



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 V8.4 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 fulfil various clients' particular security surveillance requirements. CCTV Ireland have sold GeoVision-based recorders for the past ten years, so we are experts in the field. Why go anywhere else?



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-optimised 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 8.4 NEW FEATURES

- Main System:
 - Support for GV-FE110 fisheye camera and ImmerVision IMV1 Panomorph lens
 - Video compacting by keeping key frames only
 - Schedule centre for compacting video, merging video, and fast backup and restore
 - Face count function
 - Compatibility with IP devices using ONVIF/PSIA standards
 - On demand display to automatically adjust live view resolution for dual-stream video
 - Economic mode to customize recording frame rate for IP devices
 - Listing tampering alarm events from GV-IP devices in system log
 - Round-the-clock audio recording
 - Support for AMR and AAC audio codec
 - Support for new PTZ cameras: VDI CT-58SPD, Bosch G3 and COP 15-CD55TW Pelco D
 - Support for new GeoVision IP cameras: GV-BL110D, GV-BX120D, GV-BX220D, GV-BX320D, GV-FE110, GV-PT110D and GV-PTZ010D
 - Support for more ACTi IP cameras: CAM-6610N, TCD-2500, TCM-1511, TCM-3511 and TCM-5611
 - Support for more Axis IP cameras: M1011, M3011, M3014, P1311, P1343, P1344, P1346, P3343, P3344, P5534 and Q1755
 - Support for more Canon IP cameras: VB-C500D and VB-C60B
 - Support for more CNB IP cameras: IVP4030VR KC1 and INS2000 KC1
 - Support for more D-Link IP cameras: DCS-3415, DCS-5230, DCS-6110 and DCS-3411
 - Support for more EtroVision IP cameras: EV6150A, EV6151A, EV6250A and EV8150A
 - Support for more MOBOTIX IP cameras: D12 and Q24
 - Support for Panasonic BB-HCM715
 - Support for more Pelco IP cameras: IXS0C and IXE20C
 - Support for more Sanyo IP cameras: VCC-HD2100P and VCC-HD2300P
 - Support for more Sony IP cameras: SNC-DH140, SNC-RH124 and SNT-EX104
 - Support for UDP NVC1000
 - Support for Vivotek IP cameras: FD7131, FD7132, FD7141, FD8161, FD8361, IP7130, IP7133, IP7137, IP7160, IP7330, IP8330, IP8332, IZ7151, PZ7122, SD7313 and SD7323
- ViewLog
 - Bookmark function
- Center V2
 - Event Chart
 - Display of Wiegand cardholder data from the GV-System
 - Playback using Remote ViewLog
 - QView for channel display on another monitor
- Dispatch Server
 - Event Chart
 - Playback using Remote ViewLog
- VSM
 - Event Chart
 - Up to 5 connections to VSM centres from one GV-System
- Control Centre
 - Up to 2 monitors supported for VMD event pop-up
 - Audio broadcasting

- GIS
 - Input-triggered live view on mobile hosts
- Accessory
 - GV-Keyboard V3

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, 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
- Colourful Mode to enhance video colour

▶ **Intelligent Recording & Playback**

- 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 (*)
- 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 (*)
- Digital Object Tracking
- Face Count

▶ **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
 - 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
- ▶ **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
 - SMS alerts available in Main System, Center V2 and Vital Sign Monitor
 - Alarms on objects that pass between predefined regions
- ▶ **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
 - 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
- ▶ **Advanced I/O Control**
- Visual Automation
 - Virtual I/O Control
 - One-Click I/O Status Control
 - Multiple I/O Types Selection
 - Latch Trigger Feature
- ▶ **Mobile Phone Application**
- Support 4, 9, and 16 screen divisions
 - PTZ control via directional buttons
 - Channel switch via middle button
 - Support for Nokia S60 3rd Edition
- ▶ **Profile Management**
- Selectable GUI Skin
 - Custom Start-Up Splash Screen, Non-Active Video & Video Lost Screen
 - Customizing System Features

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

▶ **Remote Monitoring Software**

- WebCam
- Remote Playback System
- G-View for WinCE PDA
- I-Mode
- BlackBerry phones

▶ **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
- Control Centre
- GV-GIS (Geographic Information System)

▶ **Integration Solution**

- Point-Of-Sale
- EAS Integration
- Access Control
- Megapixel Integration
- Licence Plate Recognition
- Central Monitoring Station

Note: (*) Not supported by GV-NVR

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

VERSION 8.4 GV-DVR Specifications

DVR (Supports 2 cards up to 32 channels)										
		GV-600A	GV-650A	GV-800A	GV-1008	GV-1120A	GV-1240A	GV-1480A	GV-3008	GV-4008
Input Type		BNC / D-Type	D-Type	BNC / D-Type	D-Type / DVI Type				DB15	DVI
Video Input		32(Max)		16,20,24,28,32	16	16,20,24,28,32	16,24,32	32	16	16
Audio Input		2	4	8	16	16,20,24,28,32	16,24,32	32	16	16
Recording Rate	CIF	NTSC	60 fps	120 fps	240 fps	480 fps	240 fps	480 fps	960 fps	-
		PAL	50	100	200 fps	400	200 fps	400 fps	800	-

			fps	fps		fps			fps		
	D1	NTSC	30 fps	60 fps	120 fps	480 fps	160 fps	240 fps	480 fps	480 fps	480 fps
		PAL	25 fps	50 fps	100 fps	400 fps	144 fps	200 fps	400 fps	400 fps	400 fps
Display Rate	CIF	NTSC	60 fps	120 fps	240 fps	480 fps	960 fps	960 fps	960 fps	-	-
		PAL	50 fps	100 fps	200 fps	400 fps	800 fps	800 fps	800 fps	-	-
	D1	NTSC	30 fps	60 fps	120 fps	480 fps	960 fps	960 fps	960 fps	480 fps	480 fps
		PAL	25 fps	50 fps	100 fps	400 fps	800 fps	800 fps	800 fps	400 fps	400 fps
Video Resolution	NTSC	704 x 480, 704 x 480 De-interlace, 640 x 480, 640 x 480 De-interlace, 352 x 240, 320 x 240								H/W: 704 x 480	
	PAL	704 x 576, 704 x 576 De-interlace, 640 x 480, 640 x 480 De-interlace, 352 x 288, 320 x 240								H/W: 704 x 576	S/W: 352 x 240
Video Codec	Geo MPEG4, Geo H264, Geo H264 V2								H/W: H.264	S/W: Geo MPEG4, Geo H264, Geo H264 V2	
Audio Codec	ADPCM								G.711	ADPCM	
TV Output	No	No	No	1	1	1	1	No	No		
Networking	TCP / IP, LAN, WAN, Internet, Modem Dial-up, Modem-to-Modem, ISDN										
PTZ Control Protocol Support	PTZ Control Protocol Support										
Backup Device	HDD, NAS, CD-R / R-W, DVD+R / +RW, DVD+R (DL), ZIP, JAZ, Blu-ray, GV-Storage System										
Mobile Phone / PDA	Symbian S60 (2.X~3.X), Windows Mobile (5.0~6.1), Blackberry (4.2.1~4.7), iPhone (2.2~3.1)										
Language	Czech / Danish / English / French / German / Hebrew / Hungarian / Italian / Japanese / Polish / Portuguese / Russian / Serbian / Simplified Chinese / Spanish / Traditional Chinese										