

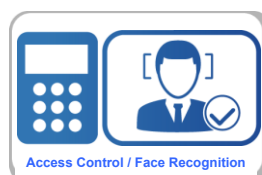
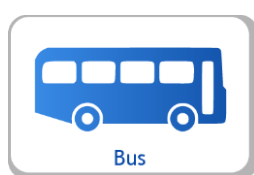
GV-Mobile System 2710



INTRODUCTION

GV-Mobile System 2710 is a fanless system capable of operating over a wide temperature range and features anti-vibration protection, making it ideal for public transit and industrial environments.

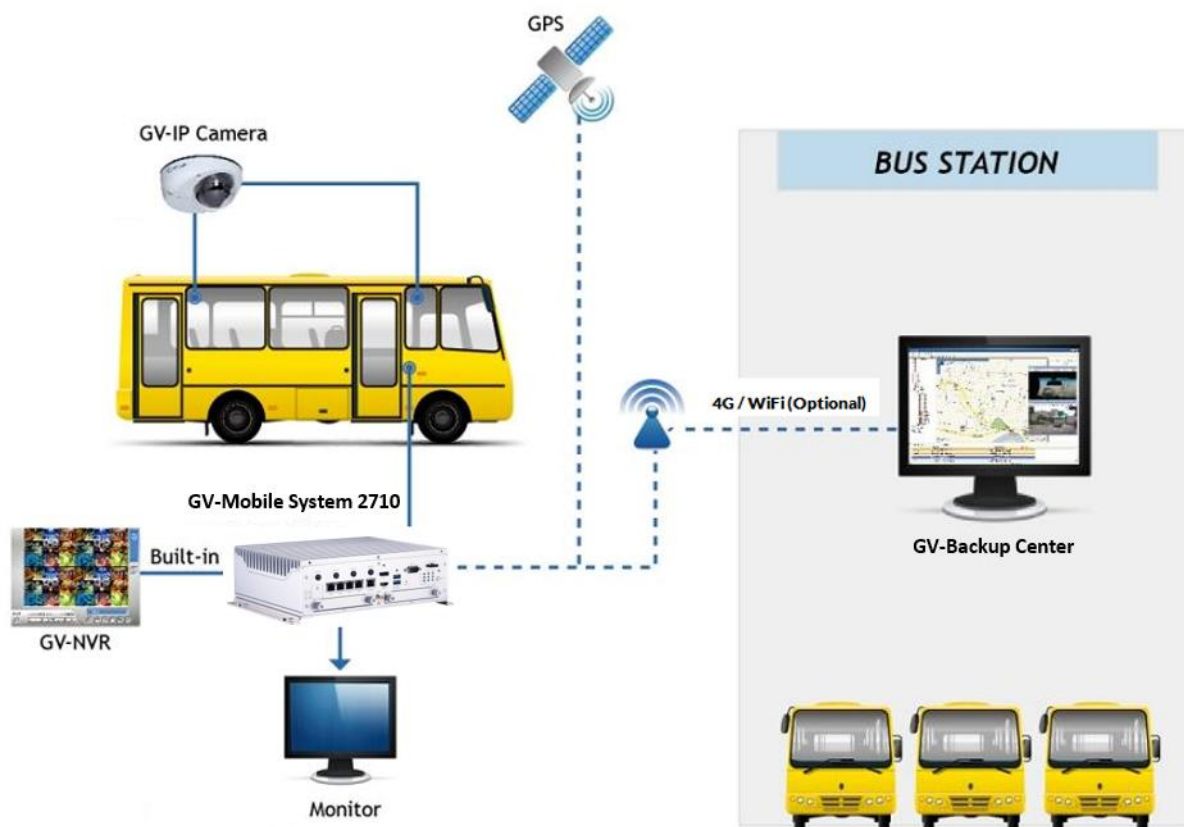
GV-Mobile System 2710 offers up to 2 hot-swappable HDD or SSD drive bays. This system supports up to 32 channels for GV-NVR, and up to 64 camera channels for GV-VMS to provide an all-in-one solution (Live View, Playback, Recording, Backup, CMS). The system can also fulfill various access control requirements when installed with GV-ASManager access management software or GV-AI FR face recognition system.



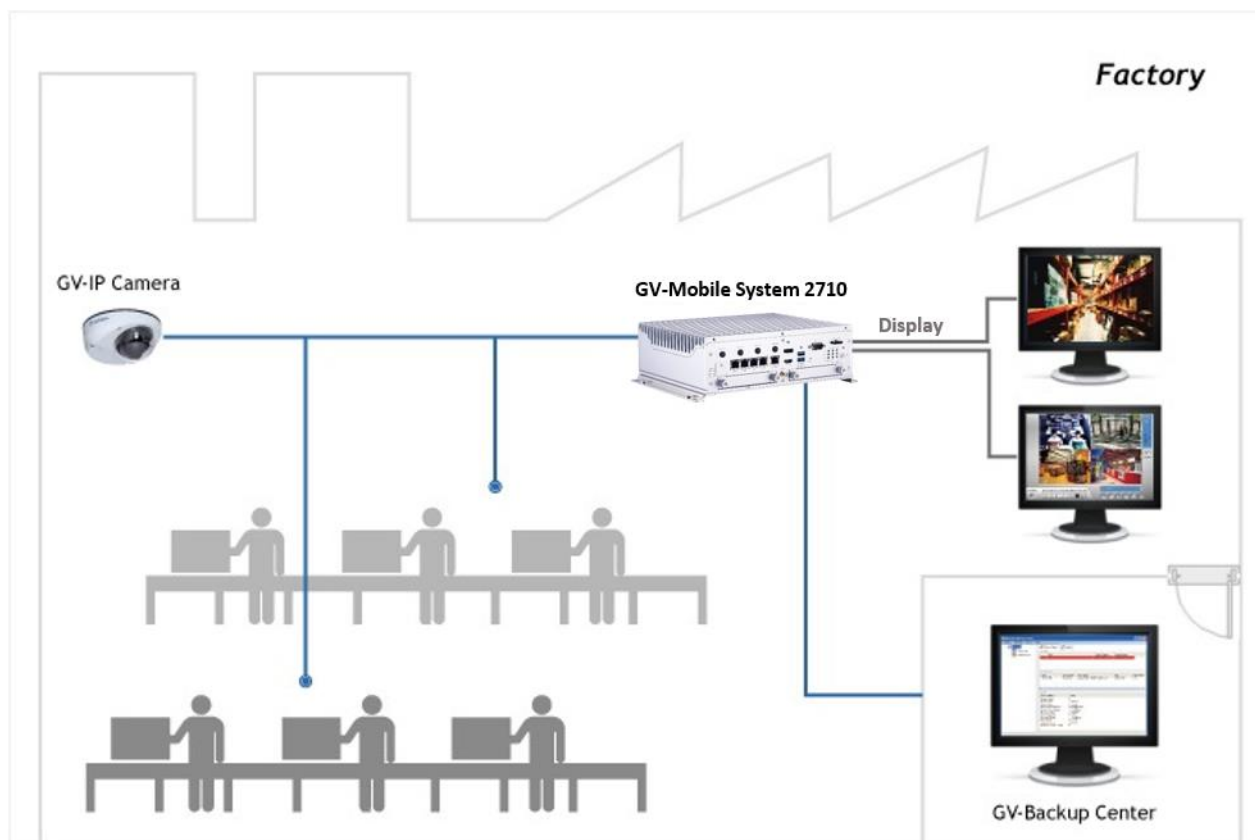
APPLICATIONS

GV-Mobile System 2710 (NVR model) is designed for digital surveillance in harsh transportation and industrial environments. It can be installed in a public transit vehicle or a factory to record video from GV-IP cameras installed in the vehicle. The system supports simultaneous connection to three monitors, while its hot-swappable storage drives provide convenient access to recordings and allow data backup in minutes.

With a GPS receiver, the GV-Mobile System 2710 (NVR model) can transmit GPS data received from satellites to the [GV-Backup Center](#) through a mobile network connection.



In addition to public transit applications, the GV-Mobile System 2710 can also be installed in fixed, harsh environments such as factories. In these installations, automatic video backup is supported through a LAN connection.



With a mobile device or an Internet browser, you can access the live view and recorded events anywhere.



Models

- GV-Mobile System 2710
- GV-Mobile System 2710 with 4G Module (3G backward compatible)
- GV-Mobile System 2710 with Wi-Fi Module (2.4G / 5G)

Supported Software

- GV-NVR (up to 32 channels)
- GV-VMS (up to 64 channels)
- GV-ASManager
- GV-AI FR
- Other GV-Software (by request)

KEY FEATURES

- Powered by Intel Core i7 Processor
- 64-bit Windows 11 IoT Enterprise
- GPU Decoding
- 2 Hot-Swappable HDD / SSD bays for up to 4 TB of storage
- Fanless System
- Vibration and Mechanical Shock Protection (MIL-STD-810H)
- Power Ignition Management (ACC)
- Wide Operating Temperature (-20°C ~ 60°C / -4°F ~ 140°F for Industrial SSD)
- 5 Ethernet Ports (4 x 2.5 GbE PoE 802.3af/at, max. 60 W total; 1 x 1 GbE LAN)
- Multiple monitor display for up to 3 monitors simultaneously (HDMI, DisplayPort, VGA)
- Optional Wireless Communication (4G / Wi-Fi)
- Built-in GPS (Vehicle Tracking supported for GV-NVR only)
- E-Mark Certified

SPECIFICATIONS

Hardware

System			
CPU		Intel i7 Processor	
RAM		DDR5 16 GB Dual Channel	
OS		64-bit Windows 11 IoT Enterprise	
No. of Drive Bay		2 (2.5" HDD / SSD)	
Internal Storage		128 GB (Industrial SSD)	
HDD Storage		Up to 4 TB	
Connector	Ethernet		2.5 GbE PoE Port x 4 (IEEE 802.3af/at, max. 60 W total) 1 GbE Ethernet Port x 1
	Video Output		HDMI 2.0a/b, DisplayPort, VGA
	USB		Front: USB 3.2 (Type-A, 10 Gbps) x 2 Rear: USB 3.2 (Type-A, 10 Gbps) x 4
	Power		9 ~ 36V DC, Power Port
	Antenna	4G	Front: 2 ports
		Wi-Fi	Rear: 2 ports
GPS		Front: 1 port	
Power Adapter (Optional)		Input: 100 ~ 240V AC, 50 - 60 Hz Output: 19V DC, 6.32A	
Fan		N/A	
Environment			
Operating Temp.	HDD	0°C ~ 60°C / 32°F ~ 140°F	
	SSD	-20°C ~ 60°C / -4°F ~ 140°F (Industrial SSD)	
Humidity		10 ~ 90% RH (non-condensing)	
Physical			
Color		Silver	
LED Indicator		9 LED indicators (PoE x 4, WLAN x 1, Storage x 1, Power x 1, Status x 1, WWAN x 1)	
Dimensions (W x H x D)	Without mount bracket	260 x 210 x 81 mm (10.24 x 8.27 x 3.19")	
	With mount bracket	293 x 210 x 90 mm (11.54 x 8.27 x 3.54")	
Net Weight		5.7 kg / 12.57 lb (± 1 kg / 2.2 lb)	
Operating Shock		MIL-STD-810H, Method 516.8, Procedure I, trucks and semi-trailers=40g	
Non-operating Shock		MIL-STD-810H, Method 516.8, Procedure V, ground equipment=75g	
Operating Vibration		MIL-STD-810H, Method 514.8C, Procedure 6, Category 4 IEC 60068-2-64: 2.0g @5~500 Hz	
Storage Vibration		MIL-STD-810H, Method 514.8E, Procedure 1, Category 24, 7.7g	
Certification			
Type		CE, FCC, UKCA, E-Mark	
Sensor and Alarm			
Inputs		4 / 8 / 16 ports (optional GV-I/O Box required)	
Outputs		4 / 8 / 16 ports (optional GV-I/O Box required)	

Wireless Connectivity

Built-in GPS	Supported Satellite Systems: GPS / QZSS, Galileo, GLONASS, BeiDou
4G Module (Optional)	Global Frequency Bands: - LTE-FDD: B1 / B2 / B3 / B4 / B5 / B7 / B8 / B12 / B13 / B14 / B18 / B19 / B20 / B25 / B26 / B28 / B66 / B71 - LTE-TDD: B38 / B39 / B40 / B41 3G (WCDMA): B1 / B2 / B4 / B5 / B6 / B8 / B19 2G (GSM / EDGE): Not supported - CDMA Bands: Not supported
Wi-Fi Module (Optional)	Supported Standards: - Wi-Fi: IEEE 802.11a/b/g/n/ac/ax - Bluetooth: Bluetooth 5.2

Note:

- The Maximum License is a paid service.
- If you are in an area with unstable voltage, make sure to install an automatic voltage regulator (AVR) or a UPS power supply with AVR function, to maintain a constant voltage.
- All damages to the power supply caused by unstable voltage are not included in the 2-year warranty service.
- All specifications are subject to change without notice.

Maximum Channels and Frame Rate Supported by GV-NVR

Dual Streams from GeoVision and third-party IP Cameras

Video resolution	Dual Streams		Supported Channel	Total Frame Rate
	Stream 1 (H.264)	Stream 2 (H.264)		
1.3 MP	1280 x 1024	320 x 256	31 Ch	930 fps
2 MP	1920 x 1080	448 x 252	25 Ch	750 fps
3 MP	2048 x 1536	320 x 240	32 Ch	640 fps
5 MP	2560 x 1920	320 x 240	32 Ch	320 fps

Video resolution	Dual Streams		Supported Channel	Total Frame Rate
	Stream 1 (H.265)	Stream 2 (H.264)		
1 MP	1280 x 720	640 x 360	15	450 fps
2 MP	1920 x 1080	640 x 360	9	225 fps
3 MP	2048 x 1520	640 x 480	9	180 fps
4 MP	2560 x 1440	640 x 360	12	180 fps
5 MP	2592 x 1944	640 x 480	10	150 fps

Note: The total frame rate and channels supported are determined in round-the-clock recording settings with live view only, while remote connections and video analysis features are disabled.

Maximum Channels and Frame Rate Supported by GV-VMS

Dual Streams from GeoVision IP Cameras

Video Resolution	Dual-Stream Resolution		Max. Frame Rate / Camera	Channels Supported	Total Frame Rate / System		
	Stream 1 (H.265)	Stream 2 (H.264)			Recording	Live View for GV-VMS V20 ¹	Live View for GV-VMS V17/V18 ¹
2 MP	1920 x 1080	640 x 360	30 fps	64	1920 fps	448 fps	960 fps
4 MP	2688 x 1520	640 x 360	30 fps	64	1920 fps	448 fps	960 fps
8 MP	3840 x 2160	1280 x 720	20 fps	64	1280 fps	448 fps	960 fps

Note:

- For GV-VMS V20, if more than 32 channels are connected during initial setup, all sub streams default to 7 fps. In this case, the total live view frame rate per system is:
 - $Total\ Live\ View\ Frame\ Rate\ (fps) = 7\ (fps) \times Channels\ Supported$
- For GV-VMS V17/V18, if more than 32 channels are connected during initial setup, all sub streams default to 15 fps. In this case, the total live view frame rate per system is:
 - $Total\ Live\ View\ Frame\ Rate\ (fps) = 15\ (fps) \times Channels\ Supported$
- The supported channel count was tested using a Full HD (1080p) monitor.
- The total frame rate and channels supported are determined in round-the-clock recording settings with live view only, while remote connections and video analysis features are disabled.

Options

GV-IO Box Series	GV-IO Box series (4E / 4 Ports / 8 Ports / 16 Ports) provide 4 / 8 / 16 inputs and relay outputs, and supports both DC and AC output voltages, with optional support for Ethernet module and 4E additionally supporting PoE, TCP/IP and RS-485 connection.
GV-Joystick V3 (for GV-VMS)	GV-Joystick V3 facilitates PTZ camera control. It is compatible not only with GeoVision software, but also with any third-party software that supports the HID standard.
Power Adapter	Power adapters are available in 6 regions: U.S.A., Australia, U.K., Europe, Argentina, and Brazil.
4G Module	The 4G module allows data exchange for the GV-Mobile System through the network connection covering wide area.
Wi-Fi Module	The Wi-Fi module allows data exchange for the GV-Mobile System through wireless network connection within local area.

Note: The 4G / Wi-Fi module will be built into the GV-Mobile System and tested before shipment. Opening the case and installing the accessories yourself will void the warranty.

Overview

Front View



Rear View



Note:

- 4G / Wi-Fi / GPS antennas must be connected to their corresponding antenna ports.
- The GV-Mobile System includes a built-in GPS module (GPS features are only available in GV-NVR). Wi-Fi and 4G modules are optional.

Packing List

- GV-Mobile System 2710
- 5-pin Terminal Block (for ACC Connection and DC In)
- HDD screw x 8
- GPS Antenna
- GV-NVR Dongle for third-party IP Camera Connection (Optional)
- GV-VMS Dongle for 64CH or third-party IP Camera Connection (Optional)
- GV-ASManager Dongle (Optional)
- GV-AI FR Dongle (Optional)