GeoVision inc
The Vision of Security

Quick Start Guide



GV-GNVR Series

- GV-GNVRC0810-P
- GV-GNVRC1620-P

The Vision of Security

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

GNVR-QG-B

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[Warranty]

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1. Introduction

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

Note: The NVR has a default ID (admin). For the first time you run the NVR, you will be required to set your password immediately in order to protect your privacy. Be sure to record your username and password and save them in a secure place.

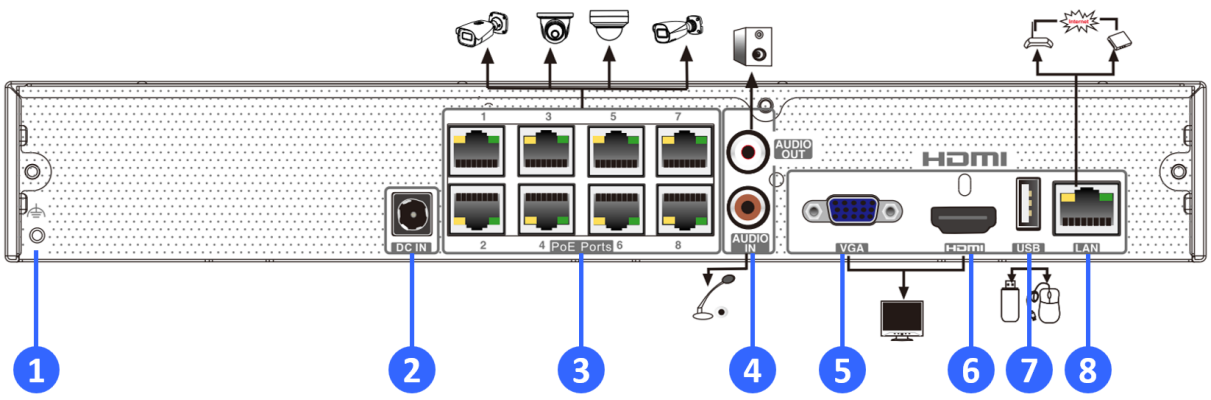
1.1 Front Panel

LED Indicator

LED	Status	Description
REC (Recording)	Steady blue	Recording.
NET (Network)	Steady blue	Connected to the network.
PWR (Power)	Steady blue	Device is powered on.

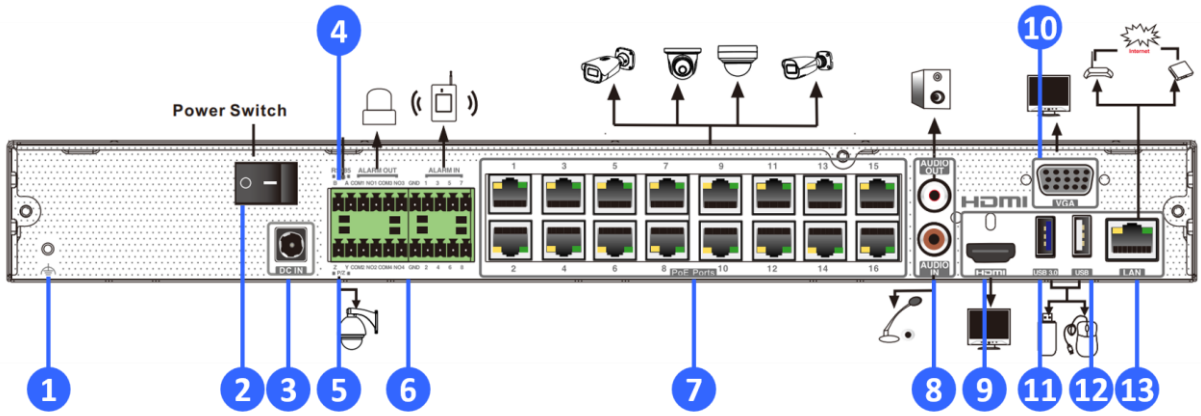
1.2 Rear Panel

1.2.1 GV-GNVRC0810-P



No.	Description	No.	Description
1	Grounding terminal	5	VGA output
2	DC IN	6	HDMI output
3	PoE ports x 8	7	USB 2.0 port
4	Audio input / output	8	LAN port

1.2.2 GV-GNVRC1620-P



No.	Description	No.	Description
1	Grounding terminal	8	Audio input / output
2	Power switch	9	HDMI output
3	DC IN	10	VGA output
4	Not functional	11	USB 3.0 port
5	RS-485 port (Y: +/ Z: -)	12	USB 2.0 port
6	Alarm input / output	13	LAN port
7	PoE ports x 16		

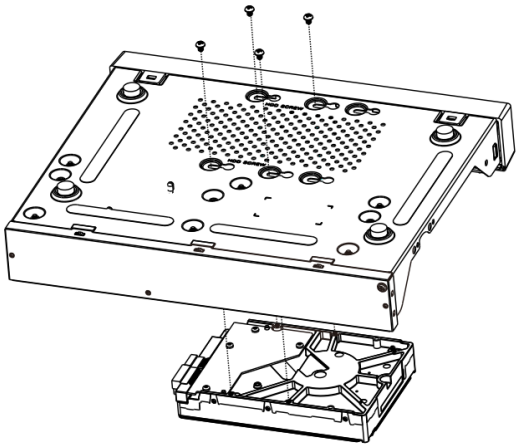
2. Installation

2.1 HDD Installation

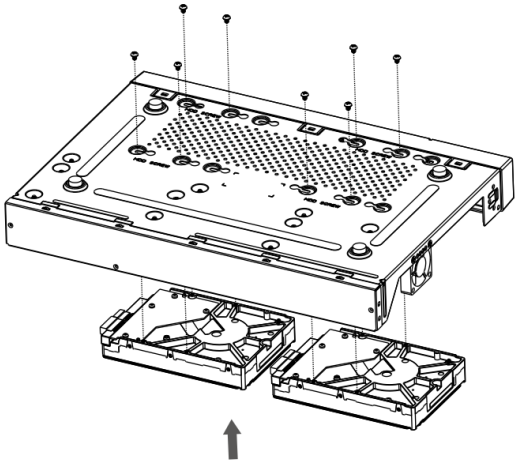
To install or replace a hard drive, follow the steps below.

1. Make sure that the device is powered off before the installation.
2. Loosen the screws on the rear panel and both sides of the device to open the cover.
3. Screw the screws into the HDD, but not tighten them.
4. Place the HDD onto the bottom of the device.
5. Flip over the chassis and secure the HDD with the screws.

GV-GNVRC0810-P:

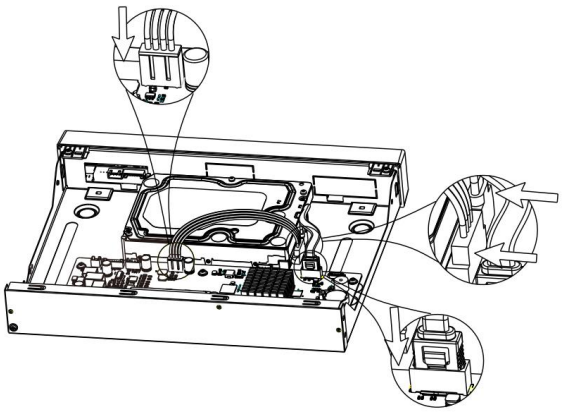


GV-GNVRC1620-P:

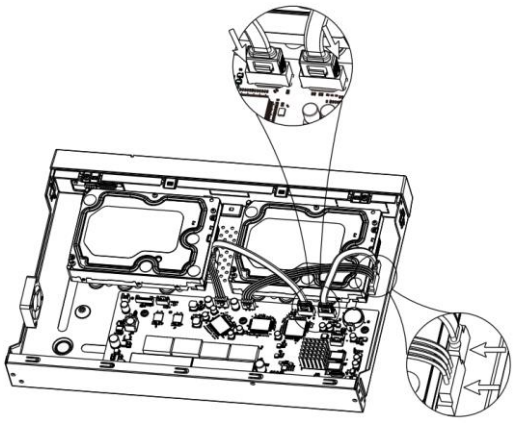


6. Connect the power and data cables.

GV-GNVRC0810-P:



GV-GNVRC1620-P:



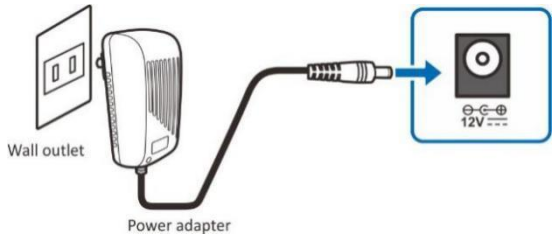
7. Reinstall the cover and secure it with the screws.

Tip: Before reinstalling the cover, check the internal components and ensure all cables are securely connected. Before use, format the HDD in Disk Management (**Start** > **Settings** > **Disk** > **Disk Management**).

2.2 Power Supply Connection

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.



3. Getting Started

3.1 Connecting Cameras to PoE Ports

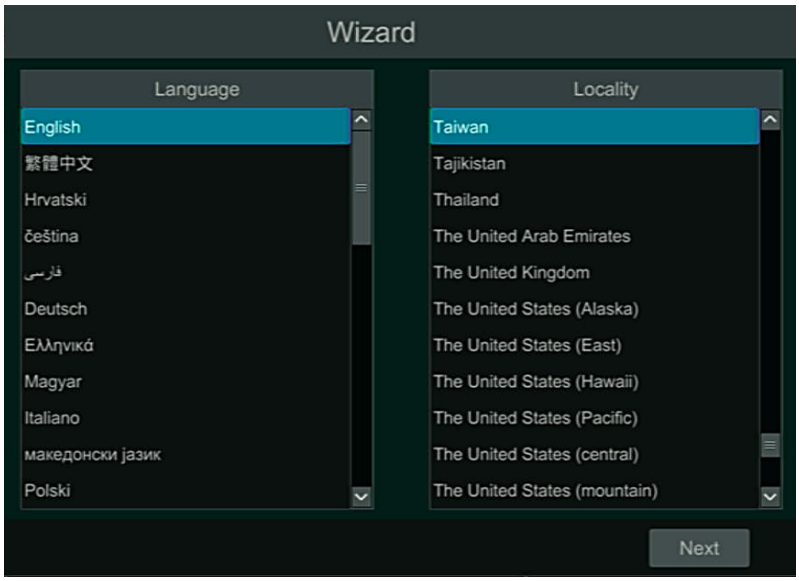
The NVR supports 8-port PoE plug-and-play functionality.

- 8-port PoE plug-and-play is supported only by the GV-IP cameras listed in the *Compatible GV-IP Cameras for Camera-Based AI Analytics* section in the datasheet.
  a. **Compatible AI Cameras:** Supports 8-port PoE plug-and-play automatically, provided the cameras are set to their factory default settings upon initial connection.
  b. **Other Camera Models:** Plug-and-play is not supported. You must configure the camera's login credentials before connecting it to the NVR.

3.2 Powering on the NVR

To get started, follow the steps below.

1. Connect the monitor and the power.
2. The device will boot, and the power indicator will display blue.
3. A wizard window will appear. Follow the on-screen instructions to configure the language, region, date and time, password, network, camera, disk, recording, and mobile app connection settings. For details on the Startup Wizard, see the next subsection.



3.2.1 Startup Wizard

1. **Language and locality:** Select the desired language and locality, read the privacy statement, check “I have read and agree”, and click “Next”.
2. **Date and Time Configuration:** Configure the time zone, date/time settings, and video format. DST is enabled automatically when applicable. Click “Next”.
3. **System Login:** Create an administrator password (default username is **admin**), set the default IPC activation password, and configure security questions for password recovery. If you forget the password, you can reset the password via security question or dynamic password. Click “Next”, and then click “Wizard Setup”.

Note: If you have forgotten your password, the password for admin can be reset using one of the following methods:

- **Security Question:** Click “Retrieve Password” in the login window and answer the configured security questions. After all questions are answered correctly, you can reset the admin password.
- **Dynamic Password:** If the security questions are unavailable or the answers are forgotten, contact GeoVision technical support at support@geovision.com.tw for assistance. A dynamic password can be generated using a dedicated tool to reset the admin password.

For security reasons, password reset operations can only be performed locally on the device.

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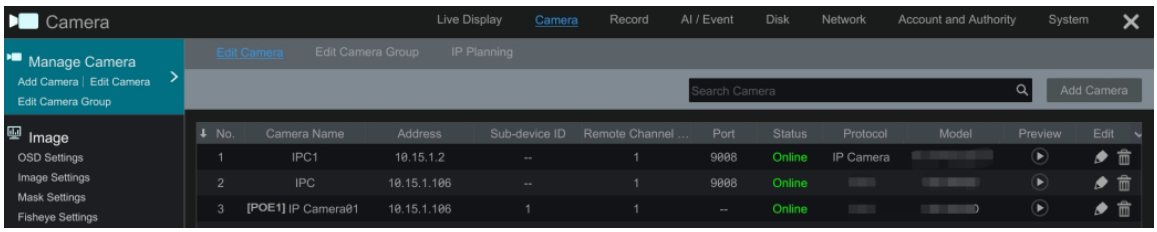
4. **Network Settings:** By default, DHCP is enabled, and the NVR obtains a dynamic IP address automatically. Optionally disable DHCP and configure a fixed IP address manually. Configure the DNS, HTTP, HTTPS, and Server port settings as needed, and click “Next”. For details, see *4. Remote Access via Web Client*.
5. **Add Camera:** Click “Refresh” to search for cameras on the network. Add, activate, edit, or remove cameras as needed, and then click “Next”.
6. **Disk Settings:** Review the installed disks and click “Format” to format the disk. **Formatting is required for initial use.** Click “Next”.
7. **Record Settings:** Select “Auto” or “Customization” recording mode to customize the recording schedule and event recording settings. Click “Next”.
8. **Mobile App:** By default, the Mobile App function is enabled. Verify that it remains enabled. Click “OK” to complete the wizard. For details, see *7. Connecting to GV-Eye*.

3.3 Adding Cameras to the NVR

To add cameras to the PoE ports of the NVR, follow the steps below.

1. Connect an IP camera to a PoE port of the NVR with a network cable.

2. Go to **Start > Settings > Camera > Edit Camera**. This window appears.



3. Connected PoE cameras appear automatically in the camera list, prefixed by their port number (e.g., [POE #] + Camera Name).

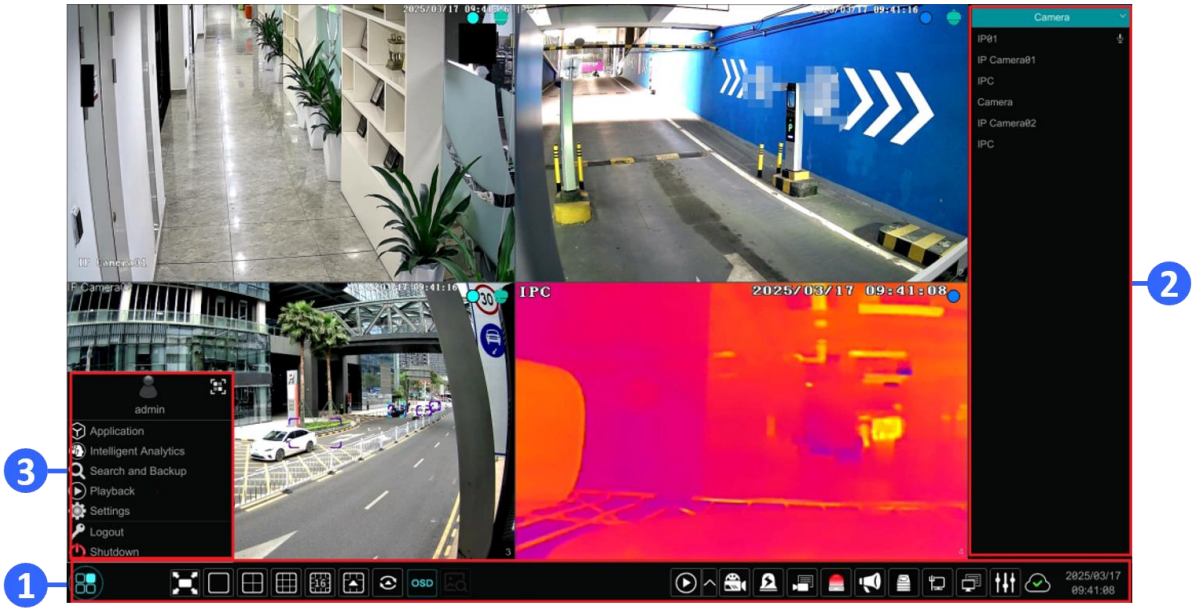
4. If the IP camera connected to the PoE port does not appear automatically in the camera list, the camera may have existing network settings. Verify that one of the following conditions is met:

   a. The IP camera is assigned an IP address on the same network segment as the NVR's internal Ethernet port.

   b. DHCP (Obtain an IP address automatically) is enabled on the IP camera, allowing it to obtain an IP address automatically when connected to the NVR.

3.4 Live View

3.4.1 Main Window



No.	Name	Description
1	Live View Toolbar	Provides quick access to commonly used live monitoring functions, such as screen layout, playback, recording, alarms, system status, and display controls.
2	Navigation Panel	Displays cameras, camera groups, display modes, and target detection results. Use this panel to select cameras, switch display modes, and access related monitoring views.
3	Main Menu	Provides access to major system functions, including intelligent analytics, playback, search and backup, system settings, user management, and power options.

3.4.2 Enable Recording

There are two methods to start manual recording.

Method 1:

Click  on the Live View Toolbar (No. 1 in *3.4.1 Main Window*) to enable recording to start recording all channels immediately. When recording is in progress, the icon becomes . Click the icon again to stop recording.

Method 2:

In the live view interface, right-click any camera window and select **Manually Record On**. Alternatively, click  on the toolbar below the camera window to start recording. When recording is in progress, the icon becomes . Click the icon again to stop recording.

For details on other live view configurations, see *3.2.1 Main Interface Introduction* in the user's manual.

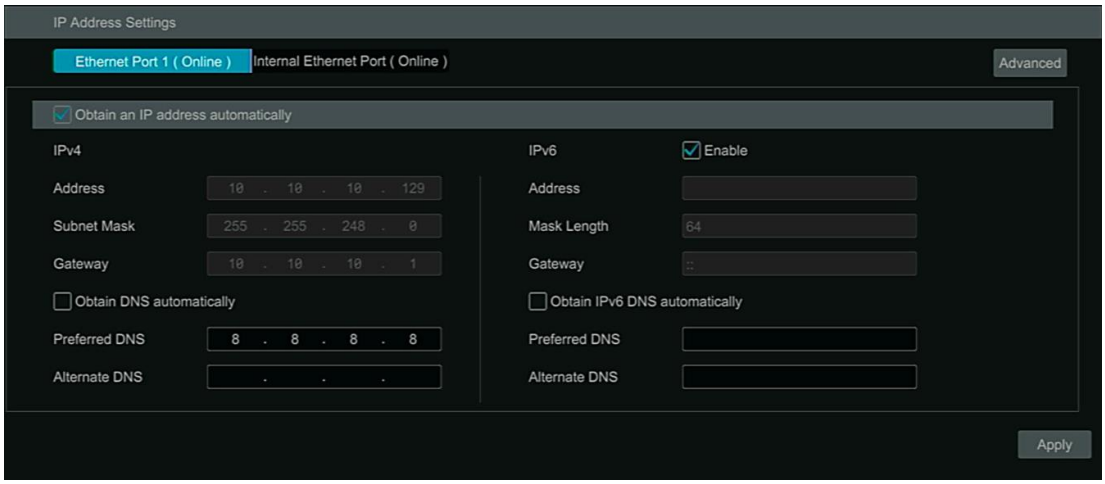
4. Remote Access via Web Client

Use the Web Client to remotely access your NVR at any time via a PC.

By default, DHCP is enabled, and the NVR will obtain a dynamic IP address. You can view or configure the NVR's IP address and then access its Web interface using the following method.

Locating the NVR's IP address:

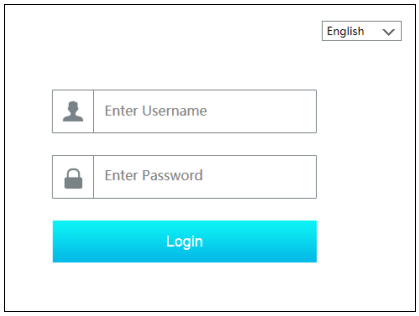
1. On the NVR, go to **Start** > **Settings** > **Network** > **TCP/IP**. By default, DHCP is enabled, and the current IP address assigned by DHCP is displayed.



2. Optionally deselect **Obtain an IP address automatically** to disable DHCP. The NVR will be assigned a fixed IP address by default: **192.168.0.100**.
3. Configure the IP address, subnet mask, gateway, preferred DNS, and alternate DNS of the NVR as needed.

Accessing the NVR remotely:

4. To access the login interface, open a Web browser, type the NVR's IP address in the address bar, and then press **Enter**. The login interface appears.



5. Select your display language in the top-right corner of the login screen. Type the NVR username and password, and click **Login** to access the live view.

Note: When logging in for the first time, you will be prompted to install a plugin. Close all browsers before installing, follow the on-screen instructions, and then reopen your browser to log in.

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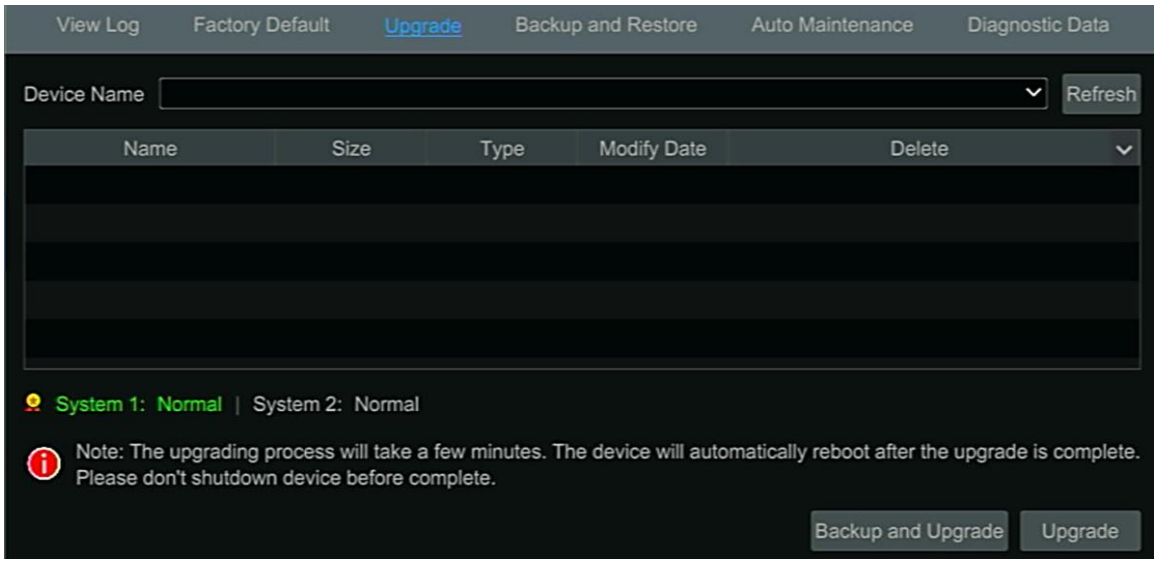
5. Firmware Upgrade

GeoVision periodically releases updated firmware on its website. To upgrade the NVR, follow the steps below.

5.1 Upgrading Firmware on the NVR

Note: Firmware upgrade is supported through both the Local Interface and Web Browser.

1. Copy the upgrade file onto the USB storage device.
2. Insert the USB storage device into the USB interface of the NVR.
3. Click **Start** > **Settings** > **System** > **Maintenance** > **Upgrade**.
4. Select the USB device in “Device Name” option and go to the path where the upgrade software resides.

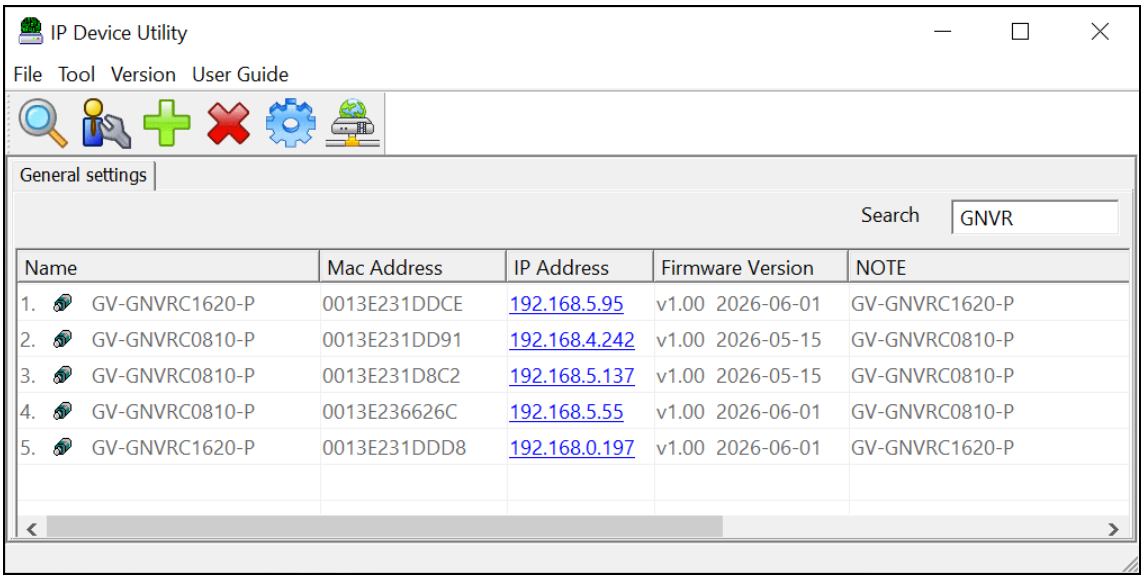


5. Select the upgrade software and then click **Upgrade**.
6. The system will automatically restart during upgrading. Wait for the upgrade to finish, and do not power off the NVR or remove the USB drive from it during the upgrade process.

5.2 Upgrading Firmware Using GV-IP Device Utility

Note: The compatible GV-IP Device Utility version is V9.0.8 or later (coming soon).

1. Make sure the PC used to upgrade firmware 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 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.



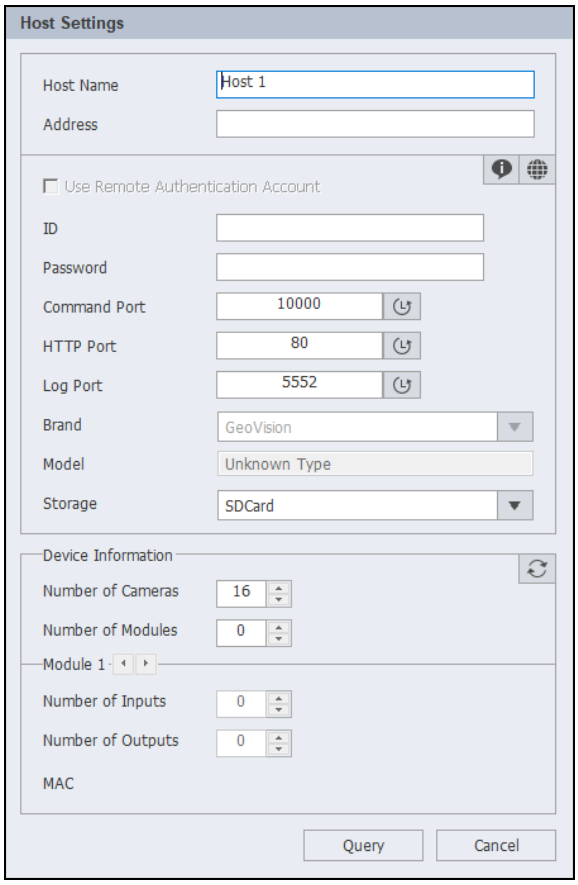
4. Click **Configure** and select the **Firmware Upgrade** tab.
5. Click **Browse** to locate the firmware file saved at your local computer.
6. Enter the username and password of the NVR.
7. Click **Upgrade** to process the upgrade.

6. Connecting to GV-Edge Recording Manager

You can remotely view the NVR with GV-Edge Recording Manager. To manually add the NVR as a host to GV-Edge Recording Manager, follow the steps below.

On GV-Edge Recording Manager

1. From the Host list, click **Add** > **Add Host** and select a device type. The Host Settings dialog box appears.



2. Type the Host Name, IP Address, ID and Password of the NVR. Modify the Communication Port if necessary.
3. Click the **Update Information** button to request for the number of cameras installed.
4. Click **OK** to add the host. The host is added to the Host List.
5. Once added, users can drag and drop the NVR from the Host List onto the Live View Window for live view display.

For details, see the *GV-Edge Recording Manager User's Manual*.

7. Connecting to GV-Eye

You can remotely view the NVR with the GV-Eye mobile app. To add the NVR to GV-Eye, scan the QR code displayed on the NVR's Mobile App interface. For detailed instructions, follow the steps in *4. GV-Relay QR Code* in the *GV-Eye Installation Guide*.

Note: To access the QR code to connect GV-Eye to your NVR, select **Start** > **Settings** > **Network** > **Mobile App** on the NVR.

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8. Connecting to GV-Cloud VMS

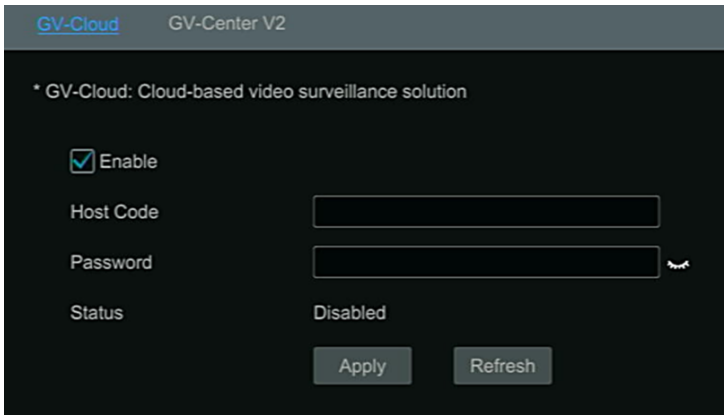
Cameras connected via the NVR can connect to GV-Cloud VMS, allowing for cloud-based monitoring. Follow the steps below.

On GV-Cloud VMS

1. Finish the sign-up procedures on GV-Cloud and sign in.
2. Add the license plans you have purchased.
3. Add your NVR to the host list on GV-Cloud VMS first. For details, see *2.3 Creating Hosts* in *GV-Cloud VMS User's Manual*.

On the NVR

4. Go to **Start** > **Settings** > **Service** > **GV-Cloud**.



5. Enable the connection and fill in the **Host Code** and **Password**.
6. Click **Apply** and **Refresh** to set up and refresh the connection. Once connected, the Status will display "Connected".

IMPORTANT:

1. GV-GNVR supports connecting IP cameras to either GV-Cloud VMS or GV-Center V2, but not both at the same time.
2. While connecting IP cameras to GV-Cloud VMS through GV-GNVR, video playback is currently not supported.
3. If the GV-GNVR is connected to a GV-Cloud IP camera (a G-series model with a 9 in its model name) and you also want to connect the NVR to GV-Cloud VMS, you must disable the cloud service on the camera (**Config** > **Service** > **GV-Cloud**) to avoid conflicts.

Note: When motion occurs, the NVR can send **snapshots** to GV-Cloud VMS. It also transmits the following **AI events** from AI-capable GV-IP cameras, varying by model: Intrusion / Cross Line / Enter Area / Leave Area / Loitering.

9. Connecting to GV-Center V2

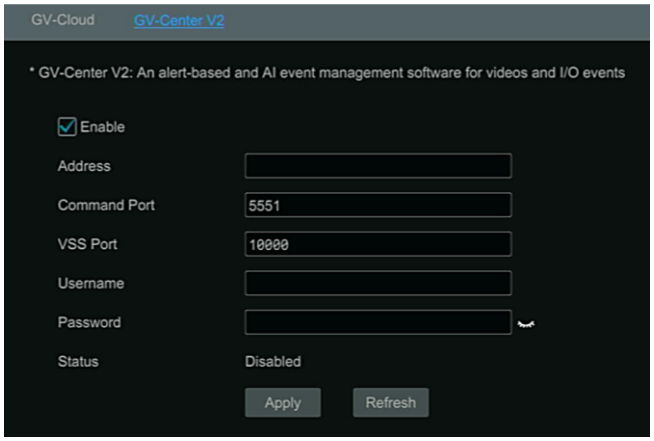
Cameras connected via the NVR can connect to GV-Center V2 and GV-Dispatch Server, allowing for centralized monitoring. Follow the steps below.

On GV-Center V2

Create at least one subscriber before starting Center V2 services. See *1.5.1 Creating a Subscriber* in the *GV-CMS Series User's Manual*.

On the NVR

1. Go to **Start** > **Settings** > **Service** > **GV-Center V2**.



2. Enable the connection and type the necessary information for GV-Center V2 / Dispatch Server to connect.
3. Click **Apply** and **Refresh** to set up and refresh the connection. Once connected, the Status will display "Connected".

IMPORTANT:

1. GV-GNVR supports connecting IP cameras to either GV-Cloud VMS or GV-Center V2, but not both at the same time.
2. While connected to GV-Center V2 and GV-Dispatch Server,
   - GV-Center V2 Standard / Pro used alone, or GV-Center V2 Pro used with GV-Dispatch Server Standard, do not support AI events.
   - GV-Center V2 AI used with GV-Dispatch Server AI supports AI events.
3. If the GV-GNVR is connected to a GV-Cloud IP camera (a G-series model with a 9 in its model name) and you also want to connect the NVR to GV-Center V2, you must disable the GV-Center V2 service on the camera (**Config** > **Service** > **GV-Center V2**) to avoid conflicts.

Note: The NVR transmits the following **AI events** to GV-Center V2 AI from compatible IP cameras, varying by model: Intrusion / Cross Line / Enter Area / Leave Area. Currently, only AI events processed by the NVR AI engine are supported.
