GeoVision GV-NR030

GeoVision GV-NVR 16-Channel Software User Manual

Model: GV-NR030

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the GeoVision GV-NVR 16-Channel Software, Model GV-NR030. This software is designed for robust surveillance recording and management, supporting both GeoVision and various third-party IP cameras.

Please read this manual thoroughly before using the software to ensure proper setup and optimal performance. Keep this manual for future reference.
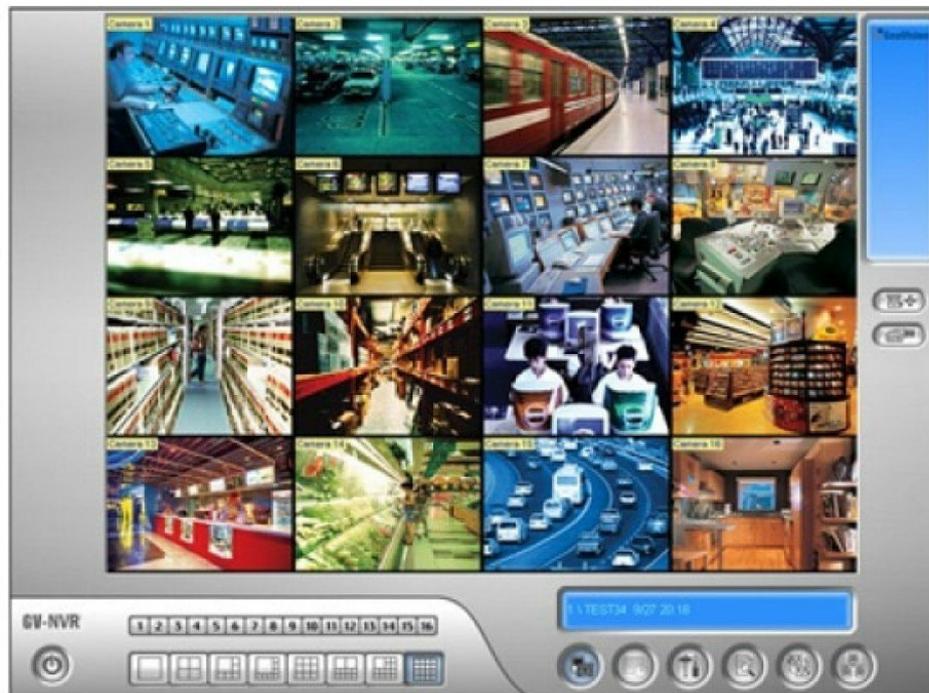

Figure 1.1: GeoVision GV-NVR Software Interface. This image displays the main graphical user interface of the GV-NVR software, showing typical camera views and control panels.

2. SAFETY INFORMATION

Observe the following safety guidelines to prevent damage to your system and ensure data integrity:

- Ensure your operating system is up-to-date with the latest security patches.
- Use strong, unique passwords for all user accounts within the GV-NVR software and connected cameras.
- Regularly back up your configuration files and recorded data to prevent loss.
- Install the software on a dedicated and secure computer system.
- Avoid installing unauthorized software on the same system as the GV-NVR to prevent conflicts.

3. SYSTEM REQUIREMENTS

To ensure optimal performance of the GV-NVR software, your system should meet or exceed the following specifications:

- **Operating System:** Windows 7 / 8 / 10 (64-bit recommended)
- **Processor:** Intel Core i5 or equivalent (Intel Core i7 or higher recommended for 16 channels)
- **RAM:** 8 GB (16 GB or more recommended)
- **Graphics Card:** Integrated or dedicated graphics card with DirectX 9.0c support
- **Hard Drive:** Minimum 500 GB for system and software installation, with additional storage recommended for video recordings (e.g., 2 TB or more, depending on recording duration and camera count).
- **Network:** Gigabit Ethernet adapter for reliable IP camera connectivity.

4. SETUP

4.1. Software Installation

1. Insert the GV-NVR software installation disc into your computer's optical drive, or download the installer from the official GeoVision website.
2. Locate and double-click the `setup.exe` file to begin the installation process.
3. Follow the on-screen prompts. Accept the End User License Agreement (EULA).
4. Select the desired installation directory. It is recommended to use the default path.
5. Choose the components to install. Ensure "GV-NVR Server" and "GV-NVR Client" are selected.
6. Click "Install" to proceed. The installation may take several minutes.
7. Once the installation is complete, click "Finish" and restart your computer if prompted.

4.2. Initial Configuration

1. After restarting, launch the GV-NVR software from your desktop shortcut or Start Menu.
2. The first launch may prompt you to set up an administrator password. Create a strong password and keep it secure.
3. Configure basic network settings, ensuring the NVR server can communicate with your IP cameras.
4. Define storage locations for recordings. It is recommended to use a dedicated hard drive for video storage.

5. OPERATING

5.1. Software Interface Overview

The GV-NVR interface typically consists of a live view panel, a camera list, control buttons for recording and playback, and a system status area. Familiarize yourself with these components for efficient operation.

5.2. Adding IP Cameras

1. Navigate to the "Camera Management" or "Device Search" section within the software.
2. The software can automatically scan your network for compatible IP cameras. Alternatively, you can manually add cameras by entering their IP address, port, username, and password.
3. Select the camera protocol (e.g., ONVIF, RTSP, or specific GeoVision protocols).
4. Configure video stream settings (resolution, frame rate, compression) for each camera.
5. Test the connection to ensure the camera feed is displayed correctly.

5.3. Recording Management

- **Continuous Recording:** Set cameras to record continuously.
- **Motion Detection Recording:** Configure motion detection zones and sensitivity for event-triggered recording.
- **Scheduled Recording:** Define specific time schedules for recording.
- **Manual Recording:** Start and stop recordings manually from the live view interface.

5.4. Live View

Access the "Live View" tab to monitor real-time feeds from all connected cameras. You can customize the layout to display multiple cameras simultaneously.

5.5. Playback

Use the "Playback" function to review recorded footage. Select the desired camera, date, and time to access recordings. Features include fast-forward, rewind, frame-by-frame review, and export options.

6. MAINTENANCE

6.1. Software Updates

Regularly check for software updates from the GeoVision website. Updates often include performance enhancements, bug fixes, and new features. Follow the provided instructions for applying updates.

6.2. Data Backup

It is crucial to back up your GV-NVR configuration settings and critical recorded footage. Use the software's built-in backup utility or external backup solutions to safeguard your data.

6.3. System Performance

- Ensure sufficient free disk space on your recording drives.
- Periodically defragment your hard drives (if using HDD).
- Monitor CPU and RAM usage to ensure the system is not overloaded.
- Keep your operating system and drivers updated.

7. TROUBLESHOOTING

- **Software Not Starting:** Check system requirements, ensure no conflicting software is running, and try reinstalling.
- **Camera Not Connecting:** Verify IP address, port, username, and password. Ensure the camera is powered on and connected to the network. Check firewall settings.
- **No Recording:** Confirm recording schedules are active, motion detection is configured correctly, and there is sufficient disk space.
- **Poor Video Quality:** Check camera resolution and frame rate settings. Ensure network bandwidth is adequate.
- **System Lag:** Reduce video stream quality, upgrade hardware, or reduce the number of active cameras if the system is overloaded.

8. SPECIFICATIONS

Feature	Detail
Model Number	GV-NR030
Product Type	NVR Software
Channels Supported	16 (for GeoVision and 3rd Party IP Cameras)
Compatibility	GeoVision and 3rd Party IP Cameras
Description	GV-NVR for 3rd party IP cameras - 2 CH (Base License)
Package Dimensions	9.7 x 7.8 x 2 inches
Item Weight	10.4 ounces
ASIN	B00DGH8JAM
Manufacturer	GeoVision
Date First Available	June 30, 2012

9. Warranty Information

GeoVision provides a limited warranty for its software products. For detailed information regarding warranty terms, conditions, and duration, please refer to the official GeoVision website or the warranty documentation included with your software purchase. Keep your proof of purchase for warranty claims.

10. Customer Support

If you encounter any issues or have questions not covered in this manual, please contact GeoVision customer support. Support resources, including FAQs, knowledge bases, and contact information, are available on the official GeoVision website:

- **Website:** www.geovision.com.tw (Please check for your regional support contact information)
- **Technical Support:** Refer to the support section on the website for phone numbers and email contacts.