



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 V8.5 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.

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VERSION 8.5 NEW FEATURES

Main System:

- Support for new GV-Video Capture Cards: GV-600B, GV-650B, GV-800B, GV-900A and GV-4008A
- Support for GPU decoding
- AAC 16 kHz / 16 bit audio codec
- o Object tracking in fisheye view
- Support for recording in standard type of H.264, MPEG4 and JPEG codec
- o Live view buffer and frame rate control
- Wide Angle Lens Dewarping
- Support for new GeoVision IP devices: GV-BL120D, GV-BL130D, GV-BL220D, GV-BL320D, GV-BX120DW, GV-BX130D, GV-BX520D, GV-CB120, GV-CB220, GV-FD120D, GV-FD130D, GV-FD220D, GV-FD320D, GV-FE420 / 421, GV-FE520 / 521, GV-MFD120, GV-MFD130, GV-MFD220, GV-MFD320, GV-MFD520, GV-VD120D, GV-VD220D, GV-VD320D, GV-Compact DVR V3 (4CH), GV-Compact DVR V3 (8CH) and GV-VS04H

- o Support for ACTi TCM-7811
- Support for more Arecont Vision IP cameras: AV10005, AV2825, AV1325, AV5125DN, AV5115, AV3115 and AV3125
- Support for more AXIS IP cameras: M3113 and P5532
- Support for more D-Link IP cameras: DCS-2102, DCS-3410 and DCS-3430
- Support for HUNT IP cameras: HLC-15M, HLC-81M and HLC-84M
- Support for more Pelco IP cameras: D5118, IM10C10 and IX10DN
- o Support for Samsung SNB-3000
- Support for Sony SNC-CH120
- Support for TAKEX IP cameras (only for Japan market): NCC-130P, NBC-130P and NSC-130

• ViewLog / Single Player

 Support for saving dewarped fisheye view in AVI format Wide Angle Lens Dewarping

Authentication Server

Support for Windows Active Directory

Control Center

 Multiple Screen with which a video wall can be established

GIS

 Three recording modes available for Mobile Hosts: manual recording, record by event and record upon input trigger User-defined storage groups and recycle settings

New Application

Mobile Server for accessing GV-System using RTSP protocols

Improved:

• Main System:

- Enhanced H.264 decoding and support for GPU decoding
- Support for configuration change without stopping recording
- Added display ratio adjustment for fisheye view
- Support for connection with POS devices using OPOS and TCP/IP protocol
- Added advanced video attributes adjustment for GV-IP cameras
- Automatic setup of IP devices within an IP range

- o Support for PTZ functions through ONVIF
- Added environmental change filter to reduce false alarm in Advanced Motion Detection
- o Added sensitivity adjustment in Face Detection
- Added noise tolerance adjustment in Object Index and Face Detection
- Added snapshot frequency for Video Snapshot
- Support for dual stream in GV-IP Speed Dome
- Added auto iris to PTZ control panel for GV-IP Speed
 Dome

ViewLog

- Enhanced multi-channel playback to provide higher frame rates
- Added Direct Merge to save videos in AVI format at a faster speed
- Added face mask function to detect and blur human faces for privacy purposes
- o Support for backup to blu-ray disc using OS-burning
- Display of average vehicle speed when playing back video recorded by GV-Compact DVR V3

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Center V2

- Quick insertion of subscriber name and ID to e-mail and SMS notification messages
- Event category tabs on the main window (only for Proversion)
- A configurable category tab on the main window, showing the events customized for the tab (only for Pro version)
- Alert level feature with which events of different alert levels are distinguished by color (only for Pro version)
- Support for GV-I/O Boxes of Ethernet module connected to the Center V2 Server through the network

- Image size adjustment on the EZ player window with which source images can be adjusted to fit the EZ player window
- Support for Storage Group, and variable recycle size which increases when the number of connected channels increases
- Wide Angle Lens Dewarping for correcting image distortion

Dispatch Server

- Manual dispatch of subscribers to any online Center
 V2 Servers
- Support for automatic distribution of a subscriber to a user-defined Center V2 Server whenever this server is online

Dispatch Server

- Device tree, showing subscribers, their devices and status on the main window
- A configurable category tab on the main window, showing the events customized for the tab
- Alert level feature with which events of different alert levels are distinguished by color on the main window
- Temperature alarm to notify the operator when the subscriber (most GV-IP Cameras and GV-System with GV-3008 Card) has reached or exceeded the specified temperature
- Notification messages for a lost or undetectable device, recycling of GV-System recordings, login change of GV-System subscribers, and POS connection status

VSM

- Device tree, showing subscribers, their devices and status on the main window
- A configurable category tab on the main window, showing the events customized for the tab
- Alert level feature with which events of different alert levels are distinguished by color on the main window
- Temperature alarm to notify the operator when the subscriber (most GV-IP Cameras and GV-System with GV-3008 Card) has reached or exceeded the specified temperature
- Notification messages for a lost or undetectable device, recycling of GV-System recordings, login change of GV-System subscribers, and POS connection status

Control Center

- Live view display on VMD window when an input is triggered and/or a specified temperature is reached or exceeded
- Wide Angle Lens Dewarping for correcting image distortion
- Search feature which queries for the events occurred at DVR hosts under the criteria defined
- User-configurable monitor display position for each matrix

Backup Server

 Recycle settings for Backup Server independent from those for GV-System

iPod / iPad Application

 GV-Eye HD V1.0 and GV-Eye now supports 1.3 megapixel live view

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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
- Multithreading Encoding (*)
- 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 (*)
- 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
- 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 / Vista / 7 / Server 2008 burning software
 - Pre-Recording Using HDD (*)
- 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 (**)
 - Note: The feature with (**) mark needs to work with an AVP dongle which you need to purchase additionally.

- Video de-interlace filter
- E-map
- Windows lockup
- Image size indicator
- Synchronized video an 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
- 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
- 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 (**)
- Title dongle which you need to parenase additionally.

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

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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

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

- 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

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

- 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)
- 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
- 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
- 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 8.5 GV-DVR SPECIFICATIONS

			GV-600 A	GV-650 A	GV-800 A	GV-600 B	GV-650 B	GV-800 B	GV-900 A	GV-1008	GV-1120 A	GV-1240 A	GV-1480 A	GV-4008
Interface			PCI											
Input Type			BNC, D-Type	D-Type	BNC, D-Type	DVI				D-Type, DVI				DVI
Video Input			1, 2, 4, 6, 8, 10, 12, 14, 16	4, 8, 12, 16		4, 8, 16			8, 16, 32	8	8, 12, 16	8, 16	16	8
Audio Input			1	2	4				8		8,12,16	8,16	16	8
Recording Rate	CIF	NTSC	30 fps	60 fps	120 fps	30 fps	60 fps	120 fps	240 fps	240 fps	120 fps	240 fps	480 fps	-
		PAL	25 fps	50 fps	100 fps	25 fps	50 fps	100 fps	200 fps	200 fps	100 fps	200 fps	400 fps	-
	D1	NTSC	15 fps	30 fps	60 fps	15 fps	30 fps	60 fps	120 fps	240 fps	80 fps	120 fps	240 fps	240 fps
		PAL	12.5 fps	25 fps	50 fps	12.5 fps	25 fps	50 fps	100 fps	200 fps	72 fps	100 fps	200 fps	200 fps
Display Rate	CIF	NTSC	30 fps	60 fps	120 fps	30 fps	60 fps	120 fps	240 fps	240 fps	480 fps	480 fps	480 fps	-
		PAL	25 fps	50 fps	100 fps	25 fps	50 fps	100 fps	200 fps	200 fps	400 fps	400 fps	400 fps	-
	D1	NTSC	15 fps	30 fps	60 fps	15 fps	30 fps	60 fps	120 fps	240 fps	480 fps	480 fps	480 fps	240 fps
		PAL	12.5 fps	25 fps	50 fps	12.5 fps	25 fps	50 fps	100 fps	200 fps	400 fps	400 fps	400 fps	200 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 S/W: 352 x 240
														H/W: 704 x 576
		PAL	704 x 576	704 x 576, 704 x 576 De-interlace, 640 x 480,640 x 480 De-interlace, 352 x 288, 320 x 240										
Video Codec			Geo MPE	Geo MPEG4, Geo H264										
Audio Codec			AAC (16kHz / 16 bit)											
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			Italian /Ja	Arabic / Bulgarian / Czech / Danish / Dutch / English / Finnish / French / German / Greek / Hebrew / Hungarian / Indo Italian / Japanese / Lithuanian / Norwegian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Simplified / Slovakian / Slovenian / Spanish / Swedish / Thai / Traditional Chinese / Turkish										

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