

# Quick Start Guide



**GV-RNVR256G0-N**

*The Vision of Security*



Thank you for purchasing GV-SNVR. This guide is designed to assist the new user in getting immediate results from the GV-SNVR. For advanced information on how to use the GV-SNVR, please refer to *GV-SNVR User's Manual*.

RNVR-QG-A



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# 1. Introduction

Welcome to the *GV-RNVR256G0-N Quick Start Guide*. In the following sections, you will learn about the basic installations and configurations. For more details, see *GV-RNVR256G0-N User's Manual*.

**Note:** The first time you run the NVR, you will be required to set your password immediately in order to protect your privacy. Please be sure to record your username and password and save them in a secure place. For password recovery methods, see *3.3.1 Password Generation, GV-RNVR256G0-N User's Manual*.

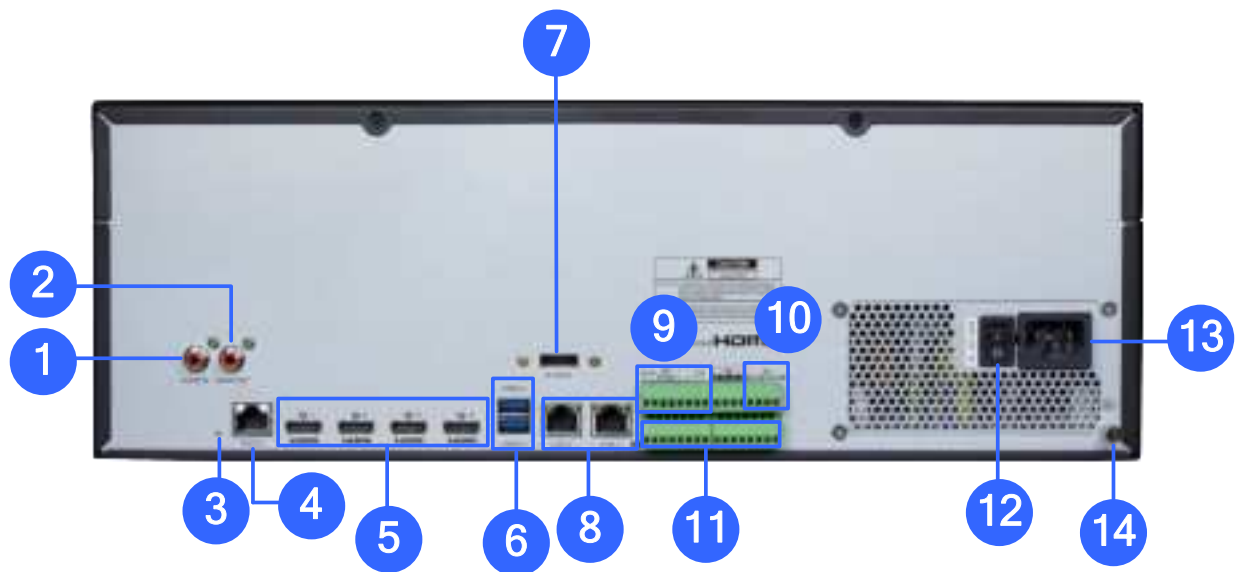
## 1.1 Front View



| No. | Item           | Status | Description                                                                                                                                                                                                                                       |
|-----|----------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | Standby button |        | It is used to power on/off the system when the device has a constant power supply. You can press and hold the button for three seconds to shut down the device, and you can press and hold the key for 10 seconds to forcedly restart the device. |

|    |             |             |                                                                        |
|----|-------------|-------------|------------------------------------------------------------------------|
| 2. | Power LED   | Solid on    | The device is operating properly.                                      |
|    |             | Not lit     | The device is shut down or not powered on.                             |
| 3. | HDD LED     | Lit green   | The hard disk is operating properly and no data is read or written.    |
|    |             | Flash green | The hard disk is operating properly and there is data read or written. |
|    |             | Not lit     | The hard disk cannot be detected or the hard disk is faulty.           |
| 4. | LAN1 /2 LED | Solid on    | The hard disk is operating properly and no data is read or written.    |
|    |             | Not lit     | The hard disk is operating properly and there is data read or written. |
| 5. | USB Port    |             | Connected to a mobile USB device or a mouse.                           |

## 1.2 Rear View

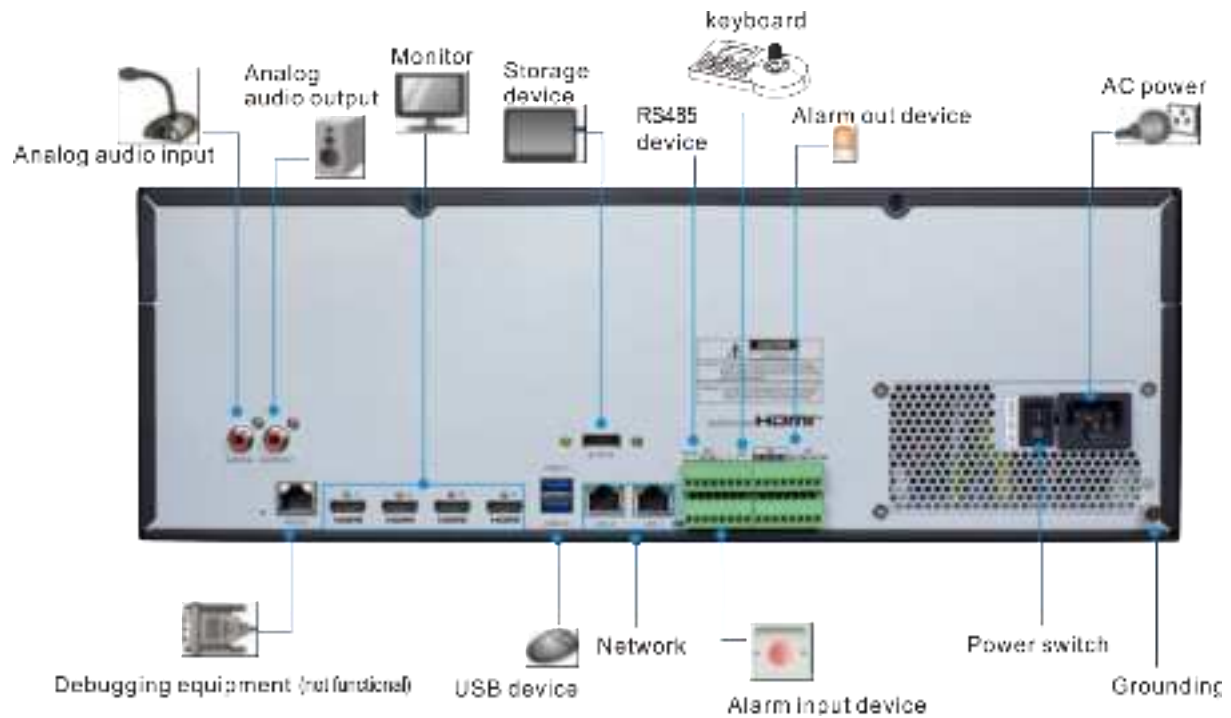


| No. | Item                   | Description                                                                                                                                                                                             |
|-----|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | Audio input            | Connected to an analog audio input device.                                                                                                                                                              |
| 2.  | Audio output           | Connected to an analog audio output device.                                                                                                                                                             |
| 3.  | Reset button           | Used to restore the factory settings. You can press and hold the button for 10 seconds to make the system automatically restore the factory settings, and the buzzer rings four times at the same time. |
| 4.  | RS232 interface        | It is currently not functional.                                                                                                                                                                         |
| 5.  | HDMI 1/2/3/4           | Output interface of the device, supporting output with 8K/4K/1080p resolution.                                                                                                                          |
| 6.  | USB Port               | Connect a USB device, such as USB mouse and USB flash disk.                                                                                                                                             |
| 7.  | e-SATA                 | Connected to an external storage device. A maximum of one hard disk is supported.                                                                                                                       |
| 8.  | LAN1/2                 | Gigabit network interface for connecting network cables.                                                                                                                                                |
| 9.  | RS485 interface        | Connected to an RS485 standard device, such as a keyboard.                                                                                                                                              |
| 10. | Alarm input interface  | Connected to alarm input devices.                                                                                                                                                                       |
| 11. | Alarm output interface | Connected to alarm output devices.                                                                                                                                                                      |
| 12. | Power switch           | Used to power on/off the device.                                                                                                                                                                        |
| 13. | Power Port             | Connect the attached power supply.                                                                                                                                                                      |

|                                                                                                                                                                                                               |                    |                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| 14.                                                                                                                                                                                                           | Grounding Terminal | Connect to the grounding cable. |
| <b>Note:</b> The device only supports HDMI 1 output 8K. If the output resolution of HDMI 1 is set to 8K, the maximum output resolution of HDMI 3 and 4 will be limited to 1080P, and HDMI 2 will be disabled. |                    |                                 |

## 2. Connection

### 2.1 Connection Diagram



## 2.2 HDD Installation

The number of 3.5" SATA hard drives that the NVR can support varies depending on the model. The following procedures are for reference only. The practical operation may be different depending on the NVR you purchased.

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**Caution:** Do not install or remove the hard disk drive while the power is turned on.

---

1. Remove the placeholder from the ejector lever.



2. Install the ejector lever of the hard drive  
Use screws to fix the hard drive on the ejector lever. You can distinguish between the left side and the right side in accordance with the indicators on the ejector lever.



3. Open the front panel

Press the buckles on the two sides on the upper part of the front panel and pull the front panel outwards.



4. Insert the hard drive

Align the hard drive slot and insert the hard drive gently and smoothly.



5. Buckle up the hard drive and close the front panel

Push in the hard drive until you hear a click. After the hard drive is installed, close the front panel.

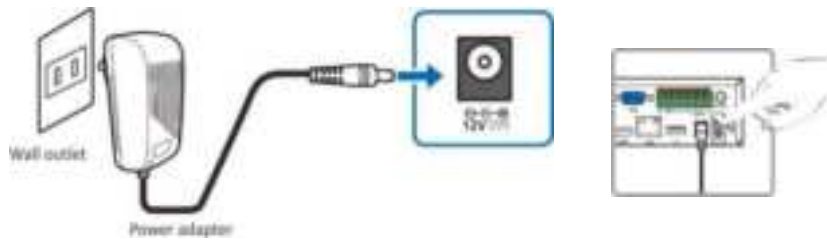
## 2.3 Power Supply Connection

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**Caution:** Only use the supplied power adapter that comes with the NVR.

---

Connect one end of the power adapter to the power connector on the back of the NVR. Plug the other end of the power adapter into the wall outlet. And press the Power Switch to turn on the power.



## 3. Getting Started

### 3.1 Start Wizard

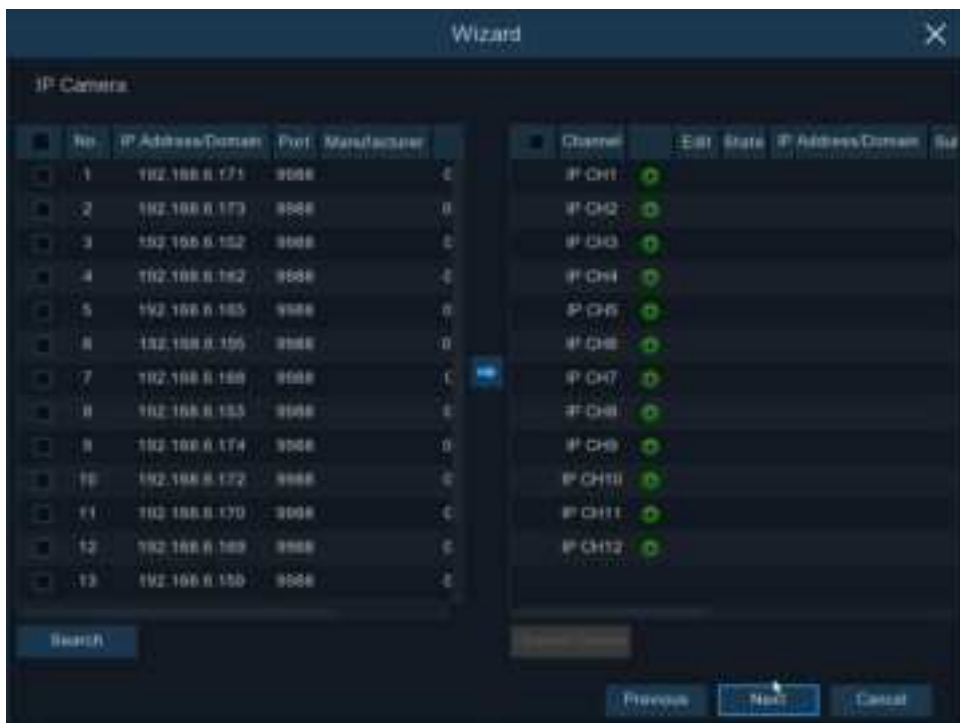
#### 3.1.1 Start Wizard

Click **Start Wizard** to proceed to the next step.



#### 3.1.2 Connecting IP Cameras

After finishing setting **Network Configuration** and **Date and Time**, this page appears.



Click **Search** to search for IP cameras in the same network. Select the IP camera(s) you want to add, and then click  icon to add to the NVR.

Or, click  button to manually add an individual IP camera to a single channel. This dialog box appears.

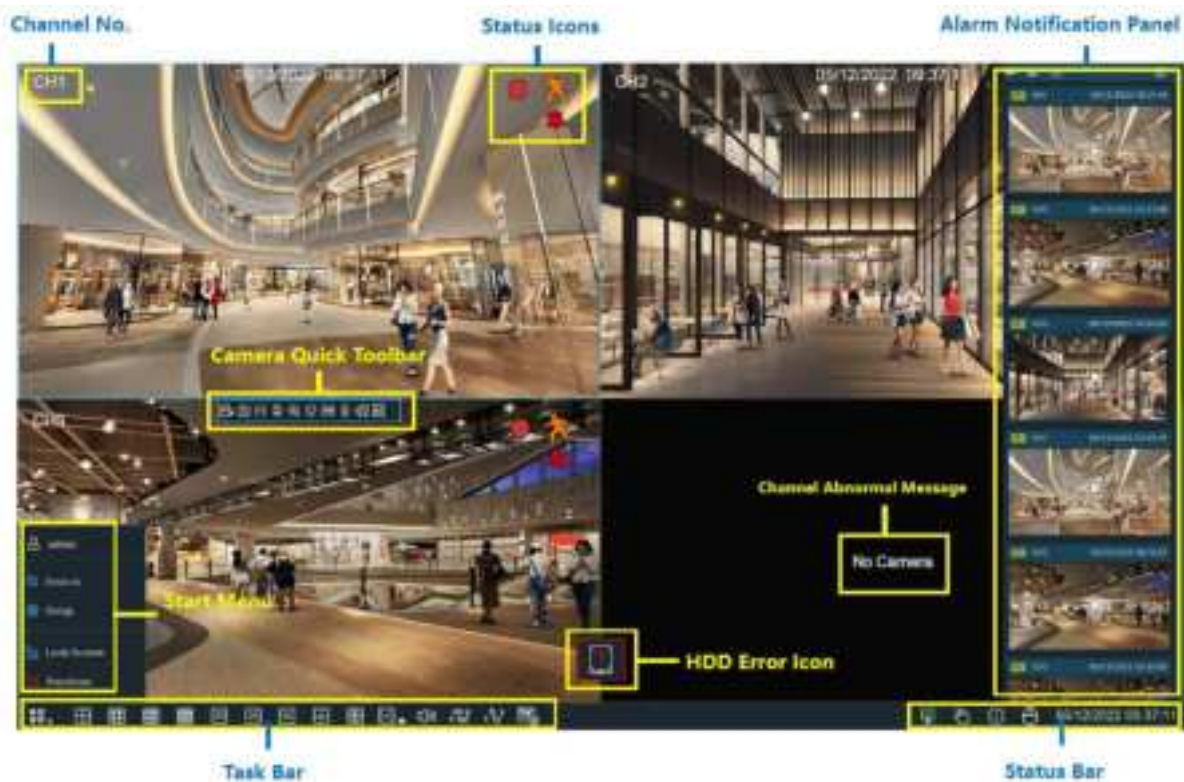


- **IP Address/Domain:** Enter the IP address or domain name of the IP camera.
- **Alias:** Name the IP camera.
- **Port:** It is set to 80 by default. Modify it if necessary.
- **Protocol:** Select the protocol of the IP camera from the dropdown menu.
  - ⊙ Select **Onvif** for GV-IP cameras
  - ⊙ Select **Private** for GV-RBL5800 / RBL5811 / REB5800 / RFER12700
  - ⊙ Select **RTSP**, and type the commands as shown below:
    - Main Stream: rtsp://IP address:port/rtsp/streaming?channel=xx&subtype=0
    - Sub Stream: rtsp://IP address:port/rtsp/streaming?channel=xx&subtype=1
- **User Name:** Enter the username of the IP camera.
- **Password:** Enter the password of the IP camera.

Click **Add** to add the IP camera to the NVR.

## 3.2 Live View Overview

### 3.2.1 Main Window



| Name                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Title         | Display channel number.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Status Icon          | <p> This indicates that the NVR is currently recording.</p> <p> This icon appears when the camera has detected motion.</p> <p> The icon indicates that the external I/O alarm device is triggered.</p> <p> This icon indicates that the HDD is in error to work.</p> <p> This icon indicates the HDD is unformatted.</p> <p> This icon indicates the HDD is unformatted.</p> <p> This icon indicates the HDD is full.</p> <p> This icon indicates the HDD is read-only.</p> |
| Camera Quick Toolbar | Left-click on the screen to quickly access the camera's toolbar. Refer to 4.2.1 <i>Camera Quick Toolbar</i> in the manual for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Task Menu Bar | Located at the bottom of the live view screen. Refer to <i>4.2.2 Taskbar</i> in the manual for details.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| OSD           | <p><b>No Camera:</b> No camera is assigned.</p> <p><b>Failed to connect to camera, please check the network connection!:</b> The added camera is off-lined or lost connection.</p> <p><b>User name or password error!:</b> Incorrect user name or password of the camera.</p> <p><b>Resource Not Enough:</b> No enough system resource to decode the camera images.</p> <p><b>No enough bandwidth for this camera!:</b> The camera cannot get online because the total bitrate of all connected cameras exceeds the NVR's bandwidth limitation.</p> |

For details, see *4.2 Live View Screen Overview* in the User's Manual.

## 3.3 Recording Playback

### 3.3.1 Accessing the Playback Window on GV-RNVR256G0-N

On the main window, click the **Playback** icon  on the toolbar at the bottom to play back the video. At the lower left corner of the main window, you can also click the **Start** icon  and **Search** to open the playback window to customize the playback channels and event types, and then play back the video.

For details, see *Chapter 7 Search, Playback & Backup* in the User's Manual.

### 3.3.2 Exporting and Playing Recordings

#### Saving Video Clips from Local GV-RNVR256G0-N

1. At the lower left corner of the main window, click the **Start** icon  and **Search** to open the playback window.
2. Insert a USB flash drive, and click the **Save** icon  from the video playback controls to save the video clips.

#### Exporting Video Clips from the Web interface of GV-RNVR256G0-N

1. On the main page, click the **Playback** tab to open the playback page.
2. After searching for the desired recordings, click the **Download** icon  from the video playback controls.
3. Select the desired files and click **Start Download** to download the video clips.

#### Playing Video Clips Exported Locally or from the Web Interface of GV-RNVR256G0-N

1. Install one of the following players:
  - [GV-R Series Video Player](#)
  - [VLC Media Player](#)
  - [KM Player](#)
2. Launch the player and locate the recordings, and wait for 3 ~ 30 seconds before it starts to play.

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**Note:** Make sure to launch and player **first** and locate the recordings on the player to prevent latency.

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## 4. Remote Access via Web Client

Use the **Web Client** to remotely access your NVR at any time via a PC. Before you access the **Web Client**, ensure that your PC's system meets the basic requirements and that the network settings of the NVR are configured properly.

### 4.1 Basic System Requirements

| Item               | Minimum                                                                                                        | Recommended                  |
|--------------------|----------------------------------------------------------------------------------------------------------------|------------------------------|
| CPU                | Intel Core™ i5 CPU                                                                                             | Intel Core™ i5 CPU or higher |
| RAM                | 4G or more                                                                                                     | 8G or more                   |
| Hard Drive         | 500G or more                                                                                                   | 1000G or more                |
| Display RAM        | 2G or more                                                                                                     | 4G or more                   |
| Display Resolution | 1280*1024                                                                                                      | 1920*1080                    |
| OS                 | Windows 7 or above<br>Mac OS X 10.9 or above                                                                   |                              |
| DirectX            | DirectX 11                                                                                                     |                              |
| Direct3D           | Acceleration Function                                                                                          |                              |
| Ethernet Adapter   | 10/100/1000M Ethernet Adapter                                                                                  |                              |
| Browser            | IE 10 / 11<br>Safari V12.1 or above<br>Firefox V52 or above<br>Google Chrome V57 or above<br>Edge V79 or above |                              |

## 4.2 Looking Up the Dynamic IP Address

By default, when the NVR is connected LAN with DHCP server, it is automatically assigned with a dynamic IP address. Follow the steps below to look up its IP address.

### Note:

1. By default, the Administrator's username is **admin** and cannot be modified.
2. This function is only applicable on GV-IP Device Utility V8.9.8 or later.

1. Make sure the PC used to configure the IP address is under the same LAN as the NVR. Download and install **GV-IP Device Utility** from our [website](#).
2. On the GV-IP Utility window, click the  button to search for the IP devices connected in the same LAN. Click the **Name** or **Mac Address** column to sort.
3. Find the NVR with its Mac Address, and click on its IP address.



4. For first-time users, you are requested to create a password.



5. Type a new password and click **OK**.
6. Click on its IP address again and select **Webpage** to open its Web interface.
7. Type the set password on the login page and click **Login**.

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**IMPORTANT:**

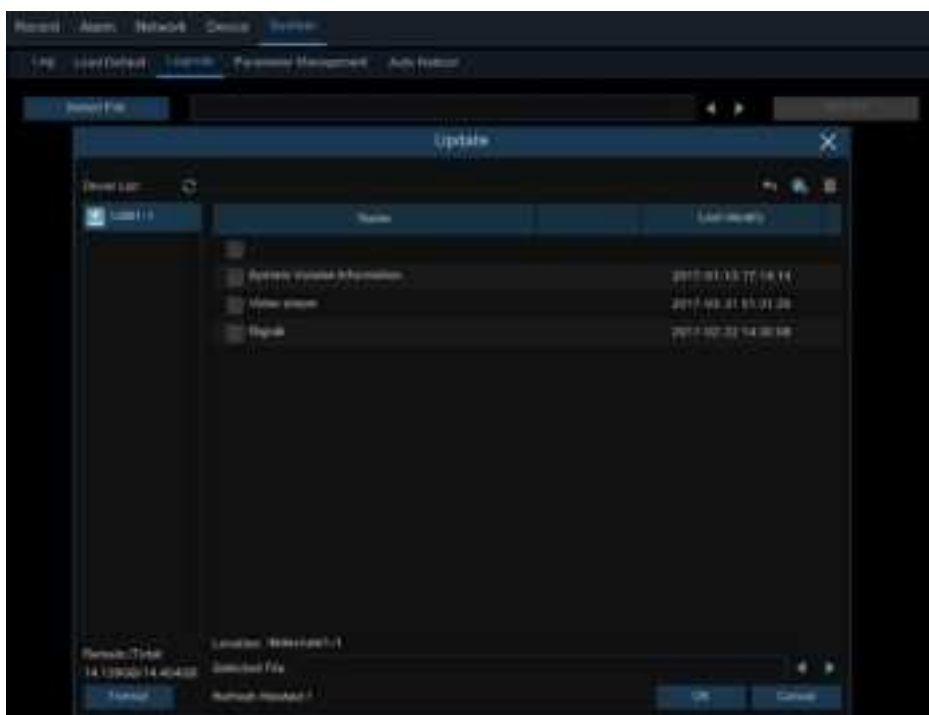
1. To change the password using GV-IP Device Utility, click on the NVR's IP address, and select Configure > Change Password. Or you can optionally change the password on the camera's Web interface by clicking Config → Security → User ; see "Modify User" in *4.8.1 User Configuration* in the user's manual.
  2. The security questions should be set after you log in. It is very important for you to reset your password when you forget your password. If you forget the admin password, you can reset the password by clicking Forget Password on the login page. For more details, see *4.8.1 User Configuration* in the user's manual.
-

## 5. Upgrading Firmware

You can upgrade the firmware either on GV-RNVR256G0-N or on the device remotely through **GV-IP Device Utility**. Follow the instructions below.

### 5.1 Upgrading Firmware on GV-RNVR256G0-N

1. Copy the firmware file to your USB drive, and insert the USB drive to the NVR's USB port.
2. Select **System > Maintenance** and open the **Upgrade** tab.
3. Click **Select File** to choose the firmware file in your USB drive and click **OK**.



4. Click **Upgrade**.

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**Note:** The system upgrade will last around 5-10 minutes. DO NOT power off the NVR or remove the USB drive from it during firmware upgrade.

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## 5.2 Upgrading Firmware Using GV-IP Device Utility

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**Note:** This is only applicable to GV-IP Device Utility V9.0.1 or later.

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1. Make sure the PC used to configure the IP address is under the same LAN as the NVR. Download and install **GV-IP Device Utility** from our [website](#).
2. On the GV-IP Utility window, click the  button to search for the IP devices connected in the same LAN. Click the **Name** or **Mac Address** column to sort.
3. Find the NVR with its Mac Address, and click on its IP address.



4. Click **Configure** and select the **Firmware Upgrade** tab.
5. Click **Browse** to locate the firmware file saved at your local computer.
6. Enter the username and password of the device.
7. Click **Upgrade** to process the upgrade.