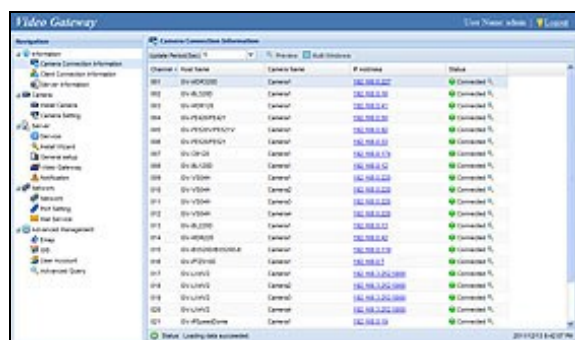
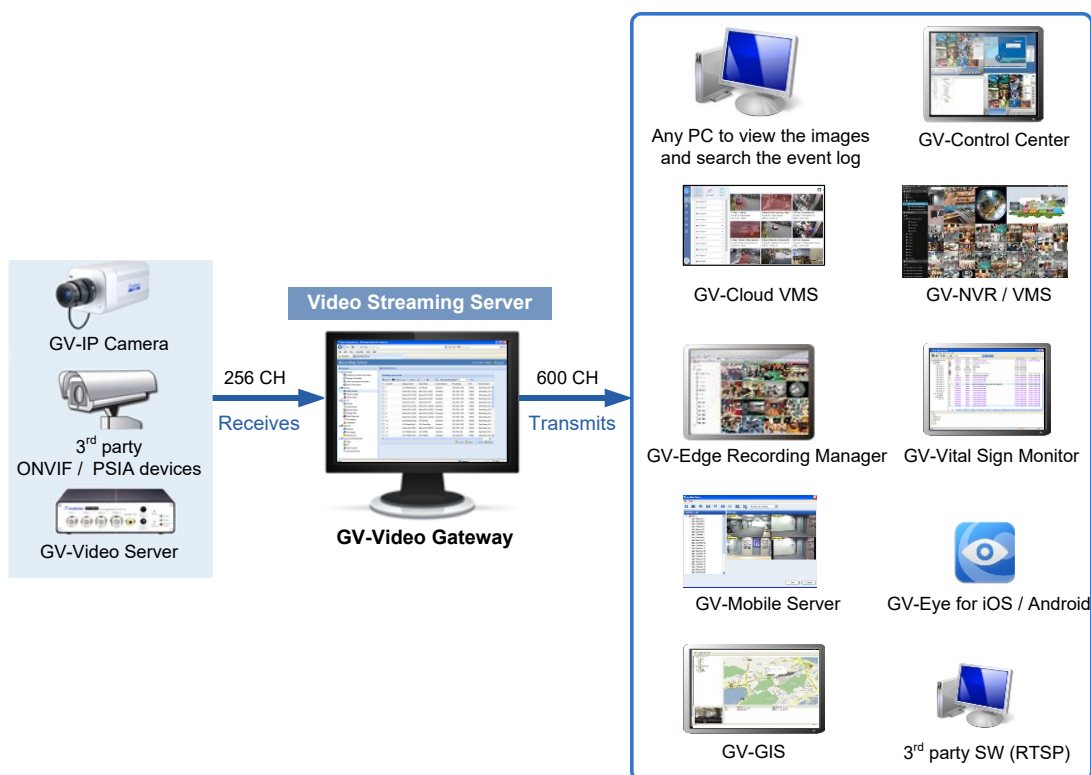


GV-Video Gateway



Introduction

GV-Video Gateway is a high-capacity video streaming server designed for large-scale surveillance. It can receive up to 256 channels from various IP video sources and simultaneously distribute up to 600 channels to GeoVision software. By leveraging GV-Video Gateway, users can maintain optimal frame rates while significantly reducing CPU load and the bandwidth consumption of IP video devices.



In some locations, you may need to install a 3G wireless Internet module (e.g., GPRS/UMTS) on GV-Video Server but face difficulties obtaining a public IP address from your ISP. GV-Video Gateway's Passive Connection feature resolves this by accepting connection requests from these devices and distributing video streams to clients.

Features

- Reception for up to 256 IP channels and distribution for up to 600 IP channels
- Video gateway between IP devices and receiving clients (GV-VMS, GV-NVR, GV-Control Center, GV-Edge Recording Manager, GV-Eye, etc.)
- Support for third-party IP video devices via ONVIF, PSIA and RTSP protocols
- Video playback using Remote ViewLog
- Web-based management interface via major web browsers
- Flexible deployment using both passive and active connections
- Mobile DVR networking solutions for GV-Video Server to obtain a public IP address
- Real-time bandwidth monitoring
- Two-way audio communication
- Remote event monitoring through [GV-Vital Sign Monitor](#)
- Cloud-based video monitoring through [GV-Cloud VMS](#)
- Smart streaming for efficient bandwidth usage
- YouTube live streaming for GV-IP cameras
- Support for 31 languages

Minimum System Requirements

OS	64-bit	Windows 10 / 11 / Server 2008 R2 / Server 2012 R2 / Server 2019
CPU		Core i7 8700, 3.2 GHz
Memory	Up to 128 Channels	8 GB Dual Channel
	129 to 256 Channels	16 GB Dual Channel
Hard Disk	Installation	1 GB
	OS	128 GB
Browser		• Internet Explorer 8 to 11 • Mozilla Firefox 26.0 • Google Chrome 31.0.1650.63 • Safari 5.1.7
LAN		Gigabit Ethernet X 1~6
Software		.Net Framework 3.5

License

Free License	N/A
Maximum License	256 channels
Increment for Each License	Third-party License (Third-Party IP devices+ GV-IP Devices): 128, 256 IP channels
Optional Combinations	N/A
Dongle Type	Internal or external

Note: GV-USB dongle is available in internal and external models. The internal dongle is recommended for the Hardware Watchdog function, which restarts the PC when Windows is unresponsive.

Specifications

Feature	Details
Number of IP Device Connections	256 channels
Number of Remote Client Connections	600 channels
Active Connections	Up to 256 channels
Passive Connections	Up to 128 channels (only for GV IP devices)
3rd Party IP Camera	Supported
Live Viewing	Single Live View, multi-channel live view
Recording	Not supported
YouTube Live Streaming	Yes (up to 16 channels using H.264 codec)
Protocol	DynDNS, HTTP, HTTPS, ONVIF, PSIA, RTSP, SMTP, TCP, UDP, UPnP
E-Mail Notifications	Supported (for Active connection lost, passive connection lost, USB protection key removed)
SMS Notifications	Not supported
Two-Way Audio	Only for GV-IP devices through active connection
GPS support	Only for GV-IP cameras
Number of Accounts	Up to 1000 accounts
Mobile App Support	GV-Eye app
Bandwidth Control	Not supported
Live View	Up to 16 channels per page
Event Query	Supported
I/O Control	Not supported
Language	Arabic / Bulgarian / Czech / Danish / Dutch / English / Finnish / French / German / Greek / Hebrew / Hungarian / Indonesian / Italian / Japanese / Lithuanian / Norwegian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Simplified Chinese / Slovakian / Slovenian / Spanish / Swedish / Thai / Traditional Chinese / Turkish

Compatible Standard and Protocol

GV-Video Gateway integrates with third-party IP video devices that support ONVIF, PSIA, or RTSP protocols.

ONVIF	PSIA	RTSP	
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Compatible GeoVision Products

Software

- **GV-Backup Center:** V1.1.2 or later
- **GV-Control Center:** V3.7.0 or later (V3.6.0 or earlier supports up to 128 CH)
- **GV-DVR / NVR, Multi View, Multicast:** V8.5.6 or later (supports up to 64 CH)
- **GV-Edge Recording Manager for Windows:** V2.0.0 (V1.0.0 or earlier supports up to 128 CH)
- **GV-Edge Recording Manager for Mac:** V1.2.0 (V1.0.0 or earlier supports up to 128 CH)
- **GV-GIS:** V3.1.1 or later
- **GV-Mobile Server:** V1.3.0 or later (supports up to 64 CH)
- **GV-Redundant Server & Failover Server:** V1.1.0 (supports up to 128 CH)
- **GV-Vital Sign Monitor:** V8.5.9 or later (supports up to 128 CH)
- **GV-VMS:** V17 and V18 or later (supports up to 64 CH), V20 or later (supports up to 256 CH)

Mobile App

- **GV-Eye:** V2.7.4 or later (V2.7.3 or earlier supports up to 128 CH)

Cloud

- **GV-Cloud VMS** (only Basic Plan supported currently)

USAVision Products

- **UA-HD DVR:** UA-XVL810, UA-XVL1610, UA-XVR810, UA-XVR1620
- **UA-IP Camera:** UA-B580F3, UA-R500F2, UA-R560F2, UA-R580F2, UA-R800F2

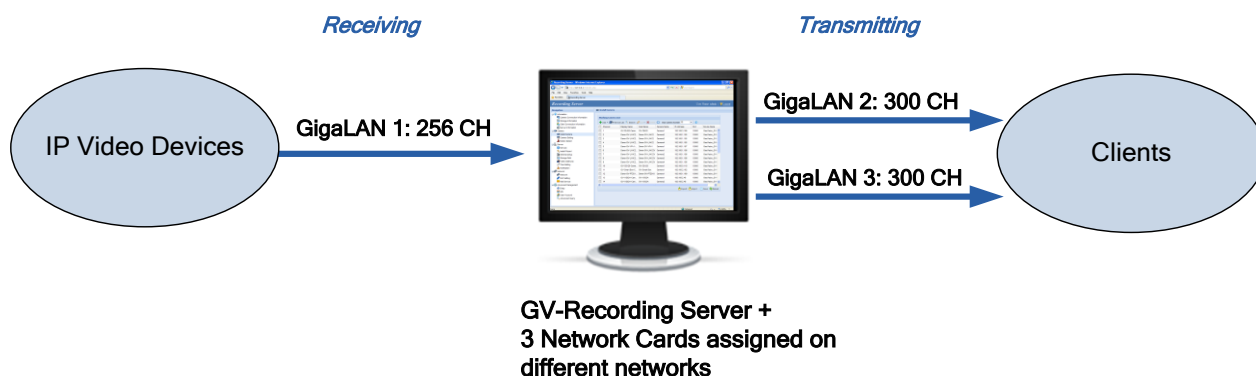
Recommended Network Requirements

The server's transmission capacity depends on the number of available Gigabit Ethernet connections. The following table specifies the number of Gigabit network cards required to receive 256 channels and transmit 600 channels, based on the resolution of the source video.

Res.	Bitrate	Frame Rate	Codec	Gigabit Network Cards Required	
				Receiving 256 CH	Transmitting 600 CH
1.3 MP	0.83 Mbps	30 fps	H.265	Gigabit network card x 1 (up to 256 CH per card)	Gigabit network card x 1 (up to 600 CH per card)
2 MP	1.6 Mbps				Gigabit network card x 2 (up to 300 CH per card)
3 MP	2 Mbps				
4 MP	2.21 Mbps				
5 MP	2.41 Mbps	20 fps		Gigabit network card x 2 (up to 128 CH per card)	Gigabit network card x 3 (up to 200 CH per card)
8 MP	3.5 Mbps				

The recommended deployment of Gigabit Ethernet connections for data transmission and reception is illustrated below. To minimize network latency and prevent bottlenecks, ensure that each Gigabit connection operates on a separate network segment.

2 / 3 / 4 MP Source Video



5 / 8 MP Source Video

