



INTRODUCTION

GeoVision's GV-Series is a PC based surveillance system designed to process video, audio and data from local and remote network surveillance environment. With more special features and more integration versatility provided, the GV-Series Surveillance System delivers more powerful and streamlined surveillance operation performance as well as enhanced management efficiency. In addition it offers advantages that convert into low cost installation, unlimited connectivity options and compatibility for third-party through ONVIF and PSIA. With video, audio, data, and I/O devices combined all into one system and through uniform software platform interface, each of these solutions provides a full list of features and functionalities that can quickly fulfill various clients' particular security surveillance requirements.

Built upon comprehensive and easy-to-integrate hardware and supporting technologies, the GV-Surveillance and Video Management Platform is the core system platform that provides performance-optimized video monitoring and various advanced video analytics/control features to support many of enterprise's management functions. It is a scalable, extensible platform that can be customized and seamlessly integrated with other security system applications, such as:

1. POS/ ATM/ EAS for loss prevention
2. Access Control for building automation
3. License Plate Recognition system for law enforcement, entrance control and revenue collection
4. Megapixel IP devices for critical area and mobile object monitoring
5. Central Monitoring stations for high profile security areas in commercial, industrial and residential markets

In addition the remote management WebCam and versatile storage system framework offer high scalability and extensibility for future integration with other functions or systems at remote sites.

VERSION 8.7.0.0 NEW FEATURES

New:

- Support for H.265 GPU and CPU decoding
- Support for Windows 10
- Support for Smart Streaming of GV-IP Cameras
- Support for Arecont AV12176DN
- Support for GV-SD2322-IR / GV-VS2400 / GV-VS2420
- Support for sending alert notifications through SNMP
- Support for user privilege control on GV-Eye

Key Feature List

▶ Monitoring

- Support for 32 channels in GV-System and CMS applications
- Support for GPU decoding
- Digital Matrix, support maximum 8 monitors display
- Hybrid Solution integrating analog videos with digital videos from GV-IP video products and third-party IP cameras (*1)
- Codecs: Geo H265, Geo H264, Geo MPEG4
- Multithreading Encoding (*1)
- Higher UI Screen Resolutions (1920 x 1200, 1680 x 1050, 1600 x 1200, 1280 x 800, 1440 x 900, 1920 x 1080 and 1280 x 1024)
- Noise Tolerance for Motion Detection
- Noise Detection to Reduce File Size (*1)
- Noise Filter to Filter Out Video and Audio Noise (*1)
- Report Generator
- Support for Cardholder data from GV-Video Server
- Touch Screen Support
- Full screen view
- Dual display operation for live monitoring and ViewLog playback on two monitors
- Screen pop-ups on motion or alarm activation
- Advanced Motion Detection
- Digital watermark
- Video lost detection
- On screen video loss message
- Video de-interlace filter
- E-map
- Windows lockup
- Image size indicator
- Synchronized video and audio
- Backlight compensation
- Video auto gain controller (*1)
- Video scaling filter
- AVI repair utility
- System log
- Support 1,000 accounts for logins and passwords
- Multi level passwords protection
- Use Microsoft Remote Desktop to control another GV-System
- Twin DVR
- Embedded I/O devices control
- Embedded PTZ control panel
- Support dynamic IP address
- Password Expiration Management
- System Idle Protection
- Spot Monitor Controller
- POS Live Viewer
- Photo-ID Integration (GV-WT)
- Hard Disk Calculator (*1)
- Authentication Server
- Colorful Mode to enhance video color
- Live view buffer and frame rate control
- Wide Angle Lens Dewarping
- Dual stream on-demand display (*2)
- Fisheye GPU Dewarping (*2)
- 3rd party Fisheye Dewarping (*2)
- Support 3rd party IP Cameras - see IP Camera Support List(*2)
- Support ONVIF, PSIA, RTSP protocol(*2)

▶ Intelligent Recording & Playback

- Choice of recording at 30, 60, 120, 240, 480 and 960 fps (*1)
- Recording trigger by round-the-clock, motion detection, alarm and schedule
- Adjustable recording quality and frame rate for each camera
- Pre-motion and post-motion recording
- Supports Windows burning software
- Pre-Recording Using HDD
- Advanced Round-The-Clock Recording (*1)
- Instant Playback
- Time Merge From Different Clips
- Splitting Files for Backup onto Multiple Discs
- Extracting Frames from a Video Clip During Playback
- Support for Daylight Saving Time (DST)
- Playback of GPS tracks from GV-Compact DVR and GV-Video Server
- Support for recording in standard type of H.264, MPEG4 and JPEG codec
- Support for saving dewarped fisheye view in AVI format
- Wide Angle Lens Dewarping
- Support for configuration change without stopping recording
- Compact Video files

▶ Audio

- 32 channels of live audio streaming and recording

▶ Video Analytics

- Object Counting
- People Counting
- Intrusion Alarm
- Face Detection
- Privacy Mask
- Unattended and Missing Object Detection
- Scene Change Detection
- Advanced Scene Change Detection
- Advanced Unattended Object Detection
- Advanced Missing Object Detection
- Advanced Motion Detection
- Panorama View
- Video Stabilization
- Defog Function
- Crowd Detection
- Object tracking and zooming by PTZ domes (*1)
- Object tracking in fisheye view
- Single PTZ Tracking
- Digital Object Tracking
- Face Count
- Camera Popup
- Video Lowpass filter

▶ **Smart Search & Ease Playback**

- Timeline Search
- Face Detection for Object Index
- Object search
- Index search
- Object Index
- Thumbnail browse for ease of search for specific frames within video footage
- Export a video footage within a specified time range

▶ **Notification**

- E-mail notification with attached video images on motion and alarm activation
- E-mail or telephone notification on video lost or I/O error
- Directs PTZ dome to a preset location on motion and alarm activation

▶ **WebCam - Remote Surveillance**

- POS Live View via IE Browser
- Support for connection with POS devices using OPOS and TCP/IP protocol
- 3G Mobile Phone Support (3GPP)
- SSL Encrypt Connection Support
- UPnP™ Support
- Control Panel on Single View to Provide Instant Information and Operation
- Support PIP, PAP, Defogging Live Videos, and Video Stabilizer in Single View

▶ **Advanced I/O Control**

- Visual Automation
- Virtual I/O Control
- One-Click I/O Status Control

▶ **Profile Management**

- Selectable GUI Skin
- Custom Start-Up Splash Screen, Non-Active Video & Video Lost Screen

▶ **Remote Monitoring Software**

- WebCam
- Remote Playback System
- Edge Recording Manager (Windows Version)

▶ **IT Technology**

- RSA Network Security
- Authentication Server: central control of password settings in local GV-DVRs

▶ **Central Monitoring Station (CMS)**

- Center V2
- Vital Sign Monitor
- Dispatch Server

▶ **Integration Solution**

- Point-Of-Sale
- EAS Integration
- Access Control

- Synchronized audio and video for both live and playback modes
- Continues playback of set frames A to B
- EXE format export, playable with any third-party players
- AVI format export in multiple screens mode
- DVD format export for Hybrid Card format files
- Option for recycling the input-triggered events (Never recycle function)

- SMS alerts available in Main System, Center V2 and Vital Sign Monitor
- Alarms on objects that pass between predefined regions
- Skype Video Utility to notify upon motion / input trigger (*3)

- Restricting Power User and User to Access WebCam Server at Specified Time Length
- Event List Query
- Download Center
- Drag-and-Drop Support for Camera, PTZ and I/O Icons on the 2 Windows of MPEG4 Encoder Viewer
- Remote E-Map
- Pop-up Live Images upon Input Trigger in Remote E-Map
- Multicast
- Audio Broadcast

- Multiple I/O Types Selection
- Latch Trigger Feature

- Customizing System Features
- Easy Configuration Backup & Restore
- Custom DVR Setting's Template

- Android Smartphones
- iPhone / iPod / iPad

- Authentication Server: Support for Windows Active Directory

- Control Center
- GV-GIS (Geographic Information System)

- Megapixel Integration
- Licence Plate Recognition
- Central Monitoring Station

Note:

(*1) Not supported by GV-NVR

(*2) Not supported by GV-DVR

(*3) GV-Skype Video Utility V1.4 supports Skype V7.25.56.106

VERSION 8.7.1.0 GV-DVR Specifications

Video Capture Card Comparison Table

Click Model Name for Video & Audio Detailed Specifications

GV-5016	GV-3008	GV-1480B	GV-1240B	GV-1120B	GV-900A	GV-800B	GV-650B	GV-600B
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Total frame rate and number of channels supported

Refer to the documents below to see the total frame rate and number of channels supported by GV-DVR when connected to GV-Fisheye cameras and H.265 cameras.

- [GV-System V8.7 Supports H.265 GPU Decoding](#)
- [GV-Fisheye Camera Integration Notes](#)

Options

Optional Devices	Description
Internal USB Dongle	The USB dongle can provide the Hardware Watchdog function to the GV-DVR/NVR by restarting the computer when Windows crashes. You need to connect the dongle internally on the motherboard.
GV-HUB V2	An easy way for serial port extension, this hub can add 4 RS-232 / RS-485 serial ports through the GV-DVR/NVR's USB port.
GV-COM V3	GV-COM V3 can add 1 RS-485 port to your computer through a USB connector.
GV-IO Box (4 Ports V1.2)	GV-IO Box 4 Ports V1.2 provides 4 inputs and 4 relay outputs. It supports both DC and AC output voltages, and provides a USB port for PC connection.
GV-IO Box (8 Ports)	GV-IO Box 8 Ports provides 8 inputs and 8 relay outputs, and supports both DC and AC output voltages. You can connect the unit to the PC either by using its USB port or through network by using its Ethernet module.
GV-IO Box (16 Ports)	GV-IO Box 16 Ports provides 16 inputs and 16 relay outputs, and supports both DC and AC output voltages. You can connect the unit to the PC either by using its USB port or through network by using its Ethernet module.
GV-Joystick V2	GV-Joystick V2 allows you to easily control PTZ cameras. It can be either plugged into the GV-DVR/NVR for independent use or connected to GV-Keyboard.
GV-Keyboard V3	GV-Keyboard V3 is used to program and operate GV-VMS and PTZ cameras. Through RS-485 configuration, it can control up to 36 GV-DVR/NVR. In addition, you can connect PTZ cameras directly to the keyboard for PTZ control.
GV-Data Capture V3 Box	GV-Data Capture V3.1E Box can integrate the GV- DVR/NVR to an electronic POS system, while GV-Data Capture V3E Box can establish such integration through LAN or Internet.
GV-IR Remote Control	GV-IR Remote Control allows you to control GV-System at the maximum operation distance of 7 m (22.97 ft).
GV-NET Card V3.2	GV-NET Card V3.2 is a RS-485 / RS-232 interface converter that can be installed inside a PC. It also supports connection via USB port.
GV-NET I/O Card V3.2	GV-NET/IO card V3.2 provides 4 inputs and 4 relay outputs. It supports both DC and AC output voltages and provides a USB port as well.
GV-IO 12-In Card V3	With 12-point digital inputs, this card can expand your external device up to 16 sensor inputs.
GV-IO 12-Out Card V3	With 12-point relay outputs, this card can expand your external device up to 16 alarm outputs.