

Quick Start Guide





Welcome to GV-NVR Quick Start Guide. In the following sections, you will learn the basic requirements and configurations of GV-NVR. For the detailed instructions of use, see *GV-DVR* / *NVR User's Manual* on our <u>website</u>.

Note:

- 1. GV-NVR automatically comes with 32 free IP channels for GeoVision IP video devices. To connect third-party IP devices, you need to purchase an NVR Dongle installed to the computer.
- 2. To upgrade GV-NVR, run the **Installer** (setup.exe) included in the latest software downloads from our <u>website</u>, and select **Reinstall / Upgrade** to start. For details, see *Note for Upgrading GV-System* in the User's Manual.



Packing List

- Software DVD x 1
- Protection Key (NVR Dongle) available upon order x 1

Types of Dongle Options

Two types of USB dongles are available to connect with third-party IP devices: **External-type NVR Dongle** and **Internal-type NVR Dongle**. The dongle options include 1, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26,

28, 30 and 32 IP channel(s).



External-type NVR Dongle



Internal-type NVR Dongle

Internal-type NVR Dongle is not only used for connecting third-party IP video devices, but also built with Hardware Watchdog function which restarts the computer when Windows crashes. The dongle is inserted to the USB header on the motherboard.

GV-NVR system can support up to 32 channels. The following table lists the minimum system requirements needed to run GV-NVR.

		Geovision IP Camera	3rd-party IP Camera				
		Up to 32 Channels	1~45~8ChannelsChannels		Up to 32 Channels		
OS	64-bit		Windows 10	/ Server 2016			
CPU		2nd Generation Core i5, 3.3 GHz	2nd Generation Core i3, 3.1 GHz	2nd Generation Core i5, 3.3 GHz	2nd Generation Core i7, 3.4 GHz		
Memory		8 GB Dual Channels					
VGA		HD Graphics 3000 HD Graphics 2000 HD Graphics 3000					
		To obtain the maximum frame rate possible, please see the GPU Decoding Specifications in <u>datasheet</u> .					

Note:

- 1. GV-DVR / NVR / Hybrid DVR software has ended support for Windows 8.1 / 8 / 7 / XP / Vista / Sever 2012 R2 / Server 2008 / Server 2008 R2.
- 2. The system requirements are determined in round-the-clock setting with live view only, while remote connections and video analysis features being disabled.

IMPORTANT:

Some GeoVision hardware accessories and GV-DVR functions are not

available for GV-NVR users. Please note the following unavailable functions:

- Adjustment of codec and resolution for third-party devices
- Recording quality
- Pre-Recording using RAM
- Hard Disk Calculator
- Noise Detection to reduce file size
- Video Lowpass Filter

Options

Optional devices can expand your GV-NVR's capabilities and versatility. Contact your dealer for more information.

AVP (Advanced Video Process)	AVP (Advanced Video Process) functions include Counter and Intrusion Alarm setup using lines to outline the detection zones. You can add the AVP functions to the GV-NVR by using an additional AVP Dongle, or upgrading your external or internal NVR Dongle to have the AVP functions.
Internal USB Dongle	The USB dongle can provide the Hardware Watchdog function to the GV-NVR system by restarting the computer when Windows crashes. You need to connect the dongle internally on the motherboard.
GV-Data Capture V3	GV-Data Capture allows the integration of POS systems and the GeoVision surveillance system through cable or network connection.
GV-IO Box Series	GV-IO Box series (4E / 4 Ports / 8 Ports / 16 Ports) provide 4 / 8 / 16 inputs and relay outputs and support both DC and AC output voltages, with optional support for Ethernet module and 4E additionally supporting PoE, TCP/IP and RS-485 connection.
GV-NET/IO Card (I/O Box Mode)	GV-NET/IO Card is a RS-485 / RS-232 interface converter, providing 4 inputs and 4 relay outputs. It supports both DC and AC output voltages.
GV-Joystick	GV-Joystick allows you to easily control PTZ cameras. It can be either plugged into the GV-System for independent use or connected to GV-Keyboard.
GV-Keyboard V3	GV-Keyboard V3 is used to program and operate GV-System and PTZ cameras with the keyboard and function keys. Through RS-485 configuration, it can control up to 16 GV-Systems. In addition, you can connect PTZ cameras directly to the keyboard for PTZ control.

USB Driver Installation

It is required to install the driver of USB dongle before use. After you insert the USB dongle to the computer where GV-NVR is installed, the Found New Hardware Wizard will automatically detect the device. Ignore the Wizard and follow these steps to install the driver:

1. Insert the Software DVD. It will run automatically and a window pops up.

	V8.7.0.0 install program – 🗆 🗙
Install or Remove GeoVision	1. Install or Remove GeoVision GV-Series Driver
GV-Series Driver.	2. Install GeoVision Primary Applications
	3. Install GeoVision Supplemental Utilities
	4. Download User's Manual (PDF Format)
	5. Download Adobe Acrobat Beader
	6. Download Microsoft ISCSI Software Initiator
	7. Download Microsoft .NET Framework 3.5
	0. Download Microsoft Chart Controls (For Microsoft .NET Framework 3.5)
	9. Online Tutorial Index
	10. Import Translation Revision

2. Select **Install or Remove GeoVision GV-Series Driver**, and then click **Install GeoVision USB Devices Driver**. This dialog box appears.

GeoVision USB Drive	r Installer	L

- 3. Click **Install** to install the driver. When the installation is complete, this message will appear: *Install done!*
- 4. To verify that the driver is installed correctly, go to Windows Device Manager and expand **DVR-Devices**. You should see the entry of **GV-Series USB Protector**.

🗄 🥝 DVD/CD-ROM drives
DVR-Devices
GV-Series USB Protector
🗄 🗃 Floppy disk controllers

System Installation

Before You Start

For optimal performance of your system, it is important to follow these recommendations before installing GV-NVR:

- It is strongly recommended to use two separate hard disks. One is for installing Windows OS and GV-NVR software, and the other is for storing recorded files and system logs.
- When formatting the two hard disks, select **NTFS** as the file system.
- When GV-NVR is running, it is not recommended to perform disk defragmentation.

 Since the size of transmitted data from IP cameras may be quite large and reach beyond the transfer rate of a hard disk, you should note the total of recording frame rates that you can assign to a single hard disk, as listed below:

Video		H.264	F	1.265	MJPEG		
resolution	Frame Rate	Bitrate	Frame Rate	Bitrate	Frame Rate	Bitrate	
12 MP	330 fps	14.47 Mbit/s	N/A	N/A	56 fps	65.98 Mbit/s	
8 MP	550 fps	14.13 Mbit/s	N/A	N/A	96 fps	58.52 Mbit/s	
5 MP	220 fps	16.48 Mbit/s	660 fps	6.73 Mbit/s	80 fps	30.4 Mbit/s	
4 MP	330 fps	11.65 Mbit/s	550 fps	7.74 Mbit/s	105 fps	40.53 Mbit/s	
3 MP	440 fps	10.48 Mbit/s	660 fps	5.35 Mbit/s	140 fps	38.67 Mbit/s	
2 MP	660 fps	7.01 Mbit/s	N/A	N/A	210 fps	44.93 Mbit/s	
1.3 MP	660 fps	5.05 Mbit/s	N/A	N/A	300 fps	32.26 Mbit/s	
Note: The data above was determined using the bit rate listed above and hard disks with average							
R/W speed above 110 MB/s.							

Frame rate limit in a single hard disk

Note: The data above was determined using the bit rate listed above and hard disks with average R/W speed above 110 MB/s.

The frame rate limit is based on the resolution of video sources. The higher video resolutions, the lower frame rates you can assign to a single hard disk. In other words, the higher frame rates you wish to record, the more hard disks you need to install. For the information of recording frame rates, you may consult the user's manual of the IP camera that you wish to connect to.



To install the GV-NVR, follow these steps:

- 1. Insert the Software DVD. The Install Program window pops up automatically.
- 2. Click Install GeoVision Primary Applications.
- 3. Select **GV-DVR/NVR**, and follow the on-screen instructions.
- 4. Follow the above steps to install other programs one by one.

Note: Special characters '@' and ':' are not supported to be used as the login username and/or password of GV-DVR / NVR.



The procedures for adding an IP camera, Video Server and Compact DVR may vary. The following is the setup procedure for an IP camera in the system.

 On the main screen, click the Configure button, select System Configure and click IP Camera Install. This dialog box appears.

IP Device Setup						×
Server address	Port	Cam. NO.	Status	Video Resolution	Brand	Add Camera
						Scan Camera
						Import Camera
						IP Device Utility
						Automatic Setup
						ОК

- To add an IP camera from a list of the IP cameras on the LAN, click **Scan Camera**.
- To manually set up an IP camera, follow steps 2 to 7.
- 2. Click Add Camera. This dialog box appears.

Select Brand		×
Cower ID :	100 100 1 045	_
Server IF .	192.186.1.248	
HTTP Port :	80	
User name :	admin	
Password :		
Brand :	GeoVision	•
Device :	Please select the brand of IP camera	•
Message :	Clos	e

3. Type the IP address, username and password of the IP camera. Keep or modify the default HTTP port 80. Select a camera brand and device from the drop-down list. This dialog box appears.

GeoVision_GV-BX110D
Query
Dual Streams Query Cancel Status : Standby
Camera list
Select
Port
Port 30005
Stream Type
C Single Stream C Dual Streams
Codec Type
Preview:MPEG4(320X256) Record:H264(1280X1024)
_ Resolution
Record :
Apply

- 4. The options in the setup dialog box may vary depending on the camera brand.
 - **Port:** Video streaming port number.
 - **Stream Type:** You may have the option of single streaming only or both single and dual streaming.
 - **Codec type:** You may have the option of MPEG4, JPEG, or H264 / H265. If the selected camera supports dual streaming, the preview codec and recording codec can be set differently.
 - **Resolution:** Select resolutions for preview and recording.

- 5. Click **Apply**. The IP camera is added to the list.
- 6. Click the listed camera, and select **Display position** to map the IP camera to a channel on the GV-System.

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7. The Status column now should display "Connected". Click OK.

For more details, see *Hybrid and NVR Solution*, *Chapter 2*, see *GV-DVR / NVR User's Manual* on our <u>website</u>.



The Black Dongle can be upgraded to include more functions or enhance the system. You need to collect the data from your dongle and send it back to GeoVision for an upgrade. The upgrade is charged services. To upgrade your dongle, follow these steps:

1. Each dongle has its own serial number. Find it on the side of the dongle. Later this serial number will be used in naming the files for upgrading.



- 2. Insert the dongle to the computer.
- 3. In the GV folder, double-click **GVUsbKeyUpClient.exe**. This dialog box appears.

💑 GeoVision USB Key Upgrade Client		
USB Keys:		>>
NVR (0033F598) GIS (0033F598)	Information INVR-11081584 (0033FE98) HW Serial: 11081584 Internal Serial: 00008EA4 Softwares: NVR AVP Max. number of regular IP products: 32	
	Identification Save Key ID Data Batch Save	
	Upgrade Batch Upgrade Batch Upgrade	
Select All Select None	Machine ID Ex	t

4. To retrieve the data from the dongle, click **Select All**. The information of the dongle will be displayed in the information field. Note the displayed number of "HW Serial" should be the same as that on the dongle.

- 5. To save the data to your local computer, click Save Key ID Data. If you have more than one dongle to upgrade, click Batch Save. Different dongle data will be saved as separate files. The file will be named after the serial number on the dongle and saved as *.out. For example, if a dongle serial number is 7116442, the file is named "NVR-7116442.out".
- 6. Send this data file to GeoVision at <u>sales@geovision.com.tw</u>. The GeoVision will examine the data file and send an ***.in** file back to you. The file name also includes the serial number of that dongle. In this example, the data file to be sent back is named "NVR-7116442.in".
- 7. After you receive the updated file, insert the correct dongle matching the .in file you receive, and then run **GVUsbKeyUpClient.exe**.
- 8. Click **Select All** to read the dongle, click **Upgrade** and then open the updated file to upgrade the dongle. You can also select more than one dongle in the list and click **Batch Upgrade** to upgrade them at the same time. Make sure these dongles match the updated files you receive.



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