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## GV-VMS Version History

### Version 18.3.1 2022-07-01

#### New:

- Support for UA-HD DVR models: UA-XVR810, UA-XVL810, UA-XVL1610 (only **analog** channels supported and **HD DVR** license required)
- Support for UA-IP camera models: UA-R500F2, UA-R560F2, UA-R580F2, UA-R800F2, UA-B580F3 (**3<sup>rd</sup>-party** license required)
- Support for GV-IP camera model: GV-TFD4800

#### Fixed:

- Chances of live view errors through WebCam Server on non-IE browsers unless manually set to main stream
- Connection failure to GV-VMS with the Remote Authentication activated, through GV-Remote ViewLog V2
- Failure to update ID and password memorized for privacy mask configuration when merging / exporting videos
- Failure to add GV-I/O Box to GV-VMS
- Chances of incorrect image alignment displayed on GV-FER5702 channels when disconnected and connected again (Patch V18.3.0.2)
- Chances of fisheye dewarping images failed to appear, displaying a "Disconnected" message, on GV-FER5702 channels when disconnected and connected again (Patch V18.3.0.2)
- Chances of the Add button on the PLC list (PLC Device Setup) grayed out and unstable
- Issue of abnormal 3D E-Map display in GV-Remote E-Map
- Issue of live view glitches at 2560 x 1440 and H.265 when connected to the following GV-IP camera models:
  - GV-ABL / TBL 4xxx / 8xxx Series
  - GV-ADR / TDR 4xxx / 8xxx Series
  - GV-AVD / TVD 4xxx / 8xxx Series
  - GV-BLFC5800
  - GV-EBD 4xxx / 8xxx Series
  - GV-EBFC5800
  - GV-PTZ5810-IR
  - GV-SD4825-IR / SD4834-IR
  - GV-TFD Series



#### Modified:

- Redundant audio files removed in GV-VMS (V18.3.1), GV-Remote ViewLog V2 (V17.4.2A), GV-Remote E-Map (V18.3.1) and GV-E-Map Server (V18.2.0A)

### Version 18.3.0 2022-04-01

#### New:

- Support for the following IP camera models:  
GV-BLFC5800, GV-EBD2704 / 4704 / 4813, EBFC5800, GV-FER5702, GV-LPR2811-DL, GV-PTZ5810-IR, GV-QFER12700, GV-QSD5730-Outdoor, GV-SD4834-IR / SD4825-IR, GV-TBL2705 / 4705 / 4810 / 8810, GV-TDR2704 / 4704 / 4803 / 8805, GV-TFD4700, GV-TVD4810
- PVD detection for detecting people and/or vehicle motions (up to 16 CH)
- Support for AI events (Intrusion, Enter Area, Leave Area, Cross Line) from AI-capable GV IP cameras, allowing users to trigger output alarms, computer noise, live view popup and send e-mail alerts upon AI events, as well as querying for AI events in Advanced Log Browser
- Smart Motion Search to search for motion on recorded videos by defining regions of interest
- Support for e-mail notifications upon trigger of output devices
- Support for tracking moving objects on the live view using a pair of GV-Fisheye Camera and GV-Speed Dome Camera
- Display of POS transactions only (no live view) on any of screen divisions
- Support for IPv6 on WebCam Server
- Support for adding multiple GV-Live Streaming (GV-Relay) accounts of separate channels on GV-VMS
- Support for restarting an IP camera through its connected GV-POE switch with the Web management functionality
- Support for using the ANR (Automatic Network Replenishment) function of GV-ABL / ADR / AVD / EBD / TBL / TDR / TVD series to switch to recording on the SD card upon disconnection
- Image orientation of Corridor format (Rotate 90 and Rotate 270) added to the following models:  
GV-ABL2701 / GV-ADR2701 / GV-TBL4711 / GV-ABL4711 / GV-TVD4711 /  
GV-EBD4701 / GV-EBD4712 / GV-TDR4703 / GV-ADR2702 / GV-ADR4702 /  
GV-ABL2703 / GV-ABL4703 / GV-TDR2702 / GV-TDR4702 / GV-TBL2703 /  
GV-TBL4703 / GV-TVD4700 / GV-TBL4700



**Fixed:**

- Inability to detect motion events from GV-QSD series using the built-in motion detection function (Patch V18.2.1.1)
- Connection issue with Avigilon 9C-H4A-3MH-270, with bitrate transferred displayed as 0 (Patch V18.2.1.1)
- Inability to add the 3rd-party camera iCAM 84S5SA-IR (Patch V18.2.1.1)
- Issue of live view error (Patch V18.2.1.1)
- Chances of failure to start scheduled monitoring or remote services (Patch V18.2.1.2)
- Failure for recording to a network drive when the Active Directory is in use (Patch V18.2.1.4)
- Failure to enable fisheye dewarping with the backup files using the EZ ViewLog player (Patch V18.2.1.4)
- Chances of system error when using the POS Search or System Log (POS Table) to search for POS events (Patch V18.2.1.6)
- Issue of displaying the abnormal disks in the wrong sequence under the Storage Space status on the main screen (Patch V18.2.1.6)
- Inability to play back recordings of GV-VMS from GV-Control Center / Edge Recording Manager using the Single Player when the username or password of GV-VMS includes the special character "@" or ":"
- Failure to switch to using camera's built-in motion detection if the motion detection setup has not changed before upgrading to GV-VMS V18.2
- Motion detection incorrectly switched to using camera's built-in motion detection if the motion detection setup was changed before upgrading to GV-VMS V18.2
- Issue with connected GV-SD200 with Preset names misplaced and the Preset function not able to be set (fixed 10)
- Failure of GV-QSD series' live view using the Remote Camera Setting (right-clicking a GV-QSD camera on the IP Device Setup window)
- Unneeded message "Input number of seconds between 1-900" popping up right after adding the I/O devices of GV-Video Server
- Chances of broken images during playback due to video files damaged when the sector size of a network disk or storage system exceeds 512 bytes
- Inability to use the zoom function of connected ACTi A418 IP cameras
- Issue of "Use Remote Authentication" being disabled when GV-VMS automatically restarts after a sudden PC reboot with all the three options enabled: Remote Authentication, Startup Auto Login Setup and Startup (WebCam Server)
- Failure to print an image when the width and height are set to 700% or higher
- Inability to play back the first recorded file on the Remote Playback of WebCam Server using non-IE browsers



- Chances of system error after the loading to play back a recorded file completes on the Remote Playback of WebCam Server using non-IE browsers
- Chances of live view lag from the connected channels if a certain number of other channels disconnected
- Chances of live view lag of PTZ cameras
- Failure to access the PLC Device Setup option (Home > Toolbar > Configure > Accessories > PLC Device Setup) in GV-VMS when the current system locale is set to Japanese (Japan)
- Chances of green images occurred when switching from multiple screen divisions to single screen division, using 10<sup>th</sup> and 11<sup>th</sup> generation Intel processor
- Issue of GV-Desktop error
- Failure of the “Start/stop I/O Monitoring by I/O” function if GV-VMS is not closed but the PC is restarted
- System error occurred after failing to receive video attributes from the third-party camera FLIR PE133E
- Issue of text overlay, in the videos saved and exported in AVI format, being bigger in the split exported files
- Failure to send e-mail notifications upon connection lost if an odd number of seconds is specified for the “Video Lost / Connection Lost” option in General Settings
- Issue of triggering correct I/O devices which are connected to the third-party cameras: Dahua IPC-HDBW5842H-ZHE or Hikvision iDS-2CD7A26G0-IZHS

**Modified:**

- Names of input and output devices editable and allowed to be reset to those on the I/O device’s Web UI
- The Network Congestion prompt allowed to be disabled
- Support for configuring the video attributes of third-party cameras connected through ONVIF
- The Auto Monitoring option enabled by default now
- System Log options (Monitor, POS, CMS Tables) moved from the toolbar of ViewLog to that of Live View
- Support for Power User accounts to be used for the Double Password to start ViewLog
- Support for dragging a detection zone’s vertices to adjust its shape and size in Object Search
- Support for recording to the System Log when the system settings are changed
- Improved configuration of adjusting Region Sensitivity value in the Advanced Motion Detection Setting dialog box
- Default resolution of 2nd stream now changed to 1280 x 720 for 8 MP cameras connected
- Support for pre-record, post-record by channel now
- Virtual memory allocation refined



- The term “Motion Detection” in Record Type renamed to “Events Detections” and the term “Motion Detection Recording” in Schedule renamed to “Events Recording”
- Support for displaying the notes of Virtual Automation regions on the live view
- Support for downloading Face Group settings (Face Manager > Group Setup) from GV face recognition systems and cameras for editing
- Support for setting up to 100 tasks of merging multiple videos using the Save as AVI function
- Support for defining PTZ tracking pause for a specified time
- The Disable PTZ Operation option added to the right-click drop-list of a PTZ camera on the IP Device Setup page
- Support for syncing GV-VMS system time to the camera once connected



## Version 18.2.1 2020-11-24

### Fixed:

- Failure to restore ID and password settings using the Fast Backup and Restore (FBR) program
- Error messages repeatedly occurred in Windows Logs, indicating GeoStartupAgent cannot be found

### Modified:

- HDD status of Unknown Disk removed from the main screen

## Version 18.2.0 2020-10-30

### New:

- Support for Windows Server 2019
- Support for GV-QSD5730 / 5731-IR speed dome cameras
- Adding support for guiding users to create passwords for the following models of GV-IP cameras (with the latest firmware version) without default passwords upon connecting:
  - GV-ABL / ADR / AVD / EBD / TBL / TDR / TVD series
  - GV-SD2322-IR / 2722-IR / 3732-IR
- Support for changing the image orientation for the following IP camera models:
  - GV-ABL / ADR / AVD / EBD / TBL / TDR / TVD series
  - GV-SD2322-IR / 2722-IR / 3732-IR
- Support for integrating Cross Line, Intrusion, Object Remove, Object Left and Scene Change video analytic events, which are recorded as Intruder or Advance Scene Change events, from the following IP camera models:
  - GV-ABL / ADR / AVD / EBD / TBL / TDR / TVD series
  - GV-SD2322-IR / 2722-IR / 3732-IR
- Support for disconnecting and round-the-clock recording of mobile device cameras connected via GV-Live Streaming
- Color-coding camera channel volume indicators as orange for active recording
- Support for SIP protocol for 2-way audio communication (dial out only)
- Support for HDD status monitoring, and indicating abnormal disk on main screen upon detecting S.M.A.R.T. error indicators 05 / C5 / C6
- Support for remote live view and playback on non-IE browsers with JavaScript Decoder via WebCam Server
- Support for exporting recordings in MP4 format (audio not supported)
- Support for adding copyright text to Storyline videos
- Support for pinning Face ID list onto the live view layout for displaying realtime face recognition events



- Support for displaying Note 1 / 2 of the faces recognized on Face ID list and Face Recognition window
- Support for displaying Liveness Detection results of the faces recognized on Face ID list and Face Recognition window
- Support for exporting face detection / recognition event logs as .csv files from Face Recognition window
- Support for checking the statuses of any software license serial keys via License Activation Tool

**Fixed:**

- Images being upside-down when applying Zoom in, Effects or capturing snapshots on ViewLog for recordings recorded by H.265 codec
- Lacking text on Import Account button
- Inability to access Control Center Service of GV-VMS on Key Lock Utility
- Inability for the Report Generator to generate reports when system logs were saved at a storage path different from default (Patch V18.1.1.1)
- Chances of the sub streams of connected cameras unable to display live view or being displayed as Video Not Updated (Patch V18.1.1.1)
- Inability to draw mask regions in Advanced Motion Detection Setup (Patch V18.1.1.3)

**Improved:**

- Active monitoring of cameras in ensuring receiving motion events when using function Enabled Camera's Built-in Motion Detection
- DST button in ViewLog for only highlighting the dates with DST recordings on the calendar
- Only displaying the viewable timeline and events when connecting to IP devices using login credentials with time-limited remote access

**Changed:**

- Defaulting to use the built-in motion detection of IP cameras upon connecting (won't change the settings of IP cameras already connected)
- Audio codec changed to MP3
- Copyright notices added to the Installer and accessible within the software directory





For GV-Authentication Server

- Copyright notices added to the Installer and accessible within the software directory

For GV-Remote E-Map

- Audio codec changed to MP3
- Copyright notices added to the Installer and accessible within the software directory

For GV-E-Map Server

- Audio codec changed to MP3
- Copyright notices added to the Installer and accessible within the software directory

**Version 18.1.1 2020-03-17**

**Fixed:**

- Inability to run GV-VMS on German operating system

**Modified:**

- Message requiring a paid software license displayed when the installation of GV-VMS is initialized



## Version 18.1.0 2020-03-10

**Note:** GV-VMS is a paid software requiring a purchased license starting V18.1

### New:

- Requiring and authenticating a purchased license for upgrading to and running GV-VMS 18.1
- Support for GV-Live Streaming for connecting to the built-in cameras of Android / iOS mobile devices
- Support for adding GV-IP Decoder Box, for assigning and remote displaying of connected IP devices
- Support for two-way audio for devices connected through ONVIF
- Support for AES encrypted video streams of GV-IP cameras except for the following models:
  - GV-IP Speed Dome series
  - GV-ABL / ADR / AVD / EBD / TBL / TDR / TVD series
  - GV-FD8700-FR / VD8700 / VR360
- Support for applying a set of login credentials, username and password, to all connected IP devices
- Support for auto-tracking of GV-SD2722-IR / 3732-IR through PTZ Control Panel
- Support for synchronization of recordings from the local storage of the following models of GV-IP Cameras and ONVIF cameras (Profile G conformant) upon resume after temporary disconnection:
  - GV-BL2702 series / 3700 / 4702 / 4713 / 5700 / 5713
  - GV-BX2700 series / 2700-FD / 4700 series / 4700-E / 4700-FD / 5700 series
  - GV-EBL4702 series / EBL4711 / EDR4700 series / EFD4700 series
  - GV-EFER3700 / EFER3700-W / FER5700 / FER5701
  - GV-MFD2700 series / MFD4700 series
  - GV-VD2702 / 2712 / 3700 / 4702 / 4711 / 4712 / 5700 / 5711
- Support for adding copyright text to videos when exporting recordings
- Support for backing up recordings, to GV-Backup Center, excluding the latest number of days specified
- Support for POS Search for users to search for and play back the recordings of specific POS events
- Support for granting remote streaming of selected camera channels to WebCam Server and/or GV-Edge Recording Manager by schedule
- Support for connection to GV-Eye (V2.7) through GV-Relay QR-code scan
- Adding Report Generator tool for generating daily / weekly reports for GV-VMS events
- Support for remote live view and playback on non-IE browsers with JavaScript Decoder via WebCam Server



- Support for exporting recordings in zoom-in / zoom-out and focus view (Patch V17.3.0.2)

#### Face Detection & Recognition

- Support for recording face detection events by GV-Face Detection (FD) Cameras and displaying live face index, in normal or censored mode, in Face List
- Support for streaming live view and recording face recognition events from GV-FR Server, as well as managing its face database with the built-in Face Manager
- Support for face enrollment of GV-Face Recognition Cameras / GV-FR Servers directly from the live view and/or recordings of any connected camera
- Support for batch face photo and access card data enrollment to connected GV-Face Recognition Cameras / GV-FR Servers via the built-in Face Manager
- Support for pairing face profiles of GV-Face Recognition Cameras / GV-FR Servers with access cards to be used on controllers for automated access control
- Support for selective face data synchronization, while displaying the face photos of the IDs to be synchronized, between two or more GV-Face Recognition Cameras / GV-FR Servers
- Face ID window displaying the face IDs of realtime face recognition events in different color codes, predefined by face groups, for instantaneous distinction
- Support for displaying the time of recognition events of GV-Face Recognition Cameras / GV-FR Servers on E-Map
- Support for face recognition event and Face ID search, of GV-Face Recognition Cameras / GV-FR Servers, as well as face detection event search of GV-Face Detection Cameras, by face photo
- Support for manually removing face recognition and face detection events of GV-Face Recognition Cameras / GV-FR Servers and GV-Face Detection Cameras, respectively
- Triggering computer alarms upon specific types of face recognition events of GV-Face Recognition Cameras / GV-FR Servers selected
- Sending alert notifications to GV-Notify app upon face recognition events
- Executing the desired .exe application upon specific types of face recognition events of GV-Face Recognition Cameras / GV-FR Servers selected
- Support for sending e-mail alerts to varying recipients for different types of face recognition events
- Support for unknown faces, unrecognizable events, from GV-Face Recognition Cameras / GV-FR Servers to trigger alert events

#### For GV-Remote E-Map

- Support for live camera controls, including snapshot, 2-way audio and PTZ, on 3D Remote E-Maps
- Support for “Building View” for 3D Remote E-Maps



**Fixed:**

- Inflation of total CPU usage
- Inability to run GV-VMS after Windows 10 is updated to V1803 or later with “Beta: Use Unicode UTF-8 for worldwide language support” within Region Settings enabled
- Inability to automatically apply the storage paths for recordings when upgrading from GV-DVR / NVR to GV-VMS
- Focus value of connected IP devices displayed on GV-IP Device Utility being stagnant and unable to reflect the changes of focus
- Inability for the supervisor accounts of GV-Authentication Server to access channels with proper access rights after adjusting the access rights of any channel for those supervisor accounts
- Chances of image and/or alignment error when connecting to fisheye cameras through ONVIF
- Inability to set and/or perform the Preset functions of certain 3rd-party cameras connected
- Recordings exported in WMV9 and H.264 formats being inaudible when played with Windows Media Player
- Inability to display milliseconds on recordings during playback on GV-Remote ViewLog V2
- Inability to download recordings of GV-VMS on Web Viewer
- Inability to play back recordings on GV-Control Center and GV-Edge Recording Manager when accessing GV-VMS with passwords more than 128 characters long
- Inability to send alert notifications to GV-Vital Sign Monitor upon disconnection, and the following reconnection, of connected IP devices
- Inability to display the Face Groups of face recognition events of connected GV-Face Recognition Cameras
- Inability to instantly play back recordings of channels other than channel 1 from GV-VMS live view (Patch V17.3.0.1)
- Inability to save and export the positions of fisheye dewarped images as configured with Save As AVI (Patch V17.3.0.1)
- Inability to play back the recordings backed up with Local Backup (Patch V17.3.0.1)
- Chances of improper Face Group data displayed when accessing Face Recognition events in ViewLog (Patch V17.3.0.1)
- Inability to verify software licenses assigned to certain VIVOTEK and/or Arecont Vision cameras connected via SDK (Patch V17.3.0.5)
- Inconsistent status of GV-I/O Box displayed between remote applications and GV-VMS after which is restarted during an input trigger (Patch V17.3.0.5)
- Chances of I/O device icons not displayed on the Content List of GV-VMS after the PC is restarted (Patch V17.3.0.5)
- Chances of live image lag from 8 MP GV-ABL / AVD / EBD / TBL / TVD series (Patch V17.3.0.6)



- Chances of delayed and discontinuous live images from GV-ABL / ADR / AVD / EBD / TBL / TDR / TVD series with a low bit rate setting under 1 Mbps on Windows 7 (Patch V17.3.0.6)
- Chances of not displaying the camera names of channels as red on the live view upon input-triggered recording (Patch V17.3.0.8)
- Inability to access the functions within License Activation Tool of GV-VMS through Remote Desktop of GV-Control Center (Patch V17.3.0.8)
- Chances of system not responding when attempting to access the settings of IP cameras with incorrect login credentials within IP Device Setup window (Patch V17.3.0.8)
- Chances of time disparity to months not containing a 5th Sunday when daylight saving time was enabled (Patch V17.3.0.9)
- Chances of inability to switch to Main Stream on GV-Control Center and GV-WebCam Server after camera disconnections on GV-VMS (Patch V17.3.0.9)
- Audio malfunction on the recordings exported with H.264 or WMV9 video format playing with Media Player on Windows 10 version 1803 (Patch V17.3.0.9)
- Audio malfunction on certain 3rd-party IP devices (ISIS-MFD2100-3.2) connected through ONVIF (Patch V17.3.0.9)
- Inability to connect to the cameras of ACTi E59 and ChipER Technology CORP\_CPT-MG53 through ONVIF (Patch V17.3.0.9)
- Chances of producing an oversized video file after recording over a prolonged period of time (Patch V17.3.0.9)
- Inability to display the images in Corridor mode on GV-Eye connecting to GV-VMS (Patch V17.3.0.9)
- Chances of broken images of 8 MP cameras on GV-Eye connecting to GV-VMS (Patch V17.3.0.9)
- Chances of inability to access Sub Stream on GV-Eye connecting to GV-VMS after which restarts several times (Patch V17.3.0.9)
- Chances of inability to recycle events after prolonged loading of database due to oversized storage volume (Patch V17.3.0.9)
- Chances of Object Index disabled when recording is triggered first by motion detection and then RTC recording set through schedule (Patch V17.3.0.10)
- Inability to disable input devices of GV-VMS from remote applications (Patch V17.3.0.10)
- Chances of live images disappeared, striped or two channels displaying the same images (Patch V17.3.0.11)
- Inconsistent audio and video for recordings with noncontinuous audio input when audio was set to record by sensitivity (Patch V17.3.0.14)
- Chances of resetting the PTZ control panel when switching to another live view on the Zoom Window (Patch V17.3.0.14)
- Chances of inability to remotely instantly play back GV-VMS images on the Matrix of GV-Control Center (Patch V17.3.0.15)



- Chances of unstable image display or disconnection to GV-VMS when accessed from GV-Eye (Patch V17.3.0.16)

**Improved:**

- Displaying and requiring password strength to be “Normal” or above upon creating / changing login passwords
- Displaying “Video Not Updated” on the live view of camera channels that haven’t had new incoming video stream for 10 seconds or more
- Supporting the built-in motion detection function of 3rd-party cameras
- Repeated popping up of Popup windows during continuous trigger events
- Recording the details of which network parameter is invalid within system log when failing to connect to GV-IP Cameras
- Filtering of Object Index events, in ViewLog, by camera channel
- Displaying the face photo of recognized persons next to the event image in the Face Recognition query list
- Filtering of face recognition events of GV-Face Recognition Cameras / GV-FR Servers by groups, age and gender in Recognition Event query (age and gender only for GV-FR Servers)
- Enhanced audio quality for 2-way audio between GV-VMS V18.1 or later and GV-Center V2 V18.1 or later
- Enhanced video quality by enabling “Use Sub Stream FIFO” on CMS Server for simultaneous accessing of recordings by multiple GV-Control Center and/or GV-Edge Recording Manager from the same GV-VMS

For GV-Authentication Server

- Displaying and requiring password strength to be “Normal” or above upon creating / changing login passwords

**Changed:**

- GV-VMS V18.1 or later can only be installed on Windows 10 or above
- Moving “Enable Built-in Camera Motion Detection” to within Advanced Motion Detection Setup
- Limiting to 4 x 4 playback layout, by default, upon switching to ViewLog when there are 16 or more cameras of 8 MP and/or above connected
- Minimum value of “Interval of Motion Event” in System Log Settings changed to 3 seconds



#### Version 17.4.5B 2022-11-04

##### New:

- Support for Intel 12th gen GPU decode

##### Fixed:

- Failure to switch to the software motion detection in some camera models even when the “Enable Camera’s Built-in Motion Detection” option is deselected (Patch V17.4.5.5)
- Chances of being unable to disconnect the cameras from GV-Video Gateway, and incorrect display of their video resolutions and bitrates (Patch V17.4.5.17)
- Failure to activate GV-VMS Trial Version (Patch V17.4.5.21)

##### Modified:

- Software motion detection optimized (Patch V17.4.5.5)

#### Version 17.4.5A 2022-07-04

##### Modified:

- Redundant audio files removed

#### Version 17.4.5 2022-04-14

##### New:

- Support for HD DVR models: UA-XVR810, UA-XVL810, UA-XVL1610 (only **analog** channels supported and **HD DVR** license required)
- Support for IP camera models: UA-R500F2, UA-R560F2, UA-R580F2, UA-R800F2, UA-B580F3, (**3<sup>rd</sup>-party** license required)
- Support for new model: GV-TFD4800
- Support for Windows 11

##### Fixed:

- Chances of UI error occurred when configuring the settings in the Advanced Motion Detection Setup dialog box (Patch V17.4.4.2)



- Failure to sync the connection status of I/O Boxes from GV-VMS to GV-VSM if the operation of adding or deleting I/O Boxes has been performed in GV-VMS (Patch V17.4.4.3)
- Chances of live view errors through WebCam Server on non-IE browsers unless manually set to main stream (Patch V17.4.4.4)
- Connection failure to GV-VMS with the Remote Authentication activated, through GV-Remote ViewLog V2 (Patch V17.4.4.4)
- Issue of the Record Error events listed in the System Log, even though the recording functions normally (Patch V17.4.4.4)
- Chances of system error or not responding if you have set up Masks in the Advanced Motion Detection Setup dialog box (Patch V17.4.4.5)
- Failure of sending password by e-mail
- Issue of empty content in PDF format after printing the search results of Playback logs in Advanced System Log (Patch V17.4.4.8)

**Modified:**

- Not support for events from GV AI-capable IP cameras (48xx, 58xx and 88xx series) for processing video analysis on the camera in IPCVA settings

**Version 17.4.4 2021-12-27**

**New:**

- Support for new IP camera models: GV-BLFC5800, GV-EBFC5800, GV-FER5702, GV-PTZ5810-IR, GV-SD4834-IR, GV-SD4825-IR, GV-TDR8805 (Patch V17.4.3.11)

**Fixed:**

- Failure of the “Start/Stop I/O Monitoring by I/O” function if GV-VMS is not closed but the PC is restarted (Patch V17.4.3.1)
- Failure to apply the specified Subject to e-mail notifications when triggered by the Send Event Alerts function (Patch V17.4.3.2)
- Issue of playback, one hour later from the start time of a recording, which is enabled by double-clicking an event from the Advanced System Log (Patch V17.4.3.3)
- Time gap issue of recording in GV-Failover Server when GV-VMS is rebooted but not yet starts recording (Patch V17.4.3.5)
- Failure to start motion detection recording by schedule, with the recording type of Urgent Event (Patch V17.4.3.6)





- Issue of restoring to the default position of dewarped images, instead of the modified position, after switching back from a different screen layout (Patch V17.4.3.9)
- Failure to access the recordings of one day right after the end of Daylight Saving Time, using GV-Remote ViewLog or GV-WebCam Server (Patch V17.4.3.10)
- Missing of Single Player under the I/O query page on GV-WebCam Server (Patch V17.4.3.12)
- Failure to query I/O events on GV-WebCam Server (Patch V17.4.3.12)
- Chances of disconnecting from GV-VMS when dragging the timeline on Remote ViewLog (of GV-WebCam Server) using non-IE browsers (Patch V17.4.3.13)
- Chances of image error occurred on Remote ViewLog (of GV-WebCam Server) using non-IE browsers (Patch V17.4.3.13)
- PTZ issues when using Mazisecurity SIBH-40115P camera (Patch V17.4.3.14)
  - Failure to perform the assigned Preset or Preset Go position
  - Preset 1 repeated on the Preset list
- Incorrect search results with Remote Playback (of GV-WebCam Server) using non-IE browsers, when the Hour of search time is modified (Patch V17.4.3.15)
- Issue of audio and video out of sync on the recorded files exported using the Save as AVI function (Patch V17.4.3.16)

**Modified:**

- Support for setting up to 100 tasks of merging multiple videos using the Save as AVI function (Patch V17.4.3.4)

**Version 17.4.3 2021-08-31**

**Fixed:**

- Failure to access the PLC Device Setup option (Home > Toolbar > Configure > Accessories > PLC Device Setup) in GV-VMS, when the current system locale is set to Japanese (Japan)
- Failure to zoom the live view of GV-QSD5730 when the PTZ Control Panel is enabled
- Recording error after upgrading to V17.4.2 in which hardware motion detection is set as default (Detecting now whether the motion detection and motion sensitivity of a camera is enabled and set up, upon GV-VMS starting recording, when using the camera's built-in motion detection function)



## Version 17.4.2 2021-08-05

### New:

- Able to restart a specified IP camera, through its connected GV-POE switch with the functionality of Web management
- Names of input and output devices editable and allowed to be reset to those on the I/O device's Web UI
- Support for e-mail notifications upon output trigger
- New option "Disable PTZ Operation" to disable all PTZ functions of a specified camera (added to the right-click drop-list of a PTZ camera on the IP Device Setup page)
- Support for tracking moving objects on the live view using a pair of GV-Fisheye Camera and GV-Speed Dome Camera
- Support for checking the statuses of GV-VMS software license serial keys via License Activation Tool
- Support for synchronization of recordings from the local storage of the storage-supporting models of GV-ABL / AVD / EBD / TBL / TDR / TFD / TVD series upon resume after temporary disconnection
- Support for the following new GV-IP cameras:
  - GV-EBD2704 / 4704 / 4813
  - GV-LPR2811-DL
  - GV-QFER12700
  - GV-TBL2705 / 4705 / 4711 / 8810
  - GV-TDR2704 series / 4704 series / 4803
  - GV-TFD4700
  - GV-TVD4711 / 4810

### Fixed:

- Failure to sync the names of I/O devices from GV-VMS to GV-Vital Sign Monitor (Patch V17.4.1.1)
- Inability to access Control Center Service of GV-VMS through Key Lock Utility (GV-Desktop) (Patch V17.4.1.1)
- Connection issue with Avigilon 9C-H4A-3MH-270, with bitrate transferred displayed as 0 (Patch V17.4.1.1)
- Incorrect input trigger together with the log record, when the outputs of Hikivision cameras are activated (Patch V17.4.1.1)
- Inability to add the 3rd-party camera iCAM 84S5SA-IR (Patch V17.4.1.1)
- Issue of VMS live view error or green screen (Patch V17.4.1.1)
- Chances of failure to start scheduled monitoring or remote services (Patch V17.4.1.2)



- Unneeded message “Input number of seconds between 1-900” popping up right after adding the I/O devices of GV-Video Server (Patch V17.4.1.6)
- Failure to display any camera when connecting to GV-Remote ViewLog V2 (Patch V17.4.1.7)
- Failure of the Save as Image and Save as AVI functions on the Remote Playback of WebCam Server (Patch V17.4.1.8)
- Failure for recording to a network drive when the Active Directory is in use (Patch V17.4.1.9)
- Failure to enable fisheye dewarping with the backup files using the EZ ViewLog player (Patch V17.4.1.9)
- Failure of live audio when connecting to GV-Control Center or GV-Edge Recording Manager (for Windows) (Patch V17.4.1.9)
- Inability to play back the first recorded file on the Remote Playback of WebCam Server using non-IE browsers (Patch V17.4.1.12)
- Chances of system error after the loading to play back a recorded file completes on the Remote Playback of WebCam Server using non-IE browsers (Patch V17.4.1.12)
- Issue of displaying the abnormal disks in the wrong sequence under the Storage Space status on the main screen (Patch V17.4.1.12)
- Issue of "Use Remote Authentication" being disabled when GV-VMS automatically restarts after a sudden PC reboot with all the three options enabled: Remote Authentication, Startup Auto Login Setup and Startup (WebCam Server) (Patch V17.4.1.14)
- I/O monitoring failed to work properly after I/O service program restarted from a failure (Patch V17.4.1.16)
- Failure to print an image when the width and height are set to 700% or higher (Patch V17.4.1.18)
- Inability to use preset functions in Milesight ISIS-MSD5000-30 (Patch V17.4.1.19)
- Inability to use the zoom function of connected ACTi A418 IP cameras (Patch V17.4.1.19)
- Preset names misplaced and the present function not able to be set when using GV-SD200 (Patch V17.4.1.19)
- Chances of live image lag from the connected channels if a certain number of other channels disconnected (Patch V17.4.1. 20)
- Chances of live image lag on the live view of PTZ cameras (Patch V17.4.1. 20)
- Failure to access the PLC Device Setup option (Home > Toolbar > Configure > Accessories > PLC Device Setup) in GV-VMS, when the current system locale is set to Japanese (Japan) (Patch V17.4.1. 21)
- Failure to add a new I/O device if its IP address is the same as another I/O device removed
- Inability to open the Fast Backup and Restore (FBR) program without installing GV-VMS
- Chances of retrieving the incorrect number of camera channels when backing up from a host through GV-Remote ViewLog



- Chances of broken images during playback due to video files damaged when the sector size of a network disk or storage system exceeds 512 bytes
- Failure to display the live view of 12 MP Dahua Fisheye cameras connected using H.264
- Failure to send an e-mail notification upon connection lost if an odd number of seconds is specified for Video Lost / Connection Lost in the General Settings
- Failure of GV-QSD series live view using the Remote Camera Setting (on the IP Device Setup window by right-clicking a camera)
- Failure for POS / GV-Weigand text overlay (Apply text overlay's POS / GV-Wiegand render) or camera name / time text overlay (Apply text overlay's camera name / time render) to function when one of the other is disabled
- Failure to switch to using camera's built-in motion detection if the motion detection setup has not changed before upgrading to GV-VMS V17.4
- Motion detection incorrectly switched to using camera's built-in motion detection if the motion detection setup was changed before upgrading to GV-VMS V17.4
- Failure to display the special username and password requirements when creating a new account using Local Account Edit
- Chances of failure to record videos upon motion event trigger
- Inability to play back recordings of GV-VMS from GV-Control Center / Edge Recording Manager using the Single Player when the username or password of GV-VMS includes the special character "@" or "·"
- Chances of system error when using the POS Search or System Log (POS Table) to search for POS events
- Failure to sync the Input status between GV-Center V2 and GV-VMS due to insufficient performance of GV-Center V2's PC
- Failure of the live view with Privacy Mask (Recoverable) set up on 320 x 240 images
- Chances of green screen when switching the live view from multi view to single view, while running on Intel 10th or 11th generation processors
- Failure for I/O monitoring to work properly due to I/O service program errors



## Version 17.4.1 2020-11-24

### New:

- Support for the following GV-IP cameras:
  - GV-BX2800-DL
  - GV-LPR2800-DL
  - GV-QFER12700
  - GV-QSD5730-Indoor / 5730-Outdoor / 5731-IR
  - GV-TBL2703 series / 4700 / 4703 / 4711
  - GV-TDR2702 / 4702
  - GV-TVD4700 / 4711

### Fixed:

- Failure to restore ID and password settings using the Fast Backup and Restore (FBR) program

### Modified:

- HDD status of Unknown Disk removed from the main screen



## Version 17.4.0 2020-10-26

### New:

- Support for Windows Server 2019
- Support for GV-QSD5730 / 5731-IR speed dome cameras
- Support for connection to GV-Eye (V2.7) through GV-Relay QR-code scan
- Support for synchronization of recordings from the local storage of the following models of GV-IP cameras and ONVIF cameras (profile G conformant) upon resume after temporary disconnection:
  - GV-BL2702 series / 3700 / 4702 / 4713 / 5700 / 5713
  - GV-BX2700 series / 2700-FD / 4700 series / 4700-E / 4700-FD / 5700 series
  - GV-EBL4702 series / EBL4711 / EDR4700 series / EFD4700 series
  - GV-EFER3700 / EFER3700-W / FER5700 / FER5701
  - GV-MFD2700 series / MFD4700 series
  - GV-VD2702 / 2712 / 3700 / 4702 / 4711 / 4712 / 5700 / 5711
- Support for two-way audio for devices connected through ONVIF
- Support for granting remote streaming of selected camera channels to WebCam Server and/or GV-Edge Recording Manager by schedule
- Support for POS Search for users to search for and play back the recordings of specific POS events
- Adding Report Generator tool for generating daily / weekly reports for GV-VMS events
- Support for remote live view and playback on non-IE browsers with JavaScript Decoder via WebCam Server
- Support for adding copyright text to videos when exporting recordings
- Support for adding copyright text to Storyline videos
- Support for exporting recordings in MP4 format (audio not supported)
- Adding support for guiding users to create passwords for the following models of GV-IP cameras without default passwords upon connecting:
  - GV-ABL Series / ADR Series / AVD Series / EBD Series / TBL Series / TDR Series / TVD Series / SD2722-IR / SD3732-IR (must be upgraded to the latest firmware version)
- Support for GV-Live Streaming for connecting to the built-in cameras of Android / iOS mobile devices
- Support for exporting recordings in zoom-in / zoom-out and focus view (Patch V17.3.0.2)
- Support for adding GV-IP Decoder Box, for assigning and remote displaying of connected IP devices

### For GV-Remote ViewLog V2

- Support playback for up to 256 channels from GV-Recording Server V2.0.0
- Support for keyboard hotkey commands for playback controls



**Fixed:**

- Chances of excess memory usage and inability to receive the built-in motion detection events of certain 3<sup>rd</sup>-party cameras, such as Hikvision, Dahua, Speco and Nth
- Chances of inability to record by motion after reconnecting from temporary disconnection when using the built-in motion detection of the connected IP devices
- Chances of stopping to record when set to record by motion under narrow network bandwidths
- Inability to play back recordings of GV-VMS from GV-Control Center / Edge Recording Manager when its password exceeded 128 characters
- Inability to automatically apply storage path settings when upgrading from GV-NVR to GV-VMS
- Focus value of connected IP devices displayed on GV-IP Device Utility being stagnant and unable to reflect the changes of focus
- Images being upside-down when applying Zoom in, Effects or capturing snapshots on ViewLog for recordings recorded by H.265 codec
- Inability to access the recordings of IP devices, with audio recorded that had switched Camera ID with another without audio recorded or vice versa, from GV-Remote ViewLog
- Inability to access POS logs on Advanced Log Browser
- Inability to access Instant Playback from the Live View of channel 2 ~ channel 64 (Patch V17.3.0.1)
- Chances of improper Face Group data displayed when accessing Face Recognition events in ViewLog (Patch V17.3.0.1)
- Inability to save and export the positions of fisheye dewarped images as configured with Save As AVI (Patch V17.3.0.1)
- Inability to play back the recordings backed up with Local Backup (Patch V17.3.0.1)
- Inconsistent status of GV-I/O Box displayed between remote applications and GV-VMS after which was restarted during a continuous input trigger (Patch V17.3.0.5)
- Chances of I/O device icons not displayed on the Content List of GV-VMS after the PC is restarted (Patch V17.3.0.5)
- Inability to verify software licenses assigned to certain VIVOTEK and Arecont Vision cameras via SDK (Patch V17.3.0.5)
- Chances of live image lag from 8 MP GV-ABL / AVD / EBD / TBL / TVD series (Patch V17.3.0.6)
- Chances of delayed and discontinuous live images from GV-ABL / ADR / AVD / EBD / TBL / TDR / TVD series with a low bit rate setting under 1 Mbps on Windows 7 (Patch V17.3.0.6)
- Temporary graying of live view upon accessing the PTZ controls of the connected GV-SD3732-IR
- Chances of not displaying the camera names of channels as red on the live view upon input-triggered recording (Patch V17.3.0.8)





- Inability to access License Activation Tool of GV-VMS via the Remote Desktop of GV-Control Center (Patch V17.3.0.8)
- Chances of GV-VMS not responding when trying to access the settings of IP devices connected with false login credentials within IP Device Setup window (Patch V17.3.0.8)
- Chances of time disparity to months not containing a 5th Sunday when daylight saving time was enabled (Patch V17.3.0.9)
- Audio malfunction on the recordings exported with H.264 or WMV9 video format playing with Media Player on Windows 10 version 1803 (Patch V17.3.0.9)
- Chances of broken images of 8 MP cameras on GV-Eye connecting to GV-VMS (Patch V17.3.0.9)
- Inability to display the images in Corridor mode on GV-Eye connecting to GV-VMS (Patch V17.3.0.9)
- Chances of inability to access Sub Stream on GV-Eye connecting to GV-VMS after restarting several times (Patch V17.3.0.9)
- Chances of inability to recycle events after prolonged loading of database due to oversized storage volume (Patch V17.3.0.9)
- Chances of inability to switch to Main Stream on GV-Control Center and GV-WebCam Server after camera disconnections on GV-VMS (Patch V17.3.0.9)
- Audio malfunction on certain 3<sup>rd</sup>-party IP devices (ISIS-MFD2100-3.2) connected through ONVIF (Patch V17.3.0.9)
- Inability to connect to the cameras of ACTi E59 and ChipER Technology CORP\_CPT-MG53 through ONVIF (Patch V17.3.0.9)
- Chances of producing an oversized video file after recording over a prolonged period of time (Patch V17.3.0.9)
- Inability to disable input devices of GV-VMS from remote applications (Patch V17.3.0.10)
- Chances of Object Index disabled when recording was triggered first by motion detection and then RTC recording set through schedule (Patch V17.3.0.10)
- Chances of live images disappeared, striped or two channels displaying the same images (Patch V17.3.0.11)
- Inconsistent audio and video for recordings with noncontinuous audio input when audio was set to record by sensitivity (Patch V17.3.0.14)
- Chances of resetting the PTZ control panel when switching to another live view on the Zoom Window (Patch V17.3.0.14)
- Chances of inability to remotely instantly play back GV-VMS images on the Matrix of GV-Control Center (Patch V17.3.0.15)
- Chances of unstable image display or disconnection to GV-VMS when accessed from GV-Eye (Patch V17.3.0.16)





#### Improved:

- Keep Day checking changed to once every 60 seconds in retaining the data of the last recycled date
- Supporting the built-in motion detection and input trigger functions of 3<sup>rd</sup>-party cameras connected through ONVIF
- Recording the details of which network parameter is invalid within system log when failing to connect to IP devices
- DST button in ViewLog for only highlighting the dates with DST recordings on the calendar
- Enhanced video quality by enabling “Use Sub Stream FIFO” on CMS Server for simultaneous accessing of recordings by multiple GV-Control Center and/or GV-Edge Recording Manager from the same GV-VMS (Patch V17.3.0.6)

#### Changed:

- Defaulting to use the built-in motion detection of IP cameras upon connecting (won't change the settings of IP cameras already connected)
- Audio codec changed to MP3
- Moving “Enable Built-in Camera Motion Detection” to within Advanced Motion Detection Setup
- Copyright notices added to the Installer and accessible within the software directory

### Version 17.3.0 2019-09-17

#### Fixed:

- Inflation of total CPU usage
- Chances of disconnection to GV-VMS on GV-ABL / ADR / AVD / TDR / TBL / TVD Series
- Prolonged or frozen reconnection with ONVIF devices, when disconnection occurred, caused by some ONVIF devices being disconnected beforehand
- Chances of frame rate drop on the Matrix of GV-Control Center when more than 32 channels from the same GV-VMS are displayed
- Chances for recording on motion detection to stop when the Watchdog is triggered to restart GV-VMS under narrowband networks
- Increased memory usage caused by certain ONVIF third-party cameras connected, e.g., Hikvision DS-2CD2020F-I, DS-2CD7270F-IZ, DS-2CD2332-I, and DS-2CD2132F-I
- Chances of image error on GV-Eye V2.7.1 when switching to the main stream of an IP device connected to GV-VMS
- Chances of failure to Advanced Unattended Object Detection when recording is triggered by motion detection set through schedule
- Inability to execute WMPProof.exe of backup files
- Inability to verify software licenses assigned to IP devices with 2 or more MAC addresses
- Displaying garbled texts for Presets of GV-SD3732-IR that were named in Chinese



- Privacy Mask of recordings becoming dysfunctional when played back using 3rd-party video players
- Inability to automatically reconnect to single-streamed IP devices after disconnecting

**Changed:**

- Motion detection by camera on Hikvision, Speco Technologies, Dahua Technology, and Northern Video Systems models not supported

**Version 17.2.1 2019-06-18**

**Improved:**

- Installation process of any program aborted when codec registration failed and “Cancel” was selected on the warning message

**Version 17.2.0 2019-05-27**

**New:**

- Support for the following new GV-IP cameras:
  - GV-ADR2702 / 4702
  - GV-BX2700-FD / 4700-FD / 8700-FD
  - GV-BL8714-FD
  - GV-FER5701
  - GV-MD8710-FD
  - GV-SD2722-IR
  - GV-TDR2700 / 4700
- Display of the type of RTSP connection used in Camera Setup
- Support for saving and resuming of the progress of video backup on GV-Remote ViewLog V2
- Support for importing / exporting of host list on GV-Remote ViewLog V2
- Support for integrating of Address Book data from GV-Remote ViewLog V1 upon first-time starting of GV-Remote ViewLog V2
- Support for access for sub-stream recording on GV-Remote ViewLog V2 if the host recorded in dual streams
- Support for 64-channel playback on GV-Remote ViewLog V2
- Support for dewarping of GV-VR360 for both live and recorded images

**Fixed:**

- Chances of repeated disconnection of certain GV-IP devices or IP devices connected through ONVIF (Patch V17.1.0.2)
- Chances of oversized recordings when pre-record was enabled (Patch V17.1.0.3)



- Chances of I/O log of multiple GV-VMS not in sync when connected to the same I/O device(s) (Patch V17.1.0.3)
- Green lines appearing on the images of IP devices connected to GV-VMS when displayed on the matrix of GV-Control Center with a layout of 9 x 6 or above and a stream 2 resolution of 704 x 576 (V17.1.0.4)
- GPU decoding interference when LogMeIn Mirror Driver was installed on the same PC (Patch V17.1.0.6)
- Chances of account authentication failure when multiple GV-Edge Recording Server and/or GV-Remote ViewLog V1 / V2 are connecting to GV-VMS via GV-Authentication Server (Patch V17.1.0.7)
- Continuous inflation of RAM usage while using certain audio codec (Patch V17.1.0.7)
- Inability to access images of IP devices connected to GV-VMS from GV-Notify and incorrect time display on GV-Cloud Center when Daylight Savings Time was applied (Patch V17.1.0.8)
- Chances of clearing all POS configuration settings when repeatedly opening and closing POS Device Setup interface on GV-VMS (Patch V17.1.0.9)
- Inability to access IP devices connected by ONVIF protocol via the following models of video management system (Patch V17.1.0.9):
  - HikVision DS-8816HQH-K8
  - HikVision DS-7616NI-I2/16P
  - HikVision DS-7216HUHI-K2
- Chances of inability to access stream 1 of IP devices connected to GV-VMS on GV-Edge Recording Manager and/or GV-Control Center after restarting CMSvr.exe [Control Center Server] (Patch V17.1.0.10)
- Chances of system failure when repeatedly drawing detection areas in Advanced Motion Detection Setup (Patch V17.1.0.11)
- Incorrect Keep Days value of GV-VMS displayed on GV-Vital Sign Monitor after recycling (Patch V17.1.0.11)
- Inability to input commands “change line” and “replace” simultaneously in POS Filter Setting (Patch V17.1.0.11)
- Chances of inability to access the PTZ controls of connected PTZ cameras after restarting GV-VMS and/or reconnecting the PTZ cameras (Patch V17.1.0.13)
- Inability to switch from stream 2 to stream 1 for IP devices connected to GV-VMS on GV-Eye (Patch V17.1.0.14)
- Chances of inability to display the audio timeline on ViewLog (Patch V17.1.0.15)
- Inability to resume recording of GV-VMS with NAS as its recording storage after the NAS storage was reconnected (Patch V17.1.0.15)
- Chances of misconfiguring Missing Object Detection resulting in misdetection (Patch V17.1.0.16)



- Inability to preserve the fisheye alignment settings of 3rd-party fisheye cameras after restarting GV-VMS or switching channels (Patch V17.1.0.16)
- Error to the matrix of GV-Control Center when using fisheye dewarp function for 3rd-party fisheye cameras connected to GV-VMS via ONVIF protocol (Patch V17.1.0.17)
- Chances of inability to save image alignment settings for fisheye cameras when the resolution was set to 2592 x 1944 (Patch V17.1.0.17)
- Inability to access and retrieve GV-VMS's image alignment settings for 3rd-party fisheye cameras when using fisheye dewarping function on GV-Control Center (Patch V17.1.0.17)
- Inability to play back recordings backed up from GV-VMS with EZViewLog on PCs without any GV-Software installed (Patch V17.1.0.17)
- Chances of inability to restore the live view of IP devices connected to GV-VMS on GV-Eye after reconnecting (Patch V17.1.0.18)
- Chances of inability to connect to GV-LPR plugin after Windows on which GV-VMS is installed was improperly shut down (Patch V17.1.0.21)
- Mismatched timeline on backed up recordings when DST was applied
- Inability to display the captured snapshots of Object Index when it was set as Video Snapshot
- Inability to switch back to Live View on GV-VMS with the Launches ViewLog key of the connected GV-Keyboard V3 after switching to ViewLog
- The delete video function on GV-Remote ViewLog V2 not grayed out when accessing GV-SNVR recordings
- Time periods with motion-triggered recordings, set by IPCVA and processed by the device, displayed as blue in the ViewLog timeline
- Inability to play back recordings of GV-SNVR1611 using GV-Remote ViewLog V1 / V2
- Misplacement of the connection schedule between GV-Center V2 / GV-Dispatch server and GV-VMS
- Chances of black screen image display of connected GV-FER5700 when using Digital Object Tracking with a Windows resolution of lower than 1920 x 1080
- Abnormal Timeline display when the assigned directory under which the recordings and/or camera database were saved had a folder with Chinese name
- Displaying "disconnected" for IP devices beyond 32nd channel on WebCam even when they were successfully connected
- Abnormal image display of connected GV-FER5701 when fisheye dewarping was enabled
- Black screen display after system reboot when using GV-Desktop
- Disparity of CPU usage display in Windows as compared to the actual usage
- Inability to configure the camera settings of certain IP devices, through both Camera Setup and GV-IP Device Utility on Windows 10
- Mismatched displaying of the timeline upon double-clicking POS events within Advanced Log when Daylight Savings Time was applied



- Chances of no bitrate occurring when GV-VMS is connected to four or more GV-Edge Recording Manager with “Use Substream FIFO” enabled
- Chances of inability to respond when connected to 3 or more GV-Face Recognition Cameras of firmware V1.01
- Inability to dewarp fisheye images as configured when accessing fisheye cameras connected to GV-VMS through GV-Remote ViewLog V1 / V2
- Time disparity when playing back dewarped recordings of fisheye cameras with daylight saving time enabled on GV-Remote ViewLog V1 / V2
- Inability to export dewarped recordings of fisheye cameras on GV-Remote ViewLog V1 / V2
- Inability to access the audio within the recordings of connected GV-SNVR0411 of firmware V2.61

**Improved:**

- GV-S/W License verification restructured in enhancing license security and response time (Patch V17.1.0.19)
- Adjustable size for playback preview
- Ability to disable auto-zoom during Tracking of GV-PPTZ cameras
- Virtual memory allocation refined

**Changed:**

- Removal of Human Detection function
- Disabling Windows hibernation upon system startup
- Rearrangement of Video Settings UI for certain GV-IP devices



## Version 17.1.0.100 2018-09-04

### New:

- Support for new GV-IP devices (Patch V17.1.0.012)
  - GV-ABL2702 / ABL8712
  - GV-AVD2700 / AVD8710
  - GV-EBD8711
  - GV-SD2301 V2 / GV-SD2411 V2

### Fixed:

- System behaving abnormally after manually adding the upgraded GV-BX2600 firmware version V101\_1080321 on IP Device Setup (Patch V17.1.0.010)
- Random failure to receive camera image when multiple GV-Edge Recording Managers are connected to GV-VMS simultaneously after the Use Sub Stream FIFO function is enabled on CMS Server (Patch V17.1.0.001)
- Camera connection failure if over 64 channels are connected through RTSP protocol simultaneously (Patch V17.1.0.003)
- Chinese I/O names of GV-IO Box 4E appearing gibberish on the Content List of GV-VMS traditional Chinese language version (Patch V17.1.0.007)
- Repeated watchdog errors upon the system reboot after Wide Angle is selected from Camera Lens settings (Patch V17.1.0.010)
- Blurry image display of a camera when it is switched from a multi-channel division to single-channel division, changed to single stream or has Focus View enabled, after selecting Wide Angle from Camera Lens settings (Patch V17.1.0.010)
- Blurry image display if the camera channel is opened in the Advanced Motion Detection dialog box under the multi-channel division and then switched to a single-channel division (Patch V17.1.0.010)
- Inability to switch to sub stream after the camera channel is opened in the Advanced Motion Detection dialog box under the single-channel division (Patch V17.1.0.010)
- Failure to record motion events after the motion recording function becomes stagnant over a prolonged period of time (Patch V17.1.0.009)
- Inability to filter out “scene change” events through Event List Query on WebCam Server (Patch V17.1.0.008)
- Privacy Mask feature becoming inapplicable to recorded clips through WebCam Server on non-IE browsers (Patch V17.1.0.004)
- Inability to apply “clean time” and “transaction end dwell time” settings when setting up POS text overlay (Patch V17.1.0.011)
- Inability to display corresponding system logs on GV-Vital Sign Monitor when the camera is disconnected or re-connected (Patch V17.1.0.006)



- Connection failure after the camera message "IP Camera Firmware UNAUTHORIZED AND ILLEGAL INSTALLATION/USE!!" pops up (Patch V17.1.0.012)
- Chances of PTZ Control being disappeared from the Tools button on the live view of PTZ cameras

**Improved:**

- Compliance with the European Union's General Data Protection Regulations (GDPR) (Patch V17.1.0.002)

**Version 17.1.0.0 2018-05-22**

**New:**

- Support for GPU decoding on the 8th Generation Coffee Lake platform
- Support for free access to one external NVIDIA graphics card and chargeable uses of up to four additional graphics cards to dongle licenses
- Support for single and dual stream recording
- Support for AES Encryption with GV-Control Center (V3.5.0 or later), GV-Edge Recording Manager (V1.3.0 or later), GV-Eye (V2.5 or later) and WebCam Server (V17.1 or later)
- Popup Window function to display camera live images, upon motion detection or input trigger, on a separate monitor
- Ability to create a camera group
- Scheduling network connections of WebCam Server, Mobile Service and GV-Edge Recording Manager
- Audio broadcasting to multiple cameras
- E-mail alerts for failed login attempts
- Simplified process of adding multiple channels of a 3rd party device through ONVIF / RTSP protocol
- Support for moving a PTZ camera to a preset using GV-Joystick V2
- Ability to customizing the database names to the Microsoft SQL Server
- Multicast feature to perform video broadcast
- Support for the facial recognition features of GV-VD8700
- Human Detection feature where motion detection events are triggered only by the motion of human objects
- Playing back object index function from Live View and ViewLog
- Improved user interface of Remote ViewLog
- Support for rendering E-maps to PDF
- 3-D E-Map display on Remote E-Map
- Support for TLS E-mail encryption
- New merging modes to export multiple recordings at once





- New IP Camera user interface guiding users to establish login credentials for cameras that have no default usernames and passwords
- Option 'Use Substream FIFO' added to CMS Server's Settings for by-passing the sub stream without doing compressing to GV-Control Center
- Ability to enable or disable GPU Decoding function from the Startup Settings
- Windows users' access permission to Remote ViewLog
- Multilingual E-mail alert messages

**Fixed:**

- Error message of "Decoder Open fail." randomly popping up on the main screen when connected to IP devices
- Failure to keep the recording settings as Urgent Event and restore to the default General Event when the Watchdog program starts
- Connecting to GV-SD3732 causing repeated disconnection and re-connection of IP cameras
- Use of the Focus In/Out button on GV-Eye causing the cameras to lose focus
- Video delay of approximate 1-2 seconds after switching the camera's video setting to main stream in Matrix View on GV-Control Center
- Image quality of some IP cameras being reduced when GV-Control Center is connecting to access those cameras with the same models and codec in the same Matrix View layout
- Inability to play back I/O events through the WebCam Server
- System failure caused by connecting to camera names exceeding 32 characters in length through ONVIF
- Inability to obtain the amended present names of PTZ cameras connected through ONVIF Protocol
- Some motion events not recorded and the monitoring status unchanged on live view upon motion detection
- Camera brand names switched to the amended device names of GV-EBL2702 / EDR2700 / EFD2700 when adding / searching those cameras on IP Device Setup
- Excessive connection resumption attempts with Sony SNC-EM632R and SNC-EM602R F/W 2.7.2
- Gibberish POS texts appeared when using Epson POS devices
- Snapshot function not responding when Fisheye dewarping is enabled on GV-VMS installed on Portuguese OS
- Message "error SMTP server no response" shown when testing if an E-mail notification can be sent
- Inability to connect Hacking Hi3518 through ONVIF protocol
- Live view of Hikvision DS-2CD23335FWD-I F/W V5.5.0 not shown on GV-VMS V16.11.0.0





- I/O status of GV-Center V2 not corresponding to that of I/O Device list on GV-VMS if the I/O devices are repeatedly enabled and disabled on GV-Center V2
- Timeline of recorded events displayed even after those events are manually deleted
- Missing events between 23:00 and 00:00 in the event list when retrieving recordings of more than 1 day from GV-SNVR using Remote ViewLog
- Rare chances of the Viewlog timeline appearing blank when Motion Detection and Auto Monitoring functions are enabled
- Inability to open backed up files saved in .exe format using the Save as AVI function
- Rare chances of H.265 recorded images with a 2592 x 1520 resolution and at 20 fps displaying an approximate time of 1- to 3-second green images under multiple screen divisions
- Inability to access recordings through the Remote Play Back function of its Web interface on non-IE browsers after being viewed using GV-Remote ViewLog
- Amended camera names of backup video events not shown on EZViewlog500
- Video playback jumped straight to frames with audio after rewinding and then playing back camera recordings
- Event Types not recorded correctly and therefore cannot be recycled after connecting to the GV-Remote ViewLog service
- Recorded events on timeline not displayed during playback if the playback limit time is set to 1 day and the logged-in user switches to a different playback time
- Ghost images generated during motion events on multi-screen divisions if the compressed videos are displayed on the Matrix View of the connected GV-Control Center
- Snapshots not attached before sending the e-mail alert notification
- Ability to access WebCam Server using the same URL on a different computer without re-entering its login page
- Image flashing green or gray on Matrix View of the connected GV-Control Center due to a declining transmission speed
- Random issue with image freezing when playing back H.265 encoded video content

**Improved:**

- GV-USB dongle detection and automatically installing the USB driver at the same time during the installation process
- GV-VMS taking excessive connection time to access the IP camera's live view under narrowband network environment
- Ability to restore the previous 3D E-Map layer on the E-map window



- New functions added to the License Activation Tool
  - License upgrade through a registered Serial Key number
  - Ability to add or delete IP cameras through the License Activation Tool
  - Ability to reassign the registered license to another designated PC
  - Software licensing activation available for cameras connected through RTSP protocol under the same LAN
- Time interval between E-mail alerts changed from minutes to seconds
- Improved user interface of the QView settings
- Camera image updates when dragging the mouse on the recording timeline
- RepairLog500.exe to fix damaged files without a system crash
- Color change on camera names of the Content List during video loss or disconnection
- Accelerated restoring and/or repairing of video data within GV-VMS's database

**Changed:**

- Color change in the monitoring status of the cameras from VMS on the Live View and Matrix windows in GV-Control Center
- Recycle Threshold enlarged from a minimum of 5 GB to a maximum of 999 GB



## Version 16.11.0.0 2017-08-01

### New:

- Support for GPU decoding on the 7th Generation Kaby Lake platform
- Support for PLC I/O devices
- The implementation of a password strength meter
- The administrative ID and password required to launch Customize Menu on the GV-Desktop
- Camera name added to the IP Device Setup page
- Support for GV-2400 / 2800 series' connecting setting when adding to GV-IP Decoder Box Plus using GV-IP Device Utility V8.7.0.0

### Fixed:

- File size not shown on Remote ViewLog after connecting to the NAS server
- Only up to 30 playback event results shown on the non-IE browsers with the Event List Query function
- Some ONVIF cameras not detected on GV-IP Device Utility and GV-VMS
- GV-VMS unable to start if Daylight Saving Time ends on Saturday
- Black screen problem after GV-VMS is selected as Desktop Type from the GV-Desktop
- Main stream not switchable on the live view of GV-Control Center, GV-Edge Recording Manager and the matrix view of GV-Control Center after stopping all network servers from the user interface and then re-starting the GV-VMS
- Pixelated images on the live view and matrix view of GV-Control Center after repeatedly switching between main stream and sub stream when connecting to the GV-VMS
- New live image not refreshed when viewing live streaming at the WebCam Server on Chrome
- AVI files not saved properly due to blue screen shown at the start time when Time Merge is selected

## Version 16.10.3.0 2017-04-28

### New:

- Support for setting a limit on each channel's playback time in the ViewLog tab of Local Account Edit
- Support for automatically assigning storages to multiple camera channels
- Support for smart streaming of GV-IP cameras
- Support for QView display which enables the projection of a live view display onto another monitor
- Support for recording storylines in live view, playback and Qview
- Support for push-to-talk on live view



- Option added to Text Overlay Setting to display GV-ASManager's data and the license plate recognition (LPR) data on the camera screen
- Software license management support
- 3D E-Map display
- Point of Sale (POS) integration with up to 32 channels
- H.265 compression type added to AVI Repair Utility
- Automatic login with GV-PCR310 Enrollment Reader
- Support for local backup and remote backup with GV-Backup Center
- Support for GV-PPTZ7300 to automatically track moving objects under 360 degree view
- Support for GV-3D people counter
- Support for GV-Cloud Center
- User privilege control when connecting with mobile app GV-Eye

**Fixed:**

- A change in the camera's image color before and after the PTZ control panel is enabled on the live view
- The camera names not updated on the timelines of all camera channels
- Failure to display event and device items in Advanced Log Browser if 7 days of log data are retrieved
- The issue where the Heat Map function is not turned off when selecting or unselecting Start Schedule Monitoring
- Problem with starting the WebCam Server if the camera name contains a double quotation mark
- Problem with starting GV-VMS after reboot upon restoring the system default using the Fast Backup and Restore (FBR) program
- Connection issue with the LPR Plugin when Control Center Service is not activated from GV-VMS
- Control Center Service's startup issue when the WebCam Server and Control Center Service are enabled on GV-VMS simultaneously
- Query failure in Backup Time due to a mismatch between the start and end times of a single recorded file
- The end time of the recording file exceeding default 5 minutes
- Possible E-mail alert failure in GV-Center V2 on the PC where previous version of GeoVision software has been updated
- Inability for Remote E-Map to connect to GV-VMS server
- Problem with unusual CPU usage when synchronizing Windows Active Directory accounts to GV-Authentication Server
- Failure of Camera Popup function if the GV-VMS has been restarted under the service mode
- Failure to call up the soft keyboard when logging onto GV-VMS on GV-Desktop



- Problem of Remote ViewLog to apply the first alignment setting to all fisheye cameras
- Inability for Remote ViewLog to play back recordings properly when the time zone settings of GV-VMS and GV-SNVR / NAS System are different
- Failure to access live view after connecting to American Dynamics ADCi400-D011 through ONVIF
- Abnormality of GV-VMS when connecting to Hikvision DS-2CD2342WD-I through ONVIF
- Inability for GV-SD Card Sync Utility V1.0.5.0 to backup recordings to GV-VMS
- Failure to retrieve the recordings in I/O log from backup recordings using the EZSysLog program
- Inability for Remote ViewLog to update new codec properly when connecting to GV-VMS

**Improved:**

- Double password function to execute Remote ViewLog
- 'Apply All' button added to the Address Book in Remote ViewLog to apply the same ID and password to all hosts
- Reduced database loading time when connecting to Remote ViewLog
- New information recorded in System Log: newly added, modified and deleted user accounts, adjustment of recording status, change of recording paths and missing / resuming disks
- E-mail notification support upon video resumption and removing the USB dongle
- Disconnection icon shown on E-Map upon video lost
- Support for changing the property of the view zone on E-Map
- Polygonal area setting for I/O icons on E-Map
- Support for connecting to hosts automatically when Bandwidth Control is started
- Improved backup mechanism with GV-Failover Server and GV-Redundant Server by detecting if the recording data has been written to the hard disk

**Changed:**

- The possibility that the live view of unspecific channels might be green screens if cameras get disconnected and connected frequently
- Support for simultaneously listening to audio of all the connected cameras
- Iris Open / Close option removed from the PTZ control panel for ONVIF PTZ cameras
- GV-TM0100's motion detection setting to be configured manually on the device
- The size of ViewLog's Preview Window scaled to be proportional to the window size of GV-VMS
- Time range to search for log data changed from 7 to 5 days in Advanced Log Browser
- Removed support for GV-Skype Video Utility



### Version 15.11.3.0 2016-12-09

**Fixed:**

- The possibility that the live view of unspecific channels might be green screens if cameras get disconnected and connected frequently

### Version 15.11.2.0 2016-11-21

**Fixed:**

- The problem of recordings being recycled when the monitoring of GV-VMS is enabled earlier than iSCSI connection at Windows startup, in which condition GV-VMS detects no space in the iSCSI device and starts recycling.
- The possibility that the user interface of GV-VMS might freeze after you log on the GV-VMS in "Service Mode"
- The incompatibility issue with GV-Edge Recording Manager (Mac Version) V1.0.0.0 where GV-Edge Recording Manager cannot access GV-VMS for playback
- The possibility where the recordings might be missing from the Timeline on ViewLog

**Modified:**

- The possibility that GV-VMS will not start automatically after the computer is rebooted even though "Auto Run when Windows Starts" is selected

### Version 15.11.1.0 2016-09-14

**Fixed:**

- The possibility that GV-VMS will not start automatically after the computer is rebooted even though **Auto Run when Windows Starts** is selected

### Version 15.11.0.0 2016-09-02

**New:**

- Support for H.265 GPU Decoding

**Fixed:**

- Possible failure to record footages
- Problem where video analysis resends alarm notifications outside of AVP schedule as the function of Schedule Edit or Video Process is selected
- Inability to save the setting of the playback mode



- Possible playback problems when dragging different cameras to ViewLog layout repeatedly
- Possible GVVMS instability when connecting to Hikvision DS-2CD2342WD-I and IPC third party cameras via ONVIF
- Broken images of live view when connecting to cameras of Raysharp and Dahua via RTSP
- Possible failure for internal dongle to perform hardware watchdog upon OS crash
- Possible failure to apply software dongle after cold booting the computer
- Failure to run EZRepairLog500.exe, which is backed up from GV-VMS, in another computer without GV-VMS
- Invalid event entries in the Event List after running EZViewLog500.exe, which is backed up from GV-VMS
- Possible GV-VMS instability after clicking on the ViewLog timeline repeatedly to play back GPU decoded recordings in Windows 7 operating system
- Occasional GV-VMS instability when switching from main screen to ViewLog
- Occasional failure to respond after performing software watchdog

**Improved:**

- Two playback modes removed: Just Key Frame and Smooth Playback
- Playback speed of Frame by Frame Mode no longer adjustable
- Default playback mode changed from Frame by Frame to Real Time Mode



## Version 15.10.1.0 2016-02-22

### New:

- Main System
  - Support for Windows 10
  - Support for GV-ASManager / GV-LPR Plugin V4.3.5.0
  - Support for GV-Web Report V2.2.6.0
  - Support for GPU decoding with external NVIDIA graphics cards
  - Support for dual streaming of GV-Fisheye Camera
  - Support for H.265 codec
  - Support for sending alert notifications through SNMP protocol
  - Support for up to 20,000 client accounts in Authentication Server
  - New image orientation options for corridor scenes (supported GV-IP Cameras only)
  - Support for marking video bookmarks in live view
  - Connection log with Center V2 / Vital Sign Monitor / Failover Plugin registered in System Log
  - Support for compacting videos to key frame only when merging and exporting
- Video Analysis
  - Support for receiving video analysis results when video analysis is processed on GV-BX2600 (including Motion Detection, Intruder, People Count, Missing Object, Unattended Object, Loitering, and Tampering Alarm)
  - Support for Face Count with GV-Web Report V2.2.6.0
  - Heat Map function to view the motion intensity in live view and recordings
  - Support for displaying Object Search results in a timeline
- Layout
  - Layout scan function to automatically switch among different live view layouts
  - Support for duplicating layout in Content List
- Viewlog
  - ViewLog timeline highlighted in orange where audio data is available
  - Support for bookmarking video events on the timeline
  - Support for marking recordings on timeline as “Never Recycle”
  - Support for changing display date in ViewLog by dragging on timeline
  - Video preview function when selecting start time and end time in Save as AVI
- Utilities
  - Support for setting an FBR schedule for automatic configuration backup
  - Media Man Tool to support hot-swap recording

### Fixed:

- Main System
  - Inability to set more than 1 recipient for e-mail notification





- Privacy mask missing in snapshots captured by Video Snapshot of Object Index
  - Incorrect display of pin name of GV-I/O Box when Chinese characters are used in the pin name
  - Pre-Rec remaining enabled after disabling Pre-Rec function without stopping monitoring
  - Incorrect frame rate setting when the sensitivity of motion recording is set to User Define in Schedule and Video Record Frame Rate is not selected in Advanced Motion Detection Setup dialog box
  - Incorrect bit rate values displayed in IP Device Setup dialog box
  - CMS log missing in the drop-down list of Advanced Log Browser
  - Failure to send alarm when Intruder event is triggered
  - Occasional failure of Control Center Service
  - Problem with Auto Startup function where Webcam Server and Control Center Service fail to auto run at startup
  - Incorrect start time that deviates from the time frame specified when backing up recorded files
  - Occasional disappearance of dewarped fisheye live view
  - Capturing Object Index snapshot from stream 2 instead of stream 1 when the live view of that channel is being displayed in stream 2
  - Possible disappearance of text in mail content when using Test Mail button in E-mail Setup page
  - Dropped frames under Single View when the GV-VMS is connected through Authentication Server and connected to more than 40 channels
  - Failure to apply changes made to Recycle Threshold and Keep Days
  - Problem with Up and Down commands when using GV-Joystick V2 to control speed dome through a remote GV software
  - Incorrect image orientation when connecting to a megapixel camera using MPEG4 codec if the PC is using GPU decoding
  - Live view lag and failure to receive audio data from third-party cameras using a specific type of G.711 audio codec
  - Failure to record upon motion detection after switching from round-the-clock recording to motion recording without stopping monitoring
  - Incorrectly displaying “Video Lost” status of GV-Video Server as “Disconnect”
  - Possible failure to display live view after repeated interruption of camera connection (recording unaffected)
  - Camera list disappearing after repeated abnormal shutdown of the main system
  - Possible failure to receive camera image after a prolonged period of time
- Viewlog
- Problem with retrieving Object Index data through Remote ViewLog
  - Interruption of audio recording when switching from live view to ViewLog for the first time



- Problem with backing up recordings using OS-Burning option when under GV-Desktop
- Inability to delete events in ViewLog from timeline
- Timeline display problem due to database corruption after repeated abnormal shutdown of the main system
- Webcam Server
  - Notification, I/O and Playback tabs missing in Event Query List of Webcam Server
  - GV-VMS system error if a camera name exceeds 32 characters when Webcam Server is enabled
  - Incorrect format for e-mail alert when Webcam Server is enabled
  - Incorrectly displaying non-motion recordings in orange instead of blue on timeline when Webcam Server is enabled
  - Possible failure to record upon motion detection under motion recording mode when Webcam Server is enabled
  - “Port 80 in use” error message popping up when enabling Webcam Server
  - Incorrectly displaying Webcam interface in Serbian when the language of the operating system is set to Slovenian
- ONVIF
  - Problem with zoom function in PTZ devices connected through ONVIF
  - GV-VMS system error when connecting more than 50 channels through ONVIF
  - Inability to resume connection of third-party camera after connection lost when connecting through ONVIF
- Utilities
  - Problem with playing back recordings downloaded through GV-SDSyncCard Utility

**Improved:**

- New information recorded in System Log: time of recycling, space freed from recycling, users logged in and channels played back through Remote ViewLog
- New resolution options added when merging videos in Save as Avi
- Support for TLS V1.2



## Version 14.10.1.0 2015-06-04

### **New:**

- GV-VMS Trial Version to support 16 channels of third-party IP devices without license

### **Fixed:**

- Inability to recycle files previously recorded by GV-NVR after upgrading from GV-NVR to GV-VMS
- Inability to access live view after connecting to Panasonic WV-SC385 through ONVIF
- Problem with connecting to Dahua DH-SD65-HN series through ONVIF
- Occasional instability issue with Control Center Server
- Occasional failure to automatically start Control Center Server and Webcam Server after the Auto Startup function is enabled
- Inability to connect to more than 44 channels of IP devices through ONVIF