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GV-AI Guard Version History

Version 2.2 2025-11-12

New:

- Support for Windows Server 2025
- Vehicle Attribute Recognition to provide vehicle information, including license plate numbers, eTag details, and key attributes such as vehicle type, brand, and color, for the following applications (Plugin required):
  - Entrance
  - Exit
  - Zone Monitor
  - Queued Traffic
  - Vehicle Attribute Event Search
- Fall Down Detection for identifying incidents of people falling (Plugin required)
- AI Query to filter AI events by cameras, time range, facial recognition, event types, person attributes, and vehicle attributes
- Transmission of metadata from the following cameras to the local GV-AI Guard or GV-Cloud VMS for AI Event Search, enabling event searches based on people or vehicle attributes: GV-GBL4900, GBL4911, GBL12811, GDR4900, GEB4900, GEBF4911, and GVD4910
- Support for new GV-Cloud VMS subscription plan (ECO)
- Support for GV-IP Speaker for broadcasting and active deterrence

Fixed:

- Issue where the Forgot Password function fails to send a recovery email during login
- Issue where gender information was missing from AI event data for human detection (e.g., PVD Motion and Intrusion)

Modified:

- PVD Detection Filter replaced by AI Query
- Line Notify removed

Version 2.1 2024-08-13

New:

- Support for GV-Cloud VMS
- Support for new IP devices:
  - GV-EBDP8800
  - GV-RBL5800 / 5811
  - GV-REB5800
  - GV-RFER12700
  - GV-TBLP8800
  - GV-TMS8800
  - GV-GBLF2802
  - GV-GBL12811
  - GV-TVD2712
  - GV-TBL2718
  - UA-XVL1611

Version 2.0 2024-06-12

New:

- Support for Windows 11 and Server 2022
- Support for Intel 13th and 14th gen GPU decode
- Support for the following Basic AI functions:
  - Personal Protective Equipment Detection: Detecting whether personnel have vests on or not
  - Smoke/Flame Detection: Detecting smoke, flame, and fire
  - Over Speed Detection: Detecting overspeed vehicles
- Support for up to 8-channel Advanced AI functions: Intrusion, Loitering, Entry Area, Leave Area, Cross Line, Counter, Mandatory Crossroad Stopping, and Wrong-way Detection
- Support for up to 32 channels of PVD motion detection with GV-AI Accelerator Module on PCs with 11th generation CPUs or later versions
- Support for UA-IP camera models (requires a 3rd-party IP device license):

  - UA-B580F3
  - UA-R500F2
  - UA-R560F2
  - UA-R580F2
  - UA-R800F2
- Support for UA-HD DVR models (require an HD DVR license):
  - UA-XVL810
  - UA-XVL1610
  - UA-XVR810
  - UA-XVR1620
- Support for the following GV-IP camera models:
  - GV-BX2802 / 4802
  - GV-EBD2705
  - GV-EBDP5800
  - GV-FER5702
  - GV-GBL4900 / 4911
  - GV-GDR4900
  - GV-GEB4900
  - GV-GEBF4911
  - GV-GPH2800
  - GV-GVD4910
  - GV-PBL8800
  - GV-PDR8800
  - GV-PFER12800
  - GV-TBL2706 / 4807
  - GV-TBLP5800
  - GV-TDR2705
  - GV-TMEB5800
  - GV-TVD4811
- Smart Motion Search function added for Object Search
- Support for Line Notifications and Telegram Notifications when AI events occur
- Support for alarm and object bounding box display options for Advanced AI functions

- Support for adjustable PVD Confidence Value for different objects and PVD Size Filter for improving detection accuracy and reduce missing detection (Patch V1.1.0.2)
- Filter option for displaying different event types in different colors on the playback timeline
- Support for new DL engines for license plate recognition: Germany, Israel, Netherland, UK, USA (California, Georgia), and Vietnam
- Support for CMS / AI Counter logs query on the Web browser using WebCam Server
- Support for remote AI event log query for GV-Edge Recording Manager (V2.2.5 or later)
- Support for LPR Plugin (V6.0.2 or later) as a PC LPR to compare captured licenses plates with the database from GV-ASManager (V6.0.2 or later)

Fixed:

- Issue of error message display when enabling AI video analytics functions using Intel 12th CPU (Patch V1.1.0.1)
- PVD Motion function failure upon GPU failure (Patch V1.1.0.2)
- Failure of motion recording in schedule mode when simultaneously multiple cameras traditional motion and PVD motion (Patch V1.1.0.2)
- Failure to write event logs in PVA Detection Filter (Patch V1.1.0.3)
- Chances of incorrect detection when PVD/PVA detection rectangles are drawn near the video edge (Patch V1.1.0.4)
- Chances of recording disruption when motion events occur

Modified:

- End of support for the following functions:
    - Panorama View
    - GV-Cloud Center connection
    - Video Analysis functions: Object Counting and Intrusion Alarm, Object Index, Automatic Video Snapshots, Face Detection, Face Count, Video Defogging, Video Stabilization, Crowd Detection, Advanced Unattended Object Detection, Advanced Missing Object Detection, Heat Map, Event Alert through E-mail Notifications
- System log recycle threshold adjustable with default storage path changed to avoid storage space overload
- Default storage path adjustable for storing AI event images

- 16 independent PVD Motion channels upon the purchase of any license with the setting interface moved to the Advanced Motion Detection Setup dialog box under Record Setting
- Face Mask Detection display change: green boxes on detected objects and red boxes on alarm events
- The Advanced Log Browser database import range changed to 1 to 30 / 60 days for MDB / SQL server
- Never recycle display color on playback timeline changed from red to green
- The following functions renamed:
    - PVA Basics (Intrusion/Loitering) changed to People/Vehicle Intelligent Analysis
    - Hard Hat Detection changed to Personal Protective Equipment Detection
    - Violation Stay changed to Loitering
- Options for event alarms sent to GV-Center V2 upon motion and PVD events modified

Improved:

- AI event images encrypted and file type changed to .gvj
- Single-channel division playback performance improved when double-clicking on a snapshot on the AI event lists
- Polygon mask regions supported for PVD Motion and People/Vehicle Intelligent Analysis settings
- Support for automatic GOP adjustment when GOP value exceeds the camera FPS value and when PVD motion is enabled
- Remote live view and playback performance and interface optimized using WebCam Server

Version 1.1 2022-07-06

New:

- Support for GV-SD4834 / 4825-IR (Patch V1.0.0.3)

Fixed:

- Failure to send email notifications with the specified subject (Patch V1.0.0.1)
- Issue of moving objects outside of detection regions being detected as PVD events (Patch V1.0.0.4)
- Issue of excessive bounding boxes compared to detected objects (Patch V1.0.0.4)
- Issue of bounding boxes falling behind detected objects (Patch V1.0.0.4)
- System error occurred after removing the following GV-IP cameras from monitoring schedules: GV-ABL / TBL Series, GV-ADR / TDR Series, GV-AVD / TVD Series, GV-BLFC5800, GV-EBD Series, GV-EBFC5800, GV-FER5702, GV-PTZ5810-IR, GV-SD2322-IR / SD2722-IR / SD3732-IR / SD4825-IR / SD4834-IR, GV-TFD Series (Patch V1.0.0.5)
- Failure to start WebCam Server on schedule (Patch V1.0.0.5)

Modified:

- The Object option added to the AI Event Table of Advanced Log Browser for event search (Patch V1.0.0.2)
- The detection sensitivity option added to PVD Motion settings, to reduce the false alarms caused by static vehicles and people being detected as events (Patch V1.0.0.2)
- The “People or Vehicles” event type added to Intrusion and Violation Stay settings (Patch V1.0.0.4)
- The detection sensitivity option added to the Intrusion settings, to reduce the false alarms caused by static vehicles and people being detected as events (Patch V1.0.0.4)
- Some wordings displayed on the UI corrected (Patch V1.0.0.4)
- Only objects identified within the set Region area to be recorded in the Live AI Event Lists (Human Detection and Vehicle List) and AI Event Log; objects detected outside the set Region area to be ignored. (Patch V1.0.0.4)
- Redundant audio files removed