.
- **Other:** Search data recorded while disks used in other systems were connected.

⑥ Panic Record

Use the Panic Record feature.

⑦ Camera

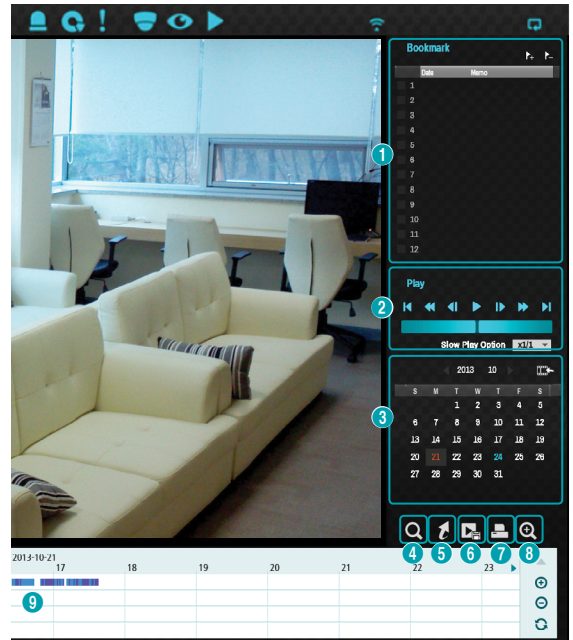
Select a camera channel and display it as a single screen.

⑧ Live Mode


Activates Live mode.

⑨ Search Mode


Search by changing Time-Lapse Search, Event Log Search and Thumbnail search.



① Bookmark

Select the  icon to add a bookmark to the current playback position.

Select a bookmark from the Bookmark setup window on the right side of the Time-Lapse Search mode screen to move to the registered playback position.

Select Bookmark list and then the  icon to delete the corresponding bookmark.

- The maximum number of bookmarks that can be saved is 12.

② Playback Controls

Play and scan through video recordings. Playback controls have the same functions as their remote control counterparts.

• Jog Shuttle

Adjust 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.

• Slow Play

Search the playback screen at low speeds. Select the desired playback speed (x1/2, x1/3, x1/4, x1/6, x1/8) and then select Play.

③ Calendar Search

Use the calendar to search for video recordings by specific dates.

Dates containing video recordings are highlighted in light blue. Selecting a date containing video recording data loads the earliest recording from that date (paused state). Selected date is highlighted in orange.

④ Event Search

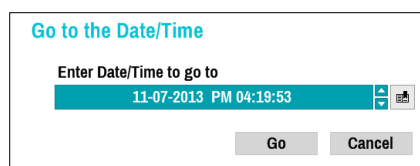
Selecting Event Search provides Motion Search and Text-In Search options.


- **Motion Search:** Perform Motion Search. (This function supports only in single screen.)
- **Text-In Search:** Perform Text-In Search.

⑤ Move

Search video recordings based on date and time. Specify the date and time and then select Go to jump to the

corresponding video recording.



Select a  (bookmark) button on the right side to move to the saved bookmark position.

⑥ Clip-Copy

- **A-B Clip Copy:** Designate a start point and an end point and copy the data in between.
- **Clip Copy:** Opens up the Clip Copy Setup window for designating points A and B.

⑦ Print

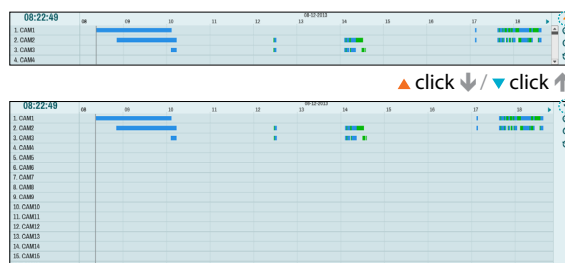
Save the current image as a .pdf file.

⑧ Zoom

Zoom in.



⑨ Record Table

Display the current channel's recording information.



Recording date and time are shown on the top of the search window. The grey indicator line on Record Table indicates the current playback position. Use the arrow buttons on the remote control to move the current playback position in units of individual sectors. Alternatively, use the mouse to jump to the desired playback position.

- Farther back the data is on the record table, the more recent it is.
- If the system's clock is changed to a previous date and time, it is possible for multiple recordings with the identical time stamp to exist. Overlapped segments are highlighted in yellow.

Selecting  or  on the upper right portion of the Time-Lapse search window changes the size of search window and displays all or minimum channels. Using the scroll, the information of other channels







which is not shown can be checked in the minimum size of Time-Lapse search window.

Select ⊕ (zoom-in) to compose recording data in 1-minute segments and select ⊖ (zoom-out) to compose recording data in 3-minute segments. Selecting zoom-out displays more time in one screen than zoom-in screen.

If recording from points in time prior or after the time frame displayed on the screen is available, scrolls appear on both ends of the date and time information line. Scroll using the arrow buttons on the remote control or by dragging with the mouse to check recording data. Display the latest update recording information when selecting ↻ (Refresh).



Recording Data Bar Colors

Blue		Time Lapse Recording
Purple		Event Recording
Yellow		Pre-Event Recording
Red		Panic Recording
Green		Faulty recording due to a temporary disruption in device connection.
Green		- Smart Failover Recording

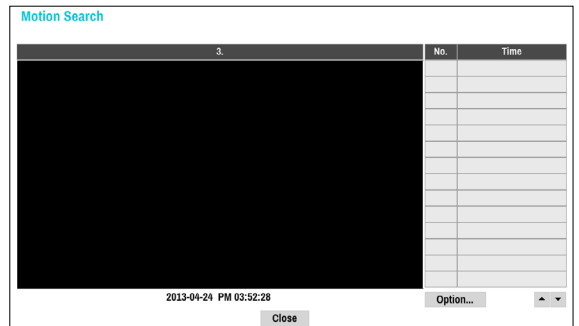
Context Menu

Select the Menu button or right-click on the Camera screen to access the context menu.

- **Zoom:** Zoom in.
- **Audio:** Enable/disable audio. Audio playback of the selected camera is available in full screen mode only.
- **Show/Hide Text-In:** Show/hide text-in information contained in the recording.
- **Edit Group:** Rearrange the split screen layout.

Motion Search

Select **Motion Search** from the Search menu to bring up the Motion Search Setup window.



Motion Search cannot be performed while using a split screen layout. Select Single Screen mode. Select **Option...** to configure Motion Search options.

- Select **First** under **From** and **Last** under **To** to search the recording from start to finish. Alternatively, you can uncheck the **First** and **Last** options and specify the search time frame manually.
- **Type: Motion Search** looks for motion in the selected area by comparing individual frames against their preceding frames. This means slow and gradual movements, no matter how long they persist, will not be recognized. In contrast, **Museum Search** looks for changes in the specified area by using the **From** frame as a reference. Museum Search, therefore, recognizes even minute deviations from the original **From** frame.
- The **Zone** setting can be configured in the identical manner as the Zone setting under System Setup - Motion Detection. For more information, refer to the [Motion on page 54](#).

Museum Search may not function properly if the edge of the object is included in the **Zone**. For more accurate search results, set the inside of the object's edge as the detection zone.

- **Sensitivity:** Set to between 1 (Low) and 5 (High).
- **Min. Blocks:** The **Min. Blocks** option is available with Motion Search only.

Once all the options have been configured, select **Search**. Select search results entry to display the video recording on the left. To play the recording, exit the setup window by selecting **Close**.

Text-In Search

Select **Text-In Search** from the Search menu to bring up the Text-In Search window.

Select a **Transaction** to display the video recording that corresponds to the selected time and date (paused state).

- Text-in information is superimposed on the screen at normal playback speed. The information is not shown under any other playback speed.

Select **Option...** to configure Text-In Search options.

No.	Name	Comp.	Value	Column	Use	is
				0	0	is
				0	0	is
				0	0	is
				0	0	is

- Select **First** under **From** and **Last** under **To** to search the recording from start to finish. Alternatively, you can uncheck the **First** and **Last** options and specify the search time frame manually.
- **Channels:** Select a channel.
- Select **Text-In Device** to select a device type.
- **+ Button:** Add a search variable.
- **Case Sensitive:** Configure case sensitivity.
- **Load:** Retrieve stored search option settings.
- **Save:** Save the current search option settings.


Once all the options have been configured, select **Search** to begin the search and return to the **Text-In Search** setup window.

Clip Copy

Clip Copy

Select **Clip-Copy – Clip Copy** from the Search menu or press the remote control's **CLIP COPY** button while in Live or Playback mode to open up the **Clip Copy** setup window. Specify the **From** and **To** settings.

A-B Clip Copy

Designate a start point and an end point and copy the data in between. Select **Clip-Copy – A-B Clip Copy** from the Search menu to set point A. The  icon will appear on the status indicator area on the upper right corner of the screen. Select **Clip-Copy – A-B Clip Copy** once again to set point B. The Clip Copy Setup window will appear. Select A and B points are automatically applied as **From** and **To** values.

- **Channels:** Specify which channel to save the recording to.
- **Password:** Enable password protection for the saved video clip and assign a password.
- **Dest.:** Select which storage media to use. If NetFS feature is in use, you can upload video clips to the registered FTP site.



- When you clip-copy to the NetFS site, the capacity of NetFS site and Disk cannot be found.
- The maximum size limit for clip-copy files is 30 GB.
- If the video clip is uploaded after you clip-copy, the video clips will be deleted.
- If the files are the same files, the video clips cannot be copied.

File name: Designate a name for the file. The name may be up to 63 characters in length.



Special characters such as \, /, ;, ,, *, ?, !, ", <, >, and | are not permitted.

- **Include Text-In Data:** Enabling this option will save the video clip along with any available text-in data.
- **Use Site Info:** Adds **Site** info to the Clip Copy file's name.



Special characters contained in the location info (such as \, /, ;, ,, *, ?, !, ", <, >, and |) will be replaced with _ when the information is added to the file name.

Selecting **Start** displays a calculation on the size of the data to be copied. Check the calculation and then select **Continue** to proceed. While Clip Copy is in progress, you can select **Cancel** to cancel the process or select **Close** to allow the window to run in the background. Selecting **Close** does not cancel Clip Copy. Once the process is complete, you will be prompted with a confirmation window.



- **One-Touch Clip Copy** configures the storage range automatically based on the storage drive's capacity. If there is insufficient space available on the selected storage device, you will only be able to Clip Copy an amount of data equaling the remaining space available on the storage device.
- The NVR displays the volume as 30GB regardless of the actual disk volume and the maximum size limit on Clip Copy files is 30GB. Clip Copying a segment that is more than 2GB in size produces multiple files that are up to 2GB in size, each.
- Clip Copy files can be played back on Windows systems. For more information, refer to the IDIS Center operation manual.
- For USB flash memory devices, the NVR supports the FAT32 file format only.



Do not disconnect the USB cable or power off the USB device while USB Clip Copy is in progress. Doing so can cause the NVR to malfunction or critically damage the external USB device's file system. You may be prompted with an error message when trying to back up on the device. If so, you will need to restart the NVR. If the USB hard disk's file system has been damaged, restarting the NVR will not solve the problem and the aforementioned error message will continue to be displayed each time you attempt a backup. If this is the case, you will need to format the HDD or use a recovery program to repair the damage to the drive's file system.

Print

Print the current image.

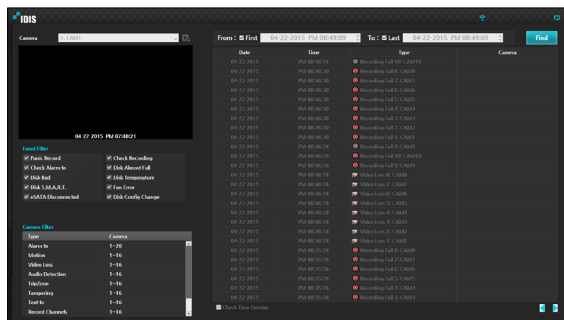
While in **Search Mode**, select **Pause** to pause playback.

Select **Print** from the Search menu to open up the Print Setup window.


- **Printer Model**
 - **File Printer:** Saves the current frame to the USB storage device or the NetFS site as a .pdf file that can be printed on a printer connected to a computer.
- **Paper Size:** Select the desired paper size.
- **File name:** Designate a name for the file.

Event Log Search

Select **Search Mode** > **Event Log Search** to bring up the Event Log Search window.



Select an event to display the recording made on the selected time and date (paused state). Select the Play button in the middle of the screen to start playing back the recording. Use the drop-down menu above to load recordings from other cameras.

- Selecting the specific event displays the screen to be stationary. By clicking the  button on the camera right, you can copy the event.
- You can uncheck the **First** and **Last** options at the top of the Event Log Search window and specify the search time frame manually.

Select First for From and Last for To to select the entire recording from start to end.

- If designating **From** or **To** settings manually, you will be able to enable/disable the **Check Time Overlap** option.

If the system's clock has been changed and the designated **From** or **To** point exists at more than one location, you will have to choose one. Only the events that took place between the selected **From** and **To** points will be searched. If **Check Time Overlap** has not been selected, events from the entire **From** and **To** range will be searched.

- Use event filters to include/exclude specific system events such as **Panic Record, Check Recording, Check Alarm-In, Disk Almost Full, Disk Bad, Disk Temperature, Disk S.M.A.R.T., Fan Error, eSATA Disconnected** and **Disk Config Change** from the search.

Camera Filter

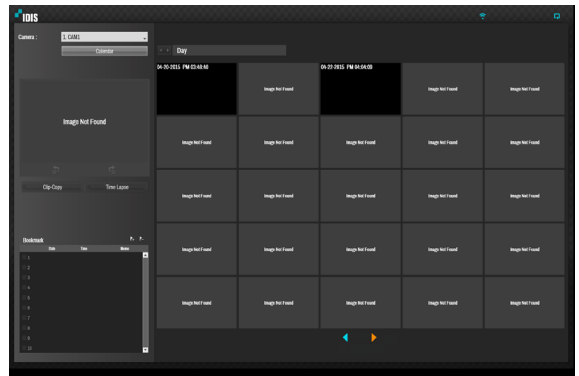
- **Alarm-In:** Select which channels to search alarm-in events in.
- **Motion:** Select which channels to search motion detection events in.
- **Video Loss:** Select which channels to search video loss events in.
- **Audio Detection:** Select which channels to search audio detection events in.
- **Trip Zone:** Select which channels to search trip zone events in.
- **Tampering:** Select which channels to search tampering events in.
- **Text-In:** Select which channels to search text-in events in.
- **Record Channel:** Select which record channels to search events in.
- **Recording Fail:** Select which channels to search recording fail events in.
- **Fan Error:** Select which channels to search fan error events.
- **Face Detection:** Select which channels to search face detection events



Selected record channels are searched for events with at least one linked recording. If no camera is selected, only the events with no linked recording camera are searched.

Thumbnail Search

Select **Search Mode > Thumbnail Search** to bring up the thumbnail search window.

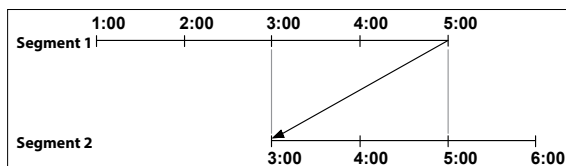


- Click **Calendar** on the left side of the screen to search for video recording specific dates. Dates containing video recordings are highlighted in black. Selected date is highlighted in blue.
- Click **[Icon]** on the next to the Calendar button to search the video recording in detail. It allows you to search the video recording in Day -> Hour -> Minutes -> Seconds or Seconds -> Minutes -> Hour -> Day.
- Selected the specific event displays the screen to be stationary. By clicking the play button on the middle of the screen, you can play the video recording. Also, By clicking **[Icon]** or **[Icon]**, you can jump to the recording in 10 seconds.
- Clicking **Clip-Copy** displays the Clip Copy Setup window to designate points A and B.
- Click **Time Lapse** to go to the time lapse mode. For more information on time-lapse search, refer to the section under **Time-Lapse Search on page 78**.
- Select the **[Icon]** to add a bookmark to the current playback position. Select a bookmark from the Bookmark setup window on the right side of the Time-Lapse Search mode screen to move to the registered playback position. Select Bookmark list and then the **[Icon]** to delete the corresponding bookmark.

Overlapped Recording Search

If the system's clock is changed to a point in the past, overlapping recordings may be produced. Overlapped recordings have to be searched in 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.



When searching overlapped video recordings, you can choose a specific point in time or a time frame. If you use the **Go to the Date/Time** option and select a point within the overlapped time period (**4 o'clock**, for example), you must specify **4 o'clock** in which of the two existing segments.

Select a Segment

- 1: Segment 20
- 2: Segment 21

If you use the **Event Log Search** or **Motion Detection** option and select a time frame within the overlapped time period (**4 o'clock to 5 o'clock**, for example), you must choose between the two redundant sets of From and To values. Selectable search ranges are as follows:

- 4 o'clock in segment 1 to 5 o'clock in segment 1
- 4 o'clock in segment 1 to 5 o'clock in segment 2
- 4 o'clock in segment 2 to 5 o'clock in segment 2

Select a Range

- 1: Scope 1 ~ 3
- 2: Scope 1 ~ 2
- 3: Scope 2 ~ 2

Part 4 - IDIS Web

IDIS Web is a program that allows you to view and search video from remote locations over the Internet and can be accessed on a regular web browser such as Internet Explorer.

System requirements for running IDIS Web are as follows:

- OS: Microsoft® Windows® XP (Service Pack 3), Microsoft® Windows® Vista (Service Pack 1), Microsoft® Windows® 7 (Home Premium, Professional, Ultimate) or Microsoft® Windows® 8 (Pro, Enterprise)
- CPU: Intel Pentium IV 2.4GHz or above (Core 2 Duo E4600 recommended)
- RAM: 1GB or more
- VGA: 128MB or more (1280x1024, 24bpp or above)
- Internet Explorer: Ver. 7.0 or above (32-Bit)



- IDIS Web only works with Microsoft Internet Explorer and will NOT work with other browsers.
- IDIS Web does not work in Microsoft® Windows® 8 metro UI.

- 1 Launch Internet Explorer and then enter the following information in the address bar.
 - <http://IP Address:Port Number> (NVR system's IP address and IDIS Web port number configured under Network > General (Default Value: 12088))
 - <http://fen.idisglobal.com/FEN Name> (FEN Name: NVR name configured on the FEN server)
 - <http://web.idisglobal.com> (will be prompted to enter NVR's IP address or FEN name registered to the FEN server upon login)



- Contact your network administrator for the IP address of the NVR you wish to connect to and the IDIS Web port number.

- 2 When prompted with the IDIS Web login window, select **LIVE-PORT** or **PLAY-PORT** as the desired mode. Enter the ID and password and click **LOGIN** to sign in using the selected mode.

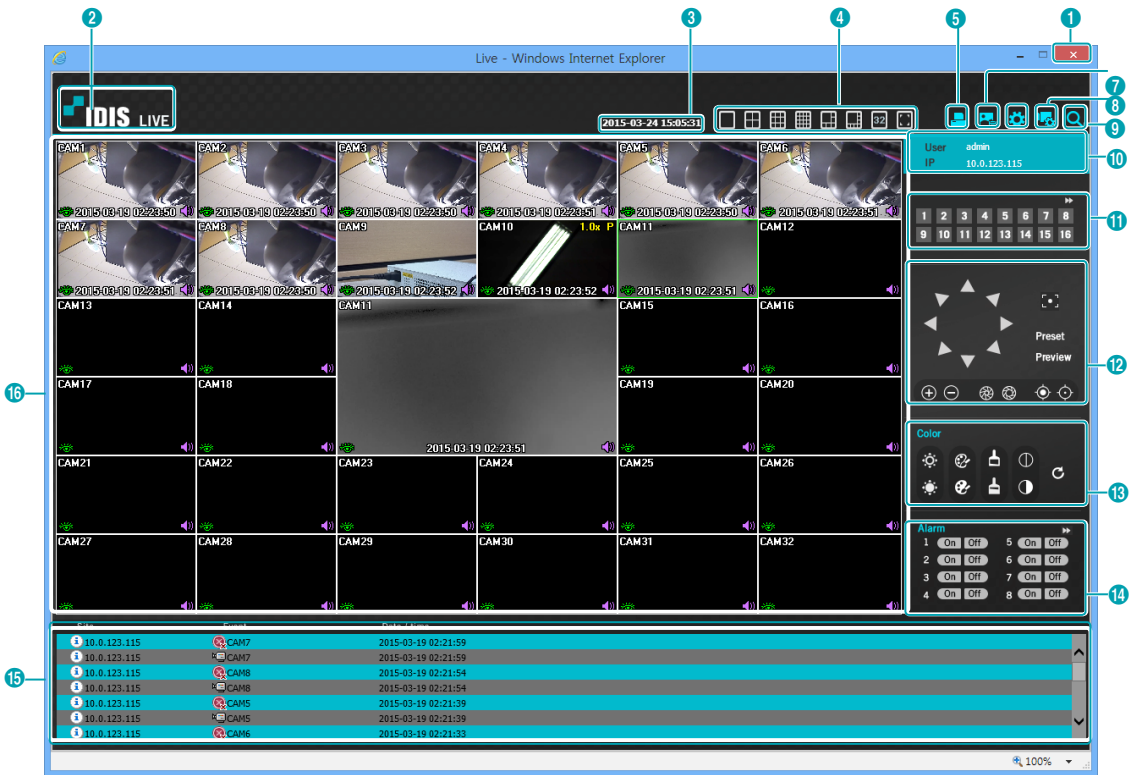
If connecting by entering <http://web.idisglobal.com>, enter the NVR's IP address in the Device Address field. Selecting the Use FEN Service option on the login window allows you to enter the NVR name registered to the FEN server instead of its IP address. You will be prompted to enter the FEN server's address and port number under Setup.

















- Do not close the login window while IDIS Web is running. Switching over to Web Live or Web Search mode can cause a script error, requiring you to restart the IDIS Web program.
- If running IDIS Web, the bottom section of the screen may get cut off if the address bar or the status bar is shown. In this case, change Internet Options so that the address bar or the status bar is hidden. (**Tools** → **Internet Options** → **Security** → **Custom level...** → **Allow websites to open windows without address or status bars (Enable)**)
- To use IDIS Web on Microsoft Windows Vista or above, launch Internet Explorer by right-clicking on the icon and selecting the **Run as administrator** option. Otherwise, certain IDIS Web functions might not be available.
- Launching a new version of IDIS Web for the first time can cause Internet Explorer to load information from the previous version. In this case, navigate to **Tools** → **Internet Options** → **General**, delete temporary Internet files, and then restart IDIS Web.
- On Microsoft Windows Vista or above, lowered image transmission rate can prevent the screen from being displayed or updated. In this case, we recommend that you disable the computer's auto tuning function. Open the command prompt as an administrator. (**Start** → **Accessories** → **Command Prompt** → **Right-Click** and then select **Run as administrator**) Type in "**netsh int tcp set global autotuninglevel=disable**" and then press Enter. Restart the computer to apply the change. To enable auto tuning again, launch the command prompt as an administrator and then type in "**netsh int tcp set global autotuninglevel=normal**". Restart the computer to apply the change.

Web Live Mode

A remote web monitoring program that allows you to monitor images from remote locales in real-time.



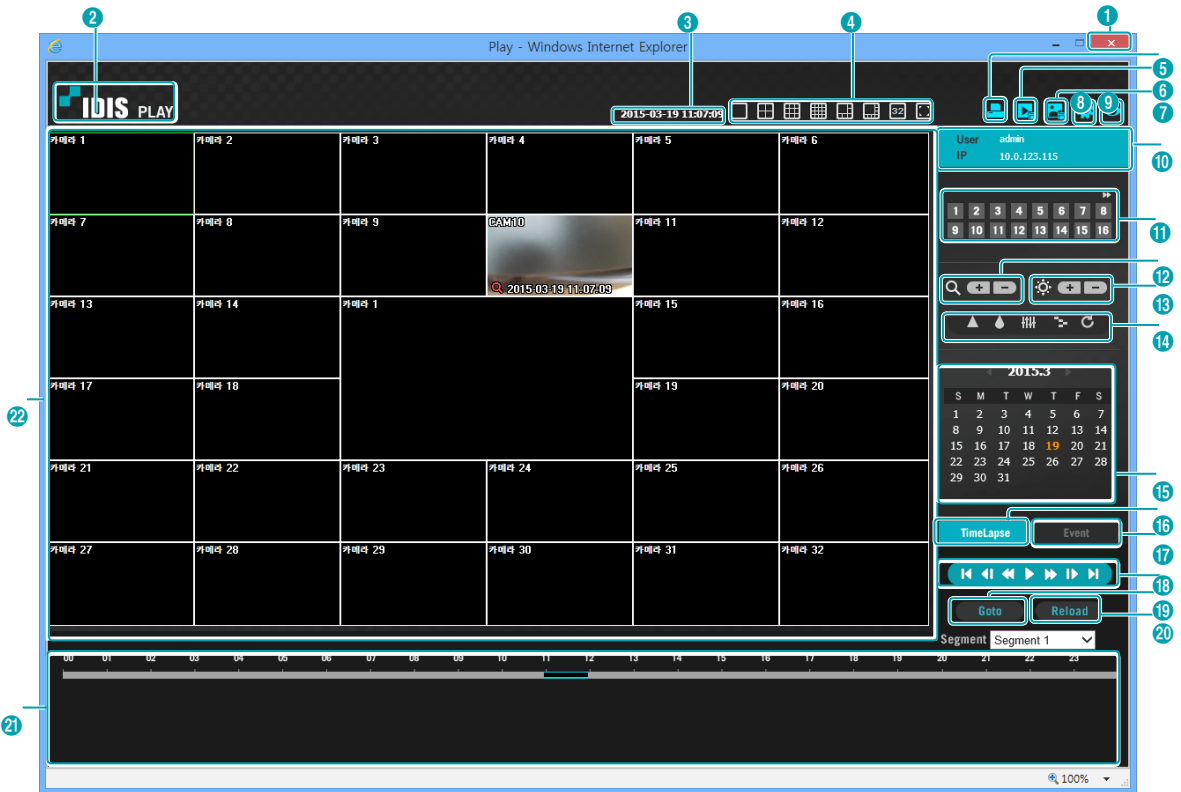
1	Press to terminate IDIS Web.
2	Place the mouse pointer on the IDIS logo to check IDIS Web's version.
3	Displays the current time.
4	Select the desired mode. Changing the mode places the selected camera in the first cell of the layout that will be changed.
5	Click to print the current video screen using a printer connected to the computer.
6	Click to save the current video screen as an image file.
7	Click to configure rendering mode and OSD settings. Select rendering mode to adjust the video output rate or select which OSD elements to display on the screen from the OSD list.
8	Click to configure event, camera, stream settings, etc of NVR at remote locales.
9	Click to switch over to Web Search mode.
10	Shows login information.
11	Select the camera you wish to monitor. Use the arrow buttons to navigate to the previous/next camera group.

12	Used to control a PTZ camera at a remote location.																
13	Used to adjust live video quality.																
14	Controls remote alarm out devices. Use the arrow buttons to navigate to the previous/next alarm group.																
15	Event status window at the bottom of the screen displays a list of events detected at remote locales.																
16	<p>Select a camera from the screen and right-click to bring up the pop-up menu.</p> <ul style="list-style-type: none"> Change Camera Title: Used to change the camera's name. <table border="1" data-bbox="1064 421 1277 556" style="float: right; margin-left: 20px;"> <tr> <td>Change Camera Title</td> <td></td> </tr> <tr> <td>Enable Audio</td> <td></td> </tr> <tr> <td>Aspect Ratio</td> <td>▶</td> </tr> <tr> <td>Anti-Aliasing Screen</td> <td></td> </tr> </table> <p><input checked="" type="checkbox"/> Renaming the camera in Web Live mode does not affect the camera's name on the remote system. If no name is entered for the camera, the name used at the remote locale is shown on the screen.</p> <ul style="list-style-type: none"> Enable Audio: Enables audio transmission with remote locales. Select to display  buttons. <table border="1" data-bbox="257 633 1277 794" style="margin-left: 20px;"> <tr> <td></td> <td>Enables transmission of audio to the remote locale via microphone.</td> </tr> <tr> <td></td> <td>Enables playback of audio from the remote locale on speakers.</td> </tr> <tr> <td></td> <td>Enables two-way audio communication with the remote locale.</td> </tr> <tr> <td></td> <td>Disables audio transmission.</td> </tr> </table> <p><input checked="" type="checkbox"/> If the remote locale connected to supports audio transmission,  icon appears on the corresponding camera screen.</p> <ul style="list-style-type: none"> Aspect Ratio: Changes the aspect ratio of the video displayed on the screen. <ul style="list-style-type: none"> – Fit to Screen: Fit the video to the size of the camera screen. – Fit to Aspect 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. For example, original size (x1) displays the video in its original size. Half size (x0.5) through 4 times larger (x4) options are only available if there is enough space on the camera screen to accommodate the selected size. Anti-Aliasing Screen: Removes stair step effect (blocks) that is caused when zooming a video to improve overall quality of video output. 	Change Camera Title		Enable Audio		Aspect Ratio	▶	Anti-Aliasing Screen			Enables transmission of audio to the remote locale via microphone.		Enables playback of audio from the remote locale on speakers.		Enables two-way audio communication with the remote locale.		Disables audio transmission.
Change Camera Title																	
Enable Audio																	
Aspect Ratio	▶																
Anti-Aliasing Screen																	
	Enables transmission of audio to the remote locale via microphone.																
	Enables playback of audio from the remote locale on speakers.																
	Enables two-way audio communication with the remote locale.																
	Disables audio transmission.																






















Web Search Mode

A remote web search program that allows you to search for recordings from remote locales in real-time.

- While in Web Search mode, connection to remote locales will terminate automatically after 30 minutes of inactivity.



1	Press to terminate IDIS Web.
2	Place the mouse pointer on the to check IDIS Web's version.
3	Displays time information of the video recording from the remote NVR.
4	Select the desired mode.
5	Click to print the current video screen using a printer connected to the computer.
6	Click to save the video recording as an executable file.
7	Click to save the current video screen as an image file.
8	Click to configure rendering mode and OSD settings. Select rendering mode to adjust the video output rate or select which OSD elements to display on the screen from the OSD list.
9	Click to switch over to Web Live mode.
10	Shows login information.

11	Select the camera you wish to search. Use the arrow buttons to navigate to the previous/next camera group.																
12	Zoom in or out on the video.																
13	Adjust image brightness.																
14	<p>Apply image filters (Sharpen, Blur, Equalizer, Interpolation, and Revert) to the images.</p> <p><input checked="" type="checkbox"/> Image calibration is applied only during the paused state.</p>																
15	<p>Use the calendar to search for video recordings by specific dates. Dates containing video recordings are highlighted in light blue. Selecting a date containing video recording data loads the earliest recording from that date(paused state). Selected date is highlighted in orange.</p>																
16	<p>Select TimeLapse to enable time lapse search mode and search/play back video recordings in chronological order. In Time Lapse Search mode, search is conducted by selecting days on the calendar. The time table at the bottom displays recording data information for the selected date. Select a point in time to display video from that moment. If multiple recordings are available for the selected point in time, you can select the desired segment.</p>																
17	<p>Select Event to enable event search mode and search for events matching user-designated parameters.</p>																
18	<p>Use the playback controls to play back video.</p> <table border="1" data-bbox="209 948 1163 1108"> <tr> <td data-bbox="209 948 303 991"></td> <td data-bbox="303 948 692 991">Go to First</td> <td data-bbox="692 948 786 991"></td> <td data-bbox="786 948 1163 991">Play by Frame (forwards)</td> </tr> <tr> <td data-bbox="209 991 303 1033"></td> <td data-bbox="303 991 692 1033">Rewind</td> <td data-bbox="692 991 786 1033"></td> <td data-bbox="786 991 1163 1033">Fast Forward</td> </tr> <tr> <td data-bbox="209 1033 303 1076"></td> <td data-bbox="303 1033 692 1076">Play by Frame (backwards)</td> <td data-bbox="692 1033 786 1076"></td> <td data-bbox="786 1033 1163 1076">Go to Last</td> </tr> <tr> <td data-bbox="209 1076 303 1118"></td> <td data-bbox="303 1076 692 1118">Play/Pause</td> <td data-bbox="692 1076 786 1118"></td> <td data-bbox="786 1076 1163 1118"></td> </tr> </table>		Go to First		Play by Frame (forwards)		Rewind		Fast Forward		Play by Frame (backwards)		Go to Last		Play/Pause		
	Go to First		Play by Frame (forwards)														
	Rewind		Fast Forward														
	Play by Frame (backwards)		Go to Last														
	Play/Pause																
19	<p>Click Goto to designate recent recordings you wish to search and then jump to a specific point in the recording.</p>																
20	<p>Click Reload to reload recent video recordings from remote locales.</p>																
21	<p>Indicates the selected camera's recording data on a time bar. If the camera's system clock has been changed to a point in the past and more than one recording exists at the same point in time as a result, you will be able to choose which segment to search from the segment menu on the upper right portion of the time table.</p>																

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

- **Change Camera Title:** Used to change the camera's name.



Renaming the camera in Web Search mode does not affect the camera's name on the remote system. If no name is entered for the camera, the name used at the remote locale is shown on the screen.

- **Enable Audio:** If audio was recorded with the video, enabling this option plays audio upon playback (limited to single-screen playback).
- **Aspect Ratio:** Changes the aspect ratio of the video displayed on the screen.
- **Anti-Aliasing Screen:** Removes stair step effect (blocks) that is caused when zooming a video to improve overall quality of video output.

Change Camera Title
Enable Audio
Aspect Ratio ▶
Anti-Aliasing Screen

Part 5 - Appendix

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