Contents

GV-DVR/NVR Version History

Version 8.7.1.0 2016-09-22

Fixed:

- Display of a system running error message when trying to use Windows 7 (without SP1) or earlier versions of Windows

- Inability to reset the GV-5016's frame rate to its default value when the birate is reduced
- Possibility of a motion event not being recorded
- Inability for the Advanced Log Browser to display the filter results of POS events
- Crashing of the Advanced Log Browser when switching between the POS table and other tables
- Crashing of the Quick Search application after right-clicking its window to open the menu

Note: GV-System has ended support for Windows XP and Vista.

Version 8.7.0.0 2016-07-15

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

Fixed:

- ➢ Main System

  - Occasional problem with playing back some channels due to excessive memory usage
  - Possible failure for internal dongle to perform hardware watchdog upon OS crash
  - Possible failure to apply software dongle after cold booting the computer
  - Problem with retrieving log data using Advanced Log Browser after modifying the
  - default log path in System Log Setting
  - Possibility of motion event not being recorded under motion recording mode when the frame rate is lower than 1 frame per second
  - Failure to send complete e-mail alert notification in Traditional Chinese, Simplified Chinese and Japanese versions of GV-System
  - Possible GV-System instability when connected to GV-VS14
  - Problem with connecting to Hikvision DS-2CD2342WD-I and DS-2CD2142FWD-IS via ONVIF protocol
  - Occasional GV-System instability when connected to devices via ONVIF protocol
  - Problem with the zoom function of GV-SD200 and ONVIF devices
  - Inability for AXIS 232D to zoom in/out all the way

- ➢ ViewLog

  - Inability for ViewLog and Remote ViewLog to function properly when panel resolution is set larger than PC screen resolution
  - Inability for ViewLog to respond when any eventless channel of multiple screen divisions is selected
  - Abnormal video footages exported using the function of Save as AVI in ViewLog and Remote ViewLog
  - Blank OSD menu when accessing ViewLog using GV-Keyboard, resulting in inability to

operate ViewLog related functions

- Crashing of ViewLog player included in backup files when playing back multiple channels using Windows XP operating system
- Failure to perform Wide Angle Lens Dewarping even though it is enabled on the user interface of Remote ViewLog

➢ Utility and Remote Applications

- Possible GV-System instability when a connected GV-Control Center repeatedly switches the live view screen division
- GV-Control Center's inability to play live view at normal speed and receive motion events when GV-System loses connections to a camera over a prolonged period of time
- Intermittent sound loss when users connect to GV-System with audio format set to 32 kHz, via GV-Eye
- Intermittent sound loss when users connect to GV-System with audio format set to 32 kHz, via GV-Eye
- Occasional loss of files when GV-System sends files to GV-Backup Center
- Problem that when GV-System fails to connect to GV-Redundant / Failover Server, its continuous reconnection will ultimately exhaust network resources

Improved:

- Support for TLS v1.2
- New account privilege settings for POS related functions
- Support for Skype V7.25.56.106 by GV-Skype Video Utility V1.4

Version 8.6.2.0 2015-06-23

New:

- Support for pinhole camera GV-UNP2500

Fixed:

- DLL issue which may cause database corruption or the failure of audio recording
- Incorrect format for e-mail alert when the WebCam server is enabled
- Image freeze after you start monitoring with Video Lowpass enabled and in the resolution of 640 x 480 or 704 x 480 / 705 x 576
- Inability to access live view after connecting to Panasonic WV-SC385 thought ONVIF
- Problem with connecting to Dahua DH-SD65-HN series through ONVIF
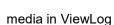
Version 8.6.0.0 2015-04-10

New:

- Support for Arecont Vision AV12186DN and AV40185DN

- Support for saving captured faces as JPEG format in Face Detection

- Support for compacting recorded videos before backing up to GV-Backup Center

Fixed:

- Problem with adding or operating the following third-party IP cameras through ONVIF

  - ACESEE ADT45P Series
  - CCTV Discover (NVS-365-V01)
  - Afreey ANC-808PMB
  - Panasonic WV-SC385

- Failure to send alert notification during scheduled recording in all channels, when channel 16 or 32 is not selected in the Setup Schedule page

- Failure to automatically resume connection with POS Text Sender after GV-System restarts in Windows Embedded Standard 7 (with Autorun when Windows starts function enabled in POS Text Sender)

- Failure to apply settings previously modified in Intrusion Alarm after GV-System restarts if the Counter function is not set

- Problem with Repairlog500.exe after clicking "Search Hard Disk" to search for stored recordings

- Interlaced live view when using VGA resolution and GV-Capture Cards

- Green screen when using GV-1480B / 1240B / 1120B Combo Cards if Quad Enhanced layout is enabled and de-interlace function is disabled

- Inability to use panorama view when accessing GV-System through Remote ViewLog

- Occasional freeze problem in Remote ViewLog after playing back video in real time with audio function enabled for a prolonged period of time

- Failure to record under motion recording mode if a maximum recording frame rate for motion is set in Economic Mode

- GV-System instability when a CD-ROM drive without burning function is set as the backup

media in ViewLog

- Occasional ViewLog freeze after playing back video files with audio data continuously for a prolonged period of time

- Remote ViewLog failure if connecting to device with domain name that exceeds 36 characters

- GV-System instability when connecting to GV-IP Cameras using firmware V1.07

- Occasional ViewLog problem when merging too many files using Save as Avi function

- Inability to display dewarped fisheye live view in angle previously defined by users after restarting GV-System if the camera resolution is set to 3 MP

- Inability to enable PTZ control after connecting to Pelco Spectra IV BB4E-PG-E

- Incorrectly allowing access to audio data in ViewLog when using user accounts without access rights to audio data

- Occasional Webcam problem when multiple mobile devices are connecting to the GV-System through GV-AView or GV-iView

- Occasional GV-System instability when Webcam Server is enabled and a camera repetitively disconnects and re-connects

- Failure to record motion after assigning a different camera to the channel when Day-Night Recording and Economic Mode are enabled

Improved:

- Support for displaying GV-System with up to 6 monitors using DMPOS.exe

- Maximum number of storage groups increased from 16 to 24

- Option added to allow setting the panel resolution of Remote ViewLog

- Maximum number of channels supported for Object Counting and Intrusion Alarm increased from 16 to 32 channels

- Improved image quality for de-interlaced video and improved video attributes when using GV-1480B / 1240B / 1120B Combo Cards

Changed:

- Minimum recycle threshold changed to 32 GB

Version 8.5.9.0 2014-01-28

New:

- ➢ Main System

  - Support for GV-Joystick V2
  - Support for the new POS device Infogenesis
  - Support for IP cameras

    – GeoVision GV-BL2500/2510, GV-BX2500, GV-FD2500/2510, GV-MFD2501, GV-VD1530/1540/2430/2440/2500/2530/2540/3430/3440/5340, GV-UBL2511, GV-EBX1100, GV-EBL1100 and GV-EFD1100

    – Avigilon 1.0-H3M-DO1 (through ONVIF)

- ➢ Webcam Server

  - Support for Internet Explorer 11

- ➢ VMS

  - Support for GV-Recording Server (version 1.2.3 and later)

Fixed:

- ➢ Main System

  - Recording failure when a recording schedule is enabled within one minute before the scheduled time for recording
  - Ineffective recording schedule (for Russian version only)
  - Automatic restart of GV-System when dewarping is enabled on a connected GV-FE110/111 (for Windows XP only)
  - Unrecognizable characters on "Change Code" function of an IP device on the IP Device Setup window (for Russian version only)

- ➢ Webcam Server

  - Possible failure of WebCam Server when PCI DSS v. 2.0 is used
  - Sharp increase of GV-DVR/NVR's CPU loading when the audio function and WebCam server are enabled

- ➢ DMMultiview

  - Transfer failure of audio data when the audio function is enabled for more than 10 channels

- ➢ ViewLog

  - Blurry image and incorrect display size when a smaller channel is switched to a larger channel in Multi View mode
  - Possible failure when the "Auto play next event" option is enabled for play settings and a unfinished segment (recording) is being played back
  - Failure of receiving more than 32 recordings from GV-Recording Server when the "Reload Database" function is enabled
  - Playback not smooth when GV-1120B or GV-1240B receives less than 16 channels

- ➢ GV-IP Device Utility

  - Unrecognizable characters on the Change Device Name field during configuration (Russian version only)

- ➢ GV-SDCardSync

  - Accumulated load to system RAM when GV-SDCardSync is executed over a period of time

- ➢ Dispatch Server

  - System malfunctions when a connected Center V2 server is closed
  - Possible login failure of a Center V2 server when it resumes back to network and a large number of Center V2 clients are connected to the Dispatch Server
  - Possible startup delay over 5 minutes when a large number of subscribers are created
  - Frozen main screen when a large number of subscribers are connected to the GeoVision Inc. 3 Revision Date: 1/28/2014 Dispatch Server
  - Failure of importing and exporting the address book to its Center V2 servers

- ➢ GV-Backup Center

  - Disconnection with GV-System when a file, which has not finished recording on GV-System, is being transferred to GV-Backup Center

- ➢ GV-Backup Server

  - Failure of GV-Backup Server to automatically log in when it is set to automatically start up

from GV-System

➢ Others

- Detection failure of a GV-Keyboard when its USB connector is re-plugged to the computer (for mcamctrl.exe)

Improved:

➢ Main System

- Single View display for GV-Fisheye Cameras where the undewarpped view on the bottom-right corner can be hidden
- Sharpness of live view (for users of GV-Combo B cards only)

➢ ViewLog

- Resolution options for storing dewarpped fisheye view where 1280 x 720 and 1920 x 1080 options are added

Changed:

➢ POS Text Sender

- Automatic connection to GV-System when the "Autorun when Windows starts" function is enabled

Version 8.5.8.0 2013-10-07

New:

- ➢ Support for Intel Haswell CPU for GPU decoding
- ➢ Support for Geovision GV-BX1500 Series, GV-MFD1501, GV-BL1500, GV-BL1510, GV-VD1500, GV-FD1500, GV-FD1510, GV-UBL1511

Fixed:

- ➢ Main System

  - System error when connecting to Canon VB-C60 with firmware version V1.03
  - Recording of non-motion periods under Motion recording mode, when Pre-recording function is enabled and when using hardware compression cards or GV-NVR System
  - Incorrect display of password hint in Japanese characters using Japanese operating system
  - E-mail alert of motion detection incorrectly enabled when motion alert is enabled in Recording Schedule but not enabled in Camera Configure setting page
  - Occasional system instability when connecting to IP devices with video capture cards installed and with numerous video analytic functions enabled
  - Failure to assign analog pan / tilt heads to IP camera channels
  - Transmitting CIF resolution video to mobile devices when the resolution received from the connected IP device is VGA
  - Noise in audio received from IP devices
  - POS system instability when using OPOS protocol and POS Text Sender
  - Incorrect recording mode or failure to record when a recording schedule with two types of recording modes (Round-the-Clock and Motion) is enabled using the F8 shortcut key
  - Inability to obtain images when connecting to Vivotek IP7137
  - Occasional search error when searching for IP devices in certain network environment using the Scan function in Main System and GV-IP Device Utility

- ➢ ViewLog

  - Inability to create more than one group in Address Book
  - Problems with backing up video files with Single Player
  - Occasional black screen or incorrect display after switching channels under 10-screen divisions
  - UI freeze issue under Single View mode that occurs when the panel resolution exceeds 1280 x 1024, the video is zoomed in, and another recorded event is selected
  - Audio gaps for about 0.5 seconds that occur between recorded audio clips when playing

back video continuously

> Other Applications

- Inability for DDNS clients to obtain global IP address when connecting through 2 routers

Changed:

> Main System

- Defining detection zones by drawing rectangular areas instead of drawing a line in Object Counting and Intrusion Alarm
- Extend recording length beyond maximum video clip size during motion recording in order to begin each recorded clip with a key frame, which can avoid gap between video clips due to GOP setting of the IP device

Version 8.5.7.0 2013-06-10

New:

- Support for Windows 8 (32 and 64-bit) and Server 2012 (64-bit)
- Digital PTZ for cameras without physical PTZ functions
- PIP function for dewarped fisheye view under Single View Mode
- Support for video settings and dual streaming of cameras connected through ONVIF
- Support for postponing the live view decoding time to improve video smoothness
- Set Language tool to manually set GeoVision software and applications to English
- Support for GV-3D People Counter in GV-IP Device Utility
- Support for Geovision GV-FE2301, GV-FE4301, GV-BL1200, GV-BL1300, GV-BL1210, GV-BL2410, GV-BL3410, GV-BL5310, GV-BL2400, GV-BL3400, GV-FD1200, GV-FD2400, GV-FD3400, GV-FD5300, GV-FD1210, GV-FD2410, GV-FD3410, GV-MFD2401, GV-MFD3401, GV-MFD5301, GV-PT130D, GV-PT220D, GV-PT320D, GV-UBX1301 Series, GV-UBX2301 Series, GV-UBX3301 Series, GV-UBL1211, GV-UBL2411, GV-UBL3411, GV-UBL1301 Series, GV-UBL2401 Series, GV-UBL3401 Series, GV-VD2400, GV-VD3400, GV-VD5300, GV-VD1210, GV-VD2410, GV-VD3410
- Support for AXIS IP cameras Q6035-E
- Support for AXIS IP cameras: M3007, P3354, P3364, Q1604 through ONVIF connection
- Support for Bosch NBN-921-P through ONVIF connection
- Support for VIVOTEK IP cameras: FD8135H, FD8162, FD8372, FE8172, IP8172, IP8335H, IP8362, MD8562, SD8323E, SD8362E

Fixed:

- Main System

  - Inability to apply minimum Alert Interval under schedule monitoring when motion or I/O trigger occur continuously
  - Inability to detect the model of GV-CA120 and GV-CA220 using Auto Detect
  - Failure for GV-Skype Video Utility to support video transmission with Skype V6.0.0.126
  - Inability to display camera name, password hint and I/O device name in Japanese characters using Japanese OS
  - Inability to record audio in Geo-Audio codec to storage partition greater than 2 TB
  - Horizontally reversed text overlay upon input trigger in Hebrew

- Occasional failure to transmit POS transaction data to GV-System when file path of POS Text Sender is set to a network storage
- Inability to apply user-defined fps setting and resetting GV-SD200 to 30 fps after reconnection

➢ ViewLog

- Connecting to incorrect IP address in Remote ViewLog when some digits repeated with another IP address that has been connected before
- Inability to enter domain names that exceed 22 characters in Remote ViewLog
- Restarting playback in ViewLog and Remote ViewLog after switching screen division during event playback

➢ WebCam and Remote Applications

- Possible system restart of Center V2 or VSM server when multiple events occur
- Possible disappearance of **Geo Fisheye** (dewarping functions for GV Fisheye cameras) functions through WebCam server when two or more fisheye cameras are installed at GV-System

Improved:

➢ Main System

- Improved GPU decoding efficiency and reduced memory usage by GV-System
- Support for recording frame rate settings upon I/O trigger of analog cameras
- Maximum system idle protection time extended from 5 minutes to 4 hours
- Network Failure Detection function to trigger an output device when connection with a network host is interrupted
- Minimum duration for video lost where the output device will only be triggered if the connection lost time exceeded the specified minimum duration

➢ ViewLog

- Support for connecting GV-Recording Server, GV-Backup Server and GV-Backup Center using Remote ViewLog Service
- Automatic switch to PIP mode after zooming in when video resolution exceeds ViewLog Panel
- Support for Panorama View in Remote ViewLog

➢ WebCam and Remote Applications

- Support for notifications with pre-event and post-event recordings attachments for the following event types: Video Lost, Video Signal Resumption, Intruder, Missing Object, Unattended Object, Crowd Detection, Advanced Unattended Object, Advanced Scene Change, Advanced Missing Objection (for Center V2 and Dispatch Server)
- Notifications mechanism of GV-System for Center V2 and VSM server, which allows for notifications to be sent according to user-defined schedule without installing I/O devices to the GV-System
- Support for Multi Windows on Chrome, Safari and Firefox, with which the user can now remotely select and display up to 16 out of 32 GV-System live views
- Live view resolution on mobile devices from CIF to VGA using GV-AView V1.3.1 (for android devices) and GV-iView V2.3 (for iPhone and iPod Touch)

Version 8.5.6.1 2013-05-16

Changed:

- AVP dongle required for Object Counting and Intruder Alarm

Version 8.5.6.0 2012-11-13

New:

➢ Main System

- Support for AVP functions without USB Dongle
- Quad view and live view upon request from a remote device in GV-Skype Video Utility
- Minimum duration function for Advanced Motion Detection
- PAP and PIP function in Panorama View
- Support for 32 kHz / 16 bit audio codec in GV-NVR System, GV-5016, GV-4008, GV-4008A, GV-900A, GV-800B / 650B / 600B, GV-1480A / 1240A / 1120A Combo A and GV-1480B / 1240B / 1120B Combo B Cards
- Support for installing GV-SDI-204 with GV-5016, GV-4008 and GV-1480B / 1240B / 1120B Combo Cards
- Support for Sony IP Cameras: SNC-EP521 and SNC-ER580
- Support for Sony SNC-ZR550, SNC-ZB550, and MESSOA NCB855PRO through ONVIF connection
- Center V2 notification schedule with which notifications are only sent to Center V2 when events occur within the specified times
- VSM notification schedule with which notifications are only sent to VSM when events occur within the specified times

➢ WebCam Server

- Support for live view display, PTZ control, event query and remote playback on Chrome, Safari and Firefox
- Support for live view display, PTZ control and playback using the browser on Android devices.
- Support for live view display and PTZ control using the browser on iPhone and iPad
- Support for up to 10 full-screen remote live view display, each on a designated monitor

➢ Center V2

- Event recording length settings of Video Analytics events to Center V2

Fixed:

➢ Main System

- Problems with single camera tracking when more than one GV-SD200 is connected
- Occasional GV-System crash when multiple GV-SD200s are connected
- I/O control problems when connecting nine 16-port GV-I/O Box
- Occasional I/O error after connecting to GV-Net I/O Card through GV-800B card for a prolonged period of time
- PTZ problems when connecting more than one Canon VCC4 PTZ
- Compatibility issues with playing back videos from Mobotix IP cameras by disabling standard codec for Mobotix IP cameras
- Failure to record more than one video file from IP cameras when set to motion detection mode in Day-Night Recording Mode
- Problems with snapshot taken from Object Index function after changing screen division under H.264 codec
- Video Analysis and Advanced Video Analysis events incorrectly labeled as Motion events in SMS notifications
- Memory usage surge and GV-System crash when recording multiple channels with different recording quality under H.264 codec over a prolonged period of time
- Failure to restrict remote access of live view from WebCam server when Remote View function is not selected in the Schedule settings
- Audio Settings setting page missing after upgrading from V8.5.4 to V8.5.5 if no channel is enabled for audio recording
- Unable to set recording resolution to CIF when Video Source is set to VGA De-interlace or D1 De-interlace
- Face Count function failed to function after loading default with FBR settings
- Failure to display analog camera views after disabling IP Camera Device in FBR Window
- Failure to finish compacting videos

➢ ViewLog

- Failure to save merged video to DVD or CD using Nero
- Shifted camera view after zooming in on CIF video with panel resolution set to 1680 x 1050, 1600 x 1200, 1920 x 1080 or 1920 x 1200

- ViewLog crash when continuously switching between different view modes using Windows XP
- Displaying incorrect camera view when switching between customized Multi Views and other single views
- Failure to display more than 32 cameras in EZViewLog camera list

➢ Center V2

- Incorrect position of the main window that it stays at the top when it is not configured to be always on top and when the EZ Player window is activated
- Possibility of disruption in record time settings (Max. Video Clip) for I/O trigger events when importing subscriber Address Book information to Center V2

Improved:

➢ Main System

- Improved GPU decoding efficiency and reduced memory usage by GV-System
- Support for recording frame rate settings upon I/O trigger of analog cameras
- Maximum system idle protection time extended from 5 minutes to 4 hours
- Network Failure Detection function to trigger an output device when connection with a network host is interrupted
- Minimum duration for video lost where the output device will only be triggered if the connection lost time exceeded the specified minimum duration

➢ ViewLog

- Support for connecting GV-Recording Server, GV-Backup Server and GV-Backup Center using Remote ViewLog Service
- Automatic switch to PIP mode after zooming in when video resolution exceeds ViewLog Panel
- Support for Panorama View in Remote ViewLog

➢ WebCam and Remote Applications

- Support for notifications with pre-event and post-event recordings attachments for the following event types: Video Lost, Video Signal Resumption, Intruder, Missing Object, Unattended Object, Crowd Detection, Advanced Unattended Object, Advanced Scene Change, Advanced Missing Objection (for Center V2 and Dispatch Server)
- Notifications mechanism of GV-System for Center V2 and VSM server, which allows for

notifications to be sent according to user-defined schedule without installing I/O devices to the GV-System

- Support for Multi Windows on Chrome, Safari and Firefox, with which the user can now remotely select and display up to 16 out of 32 GV-System live views
- Live view resolution on mobile devices from CIF to VGA using GV-AView V1.3.1 (for android devices) and GV-iView V2.3 (for iPhone and iPod Touch)

Changed:

- End of support for GV-1008 and GV-1016 Cards
- Object Index snapshots will now be captured from main stream only
- Requiring only one port of 3rd party dongle to connect Arecont Surround Video Series Camera (with 4 lenses)
- MPEG4 codec removed in sub stream and preview codec changed to H.264 (with GV-IP Cameras firmware V2.0 or later)

Version 8.5.5.0 2012-07-24

New:

- Support for GV-SDI-204 Video Capture Cards
- GV-Skype Video Utility to receive text and video notifications using Skype account
- Support for activating VSM by schedule
- Support for remotely backing up GV-System files to GV-Backup Center
- Support for dewarping of 3rd party fisheye cameras through RTSP, ONVIF or PSIA connection
- Support for ACTi TCM-5111
- Support for Arecont Vision AV-20185DN
- Support for GeoVision GV-CA120, GV-CA220, GV-CAW120, GV-CAW220, GV-BX1200 Series, GV-BX1300 Series, GV-BX2400 Series, GV-BX3400 Series, GV-BX5300, GV-BL1210, GV-BL2410, GV-BL3410, GV-SD220, GV-VS14, GV-Hybrid LPR Cam 10M

Fixed:

- ➤ Main System

  - Delay in any-angle PTZ movement when controlling GV-SD200 using GV-Joystick
  - Incorrectly displaying Keep Days as disabled after enabling the function
  - Incorrect display of Auto Login user name under Traditional Chinese OS
  - Failure to apply frame rate settings under Day and Night Mode

- ➤ ViewLog

  - Failure to include audio data when merging recorded files in Remote ViewLog
  - GV-Keyboard's failure to bring up the corresponding ViewLog of the Matrix
  - Failure to load event list of a second camera in ViewLog when the event time of the first camera selected is unavailable in the second camera
  - Occasional failure to merge and save large numbers of recorded files in AVI format

- ➤ WebCam Server and Remote Applications

  - Horizontally flipped live view when accessing fisheye camera using WebCam Server
  - Failure to receive live view from GV-Video Gateway when default screen division is set to 32 channels in Multi View
  - Failure of Multi View to display live view of more than 4 channels from GV-Compact DVR
  - Inability to remotely play back recordings with 2560 x 1920 resolution and JPEG codec from GV-AView mobile application

- Possible failure of DDNS Service to update the dynamic IP address (Center V2, VSM, Dispatch Server, Twin DVR & SMS Server)
- Display error on the subscriber list of Center V2 main window in which the host icons disappear when the hosts do not have a device name
- Display error on Record dialog box where the Recycle function is shown as enabled after being disabled (Center V2)
- Possible failure of snapshot function with EZ player (Center V2)
- Abnormal live view display from GV-Compact DVR and GV-Video Server when the resolution is set to D1 (704 x 480 or 704 x 576) using JPEG codec (Center V2 & GV-GIS)
- Problem with any-angle PTZ movement through WebCam Server when controlling GV-SD200 and any third-party cameras using ONVIF

Improved:

➢ Main System

- Added Easy Mode in Panorama View to stitch multiple camera views without overlapping areas
- Enhanced defog function to reduce CPU and memory loading
- Added Single Camera Tracking function for GV-SD200 (one GV-SD200 only)
- Added support for Intel Ivy Bridge GPU decoding for 1-3M IP Cameras (32 / 64-bit Windows 7 and 32-bit Windows Vista only)
- Support for dual stream, PTZ auto pan, cruise and sequence functions when GV-SD200 is connected to GV-System
- Support up to 256 PTZ preset points through ONVIF connection
- Support for simultaneous zoom and pan through ONVIF using GV-Joystick

➢ ViewLog

- Added ViewLog Idle Protection function
- Added Smooth Playback to improve the smoothness of video playback in ViewLog
- Added 2 new maps for GPS Tracks Playback (Google Map V3 and OpenStreetMap)

➢ Remote Applications

- Support for watermark imprinting and authenticity checking of recorded videos (Center V2)
- User-configurable display of event tabs on multiple monitors (for Center V2 Profession version only)
- Motion detection sensitivity in which a minimum duration can be set up to minimize false motion alerts to VSM

- Support for object counting alarm with which the VSM can be notified when the object count exceeds the specified value
- Support for printing of the event message dialog box (Center V2 & VSM)
- Support for DDNS service to update dynamic IP address from router through UPnP

Changed:

- GV-System no longer overrides the codec and resolution of the connected IP cameras

Version 8.5.4.0 2012-03-30

New:

- Support for GV-5016 Card
- Support for GV-Combo B Cards (1120B / 1240B / 1480B)
- Support for GV-SD200 / GV-SD200-S IP Speed Dome

Fixed:

- ➢ Main System

  - Failure to renew username after logging out from Remote DVR of Control Center
  - Failure to deny access to System Configure settings using F9 shortcut key when access privilege is not granted
  - Failure to record events during DST using GV-Combo A cards when frame rate limit is set
  - System failure after setting privacy mask using Hebrew, Arabic and Persian OS
  - Occasional crash when using Report Generator
  - Incorrect display of event time when recording is resumed after network interruption
  - Inability to save modifications made to Camera Popup settings after GV-System restarts
  - Inability to save modifications made to POS Field Filter settings
  - Unavailability of the talk back function from GV-System (V8200) to Center V2

- ➢ Remote Applications

  - File storage issue in which snapshots of bmp format cannot be stored through WebCam Server
  - Execution problem of Multi View program, which is downloaded through WebCam Server, in the 1280 x 1024 view mode from its desktop icon
  - Multi View program failure when 1280 x 1024 view mode is used and the required working memory exceeds 2.8 GB
  - Update failure of access rights settings from GV-System to GV-AView mobile application

- ➢ ViewLog

  - Reversed image when playing back videos recorded by V8.2 GV-System using D1 / VGA resolution and H.264 codec
  - Failure to enlarge smaller screen divisions in 10-channel view after clicking the camera view

Improved:

- ➢ Main System

  - Support for email notifications in text-only format when Webcam Server is enabled
  - Automatic connection retries of GV-System to GV-Backup Server when connection fails

- ➢ E-Map

  - Support for View Zone to show monitored area of the device
  - Support for setting Polygonal Map to quickly locate the area of the triggered device

- ➢ ViewLog

  - Support for setting event search limit for power users and users
  - Support for searching events based on I/O trigger using MDB Filter
  - Support for instant playback in full screen mode

- ➢ MultiView

  - Support for dual-stream display from GV IP cameras, GV-Video Gateway and GV-Video Recording hosts

- ➢ Center V2

  - Motion detection sensitivity in which a minimum duration can be configured to minimize false motion alerts to Center V2
  - Motion notification attachment that can include pre and post recording of up to 15 min.

Changed:

- Content of GV-USB Dongle will now be removed after downgrading

Version 8.5.3.0 2012-01-20

New:

- Support for 15 new languages: Arabic, Bulgarian, Dutch, Finland, Greek, Indonesian, Norwegian, Lithuanian, Persian, Romanian, Slovakian, Slovenian, Sweden, Thai and Turkish
- MultiLang Tool to revise translated text on user interface
- Support for new GeoVision IP devices: GV-BX140DW, GV-CR420, GV-FER521, GV-MDR120, GV-MDR140W, GV-MDR220, GV-MDR320, GV-MDR520, GV-MFD140W, GV-SD220, GV-VS11
- Support for more ACTi IP cameras: KCM-5211 and KCM-5311
- Support for more LG IP cameras: LSW2010 and LW345
- Support for more Panasonic IP cameras: DG-SF334 and DG-SP304
- GV-Mobile Server profession version that supports connection with GV-Video Gateway and MJPEG live view using non-IE browsers
- Recording Playback on Mobile Hosts in GV-GIS

Fixed:

- ➢ Main System

  - Schedule problem when the End Time is set earlier than the Start Time
  - Failure to support Advanced Single Camera Tracking without AVP dongle
  - Display problems of Mask Filter outline when setting up motion detection in Camera Configure page
  - GV-System restart issues when 6 or more snapshots are sent at the same time through e-mail notification
  - Failure to include text description in notification e-mail when WebCam Server is enabled
  - Sending snapshots of camera 1 only when Delay Time is set for e-mail notification upon I/O-triggered events
  - GV-System restart issues when right-clicking the live view after disabling IP Camera functions in FBR (Only when video capture cards are installed)
  - Failure to disable Advanced Video Attribute using FBR
  - High CPU loading when connecting to Pelco Spectra IV through GV-NVR System
  - Failure to record IP channels when live view privilege of the channels is not granted to the user account
  - Failure to record IP channels upon motion detection when using GV-600A Card
  - Control Center, Center V2, VSM and Webcam failure when connected IP device name is too long
  - Occasional GV-System restart issues when GV-VS02 is disconnected

- Failure to support auto iris function and 360X PTZ adjustment when accessing PTZ cameras through Control Center and Center V2
- Occasional failure to launch PTZ panel when PTZ camera view is accessed through WebCam Server
- Incorrect display of the PTZ preset points of Sequence 1 when Sequence 2 is selected in Lilin (PIH) - MLP1 and Lilin (PIH-7625) - MLP1
- Detection problems in which only the first camera is detected to be PTZ when multiple PTZ IP cameras are set to the same IP address with different ports
- Problems with I/O control by remote applications when the first I/O device added is GV-I/O Box 8 Ports
- Failure to save modifications made to some I/O settings after GV-System restarts
- Display problems when resolution is set to 1440 x 900, 1680 x 1050 or 1920 x 1080 in Japanese EAS version GV-System
- Incorrect display of text overlaid on snapshot when using Japanese OS
- Failure to type device name in Japanese, Simplified Chinese and Traditional Chinese using the built-in input system of Windows 7
- GV-System restart issues when recording in H.264 codec using AMD CPU

➢ ViewLog

- Problems with changing the image to replace blue screen during playback
- Failure to apply MDB filter when Monitor Table is selected as display option
- Failure to support audio without GeoCodec installed in advance when playing back video with EZ ViewLog Player
- Failure to display Add Hosts button in address book using Traditional Chinese OS

➢ WebCam Server

- Problems with auto iris function when accessing GV-IP Speed Dome from WebCam Server
- Unavailability of Visual Automation on WebCam Server
- Restricted access to live images on WebCam Server for an administrator if a guest had logged in the GV-System
- Channel numbering error on live view of Multi Windows if some channels had been disabled

- Center V2

  - Possible broken images of GV-IP devices on GV-Center V2 when images are set to actual size (1280 x 1024) and the device is resumed after connection loss
  - Possible failure of EZ player when attachments are played back via Event Log
  - Image display problems of GV-IP devices, with 4:3 or 6:9 resolution, displayed on GV-Center V2 in attachment mode

- VSM

  - Improper functioning of the Monitor all type events feature
  - System error on GV-VSM server when its host GV-System undergoes recycling

- E-Map

  - Problems with loading the E-map files saved at the local computer
  - Problem that popup live views only appear at the main monitor even when the E-map is moved to another monitor

Improved:

- Main System

  - Support for advanced schedule settings in Privacy Mask
  - Support for Never Recycle function in Object Index
  - Enhanced sensitivity for motion detection

- ViewLog

  - Support for fisheye object tracking in ViewLog and Single Player
  - Ability to apply PIP / PAP function to recorded videos and save in AVI format

- Authentication Server

- Support for advanced privilege settings
- WebCam Server & Remote Applications

  - Notification feature in which when an event occurs, an invoked computer alarm can be kept on until it is manually turned off (Center V2 & VSM)
  - Event log display which can also be hidden (Center V2)

- Audio broadcast feature in which configurations are automatically saved when the Audio Broadcast window is closed (Control Center)
- Host Search feature in which third-party IP devices that support PSIA or ONVIF can be detected (Multi View of WebCam Server & Control Center)

➢ Snapshot privilege which can be configured for different accounts (WebCam Server)

Version 8.5.0.1 2011-11-01

New:

- Support for new GV-3008 hardware compression capture card

Improved:

- New driver V1450 for GV-4008 / GV-4008A to increase stability New driver V1461 to support GV-3008 hardware compression capture card

Version 8.5.0.1 2011-11-01

Version 8.5.0.0 2011-08-22

New:

- ➢ Main System

  - Support for new GV-Video Capture Cards: GV-600B, GV-650B, GV-800B, GV-900A and GV-4008A
  - Object tracking in fisheye view
  - Support for recording in standard type of H.264, MPEG4 and JPEG codec
  - 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
  - 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
  - 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

➢ GV-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

Fixed:

➢ General

- System instability with Sandy Bridge chipsets occurred on GV applications required a USB dongle
- System instability that occurred on GV applications required a USB dongle and under CPU power-saving mode

➢ Main System

- Failure to display Object Tracking / Zoom In Object setup page for COP (15-CD55W) Pelco D
- Inability to detect PTZ functions of some IP cameras when multiple PTZ IP cameras are connected
- Delay when moving the PTZ camera vertically using remote applications
- Problems with PTZ function of Samsung SPD-1600
- Pause when controlling Samsung SCC-641 / 643's PTZ functions using GV-Joystick
- Failure to display camera view of Arecont Vision AV8180
- Failure to display camera view of Pelco Spectra IV
- Failure to display camera view of Canon VB-C60B
- GV-System failure when several MOBOTIX M12D are connected
- Failure to display Panasonic HCM-715, VIVOTEK FD7132 / IP7330 and ACTi ACD-2100 in Model drop-down list when adding a camera

- GV-System failure when 2 Arecont Vision AV8000 series cameras are added and any channel becomes disconnected
- GV-System restart when accessing Arecont Vision AV5100 live view on GV-System through Control Center
- GV-System failure when recording more than 20 IP cameras in MPEG4 through RTSP protocol
- GV-System failure when pressing Cancel button right after clicking Test Mail Account in e-mail server setup
- Problem with on-screen LED panel of Media Man Tools in English version
- Advanced I/O panel failure after changing mode when the mode schedule is enabled

➢ ViewLog

- Address book error when a second host cannot be detected after clicking the Update button
- Backup failure if the backup folder name is changed when backing up GV-VS02 using Remote ViewLog
- Failure to merge multiple events when events are selected with keyboard
- Failure to apply MDB filter when searching POS data using Remote ViewLog
- Problem with privacy mask or text overlay when playing video recorded by codec version earlier than V8.4
- Failure to play back video in 800 x 608 resolution

➢ Multi View Viewer

- Failure to display actual size image from IP camera hosts in full screen

➢ Center V2

- Center V2 failure when the Defog and PIP functions are enabled together and the image size is changed from Actual Size to Small Size
- Failure of connecting Center V2 Server to GV-System V8.3 or earlier versions

➢ Control Center

- Control Center failure under matrix view while holding GV-Joystick all the way to the end on GV-PTZ010D and GV-PT110D channels
- Failure to Instant Playback under matrix view
- Failure of flickering icon on E-Map when motion events are detected on IP Camera hosts
- Matrix view display issue in which the images are displayed repeatedly while switching divisions under dual streams

- Message mistake such that ID and Password are indicated to be incorrect when in fact the Control Center attempts to connect to a GV-System that is not configured for the White List

➢ Backup Server

- Failure to save recording files to the next recording location when the current recording location is full

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
- Support for PTZ functions through ONVIF
- Added environmental change filter to reduce false alarm in Advanced Motion Detection
- 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
- 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

➢ 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 Pro version)

- 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

➤ 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

Changed:

- ➢ Main System

  - • Removal of H.264 V1 codec

- ➢ ViewLog

  - • Replaced Geo MPEG4 and MPEG4 codec options with Geo H.264 V2 and WMV9 when saving video in AVI format

Version 8.4.0.0 2010-10-28

New:

➢ Main System

- Support for GV-FE110 fisheye camera and ImmerVision IMV1 Panomorph lens
- Video compacting by keeping key frames only
- Schedule center for compacting video, merging video, and fast backup and restore
- Face count and detection 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 IP devices in system log
- Round-the-clock audio recording
- 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, 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 centers from one GV-System

- Control Center

  - Up to 2 monitors supported for VMD event pop-up
  - Audio broadcasting

- GIS

  - Input-triggered live view on mobile hosts

- Accessory

  - GV-Keyboard V3

Fixed:

- Main System

  - Video lost issue with GV-4008 Card when the system is in high memory usage
  - GV-System failure after GV-I/O Box was disconnected
  - GV-System restart due to high memory when motion detection was enabled with H.264 V2 codec in 64-bit OS
  - Misidentification of RAM over 4 GB as 2 GB RAM in 64-bit OS
  - Incompatibility with hard disks equal or greater to 2 TB
  - Problem with Snapshot function after an image was saved to a root directory
  - Connection failure after changing default VSS Port 10000 for IP devices

- GV-System errors that occurred after changing PTZ idle time
- Inability to specify address number for Mintron PTZ devices
- Failure to control PTZ Pelco Dome after switching to another PTZ Pelco Dome using keyboard
- Problems with PTZ function of Panasonic BL-C111
- Problems with pan function in Canon VB-C300 and Canon VBC-50i
- Failure to access PTZ device address number and preset set function after switching from a user account to a supervisor account.
- Misidentification of GV-Mini Fixed Dome when scanning for cameras
- Problem with PTZ idle function after system restart where the idle function was not automatically enabled
- Failure to display search results when only one matching POS item was found among multiple POS tables
- Network reconnection failure between POS Text Sender and GV-System

➤ ViewLog

- Failure to play back video saved in exe format on a PC without GeoVision codec installed
- Problem with Save as Image function after an image was saved to a root directory
- Failure to include audio data when using Direct Merge
- Audio data loss occurred when merging videos where the date changes to the next day
- Failure to include MDB files when performing backup in ViewLog

➤ WebCam

- Event List inaccessible when using V8.3.3 WebCam Remote Playback with DDNS Service

➤ GIS

- Inaccurate host location on maps in Simplified Chinese OS

Improved:

➤ Main System

- 64-bit Windows support for GV-4008 Card
- Added advanced motion detection by object size
- Replaced color-based object tracking with motion-based advanced single camera tracking
- Added another set of default video attributes for GV-600A/650A/1008/1016/1120A/1240A/1480A Cards

- Independent buffer for live view and recording to separate their performance
- Improved PTZ function to allow moving to all directions
- Supported up to 256 camera addresses and preset points
- Additional options to change resolution and codec when adding IP devices
- Added automatic IP address assigning and channel mapping using GV-IP Device Utility

➢ ViewLog

- Added filter function for Event List mode and Timeline mode to sort events by event types or POS items
- Added codec selection for video merge
- Defog and stabilizer effect workable for recorded video with AVP dongles
- Added GPS coordinates overlay function for video playback

➢ Center V2

- Up to 2 e-mail accounts for each subscriber for e-mail alert
- Added PIP and PAP functions in EZPlayer (playback program)

➢ Dispatch Server

- Added PIP and PAP functions in EZPlayer (playback program)

➢ VSM

- Up to 2 e-mail accounts for each subscriber for e-mail alert
- Supported GV-I/O Box via Ethernet in VSM local site

➢ Control Center

- Support for RTSP protocol

➢ GIS

- Blinking of mobile host icons when the events (Detection Area, Detection Rout, Idle Speed and Over Speed) occur
- Live view and playback of mobile hosts accessible without the need to enter ID and Password every time
- Added Remote ViewLog function for mobile hosts

➢ Accessory

- 64-bit Windows support for GV-I/O Box 4 Ports, 8 Ports and 16 Ports

Changed:

➢ Main System

- 32 free channels for GeoVision IP devices without requiring a dongle
- Additional port number options for POS dongle (1, 2, 4, 8, 12, 16 ports)
- Removal of conventional skin style
- Replaced automatic loading of all PTZ settings at startup with manual setup of PTZ devices based on users' need to reduce system startup time

➢ GIS

- Maximum number of camera connections which is expanded from 96 to 128
- Location of the Map Setting function which is moved to Address Book

Version 8.3.4.0 2010-04-13

New:

- Support for Sanyo IP cameras: VCC-HD2500P, VCC-HD4600 and VCC-HD5600P
- Support for Hikvision IP camera: DS-2CD852MF-E
- Automatic video snapshots triggered by input devices

Fixed:

- Main System

  - Issue of recording suspense that occurred when GV-4008 Card detected abnormal video signals
  - Incorrect recording frames with "Limit Video Frame Rate" function enabled
  - Problem of resuming the set screen divisions after a pop-up view in "Quad Spot Monitor Controller" function
  - Several minor issues with "Fast Backup and Restore (FBR)" function
  - Issue of using multiple IP cameras in a low-bandwidth or Internet environment
  - Problem of "Live-View Key Frame Only" function that could not start recording when motion was detected
  - Issue of recording triggered by motion detection from IP devices

- Remote Applications

  - Live-image problem from IP devices on the WebCam Server that occurred when dual streams of different video sizes and codecs as well as "Hardware-Compressed Data FIFO" function were applied
  - Connection speed issue of V8.3.3 MultiView when the connection was lower to 512 Kbps

Improved:

- Support for more Vivotek IP cameras: PZ7111, IP8160 and IP7361
- Support for more Arecont IP cameras: 5155DN, AV3155DN, AV2110DN and AV1310DN
- Support for more ACTi IP camera: ACM-5811

Version 8.3.3.0 2010-02-09

New:

- Support for 64-bit and 32-bit Windows 7 and Server 2008
- Support for VIVOTEK IP devices
- Key frame playback
- Advanced Merging
- Merging Schedule
- Separate master and slave GV-1008 cards

Fixed:

➢ Main System

- Failure of Video Snapshot schedule
- Incorrect right and left movement of JVC VN-686 PTZ IP camera
- Failure of activating alarm and output module for unattended object detection by using the Schedule function
- High CPU issue of Report Generator
- Issue of modifying account name to be lowercase or uppercase
- Incorrect length of video recorded by using the Schedule function (max. 10 minute longer than the specified time period)
- Problem of the "Startup and Hide into System Tray" function
- Problem of using the IP image of 2 mega pixels or above for Digital Object Tracking
- High memory usage that occurred when these settings for GV-IP Camera were met together: dual streams, GOP enabled and JPEG applied on any stream
- Incorrect pre-recorded images of IP devices that occurred when GOP and FPS values did not match
- System freeze that occurred when GV-1480A/1240A/1120A/1008 ran on some motherboards based on Intel X58 chipset
- Failure of driver installation that occurred when two identical USB dongles were connected

➢ ViewLog

- Failure of the "Recoverable Privacy Mask" option in the Save as AVI function
- Failure to access DST Object Index files through EZViewLog
- Inferior quality of merged video
- Failure to access all camera databases when connecting another GV-NVR by using Address Book

- ➢ Remote Applications

  - Failure to connect GV-IP Speed Dome through SSView V3
  - Failure of the Stabilizer function in Control Center and GV-GIS applications
  - Failure to retrieve the files backed up through Backup Server when the backup location was assigned to C drive

Improved:

- ➢ Main System

  - Supported GV-Mini Fixed Dome H.264 1.3M (GV-MFD110) and GV-IPCAM H.264 VGA (GV-BX010D)
  - Supported more IP device models of ACTi and Arecont Vision
  - Supported COP 15-CD55W-1000 analog PTZ camera
  - Supported network connection from up to 16 graphic-mode POS devices
  - Added another alarm option "Automatically Disable Alarm when the Crowd Disperse" to Advanced Crowd Detection
  - Improved GVFPGAUp.exe to be capable of checking GV-4008 boot-loader version

- ➢ ViewLog

  - Improved Remote ViewLog to support the playback of Object Index files
  - Improved the Save as AVI function to export GPS data
  - Improved Address Book for importing files
  - Included the login and logout events of Remote ViewLog to System Log

- ➢ Control Center

  - Improved input control on the I/O Control Panel

Changed:

- I/O Status interface of Center V2
- Changed memory limit for 64-bit Windows. The memory limit is 1.7 GB with 2 GB RAM and 2.4 GB with 4 GB RAM.

Version 8.3.2.0 2009-11-23

New:

- ➢ New GV-Video Capture Card

  - GV-4008
  - GV-1008

- ➢ Main System

  - Password retrieval through e-mail
  - Associate monitoring
  - Advanced Single Camera Tracking
  - Single Camera Tracking in PIP and PAP Views
  - Automatic video snapshots
  - Preventing unauthorized termination of GV-System
  - GIS Client function
  - Support for more PTZ cameras from Dynacolor, AcutVista and COP
  - Support for more third-party IP devices from ACTi, Arecont Vision, Axis, IQinVision, Mobotix, Pelco, Panasonic, Sony and Verint

- ➢ WebCam

  - User-defined certificate and private key in SSL
  - Network card selection for Multicast
  - Display of people counting results on Single View
  - User-defined icon images for Multi View
  - GV-iView for iPhone and iPod Touch

- ➢ Control Center

  - Live image defogging and stabilization
  - Camera pop-up on another screen in VMD application
  - Sound alarm invocation with event pop-up in VMD application
  - Support for new GV devices: GV-I/O Box 8/16 ports with Ethernet Module, GV-DSP LPR and GV-Smart Box
  - Support for more third-party IP devices from ACTi, Arecont Vision, Axis, IQinVision, Mobotix, Pelco, Panasonic, Sony and Verint

- ➢ GV-GIS

  - Alert notifications including sound alarms, SMS, e-mails and input trigger
  - Support for GV-I/O Box for local warning and remote monitoring
  - Self-defined colors for event messages
  - Display of host position on an alarm event
  - Over-speed detection alarm
  - Live image defogging and stabilization
  - Failover support
  - Support for new GV devices: GV-I/O Box 8/16 ports with Ethernet Module, GV-DSP LPR and GV-Smart Box

- ➢ New Device Support

  - GV-IP Speed Dome
  - GV-Video Server (GV-VS04A)
  - GV-Video Server (GV-VS12)
  - GV-IP Cam H.264 1.3M/VGA
  - GV-IO Box 8 / 16 Ports with Ethernet Module
  - GV-DSP LPR V1 / V2
  - GV-Smart Box

Fixed:

- ➢ Main System

  - Mosaic images appearing at the beginning of the recordings of connected IP devices. The problem only occurred on GV-NVR
  - Issue of connection lost events that did not logged in System Log. The problem only occurred on GV-NVR
  - GV-System failure when you disabled some channels and then enabled the scheduled monitoring
  - GV-System failure that occurred in test mode of Advanced Scene Change
  - Event mapping issue in Advanced Log Browser
  - Failure of Mask Filter after recording mode was set to RTC
  - Setting issue of Pelco Dome"s P-version Protocal - Minor issues of Lilin (PIH-7625) PTZ camera
  - Setting issue of JVC VN-V686 PTZ IP camera
  - Failure of idle protection after GV-System was restarted
  - Playback issue in the HTML format report generated by Report Generator

- Issue of Event Log in Report Generator
- Lag issue of Report Generator when created jobs exceeded 20
- Failure of creating reports manually in Report Generator of Japanese version
- Issue of the Scan button in TV Quad settings
- Media Man Tool failure after you moved the scroll bar up
- Issue of Virtual I/O Device Setting that you could not modify the added IP devices
- Issue of Virtual I/O Device Setting that you could not use the "Apply All" function when the I/O devices were from GV-Wiegand Capture
- Issue of Virtual I/O Device Setting in Hebrew version
- Blue screen issue when Intel P55 Express Chipset was in use
- Video lost issue in GV-Combo A Cards

➢ WebCam

- Unexpected video disconnection in Multi View that occurred after opening and closing the PTZ Control Panel several times
- Multi View failure that occurred after you switched connection from GV-System host of version 8.3.1.0 to the host of version 8.0.0.0 or later
- Failure to display all video channels when using Multi View in the narrow bandwidth network
- Remote Playback and Remote ViewLog failure that occurred when connecting to WebCam Server through Domain Name plus http port (e.g. perliu.dipmap.com:82)
- Event List Query failure that its Web interface was stuck in the installation screen of Single Player

➢ Center V2

- GV-System failure that occurred after you started monitoring in condition that more than 16 channels at D1 resolution were connecting to two Center V2 Servers simultaneously
- Incorrect display of video channels upon input trigger
- SMS schedule that did not apply immediately after setup
- SMS and E-mail alert interval that did not apply immediately after setup
- Failure of attempting a connection to GV-System if the total number of characters for login ID and password were over 55 characters

➢ VSM

- SMS and E-mail alert interval that did not apply immediately after setup
- Connection problem with GV-System of version 8.2

- ➢ Backup Server

  - Backup Server errors that occurred when connecting to an nonexistent IP address
  - Connection issues with some storage systems

- ➢ GV-GIS

  - GV-GIS failure that you may not open the program after changing Map API

- ➢ Mobile Phone Applications

  - BBView errors that you could not remotely force outputs to be triggered through the BlackBerry mobile phone
  - Playback failure on SSView V3 that occurred if your login password exceeded 8 characters

Improved:

- ➢ Main System

  - Added the Schedule option for most of Video Analysis and Advanced Analysis functions
  - Added the "Auto disable alarm" option for Advanced Video Analysis functions
  - Improved way to define Object Counting and Intrusion Alarm zones
  - Improved face detection with support for the face turning up to 45 degrees vertically
  - Supported fixed aspect ratio on live view
  - Added live-view frame rate control for IP cameras
  - Added RTSP communication for IP cameras
  - Easy way to change codec settings for IP cameras
  - Column sorting now available when scanning IP cameras
  - Added the "Default screen division at next startup" option for GV-NVR
  - Added the auto-run service for POS Data Sender and POS Text Sender
  - Added SSL in e-mail settings
  - Improved PTZ tracking control by using GV-Keyboard, GV-Joystick, GV-IR Remote Control and PC keyboard
  - Displayed the Counter results on Digital Matrix monitors
  - Supported more combinations of codecs and resolutions in AVI Repair
  - Improved DSP overlay quality for GV-Combo A Cards

- ➢ ViewLog

  - Added the Single Player option to the Backup function

- ➢ WebCam

  - PTZ preset settings now available on Single View
  - Snapshot with watermark now available on Single View, Multi View and E-Map
  - Two login options now available: Simple Version and Common Version

- ➢ Center V2, VSM

  - Supported tampering alarms of IP devices
  - Added SSL in e-mail settings

- ➢ Control Center

  - Supported two-way audio communication in Matrix View
  - Added connection log for I/O Central Panel
  - Supported up to 8 Matrix Views
  - Supported up to 8 GV-Keyboards and 8 GV-Joystick for Matrix View control

- ➢ GV-GIS

  - Settings now available to change the default time range for GPS playback
  - Travelled distance display now available on the Playback window
  - Time display now available of when a host passes by a point with the Playback function
  - Display of GPS tracks now available during video playback
  - Supported longitude and latitude positions of IP devices applied on Fixed Hosts
  - Added SSL in e-mail settings
  - Idle speed settings for separate hosts now available
  - New dongle for the combination of NVR, LPR and GIS

- ➢ GV- Keyboard, GV-Joystick

  - Added full degree of pan and tilt control with GV-Joystick
  - Added "Monopoly Mode" in the settings of GV-Keyboard and GV-Joystick
  - Supported Spot Monitor, Digital Matrix and Multi Quad applications

Changed:

- ➢ Main System

  - Supported up to 4 USB dongles in one GV-System
  - End of support for GV-2004 Card

- End of support for MPEG-2 codec

- Changed memory limit from 1.3 GB to 1.7 GB

- Changed the default System Log setting from 7 days to 2 days

- New driver V2.2.5.0 for GV-600, 650, 800 V4 and GV804A Cards

- New driver V1.7.12.0 for GV-Combo A Cards

- New FPGA V1.2.3.0 for GV-Combo A Cards

➢ Center V2, VSM

- Changed e-mail interval from 60 min. to 1440 min.

- Synchronized the Event Log and the Event List for the number of days that log data were loaded

➢ Backup Server

- Changed the connection method with Backup Viewer

➢ GV-GIS

- Applied host time for GPS playback instead of local time

Version 8.3.1.0 2009-04-20

New:

➢ Main System

- GV-Combo A Cards: GV-1480A, GV-1240A, GV-1120A
- Support for new 3rd- party IP cameras: Arecont AV3105, Bosch VIP X1 and VIP X2
- User-defined title image in Report Generator

➢ VSM

- Time interval setting between each alert notification, including Camera Motion and Video Lost

Fixed:

➢ Main System

- Audio issues with Axis 211M
- Pink image problem with Arecont AV3130
- Issue of incorrect resolution display with Arecont 5100DN
- System errors that occurred when connecting to Sony IP cameras
- System errors that occurred when connecting to 16 IP cameras with H.264 codec
- Garbled images from IP camera that occurred in the center of 6 x 6 divisions of Quad Enhanced mode
- System restart that occurred when the maximum number of PTZ presets were set to between 17 and 64
- Failure of "Connection Lost Triggers I/O" function
- Failure of GV-Keyboard OSD menu for Spot Monitor that occurred in two card mode
- Failure of GV-Keyboard OSD menu for POS Live View when you selected POS related channels between 18 and 32
- Failure to restrain users from stopping and starting the recording
- Incorrect status of the triggered output after Scene Change related events occurred. The status of the triggered output now is changed to turn on consistently till the event trigger is finished.
- Failure to remember the current monitoring status (e.g. start monitoring) upon restart of GV-System through software watchdog
- Auto Scan issue in "Digital Matrix" function. Now even though you dont configure auto scan pages, the live mode will be displayed right after popup of a single channel on event trigger.

- Issue of saving attributes changes that occurred after the connected IP cameras were powered off
- Mismatch issue between POS device and recordings that occurred after the mapped camera was changed
- Failure to display POS text overlay that occurred in the raw data images (DSP was disabled) with GV-1120/1240/1480 Cards
- Failure to display POS related videos with the Quick Search player launched from Advanced Log Browser. This problem occurred in Camera 2 to Camera 16 when the ID number of POS device and camera matched each other.
- System errors that occurred when you selected motion events of Camera 17 to Camera 32 in Advanced Log Browser
- Issue of freezing backup status bar in Advanced Log Browser
- System restart that occurred after you use "Find Condition" function in Quick Search
- Failure to generate the report with Report Generator that occurred when the "24 hours before execution" option was selected and no data were created on the current day
- Mismatch issue with Report Generator between DVR name in XML file and location name of DVR

➢ ViewLog

- Failure of the "Time Search" function to load all data when one camera had over 1500 or 2000 recorded events
- ViewLog restart that occurred in Vista operating system when the selected Multi View mode was in full screen display
- Failure of LAN ViewLog
- Failure of backup function in Remote ViewLog

➢ Center V2

- No notification sent to Center V2 when the IP camera was disconnected from the subscriber
- Error message that occurred when the temporary storage space for video attachment was full
- Failure to reconnect the subscriber when dispatching the subscriber to the other Center V2 failed

➢ Dispatch Server

- Failure to play back the recordings from Center V2 even though the file sharing function was activated

- ➤ VSM

  - Incorrect display of "Keep Days" that occurred when the connection between the GV-System client and VSM server was broken and rebuilt
  - No notification sent to VSM when the IP camera was disconnected from the subscriber
  - Problem of shutdown and restart during playback at VSM when the associated cameras at GV-System were disabled

- ➤ Control Center

  - Failure to access the I/O Central Panel functions by pressing ALT + Tab
  - Failure to save the self-defined group ordering on the Group List
  - Failure to access the standard style of Control Center when the VGA card did not support the DirectDraw function
  - Garbled images in Matrix view when you pressed the Page Down button in the screen division of 8 and with the resolution of 1440 x 960 or 1280 x 800
  - Icons of channel 1 to channel 16 that failed to flicker on the Remote E-Map

- ➤ WebCam

  - Disconnection from WebCam server after megapixel resolution of Arecont 5100 was selected. The problem occurred in the conditions that "Actual Size" was selected and "Frame Title Color" was set to be Black or White on Webcam server
  - Playback issue when using Object Index Search in Remote Playback (RPB)
  - Errors to graph the search results of counter events in Event List Query
  - Message "Install cancel" that occurred during the installation of Multi View through Internet Explorer after the file was renamed or destination directory was changed
  - Login errors in Multi View caused by creating the same host names
  - Reconnection issue with all channels in Multi View when one camera disconnected and connected again

- ➤ Twin DVR Server

  - Garbled images caused by two Internet Explorer browsers connecting to the same IP camera via WebCam and the resolutions selected for video were different

- Mobile Phone Applications

  - Problem of switching to camera 17 to camera 32 during playback in MSView V2 / V3
  - Password creation limited to 8 characters in SSView V3
  - Erroneous text display on BlackBerry Storm 9530 PDA phone

- Others

  - OS errors that occurred when using GV-800 PCI-E and Intel 945G/945P motherboard together in the D1 resolution
  - Message "Can't find keypro" that occurred when activating Terminal Service in Windows Server 2003 and using GV-600/650/800 V4 Cards

Improved:

- Auto Scan function allowed for third-party IP cameras
- Backup data including Merge List and Backup Log
- Improved login dialog box for Single Player
- UPnP function for router control not restricted by the version of Microsoft Windows operating system

Changed:

- Modification of the "Select Brand" dialog box with separate Brand and Device settings
- Size limit of Navigation Box in PIP view. Now the size of navigation box can only be diminished to the half of the Insert Window
- Removal of server ports no longer used in V8.3, such as TCP Server port 3550
- All resolutions of Multi View included in the Software DVD
- New driver V2240 for GV-600, 650, 800 V4 and GV804A Cards
- New Audio driver V2140 for GV-600, 650, 800 and GV804A Cards

Version 8.3.0.0 2009-02-09

New:

➢ 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
- Talkback support when IP cameras provide 2-way audio
- 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 3rd-party IP cameras:

Arecont	AV-3130, AV-8360
Axis	209FD, 209FD-R, 209MFD, 209MFD-R, 211M, 211W, 215, 216MFD, 216MFD-V, 241Q, 241S, P3301, Q7401
Cannon	VB-C50i, VB-C300
IQEye	IQEye 703, IQEye 705, IQEye 752, IQEye 753, IQEye 755
JVC	VN-V25U, VN-V26U, VN-V686U
Mobotix	M12D Web, M12D IT-DNight, M12D Sec
Panasonic	WV-NS202A, WV-NW484, WV-NW964
Pelco	IP110, IP3701
SONY	SNC-CM120, SNC-CS20, SNC-DM110, SNC-DM160, SNC-DS10, SNC-DS60, SNC-RX530N, SNC-RX530P, SNC-RX570N, SNC-RX570P

- 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)

➢ New features to ViewLog

- 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

➢ 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

➢ 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

➢ 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

➢ 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
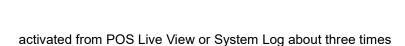
➢ New features to Dispatch Server

- Unlimited log retention time
- Colorful Mode to enhance video color

➢ 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

➢ New applications

- GV-GIS (Geographic Information System)
- Multicast
- Audio Broadcast

➢ New devices

- GV- I/O Box 4 Ports
- GV-I/O Box 8 Ports
- GV-I/O Box 16 Ports

Fixed:

➢ Main System

- Error message ¨Cannot find Keypro¨ that occurred when users logged in Windows with Guest account
- Failure to play back POS events immediately by double-clicking them in System Log if the related recordings were not complete (The problem only occurred in GV-2004/GV-2008 Card and digital channels)
- Audio and video sync issues in GV-IP Camera recordings with MPEG-4 codec
- System errors that occurred when connecting to Mobotix M12D IP cameras set with 768 x 576 resolution
- System restart that occurred in 360 x 288 (PAL) resolution when Quick Search was

activated from POS Live View or System Log about three times

- Failure to set video attributes for camera 10 to camera 16 in TV Quad settings
- Deinterlace issues in the video stabilization function
- Connection problems with AXIS 214 IP cameras
- System errors caused by AXIS 207MW IP cameras set with 640 x 360 resolution
- Connection problems with multiple IQEye IP cameras
- Connection problems with IQEye IP cameras in a communication port other than 80
- Several issues with Arecont IP cameras
- Object Index Search errors that occurred when locating the files on the date of February 28 to 29
- Failure of the ¨Text Overlay¨function to include the location name on the recordings (The problem only occurred on analog channels.)
- Failure of the ¨Keep Day¨setting

➢ ViewLog

- Failure to back up the events of previous days to CD or DVD
- Failure of the ¨Export to DVD Format¨option to export audio
- Failure of the ¨Save as AVI¨ option to export audio
- Failure of the ¨Save as AVI¨ option to merge files if Windows Vista was used and the total frame rates of merged files were over 18000 fps
- Failure to print images from a printer other than the default one in Windows
- Failure to rewind video frame by frame
- Performance issues in Object Search
- Image problem that occurred when the playback was interrupted by moving the playback slider or pausing the video
- Failure of Watermark Viewer in Remote ViewLog
- Failure of the ¨Export to DVD format¨ option in Remote ViewLog

➢ Control Center

- No image display from GV-IP Camera in IP Matrix
- Failure of joystick control after the controlled PTZ camera was changed in Matrix
- Zoom function errors in joystick control
- Control Center program errors that occurred when connecting to over 56 channels and each channel with codec setting of Geo H264 or Geo MPEG4
- GV-System errors that occurred when Control Center connected to its PTZ camera of Pelco protocol and with the ¨Idle Protection¨setting

➢ Center V2

- Failure of the ¨Emergency¨ option to notify Center 2 of motion detection
- Failure of time synchronization between GV-System and Center V2
- Failure of the ¨Retry in the background¨ option to attempt a connection to Center V2 in the background
- Failure of the ¨Automatic Failover Support¨ option to configure backup servers for Center V2

➢ VSM

- Failure of the ¨Notify Vital Sign Monitor when the total amount of free storage space is lower than x GB¨ option
- Failure of the ¨Automatic Failover Support¨ option to configure backup servers for VSM
- VSM program errors after frequent connection losses and attempts

➢ AuthServer

- AuthServer program errors when many disconnection pop-ups occurred

➢ Backup Viewer

- Backup Viewer program errors after being disconnected and then connected again

➢ WebCam

- WebCam login failure if your ID contained a space
- Failure to display mega-pixel images if the resolution of IP cameras was set to JEPG
- WebCam program errors that occurred when full screen was disabled after connection lose
- Incompatible issue that exported host data of Multi View version 8110 could not be imported to Multi View version 8200
- Frame rate decrease in Multi View if any channel in multiple screen divisions lost video
- Auto retry failure in Remote E-Map
- Remote E-Map program errors that occurred if the connection to E-Map Server failed
- Video lose that occurred through 3G-enabled mobile phone if the SSL (Secure Sockets Layer) protocol was activated on the WebCam server
- WebCam program errors that occurred when you accessed the channel with video lost or without privilege through mobile phones
- An issue related to mobile phone connections that caused a high CPU load on the WebCam server even after users logged out of the server
- Problem of password entry in SSView V3

Improved:

➢ Main System

- PTZ tour schedule added for Idle Protection
- PTZ Idle Protection support in IP cameras
- Support for negative coordinates in twin-view display (DMPOS.exe)
- Multiple cameras to record upon input triggers
- Increased number of storage groups from 8 to 16
- Overlaying Input device name onto screen upon alarm events
- File merging without restriction of length of time
- Combining POS data overlay in Panorama View
- Remote control of I/O devices from the connected GV-IP devices
- Adjustable recording frame rate for IP cameras
- Support for H.264 codec in 3rd-party IP cameras
- Increased number of PTZ addresses from 16 to 64

➢ ViewLog

- Increased number of Multi Views from 1 to 10 sets
- Increased number of Quad Views from 1 to 10 sets
- Import and export of Address Book - Applying video effects on multiple channels
- Support for Nero 8

➢ Control Center

- Increased number of displayed Matrix views from 4 to 6
- Increased number of camera sources for Panorama views from 16 to 96

➢ Remote E-Map

- Simultaneous display of up to 16 live views

Changed:

- The¨Alarm + Counter¨option was removed from Object Search in ViewLog
- End of support for GV-DSP Card
- End of support for GV-Hybrid DVR Card
- End of support for GV-250 Card
- New driver V1582 for GV-1120, 1240, 1480 Cards
- New driver V1576 for GV-2004, 2008 Cards
- New Video driver V2170 for GV-600, 650, 800 V4 Cards
- New Audio driver V2100 for GV-600, 650, 800 V4 Cards
- New Video driver V2171 for GV-804A Card
- New FPGA V155 for GV-1120, 1240, 1480, 2008 Cards
- New FPGA V150 for GV-2004 Card
- New driver V2.0.4.102 for GV-Hub, COM, Keyboard, Joystick, I/O USB Box, I/O Card

Version 8.2.0.0 2008-02-22

New:

➢ Support for V4 Cards of GV-600, GV-650 and GV-800

➢ New features to Main System

- Hybrid Solution integrating analog videos with digital videos from GeoVision IP video products and third-party IP cameras
- Noise Tolerance for motion detection
- Noise Detection to reduce file size
- Noise Filter to filter out video and audio noise
- Defogging live videos
- Video Stabilizer
- PIP and PAP Views
- Panorama View
- Report Generator
- New codec Geo H264 V2
- Multithreading encoding
- Support for cardholder data from GV-Video Server
- Support for new screen resolutions: 1280 x 800, 1440 x 900 and 1920 x 1080
- Support for new domes: Pelco Spectra Mini Dome (SD4-WO), Pishion 22X, VCC5i, Lilin (PIH-7625), Messoa (D-700 series) for PTZ tracking and VIDO (G65) for PTZ tracking

➢ New features to ViewLog

- Support for new screen resolutions: 1280 x 800, 1440 x 900 and 1920 x 1080
- Support for new video-enhanced effects: Defog and Stabilizer
- PIP and PAP Views
- Panorama View
- Splitting files for backup onto multiple discs
- Extracting frames from a video clip during playback

➢ New features to WebCam

- New web GUI
- Control Panel on Single View to provide instant information and operation
- PIP and PAP Views in Single View
- Support for defogging live videos in Single View

- Support for 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 Mpeg 4 Encoder Viewer
- Addition of "Use small icon" option in Remote E-Map
- Pop-up live images upon input trigger in Remote E-Map

➢ New features to Center V2

- Connection from one single DVR to two Center V2s
- Simultaneous playback of multiple video files
- Support for new resolutions: 1920 x 1080, 1280 x 800 and 1440 x 900
- Backing up event log data to CD / DVD
- Printing Alarm Reports
- Support for GV-IP Camera
- Support for GV-Compact DVR

➢ New features to VSM

- Displaying status of multiple storage groups at the connected DVR
- Resending event messages to VSM after connection is recovered
- Support for Remote ViewLog
- Backing up log data to CD / DVD
- Printing Alarm Reports
- Support for GV-IP Camera
- Support for GV-Compact
- DVR Enhanced support for GV-Video Server

➢ New features to Dispatch Server

- Backing up log data to CD / DVD
- Printing Alarm Reports

➢ New features to Authentication Server

- Remote access from Control Center, Remote E-Map and Multi View to obtain the list of DVR hosts

➢ New features to Control Center

- Support for PIP and PAP Views in Live View, Remote ViewLog and Matrix View
- Support for new resolutions: 1920 x 1080, 1280 x 800 and 1440 x 900
- Support for Panorama View
- IP Matrix
- VMD (video motion detection) monitoring
- New interface style for Control Center
- Addition of "Start/ Stop Service" message to log
- Instant playback
- Import and export of Host List and Group List information
- Support for negative coordinates used in position settings of Remote DVR, Remote ViewLog, I/O Central Panel and Matrix
- Support for GV-IP Camera
- Support for GV-Compact DVR
- Support for GV-Video Server

➢ New features to SMS Server

- Addition of event alerts

➢ New applications

- Bandwidth Control
- Backup Server and Backup Viewer
- GV-NVR

➢ New devices

- GV-I/O USB Box
- GV-Joystick
- GV-IP Camera
- GV-Compact DVR

Fixed:

- Backup problems generated by DMBackup program
- Some PTZ control issues occurred when the PTZ camera was connected from GV-Video Server
- Malfunction of Sensormatic (Ultra IV)s Pattern feature
- Failure to upgrade codec by EZViewLog500 program
- Inaccuracy of "Scene Change Detection" in a poorly lit scene
- Some hot key issues in GV-IR Remote Control and GV-Keyboard
- Errors of "Save as AVI" in Multi View mode. The errors occurred when the recordings included several disabled cameras and enabled watermark function
- A compatibility issue with certain Nero 6.0 versions that could cause ViewLog to crash
- Problem of continued recording even after video was lost. The problem only occurred on GV-2004 and GV-2008 cards
- Displaced words and numbers in camera ID and POS data in Hebrew version
- Reconnection failure occurred when video was lost in GV-Video Server and then GV-Video Server lost connection to GV-System
- System errors occurred when you have configured the POS settings and there was no transaction data received
- Incorrect dates appeared in the calendar of "Timeline Search" function
- The display problem of applied "Effects" in ViewLog occurred when the view mode or channel was changed
- Problem of quick speed playback occurred when videos were recorded by GV-250 and set to 720 x 480
- Incorrect appearance of the first frame from the previous event in "Auto play next event" function
- Failure to recognize the IDs with spaces at Dispatch Server
- Problem of showing the filtered data at Dispatch Server
- Failure to delete Server and Group folders at Dispatch Server
- Failure to send e-mail alerts to multiple recipients at SMS Server
- Freezing of Authentication Server with the narrowband connection and a great number of clients connected
- Freezing of Matrix View when 4 Matrix View windows were open and over 150 cameras were connected
- An issue that caused POS data not to be displayed on POS Live View of Matrix
- Inaccurate search results of using "Search Host" function at Control Center
- Failure of 3GPP service occurred when WebCam Server was set to be automatic start at system startup
- Error message displayed on DVR when this scenario occurred: audio was enabled in Single

View or Multi View, and a mobile phone user was accessing the DVR

- Freezing of Multi View when it was being accessed and Camera 1 lost videos
- Failure to connect to GV-Video Server from WebCam when the default port value of 10000 was changed
- Error message "Server Version Error" displayed on the mobile phone when selecting "RPB" function. The error occurred on these applications: GView V2, MSView V2, MSView V3, SSView V3 2nd and SSView V3 3rd
- Problem of displaced images occurred when nVidia 6100/6150 motherboard chipsets were used together with GV-1480 or GV-2008 Cards

Improved:

- Improved "Face Detection" performance and accuracy
- Enhanced Alarm function in Object Counting
- The bounding box can enclose the detected object fully in Object Counting
- Database location (Cam*.db and Aud*.db) now can be specified
- Enhanced Day-Night recoding mode
- PTZ presets are increased from 16 to 64 presets
- "Export to DVD format" and "Database files backup" now are available in Remote ViewLog
- Improved download speed in Remote ViewLog for backup
- Up to 8 storage groups with different storage locations can be created
- ViewLog now can play back video files of up to 16 cameras from different hosts
- Added "Hardware compression" option in Hard Disk Calculator
- Added "Filter" icon in System Log to indicate the filtering process.
- Enhanced POS Quick Search.
- Enhanced Hot-Swap Recording.
- Added POS Alarm Frequency settings.
- Improved filter function for bigger POS database.
- The blue screen can be replaced with a customized image in JPEG format other than BMP format.
- CPU loading is decreased in Matrix View due to different rendering and drawing methods.
- The Remote E-Map window now remains on the screen after the disconnection message box is closed.

Changed:

- When the codec is set to MPEG-2 on GV-2004 and GV-2008 cards, the frame rate now is fixed at 30 fps and "Economic Round-the-Clock" function cannot be used.
- "Camera Popup" settings of TV Quad are separated from those of Main System.
- When the view mode is set to be Single, the default play mode now is "Real Time". When the view mode is set to be Multi View, the default play mode now is "Frame by Frame".
- The display location of message "Codec Error" in Center V2 is moved to the Camera Name field.

Version 8.1.2.0 2007-05-18

New:

- GV-System supports Windows Vista operating system

- New features to ViewLog, including

    – Option to back up video files only or with ViewLog player as well

    – Merge Log added to record the details of merged recording files

    – Option to speed up or down when playing back videos frame by frame

- Through Remote ViewLog of CD version, Video Server files are playable on the PC without GV-System

- New features to mobile phone applications, including

    – Support for 4, 9, and 16 screen divisions

    – PTZ control by directional buttons

    – Channel switch by middle button

    – Support for Nokia S60 3rd Edition

Fixed:

- COM port conflict between the GV-Wiegand Capture device and the HyperTerminal application

- Failure to repair the data saved under the root directory by EzRepairlog

- Option of "Object Tracking Start" could not be saved

- Black screen, instead of "GeoVision" screen, appeared when the deactivated cameras were configured for GV-Wiegand Capture and POS system

- Failure when "Max Row in Each View" was set to 9999 in the POS Live View function with 16 GV-Wiegand Capture devices connected

- Failure of "Quick Search" to play certain POS data after WebCam applications (Remote Playback and POS Live View) retrieved POS data

- POS data unavailable in system log when the POS system created a large amount of garbage text

- Incorrect search result for camera 16 when using "Quick Search" to find POS data

- Incorrect matching of text and color in the POS Color Text function

- The problem only occurred in Hebrew version

- Scan errors in the DSP Spot Monitor function where disabled channels appeared during camera scan

- System errors when the "Camera / Audio Install" dialog box were dragged and dropped on the PC without hyper-threading and installed GV-800 4A Card as well

- Failure to merge audio files in the Save As AVI function when using "Remote ViewLog" to connect Video Server

- Difficulty of selecting cameras in the "Password Setup" dialog box in Japanese version
- Incorrect system restart in the TV Quad function when clicking the "Zoom Esc" button on TV Quad Panel right after channel popup
- ViewLog failure when the three settings were met together: "Apply Scaling Render" disabled; "Multi View" or "Quad View" selected; 640 x 480, 720 x 480 or 720 x 576 resolution applied
- ViewLog failure when dragging scroll bar and then clicking the Play button
- ViewLog failure when Scaling, De-interlace and De-blocking were all disabled, and following behaviors were applied one by one: zoom in the image, switch to full screen, and then zoom out the image
- ViewLog could not update events when recording and playback were run at the same time
- Incorrect ID matching when DVR rebuilt connection to Center V2 through Dispatch Server
- Occasional malfunction of menu options brought up by right-clicking the Center V2 subscriber in focus
- Connection failure when DVR of V8.1 earlier connected to Center V2 of V8.1 later. The problem only occurred in Hebrew version
- Failure when using the "Remote DVR" feature to access DVR with "Mini View" enabled
- Failure of "Remote Desktop" after this service was enabled and then disabled on the Control Center Server
- Failure of "Remove ViewLog" on Webcam MultiView when the Remote ViewLog was installed from Software CD
- Decrease of frame rates when using WebCam to connect to Video Server channels on DVR.
- Failed motion alarm on WebCam SingleView when using Internet Explorer 7
- Failure when upgrading from version 7.xxx series to version 8.100 or above
- Bluescreen appeared on certain Dell computers installed with GV-250, GV-600, GV-650 or GV-800 cards

Improved:

- Decrease of CPU usage by 10% when two GV-2008 cards are installed and resolution is set at CIF
- Recoverable Privacy Mask in EZViewLog
- Remote ViewLog of CD version, CMS, Video Server with added options
    - Auto play when ViewLog starts
    - Backup to CD
    - Default view mode when ViewLog starts
    - Display the latest events for a period of set time
    - Water Mark available in the Merge AVI function

Changed:

- New driver V2274 for GV-250, GV-600, GV-650 and GV-800 cards
- New driver V2016 for GV-800 4A cards to solve audio problems at D1 resolution on the PC without hyper-threading
- New driver V2020 for GV-800 4A cards to solve the freezing problem at D1 resolution on the PC with Core 2 Duo CPU
- New driver V1213 for GV-2004 and GV-2008 cards
- For Combo Cards (GV-1120/1240/1480/2004/2008), de-interlace is always enabled on DSP Overlay image of single channel
- Videos from Video Server retain the same attributes instead of replacing with DVR's

Version 8.1.1.0 2007-02-02

New:

- Center V2 supports voice communication with GV-Video Server

Fixed:

- ViewLog errors when the GV-Video Server without attachment of storage device was connected using the Remote ViewLog
- Video lost image from GV-Video Server remained even after a new channel from GV-Video Server was replaced
- System errors when the image of more than 32 bits was used for GV-Wiegand Capture database
- In the TV Quad function, the channel 12 may have abnormal display in the screen division of 12 during page scan
- Text overlay remained in the very first frame even after the "Apply text overlay POS/GV-Wiegand render" was disabled in ViewLog
- In EzViewLog, the shortcut key "R" for reloading database was not working. (The problem occurred in all language versions except English.)
- Incorrect data repair in GV-Video Server
- Center V2 errors during unstable connection
- Malfunction of E-Map in Center V2
- The connection could not be automatically re-established for channels 5-16 in MultiView.
- ViewLog errors when the CMS Server was closed while the client was connected using the Remote ViewLog

Version 8.1.0.0 2006-12-20

New:

- ➢ New features to Main System

  - Support for GV-2004 and GV-2008 Cards
  - Support for GV-Video Server
  - Support for GV-Wiegand Capture
  - Support for the screen resolutions: 1600 x 1200, 1680 x 1050 and 1920 x 1200
  - Video Lost Watchdog stoppable
  - Password expiration and management
  - Support for GV-Multi Quad Card
  - Face Detection
  - Virtual I/O support for GV-Video Server and GV-Wiegand Capture
  - Support for Visual Automation and PTZ Automation
  - PTZ Idle Protection - Network Port Information
  - New dome support: Samsung (SPD-3300), HiSharp HS-CC610 (Pelco D), HiSharp HS-CC610 (Pelco P), LG (LPT-OS553HQ), NanWang (NVD 2300PNT) and EverFocus (EPTZ 1000/500)

- ➢ New features to POS

  - POS Color Text
  - Overlaid text on screen changeable during recording
  - New device GV-Data Capture V3E that features the connection between POS and DVR over Internet

- ➢ New features to System Log

  - Sent e-mail and SMS messages indicated
  - POS color text indicated in color

➢ New features to ViewLog

- Support for screen resolutions: 1600 x 1200, 1680 x 1050 and 1920 x 1200
- Support for GV-Video Server
- Timeline search
- Play mode option added on screen display when GV-IR Remote Control or GV-Keyboard is in use
- Privacy Mask
- Support for touch screen

➢ New features to Center V2

- Support for screen resolutions: 1600 x 1200, 1680 x 1050 and 1920 x 1200
- Address Book imported and exported
- Backup Server
- Alarm Report - New codec added: Geo Mpeg4 (ASP)

➢ New features to VSM

- Support for GV-Video Server
- Alarm Report
- Address Book imported and exported
- Backup Server

➢ New features to Dispatch Server

- Support for GV-Video Server
- Address Book imported and exported
- Backup Server

➢ New features to WebCam

- New codec added: Geo Mpeg4 (ASP)
- New mobile applications added: GView V2, MSView V2 and SSView V2 and SSView V3 for Nokia S60 2nd
- GV-Video Server supported by MultiView
- Screen resolutions supported by MultiView: 1600 x 1200, 1680 x 1050 and 1920 x 1200
- GV-Video Server and PTZ control supported by E-Map
- Support for Visual Automation and PTZ Automation
- Support for Remote ViewLog

- Support for POS Live View

➢ New features to Control Center

- New codec added: Geo Mpeg4 (ASP)
- Support for E-Map - PTZ supported by Matrix
- Visual PTZ, Virtual I/O supported by Matrix
- Instant Playback supported by Matrix
- Support for screen resolutions: 1280 x 1024, 1600 x 1200, 1680 x 1050 and 1920 x 1200
- Narrowband connection supported by Remote Desktop
- Live View Toolbar added
- File Transfer supported by Remote Desktop

➢ New features to Authentication Server

- Backup Server

➢ New application

- E-Map Server

➢ New devices

- GV-Video Server
- GV-Data Capture V3E
- GV-Wiegand Capture

Fixed:

- Malfunction of DSP Spot Monitor and TV-Out features when Directdraw Overlay failed
- "Never Recycle" error where only the first and last pre-record files were marked as "Never Recycle" while the rest were unmarked, when both of the "Pre-Recording" and "Never Recycle Input-Triggered Events" were configured
- An issue with PTZ Object Tracking. When this feature was enabled for several days, it might cause high memory usage and system failure
- Failure to back up the Advanced I/O settings in the FBR program
- Freezing of Matrix occurred when receiving more than 64 channels with H.264 codec
- Communication error at Center V2 occurred when the DVR using earlier version than 8.0 connected to Center V2 of version 8.0 during the unstable bandwidth
- Freezing of Dispatch Server when the Center V2 with many DVRs was connected
- Error message "Load AudioServer Fail" appeared when the WebCam server was enabled in

certain computers with slower on-board audio chip

- Import failure at MultiView when importing more than 100 hosts

Improved:

- SMTP port and "Domain name from DDNS" are added to the E-Mail server
- Motion sensitivity of 9.1 to 9.9 is added
- Video Format of 640 x 480 and 720 x 480 (720 x 576) supports the wave-out function
- Audio indicator is added to each channel to show the incoming audio
- Backup supports the direct burn using Nero version 6.6.0.1 or later
- Recorded files are playable on other computers without the need of installing Codec
- The "Save as AVI" and "Save as BMP" functions support the export of Watermark and Deinterlace
- Different text alignment can be defined for each channel
- The "Show Object" option is added to Object Index. When the option is enabled, the motion area will be highlighted with a blue frame
- The number of cameras for setup in the Object Counting is increased from 4 to 16 channels
- New option of creating shortcut to a program or file is added to the FBR program
- E-Mail alerts contain URL links for remote playback

Changed:

- The default motion sensitivity is set to 9.5 instead of 9.
- Codecs of Wavelet and Mpeg 4 are removed. Video formats of 720 x 240 (720 x 288) and 640 x 240 are removed.
- The PTZ control panel is optimized.
- The maximum number of channels Matrix View provides is increased from 64 to 80 for the resolution 1680 x 1050, and 96 for the resolution 1920 x 1200.
- TwinDVR supports the 3GPP function.

Version 8.0.1.0 2006-05-22

Fixed:

- The issue with Hot Swap HDD Tool (MediaManTool.exe). When the MediaManTools ran in the background and you partitioned a HDD, the Tools would detect the new partition and pop up the "Find some partitions. What do you want?" window with the "Delete all events" option enabled. When you selected that option from the popup window, the Tools would delete the data from other partitions instead of the new partition.

- The issue with Hot Swap HDD Tool (MediaManTool.exe). The HDD status did not display "Recording" when you only enabled one camera for recording.

- The issue with Hot Swap HDD Tool (MediaManTool.exe). The MDB and Object Index data were deleted as well when you deleted DVR event data if the three types of data were saved at the same directory.

- Failure of running auto scan on the Spot Monitor Panel.

- Failure of operating Preset Go, Preset Set and Auto Scan functions on JEC Dome.

- The Main System hanging issue when enabling auto scan on the Spot Monitor Panel with WebCam activated and video resolution set to 720 x 480 (640 x480) as well.

- The Spot Monitor hanging issue when the 16th channel was switched to the 1st channel with the "Auto Scan" option activated in the Spot Monitor Controller.

- The issue with Windows 2000 where you could not save BMP and GIF formats by using the "Save As BMP" function in ViewLog.

- Abnormal display of the Object Search interface running from the backup files after selecting the "Using CD/DVD" option in ViewLog for backup.

- Failure of running EZViewLog to access backup files after using DMBackup.exe for backup.

- Failure of backing up files by using System Log when the total number of recorded files of one camera exceeded to 1500.

- The issue with WebCam Server that failed to restart, as well as causing the deletion of certain files at C:\, after Auto Reboot.

- The incorrect display of PAL resolution of 720 x 576 at WebCam Sing View mode.

- Codec errors occurred when using Microsoft Access to access AVI files in Center V2.

- The conflicting issue between antivirus software and Digital Signatures.

Changed:

- New driver V1519 for GV-1120, 1240, 1480 cards. New driver V1036 for GV-Hybrid DVR cards

Improved:

- Maximum time of post recording up to 600 sec., compared to the previous version with 10 sec

Version 8.0.0.0 2006-03-08

The version 8.0 only supports the following GV video capture cards: GV-250 All Series, GV-600(S) V3.21 V3.20, GV-650(S) V3.31 V3.30, GV-800(S) V3.31 V3.30, GV-1120 V1.02, GV-1240 V1.02, GV-1480 V1.02, GV800-4A V3.10

New:

➢ New features to Main System, including

- New codecs Geo H264 and Geo MPEG4 ASP
- A new skin "Silver Style"
- Scene Change Detection
- Privacy Mask
- Advanced Motion Detection
- POS Live Viewer
- Spot Monitor Controller
- Input status detection
- Prerecord of up to 45 min using HDD as a buffer
- Advanced Round-the-Clock Recording
- Flashing alert boxes of Object Monitor included in recorded files
- Instant playback
- Support for more PTZ domes: D-MAX Dome, DynaColor Dome, GKB SPD-22I, JVC TK-S576B/S655, and MESSOA SDS600 series (capable of object tracking)

➢ New features to ViewLog, including

- A new skin "Silver Style"
- Access to a remote ViewLog through TCP/IP
- Object Index feature added to EZViewLog
- One-time backup of files from multiple time ranges

➢ New features to remote applications, including

- A new skin "Silver Style" added to Center V2, WebCam and Remote Playback Client
- E-Map feature added to Center V2 and TwinDVR
- A new codec "Geo H264" added to Center V2, WebCam and Control Center
- Events classified to "Normal" and "Emergency" in Center V2 and VSM
- Arming and disarming I/O devices of a remote DVR from Center V2, WebCam and VSM
- Input status detection when starting connection to Center V2 and VSM
- Quality and size adjustment for video sent to Center V2, WebCam and Control Center

- Auto port mapping by UPnP for Center V2, VSM, WebCam Server, Authentication Server and Remote Playback Server
- E-Mail and SMS alerts available in Dispatch Server
- SSL Network security
- Remote monitoring via 3G mobile phones
- Remote configuration of video attributes, recording and I/O monitoring from WebCam

➢ New applications, including

- Control Center: the solution for central monitoring station (CMS) - Fast Backup and Restore: changes skin, customizes system features as well as backing up and restoring settings

Fixed:

- Connecting interruption to some cameras under narrowband transmission to Center V2
- Incorrect search result of POS data in Quick Search
- The issue of GDI value in POS applications, where an error occurred when the system continuously received data from 4 POS systems for about one week
- Malfunction of main system while recording and using ViewLog in multiview playback for several hours

Changed:

- Video lost image replaceable now
- Delay Time setting in Object Monitor enhanced to 3-1800 sec with user-defined option
- The "Start/Stop monitoring by I/O" method changed to two options: "Start/Stop camera monitoring by I/O" and "Start/Stop I/O monitoring by I/O"
- New driver V2260 for GV-250, 600, 650, 800, 900 cards
- New driver V1121 (video) and V1111 (audio) for GV-800 4A cards
- New driver V1518 for GV-1120, 1240, 1480 cards
- New driver V1032 for GV-Hybrid DVR cards

Improved:

- Backup and Delete features available in EZViewLog
- Support for audio in DVD format export of video
- Support for up to 500 subscribers in Center V2
- Support for up to 40 audio channels in WebCam

Version 7.0.5.0 2005-11-15

Fixed:

- An issue with GV-Hybrid DVR Card when enabling "Text Overlay". Error in displaying the correct camera No. for the first recorded event (Camera16 was shown in first few frames for every camera)
- An issue with ViewLog. When users, with limited camera view right, accessed ViewLog while recording process was running, they could access all cameras for playback
- An issue with GV-800 4A Card where live audio noise occurred on WebCam and Center V2

Changed:

- New .dll V1212 for GV-DSP G1 Card for smooth images
- Renew VeriSign digital signature for WebCam

Version 7.0.4.0 2005-08-19

New:

- New features to Main System, inluding
  - Support for GV-800 4A Card
- New features to ViewLog, including
  - Support for full screen mode
- New features to remote applications, including
  - Support for the Rotate function in MSView (for Microsoft Smartphone) and SSView (for Symbian Smartphone) applications

Fixed:

- Screen freeze occurred in Directdraw Overlay when using the 6th series of nVIDIA GeForce VGA cards
- Driver's compatibility issue where you could not run the System when using GV-600 V2, V2.04 and V2.07 cards
- "Used Space" error in Advanced Backup when backing up more than 1500 recorded events
- Incomplete display of the ViewLog window upon restoring from a minimized position
- A rare issue caused by RSA encryption where remote applications of Center V2, WebCam, Remote Playback and Authentication servers could not be run
- The connectivity problem in MSView if not using Port 80
- Failure to control more than one PTZ in I/O module using GV-Keyboard or GV-IR Remote Control

Changed:

- New driver V2.2.5.0 for GV-600 V2 cards

Improved:

- GV-Hybrid Card supports Watermark and Checksum functions
- GV-Hybrid Card supports Camera/Time stamps in live view and playback

Version 7.0.2.0 2005-06-24

New:

- New features to Main System, including
  - Support for GV-1120, GV-1240 and GV-1480 Card
  - New administrative options in Password Setup: Delete EventLog (deleting files from the Video Event list) and Execute DMBackup-Delete (deleting files from DMBackup)
  - Support for more PTZ models: Kampro K-ZC23, Chiper CPT-V9KRV, Minking Minking, Minking Yaan, GANZ ZC-S122, Elbex, JEC, TOA CC551, BOSCH TC700 & TC8560
- New features to ViewLog, including
  - Backup, Save AVI and Save BMP functions accessible in LAN ViewLog
  - Automatic refresh of the Video Event list in LAN ViewLog
- New features to remote applications, including
  - PTZ Home, Auto Focus and Auto Pan functions available in Center V2 and WebCam
  - User accounts import and export in Authentication Server

Fixed:

- An issue causing Quick Search to hang or respond slowly when searching from last transaction event of one date to the first transaction event of a new date
- An inconsistency between GV-DSP Card and GV-Capture Card, where transaction data were still running on the screen while the transaction already stopped
- A glitch causing ViewLog to hang when your PC did not install audio devices
- Failure to play backup CD in the computer with GMT minus time zone settings, i.e. US and Canada
- A problem where DMBackup could not back up the video files of 1280 x 1024 screen resolution
- A Hybrid DVR Card issue where frames of approximately one second lost after each video clip in the round-the-clock recording mode
- Failure to install the SSView program into Symbian smartphones
- Reverse display of images downloaded from Object Index on WebCam's RPB
- Failure of audio retrieval on WebCam's RPB

Changed:

- Removed case sensitivity for key words entered in Quick Search
- Remote E-Map supports up to 500 hosts, compared to the previous version with 10 hosts
- New driver V2.2.4.9 for GV-250, 600, 650, 750, 800 and 900 cards
- New driver V1.0.7.6 for GV-1000 cards

Improved:

- 12-screen divisions support with GV-DSP Card for live display
- Shorter repairing time at startup after GV-System unexpectedly shuts down

Version 7.0.0.0 2005-03-24

New:

➢ New features to Main System, including

- Screen resolution up to 1280 x 1024
- Higher NTSC resolution support of 720 x 240, 720 x 480 and 720 x 480 (De-interlace); higher PAL resolution support of 720 x 288, 720 x 576 and 720 x 576 (De-interlace)
- Support for more PTZ domes: Directed Perception PTU-D46, SAE DR-E588, Kenko DMP23H1, Pelco Spectra 3 (capable of Object Tracking)

➢ New features to ViewLog, including

- Continuous playback of set frames A to B
- Aspect ratio option of 4:3 and 16:9
- Support for Windows XP/Server 2003 burning software, directly burning files into CD media
- AVI format export in multiple screens mode
- EXE format export, playable with any third-party players
- DVD format export for Hybrid Card-format files, playable with any DVD players

➢ New features to remote applications, including

- Screen resolution up to 1280 x 1024 in Center V2 and Remote Playback Client Site
- Enhanced network security with RSA encryption
- E-Mail alert from Center V2
- Display of group subscribers' hard disk capacities in VSM
- Remote monitoring via Windows and Symbian based Smartphone
- Object Index search from WebCam RPB

➢ New features to POS, including

- Codepage Mapping: supports special characters and symbols display

➢ New applications, including

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

➢ New accessories, including

- Hybrid Card: supports hardware compression and DVD format export - GV-Keyboard

Fixed:

- Audio delay occurring in heavy CPU usage
- Low quality playback in the bigger size screen of 6, 8, 10, or 12 screen divisions when the Scaling Render function was enabled (For the 9 screen divisions, the quality problem would occur in every screen.)
- Blinking single view during playback when motion detection activities were very frequent

Changed:

- New driver V2.2.4.8 for GV-250, 600, 650, 750, 800, and 900 cards
- New driver V1.0.7.4 for GV-1000 cards

Version 6.1.1.0 2004-12-15

New:

- New features to Main System, including

  - Support for Pelco Protocol-D
  - Support for Pelco Protocol-D (DRX502)
  - Support for the Pelco OSD menu

- New features to SMS, including

  - Message filter function
  - Auto-saving the PIN number
  - Display of client login/logout status

- New features to Dispatch Server, including

  - Display of Subscriber Information by right clicking the subscriber in tree view
  - Display of Camera/Audio Control Panel by right clicking the online subscriber in tree view
  - Option for changing to another Dispatch Server when the serving server breaks down

- New features to Center V2, including

  - Additional 6 screen divisions for single monitor and 9 screen divisions for dual monitors
  - Auto re-connecting with Dispatch Server

- New features to VSM, including

  - Sends E-mail alert
  - Allows VSM to inquire the storage information from subscribers
  - Reports subscribers'free storage space to VSM

Fixed:

- Green recorded images when codec default was "Wavelet"or "Mpeg4", and you changed it to "GeoMpeg4" in Advanced Video Attributes
- Distorted single view when using onboard VGA card (Intel 915G or 865G), enabling deinterlace and setting resolution to 640 x 480 simultaneously. (The bug can be fixed if replacing the onboard VGA card with an extra VGA card.)
- Higher CPU usage when QuickSearch played back the POS recorded files consisting of date changes (i.e. recording started at p.m. and ended at a.m.)

- Higher CPU usage when video lost on the POS mapped camera or users disabled it manually.
- Error message "Can not find Avi file" would appear and lead to ViewLog crash when you located the damaged .avi and .db files in Object Search
- Overloaded system log due to the trigger of missing and unattended object events every second
- Date format in saved .avi files would not follow OS date format
- Error message "Not responding" would appear when Repair Database Utility was running and you switched to other programs/windows
- Error message "RemotePlayback Error", which is a codec error, would appear when playing video in Remote Playback Client Site
- Connection problem with WebCam that was unable to release offline channels at times
- Error message "DMWebcam Error", which is a codec error, would appear when playing video in WebCam
- Improper display for video lost screens

Changed:

- New driver V1.0.7.2 to fix GV-1000 cards green screen problem

Improved:

- Better saturation and color accuracy for DSP cards

Version 6.1.0.0 2004-10-07

New:

- ➢ New features to Main System, including

  - Unattended and missing object detection: Highlights the locations and sends out alerts
  - Windows Lockup: Launches GV-desktop to lock up Windows
  - SMS alerts available
  - Alarm on objects passing between predefined regions
  - Object tracking and zooming by PTZ dome
  - E-Map: Highlights the triggered cameras and I/O devices on an electronic map
  - Image size indicator: Displays the file size after quality and image adjustment
  - Enlarged PTZ and I/O device panels with touch screen support
  - Deactivate alerts when the selected input is active
  - Option for recycling the input-triggered events

- ➢ New features to ViewLog, including

  - Object index for a quick search
  - Backlight compensation
  - Export a video footage within a specified time range

- ➢ New features to remote applications, including

  - Support 640 x 480 S/W resolution on WebCam
  - Record live video on WebCam Multiview
  - Multiple host connections on WebCam Multiview: Supports multiple cameras from separate hosts
  - SMS alerts available on Center V2 and Vital Sign Monitor

- ➢ New features to POS, including

  - POS Field Filter: Filters and displays transaction data under the created fields in System Log
  - Loss Prevention: Activates the alarm when the defined price range occurs
  - Cash drawer input setting: Activates the alarm when the cash drawer is open

➢ New applications, including

- Vital Sign Monitor (VSM): Monitors unusual status of multiple surveillance sites
- POS Data Sender: Supports graphic-mode POS systems

➢ New accessories, including

- IR Remote Control: Controls Main System, PTZ and ViewLog
- GV-IO 12-In Card and GV-IO 12-Out Card: Extend the GV-NET/IO Card to a total of 16 inputs/outputs

Fixed:

- Image breakup when applying both 640 x 480 S/W resolution and GeoMPEG-4 in remote playback applications
- Repeating download of WebCam Mulitview when different versions are connected
- Audio malfunction in Center V2
- Error message "GeoCodec Error Message" that would appear when you connected to WebCam Server for a long time
- A bug with GV-DSP card. In previous versions when video lost, the transaction data still kept on displaying on screen. Now when video loses, the data will also disappear on screen

Changed:

- Default Codec set to GeoMPEG-4
- Default DirectDraw Overlay set to ON
- New driver V2, 2, 3, 5 for GV-250 / 600 / 650 / 750 / 800 / 900 cards
- New driver V1, 0, 6, 8 for GV-1000 cards

Improved:

- Synchronized audio and video in Main System, ViewLog, WebCam and Center V2
- Main System supports up to 1000 accounts for logins and passwords
- Center V2 Pro supports up to 50 subscribers and 800 channels
- Dispatch Sever supports up to 25000 subscribers
- Enhanced pre-record performance up to 90 fps, compared to the previous version with 60 fps
- Extended length of exported AVI files up to 1 hr, compared to the previous version with 10 min
- New compression technology allows exporting of much smaller size images than earlier, thus conserving your disk space

Version 6.0.4.0 2004-04-29

- New driver for GV-1000 V1.21 card

Version 6.0.2.0 2004-03-18

- New settings for Point of Sale (POS)

Version 6.0.1.0 2004-02-16

- New settings for Point of Sale (POS)

Version 6.0.0.0 2004-01-14

- Directing PTZ dome to the preset position on alarm activation

- Screen pop-up on motion or alarm activation

- Main screen view with live audio

- Object counting

- Day-night recording mode

- Object search

- Thumbnail search

- Index search

- System log

- Twin DVR

- Dynamic DNS support

- Remote access log database over WebCam

- Samsung SCC-641 / 643 PTZ dome support

- GV-NET/IO card support

- Managing multiple servers over WebCam

- Newly developed video codec by GeoVision (GeoMPEG-4)

- Point of Sale (POS) integration

- Central surveillance by Center V2

- I/O devices triggers monitoring

- Video lost triggers I/O devices

- Video recycling duration from 1 day to 999 days

- New ViewLog with improved and more features

- New driver for GV-1000 V1.11 card

Version 5.4.0.1 2003-09-15

- New driver for GV-DSP real-time display card

Version 5.4.0.0 2003-09-02

- Video de-interlace filter
- Video auto gain controller (AGC)
- Mini View Display
- Screen minimizing protected by passwords
- AVI repaire API function
- Video scaling render
- Quad view for ViewLog
- GV-1000 video capture card (480 fps recording)
- GV-900 video capture card (240 fps recording)
- GV-250 with GV-DSP support and one channel audio recording
- GV-DSP-8 (240 fps real-time display)
- GV-A16-16 channels audio recording card

Version 5.3.0.2 2003-07-28

- Hyper threading support

Version 5.3.0.1 2003-07-07

- New driver for GV-DSP real-time display card

Version 5.3.0.0 2003-05-23

- Pre-alarm and pre-motion recording

- Passwords uninstall function

- ViewLog remote playback

- Samsung and Sensormatic PTZ dome support

- I/O NO / NC toggle modes

- I/O device triggered e-mail snapshot

- WebCam two-way audio

- Bandwidth control for Remote PlayBack and WebCam remote playback

Version 5.2.1.0 2003-03-26

- 1024 x 768 display resolution
- Post alarm recording duration increased from 120 seconds to 600 seconds
- WebCam real-time audio streaming

Version 5.2.0.0 2003-01-13

- Full screen display

- Auto skip null camera when running camera scan

- Post recording: 1-to-10-second recording after detected motion

- Video lost alert notification via either telephone or email

- I/O error alert notification via either telephone or email

- On screen video lost message

- 640 x 240 and 640 x 480 S/W resolution.

- Multiple network card support

- Automatic Window exit and restart

- User adjustable event log size

- Multi-level passwords

- Added auto hide PTZ and I/O control panel

- Added modem disconnect delay after e-mail or telephone alert (motion detection)

- Synchronize video and audio history data

- Auto log-in

- Popup PTZ and I/O control panel for WebCam.

- View M-JPEG videos in Mac OS Internet Explorer

- New WebCam User Interface

- New Remote PlayBack User Interface

- Audio playback and download function in Remote PlayBack

- Auto gateway IP address detection

- PTZ support: Sony EVI-D100, Panasonic WV-CS850, Kalatel Dome, and Mintron 22X zoom

- Remote view via Microsoft Pocket PC (G-View)

- Remote view via i-Mode mobile phone

Version 5.1.0.0 2002-07-12

- Real-time display card (GV-DSP), allowing GV system to display video in real-time at 30 fps (NTSC) and 25 fps (PAL) per channel through one composite video output for connecting an external display monitor
- Audio recording
- Simultaneous audio and video playing back
- Remote playback through TCP/IP
- Remote playback through Microsoft(c) Internet Explorer browser
- E-mail notifications when I/O device or video motion detector is triggered
- Auto detect dynamic IP (DMIP)
- Dual display support
- User defined frame rates
- PTZ control interface (WebCam)
- I/O status and server information (WebCam)
- DVD+RW backup support