

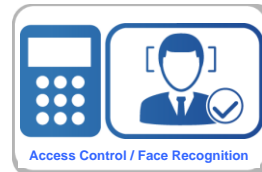
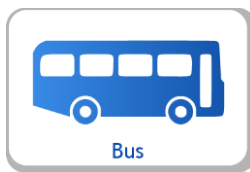
GV-Mobile System 2700



INTRODUCTION

GV-Mobile System 2700 is a fanless system capable of operating at a wide range of temperature and comes with anti-vibration protection, making it ideal for public transits and industrial environment.

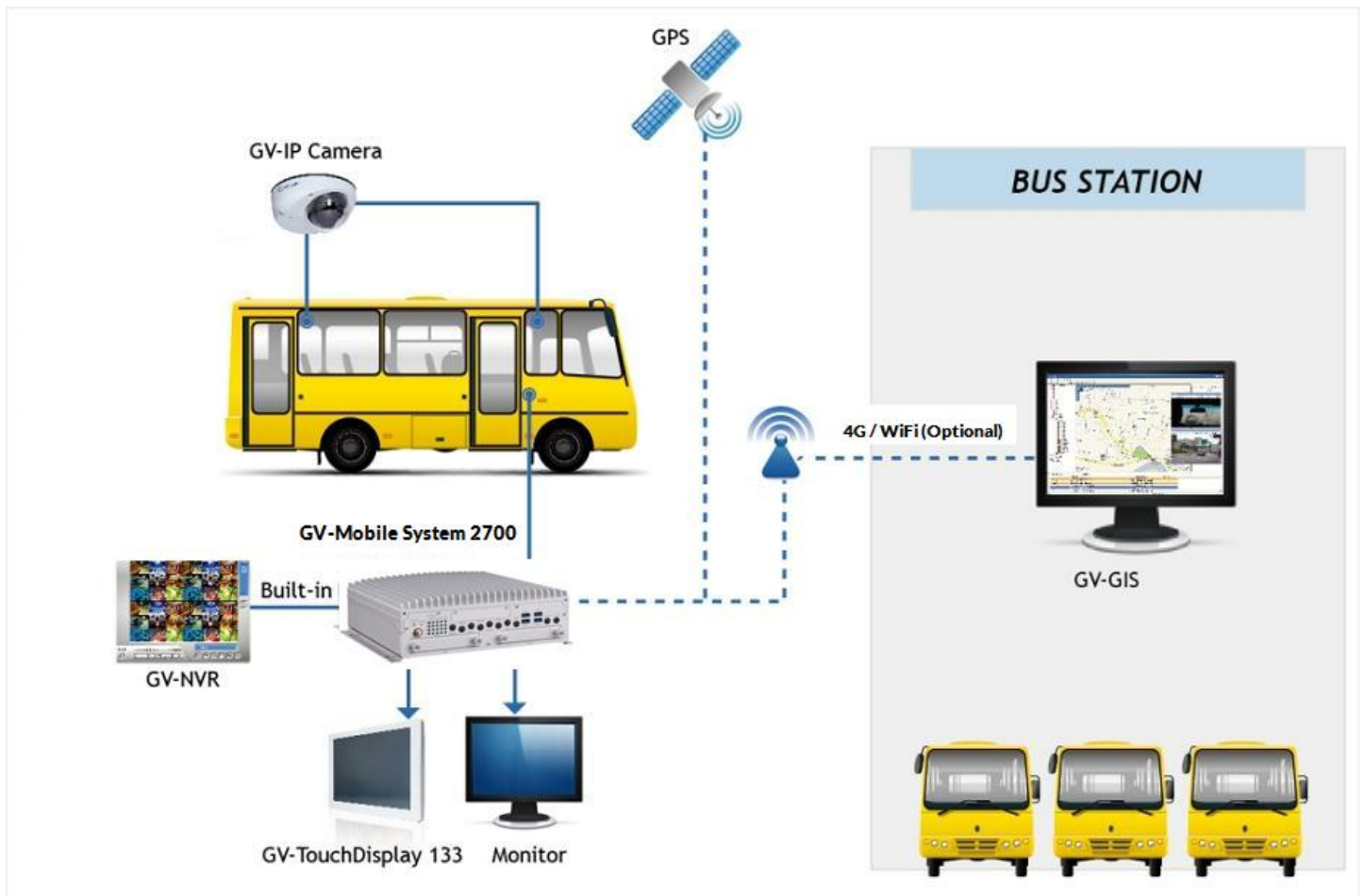
GV-Mobile System 2700 offers up to 2 hot-swappable bays of HDD or SSD for choice. When built-in GV-NVR or GV-VMS, the GV-Mobile System 2700 supports up to 64 channels of megapixel cameras to provide an all-in-one solution (Live View, Playback, Recording, Backup, CMS). The system can also fulfill various access control requirements when installed with access management software GV-ASManager or GV-AI FR face recognition system.



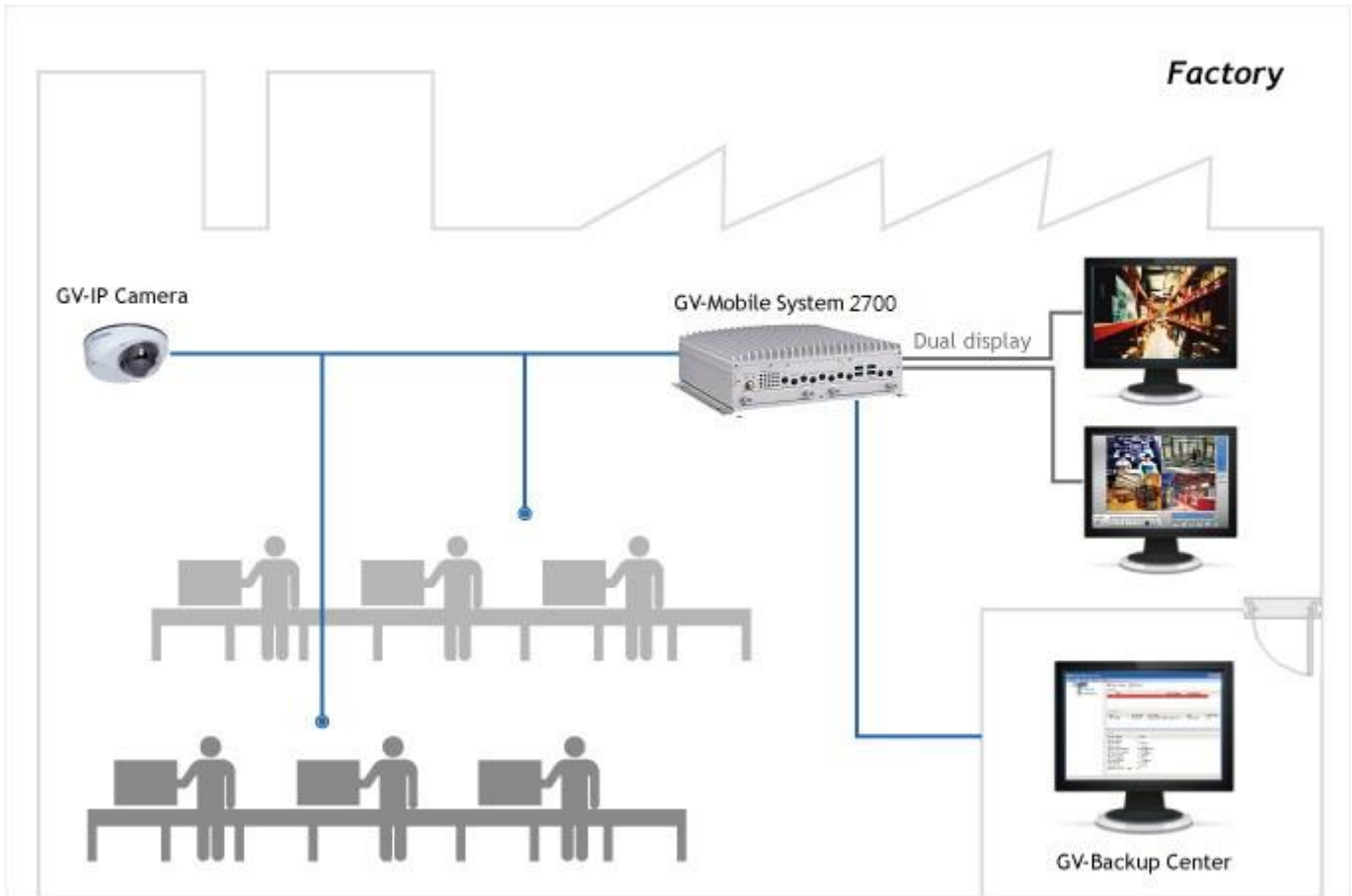
APPLICATIONS

GV-Mobile System 2700 (NVR model) is designed for digital surveillance of rough transports and industrial environments. It can be set up in a public transit or a factory to record images from the IP cameras installed in the vehicle and can be connected to dual monitors with one monitor displaying live view and the other displaying alarm-triggering events. The hot-swappable storage drives also provide convenient access to recordings and allow data backup in minutes.

With a GPS receiver, the GV-Mobile System 2700 (NVR model) is able to transmit the GPS data collected from the satellite to the GV-GIS (Geographic Information System) through mobile network connection for vehicle tracking.



Other than being applied in a public transit, the GV-Mobile System 2700 can be installed in a fixed and harsh place, such as a factory. The automatic video backup for the GV-Mobile System 2700 is made possible through LAN connection with GV-Backup Center.



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



Models

- GV-Mobile System 2700
- GV-Mobile System 2700 with 4G Module (3G backward compatible)
- GV-Mobile System 2700 with WiFi Module (2.4G / 5G)

Supported Software

- GV-NVR
- GV-VMS
- GV-ASManager
- GV-AI FR

KEY FEATURES

- Powered by Intel Core i7 Processor
- 64-bit Windows 10 IoT Enterprise
- GPU Decoding
- 2 Hot-Swappable HDD / SSD bays for up to 2 Terabytes
- Fanless System
- Vibration and Mechanical Shock Protection (2G at 5 ~ 500 Hz for SSD)
- Power Ignition Management (ACC)
- Wide Operating Temperature (-20°C ~ 60°C / -4°F ~ 140°F for Industrial SSD)
- 5 Ports of Gigabit LAN (4 x PoE 802.3af/at, max. 60W)
- Dual-monitor display with VGA and HDMI outputs
- Optional Wireless Communication (4G / WiFi)
- Built-in GPS (Vehicle Tracking supported for GV-NVR only)
- E-Mark Certified (by request)

SPECIFICATIONS

Hardware

System			
CPU		Intel i7 Processor	
RAM		16 GB	
OS		64-bit Windows 10 IoT Enterprise	
No. of Drive Bay		2 (2.5" HDD / SSD)	
Internal Storage		64 GB (m-SATA MLC Industrial SSD)	
Connector	Ethernet		5 Ports of Gigabit LAN (4 x PoE 802.3af/at, max. 60W)
	Video Output		VGA and HDMI
	USB 3.1		Front: 4 ports; Rear: 2 ports
	Power		9 ~ 36V DC, Power Port
	Antenna	4G / WiFi	Front: 10 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		19 LED indicators (including 4 programmable LEDs)	
Dimensions (W x H x D)		260 x 83.5 x 256 mm (10.24 x 3.29 x 10.08")	
Net Weight		4.2 kg / 9.25 lb (± 1 kg / 2.2 lb)	
Operating (SSD)		Operating: MIL-STD-810G, Method 516.6, Procedure I, functional shock=40g Non-operating: MIL-STD-810G, Method 516.6, Procedure V, crash hazard shock test=75g	
Operating Vibration		1.5 G @ 5 ~ 500 Hz (HDD) 2 G @ 5 ~ 500 Hz (SSD)	
Certification			
Type		CE, FCC, E-Mark (E13, by request) *For E-Mark certification, extra test fee is required	
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)	

Mobile Network Connection Supported

4G Module	For EU Area LTE: B1 (2100), B3 (1800), B5 (850), B7 (2600), B8 (900), B20 (800) WCDMA: B1 (2100), B5 (850), B8 (900) GSM: 900 MHz DCS: 1800 MHz CDMA Bands: Not supported GNSS: Not supported
	For US Area LTE: B1 (2100), B2 (1900), B3 (1800), B4 (1700), B5 (850), B7 (2600), B8 (900), B12 (700), B13 (700), B18 (850), B19 (850), B20 (800), B25 (1900), B26 (850), B28 (700) WCDMA: B1 (2100), B2 (1900), B4 (1700), B5 (850), B6 (800), B8 (900), B19 (800) GSM: B2, B3, B5, B8 DCS: 1800 MHz CDMA Bands: Not supported GNSS: Not supported
WiFi Module	IEEE 802.11a/b/g/n/ac draft2.0 1T1R and BT4.0 + BLE

Note:

1. The Maximum License is a paid service.
2. 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.
3. All damages to the power supply caused by unstable voltage are not included in the 2-year warranty service.
4. 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

Single Stream from GeoVision and third-party IP Cameras

Video resolution	Single Stream (H.264)	Supported Channel	Total Frame Rate
1.3 MP	1280 x 1024	25	750 fps
2 MP	1920 x 1080	19	570 fps
3 MP	2048 x 1536	15	300 fps
4 MP	2048 x 1944	13	195 fps
5 MP	2560 x 1920	11	110 fps

Single Stream De-warping from GV-Fisheye Camera

Video resolution	Single Stream (H.264)	Supported Channel	Total Frame Rate
1.3 MP	1280 x 1200	10	150 fps
2 MP	1440 x 1376	8	120 fps
4 MP	2048 x 1944	4	60 fps
5 MP	2560 x 1920	5	50 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 being disables.

Maximum Channels and Frame Rate Supported by GV-VMS

Dual Streams from GeoVision 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	64	1920 fps
2 MP	1920 x 1080	448 x 252	64	1920 fps
3 MP	2048 x 1536	320 x 240	64	1280 fps
5 MP	2560 x 1920	320 x 240	64	640 fps
8 MP	3840 x 2160	1280 x 720	64	1600 fps
12 MP	4000 x 3000	1024 x 768	64	960 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	64	1920 fps
2 MP	1920 x 1080	640 x 360	64	1920 fps
3 MP	2048 x 1536	640 x 480	64	1920 fps
4 MP	2560 x 1440	640 x 360	64	1600 fps
5 MP	2592 x 1944	640 x 480	64	1920 fps

Single Stream De-warping from GV-Fisheye Camera

Video Resolution	Single Stream (H.264)	Supported Channel	Total Frame Rate
1.3 MP	1280 x 1200	61	915 fps
2 MP	1440 x 1376	57	855 fps
3 MP	2048 x 1536	36	540 fps
4 MP	2048 x 1944	27	405 fps
5 MP	2560 x 1920	41	410 fps
8 MP	2896 x 2768	12	300 fps
12 MP	4000 x 3000	13	195 fps

Single Stream from GeoVision and third-party IP Cameras

Video Resolution	Single Stream (H.264)	Supported Channel	Total Frame Rate
1.3 MP	1260 x 1024	60	1800 fps
2 MP	1920 x 1080	38	1140 fps
3 MP	2048 x 1536	39	780 fps
4 MP	2048 x 1944	44	660 fps
5 MP	2560 x 1920	54	540 fps
8 MP	3840 x 2160	10	300 fps
12 MP	4000 x 3000	14	210 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 being disables.

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 V2	GV-Joystick V2 facilitates the PTZ camera control. It can be either plugged into the GV-Mobile System 2700 for independent use or connected to GV-Keyboard V3 to empower the operation.
GV-Keyboard V3	The GV-Keyboard V3 is designed to program and operate the system, and it can also be connected with PTZ cameras directly for PTZ control.
GV-TouchDisplay133	GV-TouchDisplay133 is a 13.3-inch touch panel designed for GV-Mobile System 2700. With the touch panel, you can monitor live images and operate NVR surveillance software by simply touching the screen.
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 2700 through the network connection covering wide area.
WiFi Module	The WiFi module allows data exchange for the GV-Mobile System 2700 through wireless network connection within local area.

Note: The 4G / WiFi module will be built in the GV-Mobile System 2700 and tested before shipment. Opening the case and installing the accessories yourself will void the warranty.

Overview

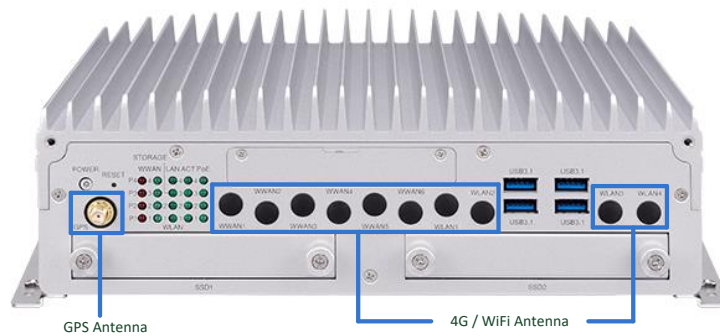
Front View



Rear View



Wireless Antenna



Note:

1. You can freely arrange and switch WiFi and 4G antennas in ports.
2. GPS module is already built in the GV-Mobile System 2700. 4G / WiFi modules are optional.

Packing List

- GV-Mobile System 2700
- 3-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)