



## 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 V8.3 delivers more powerful and streamlined surveillance operation performance as well as enhanced management efficiency. In addition it offers advantages that convert into low cost of installation and unlimited connectivity options. 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.



## NEW FEATURES

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 8.3 KEY FEATURES

- Support for 32 channels in GV-System and CMS applications
  - Support for two GV Video Capture Cards in GV-System
  - New features to Main System:
    - Digital Matrix
    - Automatic adjustment for DST (Daylight Saving Time)
    - Lost signal alarm
    - Windows-based direct POS integration (POS Text Sender)
    - Crowd Detection (\*\*)
    - Advanced Scene Change Detection (\*\*)
    - Advanced Unattended Object Detection (\*\*)
    - Advanced Missing Object Detection (\*\*)
    - Single Camera Tracking
    - Turbo Mode for GV-Combo A Cards (GV-1480A, 1240A, 1120A) to record at high speed
    - Iris button added to the PTZ control panel
    - Colorful Mode to enhance video color
    - Support for new PTZ cameras: COP 15-CD53W (Pelco D), Elmo PTC-200C, Elmo PTC-400C, Elmo PTC-1000, Eyeview T-Power (T2-SA27), JVC TK-C686E, Lilin PIH-820, Nang Wang WVD 2300PNT (firmware version 4.1), StorVision and 360 Vision ViD-18COP04 (Pelco P)
- Note:** The feature with (\*\*) mark needs to work with an AVP dongle which you need to purchase additionally.
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- New features to Main System:
    - Support for Daylight Saving Time (DST)
    - Playback of GPS tracks from GV-Compact DVR and GV-Video Server
    - Colorful Mode to enhance video color for playback
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- New features to WebCam:
    - Multicast
    - Audio Broadcast
    - POS/Wiegand Live View option added to Single View
    - New GUI for Remote Playback (RPB)
    - Support for BlackBerry phones
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- New features to SMS Server:
    - Unlimited log retention time
    - Support for new alert events, including Crowd Detection, Advanced Scene Change Detection, Advanced Unattended Detection and Advanced Missing Object Detection
    - Support for Wavecom GPRS Modem
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- New features to Center V2:
    - Remote control of I/O devices from GV IP devices
    - Unlimited log retention time
    - Colorful Mode to enhance video color
    - Assigning a DVR client to another Center V2
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- New features to VSM:
    - Remote control of I/O devices from GV IP devices
    - Unlimited log retention time
    - Automatic insertion of ID and Name to SMS messages
    - Support for new alert events, including Crowd Detection, Advanced Scene Change Detection, Advanced Unattended Detection and Advanced Missing Object Detection
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- New features to VSM:
    - Unlimited log retention time
    - Colorful Mode to enhance video color
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- New features to Control Center:
    - Support for new event settings in VMD, including Crowd Detection, Advanced Scene Change Detection, Advanced Unattended Detection and Advanced Missing Object Detection
    - Colorful Mode to enhance video color
    - GV-Keyboard support in Matrix
    - QView in Matrix for channel display on another monitor
    - Remote control of I/O devices from GV IP devices
    - Pop-up live view upon input triggers in I/O Central Panel
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- New applications:
    - [GV-GIS](#) (Geographic Information System)
    - Multicast
    - Audio Broadcast
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- New applications:
    - GV-I/O Box 4 Ports
    - GV-I/O Box 8 Ports
    - GV-I/O Box 16 Ports

## FULL FEATURE LIST

### ▶ Monitoring

- Support for 32 channels in GV-System and CMS applications
- Support for two GV Video Capture Cards in GV-System (\*)
- 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 (\*)
- Codecs: Geo H264, Geo MPEG4 ASP, Geo H264 V2 (\*)
- Multithreading Encoding (\*)
- Higher Screen Resolutions (1920 x 1200, 1680 x 1050, 1600 x 1200, 1280 x 800, 1440 x 900 and 1920 x 1080)
- Noise Tolerance for Motion Detection
- Noise Detection to Reduce File Size (\*)
- Noise Filter to Filter Out Video and Audio Noise (\*)
- 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 (\*)
- 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 (\*)
- Authentication Server
- Colorful Mode to enhance video color

### ▶ Intelligent Recording & PlaybackMonitoring

- Choice of recording at 30, 60, 120, 240, 480 and 960 fps(\*)
- 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 XP / Server 2003 burning software
- Pre-Recording Using HDD (\*)
- Advanced Round-The-Clock Recording (\*)
- Video lost detection
- 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

### ▶ Audio

- 32 channels of live audio streaming and recording

### ▶ Video Analytics

- Enhanced 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 (\*\*)
- Panorama View(\*\*)
- Video Stabilization(\*\*)
- Defog Function(\*\*)
- Crowd Detection(\*\*)
- Object tracking and zooming by PTZ domes (\*)
- Single PTZ Tracking (\*)

**Note:** The feature with (\*\*) mark needs to work with an AVP dongle which you need to purchase additionally.

### ▶ Notification

- E-mail notification with attached video images on motion and alarm activation
- SMS alerts available in Main System, Center V2 and Vital Sign Monitor

- E-mail or telephone notification on video lost or I/O error
- Directs PTZ dome to a preset location on motion and alarm activation
- ▶ **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
  - Synchronized audio and video for both live and playback modes
- ▶ **WebCam - Remote Surveillance**
  - POS Live View via IE Browser
  - 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
  - Restricting Power User and User to Access WebCam Server at Specified Time Length
- ▶ **Advanced I/O Control**
  - Visual Automation
  - Virtual I/O Control
  - One-Click I/O Status Control
- ▶ **Mobile Phone Application**
  - Support 4, 9, and 16 screen divisions
  - PTZ control via directional buttons
- ▶ **Profile Management**
  - Selectable GUI Skin
  - Custom Start-Up Splash Screen, Non-Active Video & Video Lost Screen
- ▶ **Remote Monitoring Software**
  - WebCam
  - Remote Playback System
  - G-View for WinCE PDA
- ▶ **IT Technology**
  - RSA Network Security
- ▶ **Central Monitoring Station (CMS)**
  - Center V2
  - Vital Sign Monitor
  - Dispatch Server
- ▶ **Integration Solution**
  - Point-Of-Sale
  - EAS Integration
  - Access Control
- Alarms on objects that pass between predefined regions
- 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)
- Backup, save AVI and BMP functions accessible in LAN ViewLog
- Automatic refresh of the video event list in LAN ViewLog
- 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
- Channel switch via middle button
- Support for Nokia S60 3rd Edition
- Customizing System Features
- Easy Configuration Backup & Restore
- Custom DVR Setting's Template
- I-Mode
- BlackBerry phones
- Authentication Server: central control of password settings in local GV-DVRs
- Control Center
- GV-GIS (Geographic Information System)
- Megapixel Integration
- Licence Plate Recognition
- Central Monitoring Station

**VERSION 8.3 GV-DVR SPECIFICATIONS**

Model	GV-600	GV-650	GV-800	GV-1008	GV-1120A	GV-1240A	GV-1480A	GV-4008		
Video Input	1,2,4,6,8,10,12,14,16	4,8,12,16	4,8,12,16	8	8,12,16	8,16	16	8		
Audio Input	1	2	4	8	8,12,16	8,16	16	8		
TV Output	No	No	No	1	1	1	1	1		
Recording Rate	CIF	NTSC	30 fps	60 fps	120 fps	240 fps	120 fps	240 fps	480 fps	-
		PAL	25 fps	50 fps	100 fps	200 fps	100 fps	200 fps	400 fps	-
	D1	NTSC	15 fps	30 fps	60 fps	240 fps	80 fps	120 fps	240 fps	240 fps
		PAL	12.5 fps	25 fps	50 fps	200 fps	72 fps	100 fps	200 fps	200 fps
Display Rate	CIF	NTSC	30 fps	60 fps	120 fps	240 fps	480 fps	480 fps	480 fps	-
		PAL	25 fps	50 fps	100 fps	200 fps	400 fps	400 fps	400 fps	-
	D1	NTSC	15 fps	30 fps	60 fps	240 fps	480 fps	480 fps	480 fps	240 fps
		PAL	12.5 fps	25 fps	50 fps	200 fps	400 fps	400 fps	400 fps	200 fps
Input Type	BNC : BNC x 4 D-Type : DB15 x 2			DB15 x 1 (Video) DB9 x 1 (Audio)	DB15 x 2 (Video) DB9 x 2 (Audio)		DVI x 2 (Video & Audio)			
Dimension (W X H)	144x89 (mm) / 5.67x3.5(in)	144x98 (mm) / 5.67x3.86(in)	BNC: 152x94 (mm) / 5.98x3.7 (in) D-Type: 174x98 (mm) / 6.85x3.86 (in)	187.7 x 117.1 (mm) / 7.38 x 4.61 (in)		169x110 (mm) / 6.65x4.33 (in)				
Video Compression	Geo MPEG4, Geo MPEG4 (ASP), Geo H264, Geo H264 V2							HW H.264		
Compression Rate	Variable, 300: 1 Maximum									
Video Resolution	D1, Half D1, CIF Resolution									
Video Signal Type	NTSC, PAL									
PTZ Control Protocol Support	<ul style="list-style-type: none"> <li>• Ademco (Juptier)</li> <li>• Bosch (TC 700 / TC 8560)</li> <li>• Canon (VC-C3 / VC-C4)</li> <li>• CBC GANZ (ZC-S120 Series)</li> <li>• Chiper (V9KRV)</li> <li>• D-Max</li> <li>• DiGi Dome (DOH-240)</li> <li>• Direct Perception (PTU-D46)</li> <li>• DynaColor (D-7720 / D-7722)</li> <li>• Elitar (EL-PT830)</li> <li>• Elbex (Matrix / 1000)</li> <li>• EverFocus (EPTZ 1000 / 500)</li> <li>• GKB (SPD-221)</li> <li>• Hi-Sharp (HS-CC600 / HS-CC610)</li> <li>• JEC (ETXK8000)</li> <li>• JVC (TK-S576B / S655 / TK-C686E)</li> <li>• Kalatel Cyber Dome with KTD-312</li> <li>• Kampro 230X CCD Zoom Camera (GE Security)</li> <li>• Kampro Technology (K-ZC23)</li> <li>• Kenko (DMP23-H1)</li> <li>• Lilin PIH-7000 (17X) / PIH-7600 (22X) / PIH-7625 / PIH-7600PL / PIH-7625 (25X) / PIH-820</li> <li>• LG (LPT-OS553HQ)</li> <li>• Mintron (54G2AHN / P)</li> </ul>				<ul style="list-style-type: none"> <li>• MZC (IR6018DN)</li> <li>• Minking Messoa (SDS600 Series / D-700 series)</li> <li>• NanWang (NVD 2300PNT) / V4.1 (NVD 2300PNT)</li> <li>• Panasonic (WV-CS850 / CS854)</li> <li>• Pelco (P / D / Spectra III / Spetra Mini Dome SD4-WO)</li> <li>• Pishion (22X / VCC5i)</li> <li>• PTZ in I/O</li> <li>• SAE (DR-E588)</li> <li>• Samsung (SPD-1600 / SPD-3300 / SCC-641 / SCC-643 / SPD-33000)</li> <li>• Sensormatic (Ultra IV)</li> <li>• Sony (EVI-D100 / D100T)</li> <li>• TOA (CC551)</li> <li>• VIDO (Dome / G65)</li> <li>• YAAN</li> <li>• YOKO (YK-2E00)</li> <li>• 360 Vision ViD-18COP04 (Pelco P)</li> <li>• COP 15-CD53W (Pelco D)</li> <li>• Elmo PTC-200C, Elmo PTC-400C, Elmo PTC-1000,</li> <li>• Eyeview T-Power (T2-SA27)</li> <li>• JVC TK-C686E</li> <li>• StorVision</li> </ul>					
Networking	TCP / IP, LAN, WAN, Internet, Modem Dial-up, Modem-to-Modem, ISDN									
Backup Device	HDD, NAS, CD-R / R-W, DVD+R / +RW, DVD+R (DL), ZIP, JAZ, Blu-ray									
Operating System	Windows 2000, Windows XP, Windows Server 2003, Windows Vista									
Language	Czech / Danish / English / French / German / Hebrew / Hungarian / Italian / Japanese / Polish / Portuguese / Russian / Serbian / Simplified Chinese / Spanish / Traditional Chinese									