

SAMSUNG TECHWIN

NETWORK VIDEO RECORDER

Quick Manual

SRN-4000



English



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
- VGA, 4CIF, record in a max of 2592X1944 (5M pixel) supported
- Record and play video
- Record and play audio
- Supports ONVIF Profile S standard and RTP / RTSP protocols
- Play high-definition video using the HDMI cable
- 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 (Search by Time, Event, Backup and Heatmap)
- Various Recording Modes (Normal, Event, Scheduled Recording)
- Alarm Input / Output
- Remote Monitoring function by Windows Network Viewer
- Live monitoring of the network camera
- Advanced Motion Detection (AMD)/Heat Map (Car/Person Detection) Function
- Installation Wizard Function (Easy Setup, Quick Setup)



Samsung Techwin cares for the environment at all product manufacturing stages, and is taking measures to provide customers with more environmentally friendly products.

The Eco mark represents Samsung Techwin's devotion to creating environmentally friendly products, and indicates that the product satisfies the EU RoHS Directive.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

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

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them 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 these items for environmentally safe recycling.

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



Correct disposal of batteries in this product

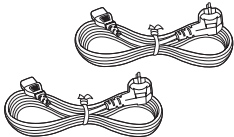
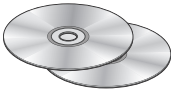
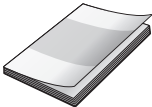
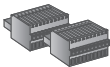
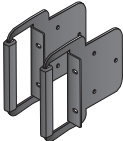
(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

Package Contents

Please unwrap the product, and place the product on a flat place or in the place to be installed.
Please check the following contents are included in addition to the main unit.

		
NVR	Mouse	Power Cable
		
Network Viewer Software / User Manual CD	User Manual or Quick Manual	HDD mounting screw
		
Terminal block	Rack mount	Rack mounting screw
		
HDD door lock key		

GETTING STARTED

To perform the Easy Setup procedure, register your camera, and configure the recording settings, follow these steps when you start the product for the first time.

1. Easy Setup → 2. Register the Camera → 3. Configure the Recording

The <Easy Setup> screen appears after the initial screen when you start the product.



- Before you start the product, you must connect the product to a hard disk drive, NVR, and network camera. (see pages 12-20 of the User Manual)

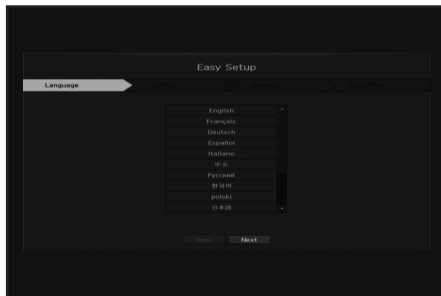
1. Easy Setup

Easy Setup allows you to set the language, ID/password, network, and date/time of the product. To perform the Easy Setup process, follow these steps.

1. Choose your language, and then click <Next> to go to the next step.
2. Enter a <Password>, and then click <Next> to go to the next step.



- Your password must be more than 8 characters and include numbers and letters.



3. Configure the network connection

You must specify the network connection method and environment. To use a simple intranet, click <Next>.

- Network 1 (Camera), Network 2 (Camera) : Connects to the camera and receives the video feed from the camera
- Network 3 (Viewer) : Transmits the video feed to a web viewer.
- Network 4 (iSCSI) : Connects to an external iSCSI.
- Network 1 (Camera) / Network 2 (Camera) / Network 3 (Viewer) / Network 4 (iSCSI) Setup
 - IP Type : Choose the network connection method.
 - IP Address, Subnet Mask, Gateway, DNS
- Transfer Bandwidth (Network3) : Specifies the maximum data size when transmitting to a web viewer.



- For more information on the network connection settings, see the User Manual.

4. Configure the date and time, and then click <Next> to open the camera registration pop-up window.

2. Registering the Camera

This section outlines how to register and connect the cameras for each channel.



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 <Refresh> 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.

3. Configuring the Recording

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



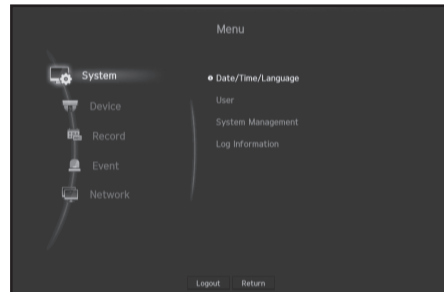
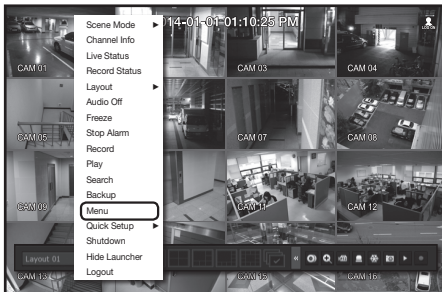
- 1 Shows the standard and event recording method for each channel.
 - FULL : Records all the frames received from the camera.
 - KEY : Records only the key frames received from the camera. In general, one or two frames per second are recorded, but you can adjust this in the camera settings.
 - OFF : Turns off recording.
 - 2 Shows the transmission size of the recording data for each channel.
 - 3 Shows the data size limit for each channel.
- A channel colored in orange shows the input data in 2 exceeds the size limit in 3. This means that you cannot record all the frames for this channel. Instead, you can record only the key frames (one or two frames per second). To record all of the frames, you must increase the size limit in 3 so that it exceeds the input data in 2.

CONFIGURING MISCELLANEOUS SETTINGS

This section outlines how to configure the camera settings, camera title (video name), and split mode.

Opening the Setup Menu

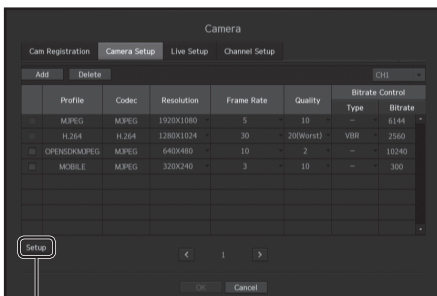
In live mode, right-click the screen to open the live mode context menu. Click **<Menu>** to open the setup screen.



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



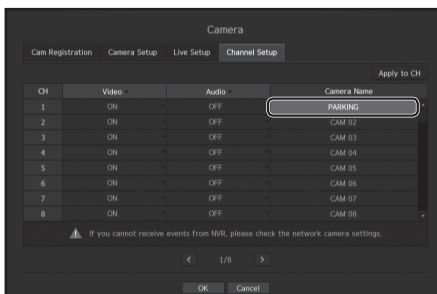
Camera function settings: You can configure the camera settings or the live movie format to change the settings in the camera itself.

- 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.
- Quality : Specifies the transmission quality 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

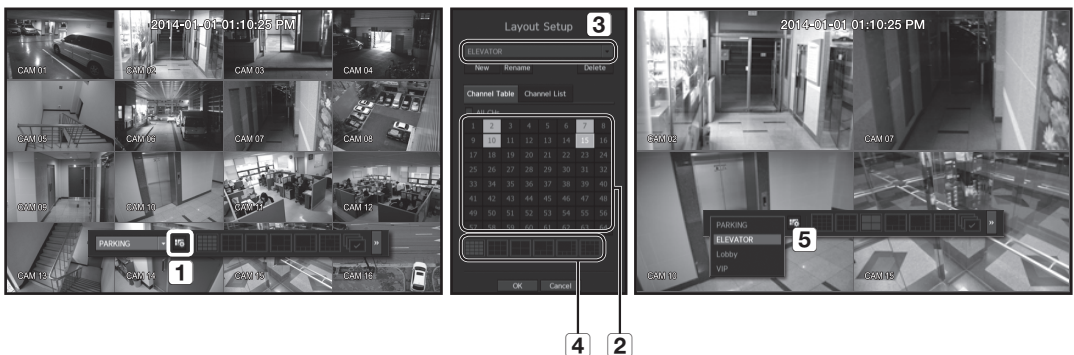


Setting Up the Live Layout

This section outlines how to select a series of channels based on their purpose/accessibility and monitor them in a single layout.

Example) Layout "Lobby" - Lobby camera 1, Lobby camera 2, Front entrance camera 2

Layout "VIP" - Directors' meeting room 1, Directors' meeting room 2, Directors' lounge 1, Corridor camera on the 7th floor



To create a new layout, follow these steps:

- 1 Open the channel layout setup menu.
- 2 Select the channels that you want to add to the layout (e.g., 2, 7, 10, 15).
- 3 Enter a name for the selected channels (e.g., ELEVATOR).
- 4 Choose a split mode to apply (e.g., 4-way split).
- 5 Choose a layout to view it on the screen (e.g., change to ELEVATOR).



SALES NETWORK

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