WISENET

NETWORK VIDEO RECORDER
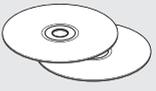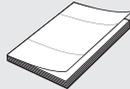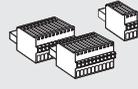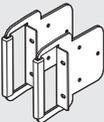
Quick Manual

PRN-4011

CE

Features

The product records video and audio from network cameras to a hard disk, and enables playback from the hard disk. It also provides remote monitoring environment for video and audio over the network using a remote computer.

- User-friendly UI
- Supports a range of 4K camera resolutions (3840X2160, 4096X2160, 4000X3000)
- Outputs a 4K high definition image using HDMI
- 64 split screens decoding
- Supports dual monitor output (expand, duplicate)
- Supports multiple passwords
- Record and play video
- Record and play audio
- Supports ONVIF Profile S standard and RTP / RTSP protocols
- Display the HDD operation status by HDD SMART
- HDD overwrite enabled
- Backup using USB 2.0 protocols and external HDD
- Simultaneous play of 16 channels
- Various Search Modes (Time, Event, Smart, Text, Backup, ARB)
- Various Recording Modes (Normal, Event, Scheduled Recording)
- Alarm Input / Output
- Remote Monitoring function by Windows Network Viewer
- Live monitoring of the network camera
- Installation Wizard Function (Easy Setup)
- Supports remote viewer multi profiles
- Supports ARB
- Supports Failover
- Function used to set the storage period for each channel

Package Contents

|			
NVR	Mouse	Power Cable	Smart Viewer / User Manual CD
User Manual or Quick Manual	Terminal block	Rack mount	Rack mounting screw
HDD Fixing Screw	HDD door lock key		

Connecting an optical module

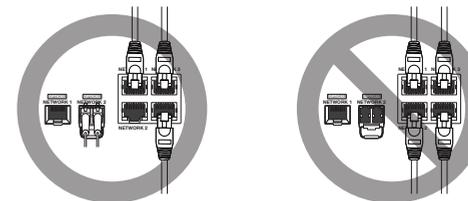The rated power for an optical module is DC 3.3V 0.25A.

- ▪ When an optical module is installed, the use of the UTP port is limited.
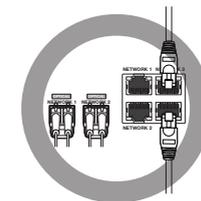- ▪ Install an optical module only when one is needed.
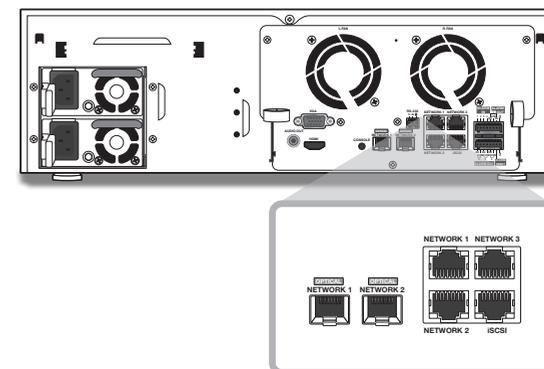
1 [**OPTICAL NETWORK1**] is a port that is shared with [**NETWORK1**].
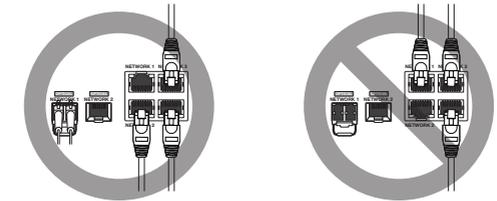
2 [**OPTICAL NETWORK2**] is a port that is shared with [**NETWORK2**].
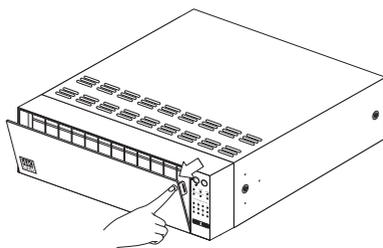
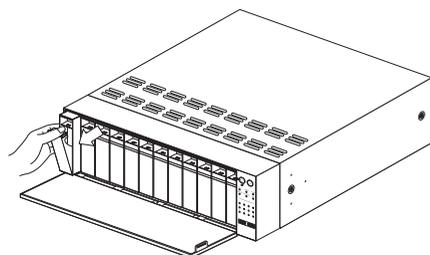3 [**OPTICAL NETWORK1/2**] is a port that is shared with [**NETWORK1/2**].
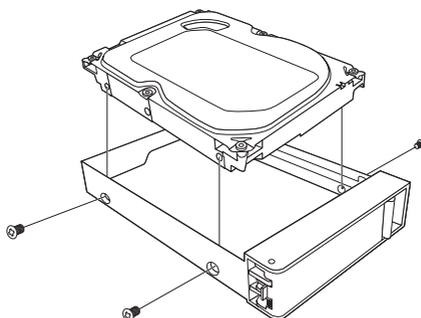
Installing the HDD

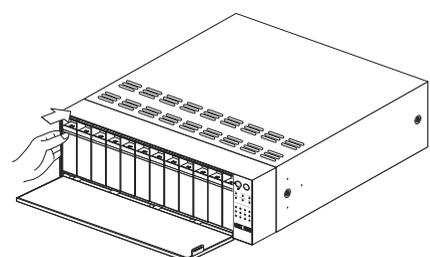**1** Press the <**PUSH**> button on the front to open the front cover.

2 After pressing the blue button in the HDD bracket, pull it manually to separate the HDD bracket from the main body.

3 Mount a HDD in the HDD bracket and screw it in using the screws provided.

4 Once the HDD is mounted in the bracket, push the bracket into the main body and close the front cover.

> **!** ▪ If you are adding a new or previously used HDD to this product in addition to the HDD(s) originally installed, format the new HDD manually in the set before use.
>
> ▪ For replacement or installation of an additional HDD you must contact your dealer or our customer center.

Install Wizard

1 **Select the language**

Select your preferred language.

2 **Set Password**

Set a password.
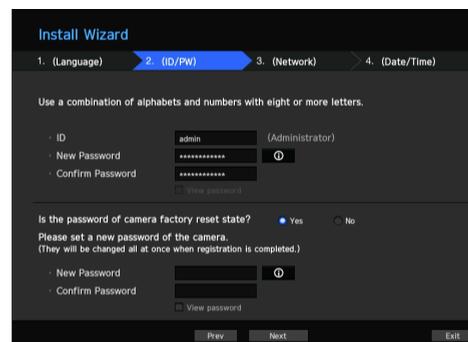
※ Click ⓘ icon to see the password rule

8 ~ 9 characters : All combination of English character, Digit, Special character

10 ~ 15 characters : Two combination of English character, Digit, Special character

※ Not allowed to use same characters with ID

※ Not allowed to use 4 or more continuative or repeated characters

2-1. Setting Camera Password

You can change the password of the camera one step.

If the password of the camera is the default password set in the factory, enter a new password to change it. The password will be changed, and the new password will be registered.

If the password of the camera is not the default password set in the factory, enter the current camera password. The current camera password will be registered.

- New Password : Input a new password according to the password setting rules.

- Confirm Password : Input the new password again.

▪ A camera password registered with ONVIF and RTSP cannot be changed.

3 **Set up Network**

- DHCP server : If the DHCP server is set to enable, an IP is automatically assigned to the camera.
- Network 1 (Camera) /Network 2 (Camera) : Connects to the camera and receives the video feed from the camera.
  - ▪ When a UTP cable is connected, UTP is displayed on the screen, and when an Fiber Optic Cable is connected, OPTIC is displayed on the screen.
- Network 3 (Viewer) : This is a port for transmitting an image to the webviewer.
- Network 4 (iSCSI) : This is a port for connecting an external iSCSI.
- Network 1 / Network 2 / Network 3 / Network 4 Setup
  - IP Type : Choose the network connection method.
  - IP Address, Subnet Mask, Gateway, DNS

※ For more details on network settings, refer to the User manual.

► To use a simple intranet, click <**Next**>.

Install Wizard

1. (Language) 2. (ID/PW) **3. (Network)** 4. (Date/Time)

Check the port in the back and set it properly.
If you use the basic setting, you can press Next now.

· DHCP Server   ● Run   Setup   ○ Stop
An IP is automatically assigned to the camera when the DHCP server is set to Run.

· Network 1 (Camera)   Setup   192.168.0.207 [UTP]
· Network 2 (Camera)   Setup   192.168.2.200 [UTP]
· Network 3 (Viewer)   Setup   192.168.4.209 [UTP]
· Network 4 (iSCSI)   Setup   192.168.4.200 [UTP]

Prev   Next   Exit

Setup – Network 2

IPv4
· IP Type   Static
· IP Address   192 168 2 200
· Subnet Mask   255 255 255 0
· Gateway   192 168 2 1
· DNS   Manual 168 126 63 1

IPv6
· Use IPv6
· Mode   ● Default   ○ DHCP   ○ Manual
· IPv6 Address   / 64
· DNS   Auto

OK   Cancel

4 **Set Date & Time**

Set the time and date and click the <**Finish**> button, and the installation will be completed.

5 **Camera Registration**

When the installation wizard finishes, the camera is automatically registered.

5-1. If there are 64 or less cameras searched, it will be automatically registered and the camera information(fps, days of recording) will be displayed.

► Select <**OK**> and the frame rate of all cameras registered is set to 30fps and the installation session is completed.

► When you select <**Manual Setting**>, the frame rate of all cameras registered can be set to a value selected by the user (move to 5-2).
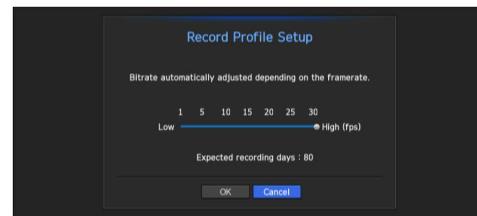
5-2. Adjust the recording framerate

Changes the recording frame rate for all cameras at once.
Please note that the estimated recording days vary depending on the frame rate.
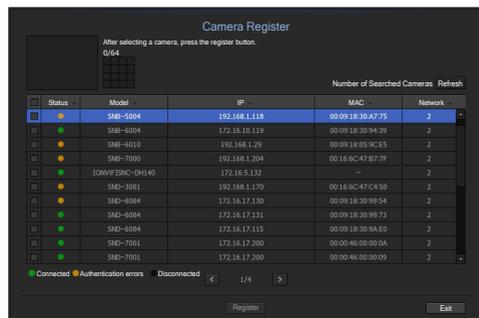

Camera Register

The number of camera registered is 1.
Recording profile's framerate is changed to 30fps.
[Expected recording days : About 80 days]
Will you apply settings?

OK   Manual Setting

< Figure 5-1 >

Record Profile Setup

Bitrate automatically adjusted depending on the framerate.

1 5 10 15 20 25 30
Low ───────────●High (fps)

Expected recording days : 80

OK   Cancel

< Figure 5-2 >

5-3. If there are more than 64 cameras searched, Camera registration window will be displayed.

Select a camera to register and click the <**Register**> button. Once camera registration is finished, proceed in 5-1.

Camera Register

After selecting a camera, press the register button.
0/64

Number of Searched Cameras Refresh

	Status	Model	IP	MAC	Network
	●	SNB-5004	192.168.1.118	00:09:18:30:A7:75	2
	●	SNB-6004	172.16.10.119	00:09:18:30:94:39	2
	●	SNB-6010	192.168.1.29	00:09:18:05:9C:E5	2
	●	SNB-7000	192.168.1.204	00:16:6C:47:B7:7F	2
	●	IONVIF2SNC-DH140	172.16.5.132	~	2
	●	SND-3081	192.168.1.170	00:16:6C:47:C4:59	2
	●	SND-6084	172.16.17.130	00:09:18:30:99:54	2
	●	SND-6084	172.16.17.131	00:09:18:30:99:73	2
	●	SND-6084	172.16.17.115	00:09:18:30:9A:E0	2
	●	SND-7001	172.16.17.200	00:00:46:00:00:0A	2
	●	SND-7001	172.16.17.200	00:00:46:00:00:09	2

● Connected ● Authentication errors Disconnected   < 1/4 >

Register   Exit
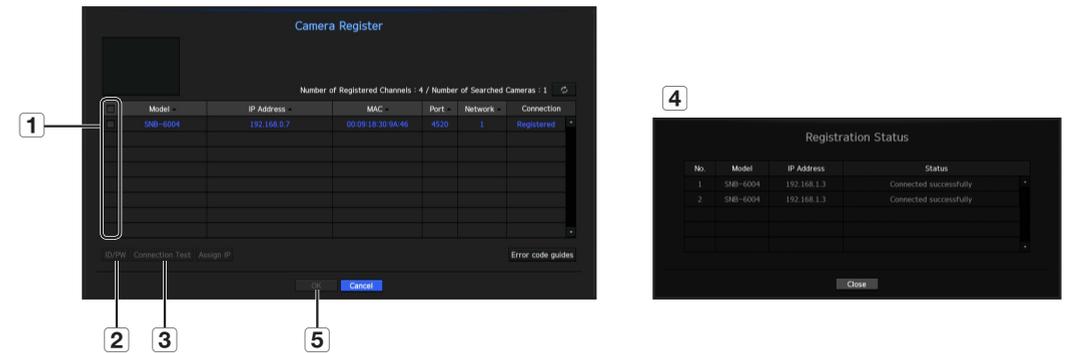
< Figure 5-3 >

Additional camera registration

In the <**Install Wizard**> setting, make a connection to the camera automatically registered and use the menu path to register and connect a camera.

Menu ➜ Device ➜ Camera ➜ Cam Registration ➜ Auto

Camera Register

Number of Registered Channels : 4 / Number of Searched Cameras : 1

1

	Model	IP Address	MAC	Port	Network	Connection
	SNB-6004	192.168.0.7	00:09:18:30:9A:46	4520	1	Registered

ID/PW Connection Test Assign IP   Error code guides

Cancel

2 **3**   **5**

4

Registration Status

No.	Model	IP Address	Status
1	SNB-6004	192.168.1.3	Connected successfully
2	SNB-6004	192.168.1.3	Connected successfully

Close

To register a camera, follow these steps:

1 Select the camera to register (you can select multiple cameras).

2 Click <**ID/PW**> to register your ID and password. (If you do not register a new ID/PW, then the default ID/PW combination is used.)

3 Click <**Connection Test**>.

4 Check the connection results.

5 If the channel connected successfully, click <**OK**> to end the camera registration process.

- Click an item on the table to see a preview (you must change the ID/PW in step **2** if the camera account changes).
- Click the table headers to sort the content.
- Click < ⟳ > to check if a new IP address was allocated to the camera when you rescan the network or when an IP address was not assigned by the DHCP server (e.g., 192.168.1.100). If the IP still stays the same, then select Assign IP to assign the IP manually.

Configuring the Recording

This section outlines how to configure and view the recording settings for each channel.

1 Shows the standard and event recording method for each channel.
- FULL : Records all the frames received from the camera.
- KEY : Records only the key frames received from the camera. In general, one or two frames per second are recorded, but you can adjust this in the camera settings.
- OFF : Turns off recording.

2 Shows the transmission size of the recording data for each channel.

3 Shows the data size limit for each channel.

> - The orange colored channel indicates the case where the **2** input data load is greater than the **3** permitted data load. If you set the **3** permitted data load to greater than the **2** input data loads, it will be changed to orange.
>
> - If the sum of input data for each channel is greater than the max level for the camera, then **4** the recording exceeding icon and the alarm message will be displayed. In this case, for the channel exceeding the input limit will record the main frame(one or two per second) only.

Setting Up the Camera

From the setup menu, you can configure the camera settings (resolution, frame rate, and quality) and other functional settings.

Menu ➜ Device ➜ Camera ➜ Camera setup
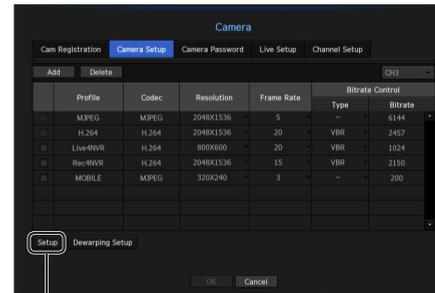
Camera function settings: You can configure the camera settings or the live movie format to change the settings in the camera itself.

- Add : Adds a camera profile.
- Delete : Deletes the selected profile from the list.
- Profile : Specifies the movie profile of the connected camera in the camera settings.
- Codec : You cannot change the codec of the selected profile.
- Resolution : Specifies the resolution of the selected profile.
- Frame Rate : Specifies the frame rate of the selected profile.
- Bitrate Control : Specifies the bitrate of the video transmitted for the selected profile.

Setting Up a Channel

From the channel setup menu, you can change the camera name shown in live mode.
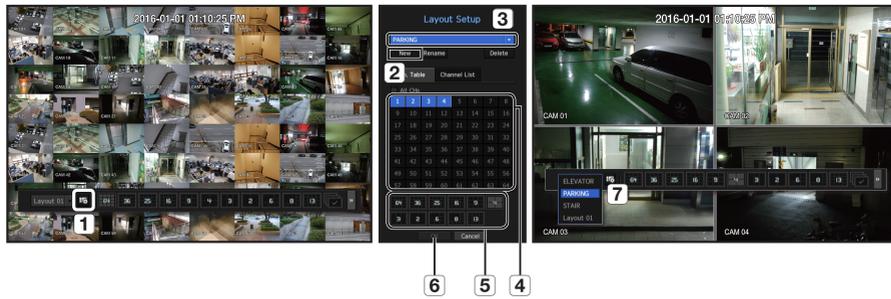
Menu ➜ Device ➜ Camera ➜ Channel setup
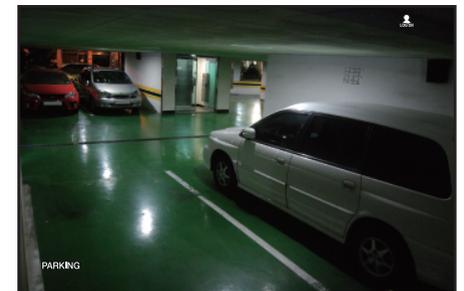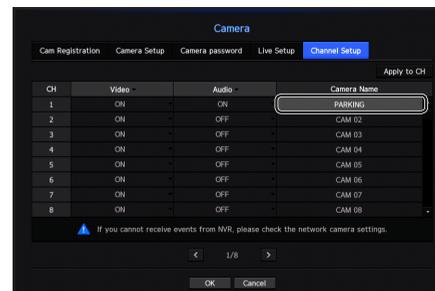
Configure and run layout

You can use the same layout set on the live screen for the Search Time function in order to perform a search using the channel sequence and combination configured by the user.

▤ ▪ For more information about the detailed setting method for each stage, refer to the user manual.

1 Live channel layout settings

1. Open the channel layout setup menu.
2. Click <**New**>.
3. Enter a name for the selected channels (e.g., PARKING).
4. Select the channels that you want to add to the layout (e.g., 1, 2, 3, 4).
5. Choose a split mode to apply (e.g., 4-way split).
6. Click <**OK**>.
7. Choose a layout to view it on the screen (e.g., change to PARKING).

2 Enter Search
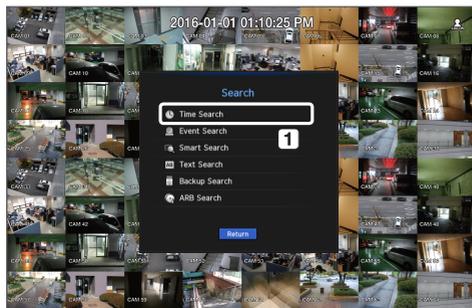
1. In live mode, right-click to select <**Search**>.
   Select <**Time Search**>.

3 Select a desired channel layout in the live screen

1. The initial search option is set to <**All Channels**>. Select a desired layout from among the channel group created in the live screen.
2. Select a channel for each selected group.
3. Move the time bar to view the preview screen as shown in Figure 4.
5. Press the <**Play**> button to enter the play screen.

4 Play
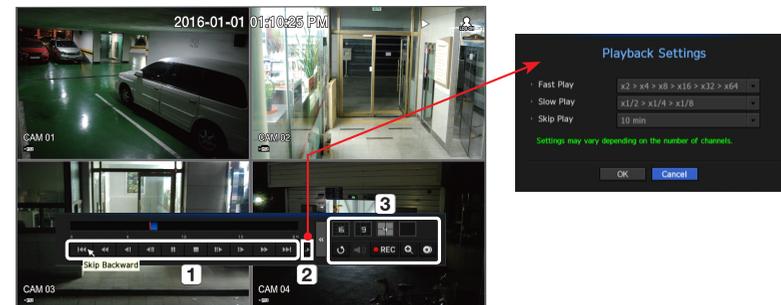
1. These are the various functions available for playback. Hover over them and a tool tip will be prompted. Control the playback by referring to the tool tip.
   (Ex : Skip Backward)
2. You can configure specific functions in 1 through playback settings.
   Ex) Jump to play: 10 minutes, 30 minutes, 1 hour, 24 hours, etc.
3. Displays functions that are operating in split mode and during other playback.

✔ **Tip** When running the layout set on the live screen in the search menu, the layout is played in the following order.

| Full screen (live) | Parking lot layout (live) | | Parking lot layout (play) |
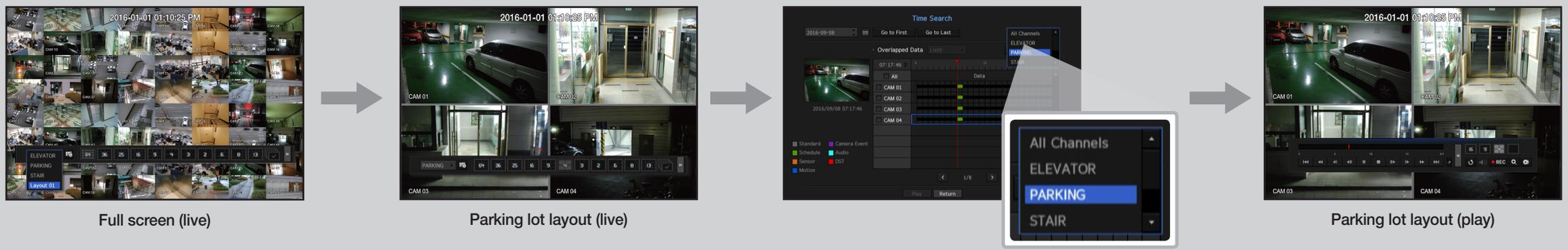
Use the basic guide

Show shortcut menu

Right-click on the live screen and you can access various functions that NVR provides. Hover over an icon and a brief definition of term for each function is prompted.

Full Screen ▶
Layout ▶
Keep ch. scr ratio
Status ▶
PTZ Control
ZOOM
Audio ▶
Freeze
Stop Alarm
Capture
Record
Play
Search
Backup
Menu
Shutdown
Logout
Hide Launcher
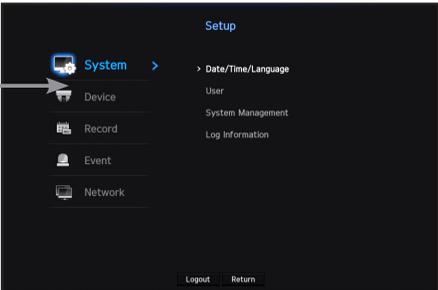
Live launcher

1 You can configure a live layout.

2 You can configure a supported split mode. You can view the end sequence ( ) in serial order for a specific period of time for each split mode.

3 You can configure additional functions in the live screen, such as alarm control or audio.

Use product information

You can check product information/user manual/firmware information/FAQ/HDD compatibility list, etc. on the website or mobile app on your smartphone.

http://hanwha-security.com

http://hanwha-security.com

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