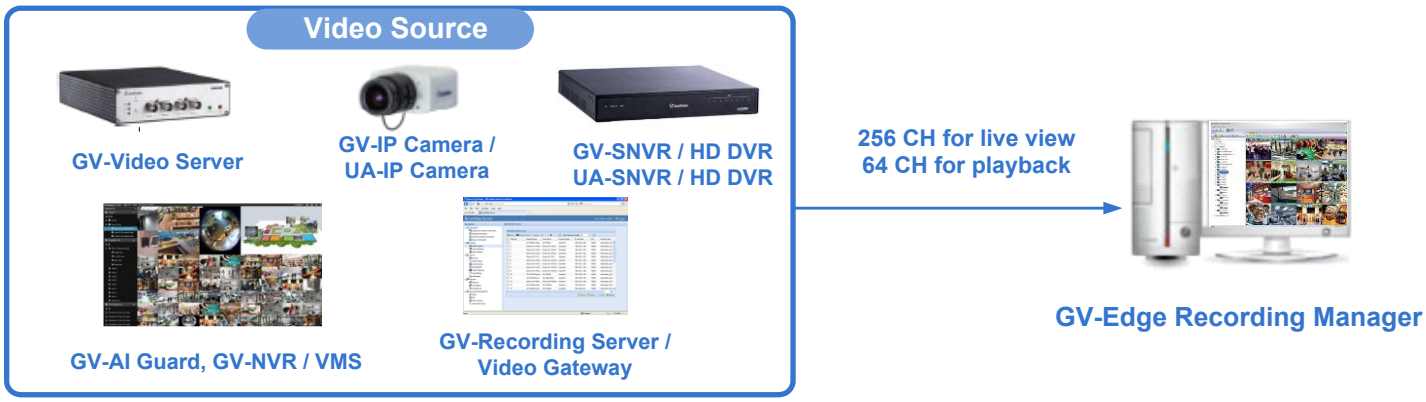
GV-Edge Recording Manager (Windows Version)

Introduction

GV-Edge Recording Manager is designed for remote live viewing and playback of GeoVision IP devices and software. It provides a unified interface to access live view, enable or disable recording, play back videos, and manage multiple IP cameras at once—all without separate logins for each device or software. Connections to hosts can be terminated without affecting recording or device operation.



Features

- Display of up to 64 free channels or 256 licensed channels
- On-Demand Dual-Channel display
- Fisheye dewarping
- Advanced live view modes: PIP/PAP views, Focus view, Scan window, and secondary monitor projection
- Live image snapshots
- Remote recording management for GV-IP Camera, GV-AI Guard, and GV-NVR / VMS
- Remote playback functionality
- Batch IP address assignment
- PTZ command and control
- Two-way audio communication
- System setting migration and backup
- Remote output triggering
- Quad-Monitor support for up to four independent monitors
- GV-IP Decoder Box integration for remote monitor display

Minimum System Requirements

OS	64-bit	Windows 11 / Windows 10 / Server 2022 / Server 2019 / Server 2016
CPU	32 channels (Dual Streams)	Core i3-4130, 3.4 GHz
	64 channels (Dual Streams)	Core i5-4670, 3.4 GHz
	96 / 128 channels (Dual Streams)	Core i7-8700, 3.2 GHz
	160 / 192 / 224 / 256 channels (Dual Streams)	Core i7-265, 2.4 GHz
Memory	32 Channels (Dual Streams)	8 GB
	64 channels (Dual Streams)	16 GB
	96 / 128 channels (Dual Streams)	16 GB
Graphics Card	32 / 64 channels	PCI-Express, 800 x 600 (1280 x 1024 recommended), 32-bit color
	96 / 128 channels	NVIDIA GeForce GTX650 Ti BOOST
	160 / 192 / 224 / 256 channels	Intel graphics cards

License

Free License	64 channels
Maximum License	256 channels
Paid License Option	96 / 128 / 160 / 192 / 224 / 256 channels with support for 4-monitor display, GV-Joystick use, and System Log
Optional Combinations	N/A
License Type	Software License, Internal or External Dongle

IMPORTANT:

If you have previously purchased a **GV-Edge Recording Server license** (V2.3.1 or earlier; 64 / 96 / 128 CH), please contact our sales representatives for a complimentary 32-channel upgrade.

Note:

1. GV-USB dongle comes in internal and external dongles. It is recommended that you use the internal GV-USB Dongle to have the Hardware Watching function which restarts the PC when Windows crashes or freezes.
2. The licensing comes in two forms: GV-USB dongle and software license. The two are incompatible. If a GV-USB dongle has been inserted on the system, remove it before using software licensing. For details on software licensing, see the document.

Specifications

Supported Hosts		
GV-IP Device		Unlimited
GV-Software		
I/O Device Output		5 hosts
Live View		
No. of Channels		Up to 256 channels
Window Division		4, 6, 8, 9, 10, 13, 16, 25, 36, 49, 64
Display Mode		Fisheye dewarping, PIP, PAP, wide angle lens dewarping, fisheye object tracking, zoom, snapshot, focus view, scan view
Audio		Two-way
PTZ		Pan, tilt and zoom
Host Recording (Monitoring)		Enable/disable monitoring of hosts (only for GV-IP Camera, GV-AI Guard, GV-NVR / VMS)
Channel Status Indicator	Yellow	Not under monitoring
	Green	Under monitoring but not being recorded
	Red	Under monitoring and is being recorded
Host Batch Management		IP address configuration, time synchronization with GV-Edge Recording Manager (only for GV-IP Camera)
Playback		
Max. Number of Channels		64 Windows
Playback Mode		Fisheye dewarping, wide angle lens dewarping, defog, PIP, PAP, Stabilizer
Others		
Language		Arabic / Bulgarian / Chinese Simplified / Chinese Traditional / Czech / Danish / Dutch / English / Finnish / French / German / Greek / Hebrew / Hungarian / Indonesian / Italian /Japanese / Lithuanian / Norwegian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Slovakian / Slovenian / Spanish / Swedish / Thai / Turkish

Note:

1. Ensure to meet the remote connection criteria of the following hosts before building the connection:

- **GV-VMS / NVR:** Maximum remote connections depend on CPU specification and usage, and available bandwidth.
- **GV-Recording Server:** Supports a maximum of 600 remote connections. See the *GV-Recording Server datasheet* for details.
- **GV-SNVR0412/0812/1600/1611/1612:** Maximum remote connections vary by model. See the *Remote Monitoring* section in *GV-SNVR Comparison Chart* for details.
- **GV-SNVR3203/6403, GV-RNVR Series, GV-TNVR1620-P:** Maximum remote connections depend on the total output bandwidth. See the *Max. Bandwidth* spec in *GV-SNVR Comparison Chart* for details.
- **GV-TXVL1610:** Maximum remote connections depend on the total output bandwidth. See the *Max. Output Bandwidth* spec in the *datasheet* for details.
- **UA-SNVR/HD DVR:** Maximum remote connections depend on the total output bandwidth. See the columns of *Max. Output Bandwidth* in *UA-SNVR Comparison Table* and *UA-HD DVR Comparison Table* for details.

2. All specifications are subject to change without notice.

Compatible GeoVision IP Devices and Software

GV-IP Device		Supported Version
GV-Cloud Bridge Pro		V1.10 or later
GV-IP Camera		All GV-IP cameras with the latest firmware.
GV-IP Decoder Box Mini		V1.01 or later
GV-IP Decoder Box Optimal		V1.02 or later
GV-IP Decoder Box Ultra		V1.09 or later
GV-IP Display116		V1.02 or later
GV-IP Speaker	GV-IPSC10	V2.0 or later
	GV-IPSH30	V2.0 or later
	GV-IPSS40	V2.0 or later
HD DVR System (GV and UA)	GV-TXVL1610	V1.00 or later
	UA-XVL810	V1.00 or later
	UA-XVL1610	V1.00 or later
	UA-XVL1611	V1.00 or later
	UA-XVR810	V1.00 or later
	UA-XVR1620	V1.00 or later
SNVR System (GV and UA)	GV-SNVR0400F	V1.10 or later
	GV-SNVR0411	V2.10 or later
	GV-SNVR0412	V1.00 or later
	GV-SNVR0811	V2.40 or later
	GV-SNVR0812	V1.00 or later
	GV-SNVR1600	V1.10 or later
	GV-SNVR1611	V1.00 or later
	GV-SNVR1612	V1.00 or later
	GV-SNVR3203	V1.00 or later
	GV-SNVR6403	V1.00 or later
	GV-RNVR256G0-N	V1.00 or later
	GV-RNVR3240-N	V1.00 or later
	GV-RNVRL810-P	V1.00 or later
	GV-TNVR1620-P	V1.00 or later
	UA-SNVRL810-P	V1.00 or later
	UA-SNVR1620	V1.00 or later
	UA-SNVR1620-P	V1.00 or later
	UA-SNVR3240-N	V1.00 or later
GV-Video Server	GV-VS11	V1.03 or later
	GV-VS12	V1.07 or later
	GV-VS14	V1.01 or later
	GV-VS2400/2420	V1.00 or later
	GV-VS2800/2820	V1.00 or later
UA-IP Camera		All UA-IP cameras with the latest firmware.
GV-Software		**Supported Version**
GV-AI Guard		V1.1 or later
GV-NVR		V8.7.1.0 or later
GV-Recording Server		V1.2.4.0 or later
GV-Video Gateway		V1.2.4.0 or later
GV-VMS		V14.10 or later

GPU Decoding

A higher total frame rate can be achieved if your CPU comes with onboard GPU or is connected to external GPU for GPU decoding.

Onboard GPU

GPU decoding is supported only when using the following Intel CPUs:

For **H.264** Video Compression

- 2nd ~ 8th Generation Intel Core i3 / i5 / i7 Desktop Processors
- 9th ~ 14th Generation Intel Core i3 / i5 / i7 / i9 Desktop Processors
- Intel Core Ultra 5 / Ultra 7 / Ultra 9 Desktop Processors (Series 2)

For **H.265** Video Compression

- 6th ~ 8th Generation Intel Core i3 / i5 / i7 Desktop Processors
- 9th ~ 14th Generation Intel Core i3 / i5 / i7 / i9 Desktop Processors
- Intel Core Ultra 5 / Ultra 7 / Ultra 9 Desktop Processors (Series 2)

External GPU

GPU decoding is supported only when using

- NVIDIA graphics cards with a compute capability of 3.0 or above and a memory of 2 GB or above. To look up the computing capability of the NVIDIA graphics cards, refer to: https://developer.nvidia.com/cuda-gpus.
- AMD graphics cards listed in this document.

Note:

1. A single external NVIDIA or AMD graphics card is supported for GPU decoding. NVIDIA cards support up to 8 MP resolution.
2. To ensure optimal performance and compatibility, it is recommended to use graphics cards of the same model and brand.

Onboard GPU + External GPU

To have both the onboard and external GPU perform GPU decoding, the GPUs must follow their respective specifications listed above.

Note:

1. If you have both onboard and external GPU installed, the onboard GPU must be connected to a monitor for H.264 / H.265 GPU decoding.
2. CUDA compute capability 5.0 or higher is required to ensure optimal performance.

Options

Optional Devices	Description
GV-IP Speaker	GV-IP Speaker plays audio received over the network, supporting both live speech to deter intruders and prerecorded messages for alerts and announcements.
GV-Joystick V2	GV-Joystick V2 facilitates PTZ camera control. It is compatible not only with GeoVision software, but also with any third-party software that supports the HID standard.
GV-Joystick V3	GV-Joystick V3 facilitates PTZ camera control. It is compatible not only with GeoVision software, but also with any third-party software that supports the HID standard.