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# GV-VMS V20 Version History

## Version 20.1.3 2026-10-19

**Fixed**:

- Issue with missing audio in the Live View of a connected GV-VMS host in GV-Control Center (Patch V20.1.2.1)
- Issue with GV-Center V2 not receiving events from any channel when "Send PVD Motion events only" is enabled for Channel 1 (Patch V20.1.2.1)
- Issue with Advanced Log Browser failing to display POS transaction data and becoming unresponsive after reloading the date (Patch V20.1.2.1)
- Issue of unmodified channels shifting slightly after saving the position of a Privacy Mask (Patch V20.1.2.1)
- Issue with SQL connection settings reverting to outdated values after the software became unresponsive, preventing log data from being displayed (Patch V20.1.2.2)
- Issue with Remote ViewLog Service becoming unresponsive over time, preventing remote clients from accessing ViewLog
- Issue with PTZ control of the third-party camera AXIS M5525-E in GV-VMS V20.1.2 and GV-Edge Recording Manager when connected through GV-VMS
- Issue with Live View flickering and stuttering when a channel contains POS or Privacy Mask information
- Issue with abnormal OS behavior when Key Lock Utility is enabled and Desktop Type is set to GV-VMS
- Issue with AI events not being received properly when connected to GV-TMEB5800 firmware V1.02 or earlier

**Improved**:

- Motion recording mechanism optimized

**Modified**:

- Web Window function expanded to allow access with the GV-VMS V18 Platform License, in addition to the GV-VMS Pro License or AI License
- Improved GV-USB Device Driver compatibility with Windows Core Isolation

## Version 20.1.2 2026-08-11

**Fixed**:

- Remote update failure when upgrading GV-VMS to V20.1.1 via GV-Enterprise

## Version 20.1.1 2026-08-05

**Fixed**:

- Issue with hardware watchdog triggering a PC restart during installation on systems with an internal dongle, causing an incomplete installation and abnormal GV-VMS behavior

## Version 20.1.0 2026-07-22

**New:**

- Support for Windows Server 2025
- Support for GPU decoding with multiple AMD graphics cards
- Support for mask-compatible recognition in the built-in face recognition engine (Local FR), enabling identification even when subjects are wearing masks
- Support for Absence Event Detection, triggering actions when no person, vehicle, or both are detected for a defined period
- Support for push notifications via GV-Eye V3.6.0 or later, Telegram, and LINE
- Multi-Factor Authentication (MFA) for user login
- Integration of OAuth authentication for e-mail services, enabling login-based authentication
- Time Synchronization Setup window added, allowing users to configure Windows time synchronization settings directly within GV-VMS V20
- Web Window function for accessing web pages in the live view layout (GV-VMS Pro License or AI License required)
- More feature support for SIP function:
    - Support for receiving calls from devices registered to the same SIP server, in addition to the original outbound dialing function
    - Support for video calls
- Illumination Mode option added to Video Settings in IP Device Setup, supporting switching the camera's light source between Infrared Light and White Light (Patch V20.0.2.2)
- Stream Type option (Main, Sub, or Both) added for scheduled Round-the-Clock and Motion Detection recording
- Trigger Interval Time option added for Abnormal Temperature Detection in IPCVA settings
- Custom keyword configuration added for 3rd-party events in IPCVA settings, enabling keyword mapping to AI events and keyword-based event exclusion (requires cameras with ONVIF Profile M support)
- Record List added to ViewLog, enabling video event search by exact time
- Face Manager option added in E-Map settings, enabling selection of face groups that trigger Recognition Events and Face Tracking on the E-Map
- Delete Group function added in Face Manager Group Setup; not supported if Face Manager contains any GV-VD8700 (GV-Face Recognition Camera)
- Support for POS transactions to the GV-Cloud platform, including search and video playback with POS text overlay (Patch V20.0.2.5)

- Support for uploading Object Count (people and vehicle counting) and GV-3D People Count analytics data to Web Report on GV-Cloud VMS V1.7.0 or later
- Support for receiving Loitering events from GV-G Series IP Cameras and GV-TMEB5800 (Patch V20.0.2.2)
- Support for receiving Face Detection events from GV-BX2700-FD (IP camera) (Patch V20.0.2.2)
- Support for the following IP camera models:
  - GV-CBL2800 / CEB2800 / CBL4811 / CEB4811 / GBLF4813 / GDRN4800 / GVD4810 / GVD12810 / TMS20811 (Patch V20.0.2.2)
  - GV-GBLP8900 / GEBP8900 (Patch V20.0.2.5)
  - GV-GEBF4813 (Patch V20.0.2.8)
  - GT-YBL5800 / YBL5811 / YDR5800 / YVD5811 (AI event integration for GT-Y Series not supported)
- Support for GV-TXVL1610 (HD DVR model) (Patch V20.0.2.2)
- Support for GV-TXVL1610 (HD DVR model) dual-stream connections with GV-VMS

**Fixed**:

- Chances of unexpected main stream or sub stream disconnection (Patch V20.0.2.1)
- Blurred image issue where sub stream cannot switch to main stream when Privacy Mask with ROI Apply Mosaic is enabled (Patch V20.0.2.1)
- Chances of “Connection Lost” or “Video Not Updated” messages occurring after switching from single screen to multiple screens, which disappears after a few seconds (Patch V20.0.2.1)
- Chances of motion detection mechanism error (Patch V20.0.2.1)
- Abnormal snapshots with partial green-tinted overlays recorded in the Event List for Crowd Detection events (Patch V20.0.2.1)
- Face group data error when group data is modified multiple times for a face profile (Face Manager > Face Enrollment) (Patch V20.0.2.1)
- Issue with motion event recordings containing only key frames when applying both Round-the-Clock (General Event) and Advanced Motion Detection (Urgent Event) settings (Patch V20.0.2.1)
- Failure to output audio when playing audio files under 2 seconds on a connected IP speaker
- Issue of GV-Desktop not functioning properly after an abnormal shutdown and restart (Patch V20.0.2.1)
- Issue with GV-IP Decoder Box connection causing memory growth (Patch V20.0.2.3)
- Issue of cameras disappearing from Camera List after modifying camera ID and sorting (Patch V20.0.2.3)



- Issue with all channels of a multi-sensor camera appearing as CH01 when displayed on a GV-IP Decoder Box from GV-VMS V20 (Patch V20.0.2.3)
- Issue with playback timeline errors occurring when the recording database folder is renamed in French (Patch V20.0.2.3)
- Issue with Advanced Log Browser layout when exporting results to PDF (Patch V20.0.2.5)
- Issue with the File Transfer Service in Remote Desktop when accessed via GV Control Center or GV Edge Recording Manager (Patch V20.0.2.6)
- Issue with UI errors after adding 3rd party cameras (Dahua DH-IPC-HUM8441E-E1-L1) through ONVIF (Patch V20.0.2.7)
- Issue of privacy mask regions on other channels becoming smaller after maximizing the UI and saving settings during configuration (Patch V20.0.2.8)
- Issue of the Face Enroll option in the Snapshot menu disappearing after a PC reboot when GV-VMS starts with Local FR and Auto Startup Login
- Issue with Local FR functioning abnormally in specific environments, working initially after face enrollment but failing after GV-VMS restart
- Issue with Local FR results containing groups but returning no results when performing an AI Query using the same group
- Issue with motion events still being triggered within privacy masks (Patch V20.0.2.9)
- Issue with hardware motion detection setting failing to enable for GV-C Series IP cameras after monitoring started (Patch V20.0.2.9)
- Issue with AI Counter records not fully displayed in GV-WebCam Server compared with Advanced Log Browser using the same time interval
- Issue with content display in System Log and GV-WebCam Server Event List Query when using the latest Microsoft SQL Server, or when SQL Server is running on a non-English OS (Patch V20.0.2.11)
- Issue where registered face names exceeding 30 characters in Local FR prevent recognition data from being displayed in the Event List and from triggering Send Email
- Issue with GV-LPR2812-DL failing to connect in GV-VMS V20 when using a newly changed password via the Web UI after the camera has already been added to GV-VMS V20
- Issue with GV-VMS V20 face recognition results in FR Watch in GV-Control Center V4.3.1 incorrectly showing different persons as 100% similarity matches
- Chances of I/O events recorded via the Rec. Video option not being marked in red on the playback timeline for GV-VMS V20.0.2
- Issue of Never Recycle events resetting to normal events after repeatedly switching dates, which may cause the recordings to be deleted by the recycle mechanism

- Issue with cameras added to channels 65–256 after upgrading from GV-VMS V17/V18 to V20 not being displayed for Administrator accounts created before the upgrade
- Issue with connection failures when connecting to cameras over the Internet
- Chances of single-channel video playback becoming temporarily unresponsive when using playback speeds of 4x or higher for a GV-VMS V17/V18/V20 host in GV-Control Center V3/V4
- Issue with IP speakers supporting only .wav files in Send Alerts Approach Setup, despite .mp3 files being selectable in the Content List
- Issue with stream switching delay in GV-VMS after upgrading (Patch V20.0.2.12)
- Chances of PVD Motion detecting people or vehicles smaller than the configured minimum Size Filter threshold (Patch V20.0.2.13)
- Chances of email snapshots for PVD events showing the previous event instead of the current triggered event (Patch V20.0.2.13)
- Issue of incorrect PVD size detection when Schedule Monitoring is automatically started at system startup (Patch V20.0.2.13)

**Improved**:

- Cybersecurity enhanced in GV-WebCam Server (Patch V20.0.2.10)
- Cybersecurity enhanced in the GV-Cloud functionality

**Modified**:

- Push notification UI unified for email notifications, computer alarms, output devices, and IP speakers
- POS user interfaces and operations optimized and streamlined:
  - Automatic adjustment of POS transaction text on video channels to window size (Patch V20.0.2.2)
  - Replacement of POS Table tabs with combo boxes
  - Enable Text Scrolling option added to POS Text Overlay (default: continuous upward scrolling; when disabled, text is cleared at display capacity)
- Focus Views can now be added to Scan Window, in addition to cameras
- Live View button added to Event List to display the live view of the camera associated with the selected event
- Event snapshot download function added to Event List and AI Query
- PVD detection now supports corridor mode
- Play Audio File function now accessible from each camera channel > Tools for its associated IP speaker, in addition to the Content List > IP Speaker List
- GV-MCamCtrl Utility updated to include new F7 and F8 menu options for GV-Joystick V3 operations (Patch V20.0.2.2)

- Enhanced polygon editing for detection / mask region creation in Advanced Motion Detection and Object Search settings
- GV-WebCam Server login now blocks further attempts after multiple failed login attempts until the protection period expires
- Advanced Log Browser export period extended from 30 days to 90 days
- Browse System Log user privilege in Account Management now also controls access to AI Query
- Video metadata support expanded to include 17 additional vehicle brands for AI Query (Patch V20.0.2.2)
- AI Query updated to support sorting of query results by Time or Confidence Index for face matching, and by Time for other results
- System stability improved when connected to certain 3rd party IP cameras (Uniview IPC2324SS-DZK-10, IPC324SS-DF28K-10, IPC3234LR3-VSP-D) (Patch V20.0.2.3)

## Version 20.0.2 2025-11-25

**Fixed:**

- Chances of abnormal recording states in channels using GV-VMS's software motion detection
- Issue of 3rd-party cameras with built-in I/O missing from the IP device list in I/O Device Setup, causing their I/O functions to be unavailable

## Version 20.0.1 2025-10-15

**New:**

- Support for conversion of AI / Face event data from GV-VMS V18 to V20 during installation
- Support for FR Watch and AI Watch in GV-Control Center V4.3 to monitor live face recognition and AI events and search event logs from GV-VMS hosts running V20.0.1 or later
- Support for new GV-IP Camera: GV-GEBF2802

**Fixed:**

- Issue of settings being grayed out in IP Cam Video Analysis for GV-TMS8800 Channel 2
- Issue of GV-VMS being unresponsive when Ultra Motion Detection is enabled in the Web Interface of GV-A/T/EBD Series IP Cameras
- Chances of the GV-Cloud platform being unable to receive AI and PVD events from GV-VMS
- Issue of GV-VMS repeatedly disconnecting when Image Size is set to Middle, Large, or Actual Size in GV-Center V2 (Subscriber Settings > Monitor Option > Image Size)
- Chances of GV-VMS becoming unresponsive when connected to UVS/EVS-ABL1300, UVS/EVS-ADR1300, or GV-SD2322-IR IP cameras
- Issue of GV-VMS failing to launch properly when the PC environment contains a process or service with an excessively long name
- Issue of GV-Vital Sign Monitor V18.4.1 not receiving notifications from GV-VMS V20 when a camera under the GV-VMS V20 host is disconnected
- Inability to properly synchronize Video Process settings under Configure and those accessed by right-clicking a camera in the Content List, resulting in inconsistent configuration values
- Issue of GV-WebCam Server becoming unresponsive after repeatedly playing back any events in Event List Query with SSL enabled
- Inability to open the Settings interface for Object Search in ViewLog
- Issue of black screen during Video Clip playback on GV-Center V2 after setting General Settings > Codec to Geo Mpeg4 and upgrading GV-VMS V17/V18 to V20
- Issue of GV-Eye disregarding channel access permissions, allowing users with limited playback permissions to view recordings from all GV-VMS channels
- Issue of the playback process stopping unexpectedly when playing back backup recordings that span 3 days or more

**Modified:**

- Improved compatibility with Intel Core Ultra Desktop Processors (Series 2)

- Intel GPU decoding mechanism standardized
- End of support for TLS 1.1 and earlier encryption protocols in WebCam Server
- Event transmission mechanism to GV-Cloud updated (see Note 10 in the *Licenses* section of the *GV-Cloud VMS Datasheet* for details)
- Microsoft components updated

## Version 20.0.0 2025-07-09

**New:**

- Support for up to 256 channels, including 64 free channels for GV-IP devices.
- Support for built-in face recognition engine for face enrollment and recognition on the local GV-VMS
- AI Query to filter AI and PVD 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-VMS 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 AI events from Hanwha (XND-C6083RV, PND-A6081RV), Milesight, and Uniview cameras
- Support for face detection events from GV-G Series (GV-Gxxxxx) and GV-R Series (GV-Rxxxxx) cameras
- AI event setup remotely on GV-VMS for AI-capable GeoVision IP cameras
- Motion detection setup remotely on GV-VMS for GeoVision IP cameras
- Customizable event colors on the timeline
- Support for Smart PVD Motion Search, which looks for people and vehicle motion in videos based on specified regions of interest
- Scheduling support for ViewLog's video backup
- More feature support for GV-IP Speakers:
    - Scheduled audio playback
    - AI event-triggered audio playback
    - Motion-triggered audio playback
    - .mp3 audio file supported
- Support for fisheye camera dual-stream recording
- Support for 16-division display on GV-Decoder Box Optimal and GV-Display116, allowing assignment of desired channels from GV-VMS for remote display
- Support for two-way audio communication between GV-VMS camera channels and the GV-Cloud VMS platform (using the WS player)
- Support for RTSP over SSL (under Mobile Service)

- Support for the following devices:
  - GV-3D People Counter V3 to receive the people count data
  - GV-EBDP8800
  - GV-GBL12811 / GBLF2802 / GBLF4802 / GBLN4800 / GDR2801 / GDRF4800 / GEBF4802 / GEBN4800 / GFER12800 / GFER6900 / GPTZ4810
  - GV-LPR2812-DL
  - GV-RMS32810
  - GV-TBL2718 / TBLP8800
  - GV-TMS8800
  - GV-TVD2712
  - UA-XVL1611

**Improved:**

- User interfaces and operations optimized and streamlined, including re-layout of the main screen, instant playback on the main screen without switching to another app, enlarged preview video, recategorizing functions, and more
- A command added to the Fast Key Lock function: press Alt + P + “Preset Num” to move a PTZ camera to a preset location
- The main screen allowed to be resized and repositioned by dragging freely
- Support for GPU decoding of up to 8 MP with multiple NVIDIA graphics cards

**Modified:**

- AI Event Table (under System Log) replaced by the new Event List on the main screen
- Video analysis functions removed, including Object Index, Defog, Stabilizer, Counter/Intrusion Alarm Setting, Crowd Detection, Advanced Unattended Object Detection, Advanced Missing Object Detection, Face Count, and Heat Map
- Media Man Tools removed
- User Interfaces and images not affected by Windows’ display scaling change
- AI Event Storage Setting split from System Log Setting. Now accessible via ViewLog > Configure
- Automatic frame rate adjustment to 15 fps for 1 to 32 channels, and to 7 fps for more than 32 channels
- No more support for Bandwidth Control
- No more support for GV-SD Card Sync Utility
- No more support for Media Man Tools
- No more support for compressing video into Geo Mpeg4 for transmission to GV-Center V2 / Control Center / Edge Recording Manager

**Note:** Currently, GV-Center V2 only supports the first 64 channels from GV-VMS V20.