## Introduction

GeoVision's License Plate Recognition is an effective and low-maintenance solution to ensure the security of parking lots, which are prone to crimes due to isolated and unstaffed corners. In addition to providing high-resolution video monitoring and recording, the LPR solution detects and recognizes vehicle license plates upon motion or I/O trigger.

A GV-LPR1200, GV-DSP LPR, GV-DVR LPR or GV-VMS LPR recognizes license plates detected in the video source, and sends the LPR results to GV-ASManager. Access can be granted when the detected license plate numbers match the vehicle registered in GV-ASManager's database. Alarm notifications and playing back LPR results are also supported.
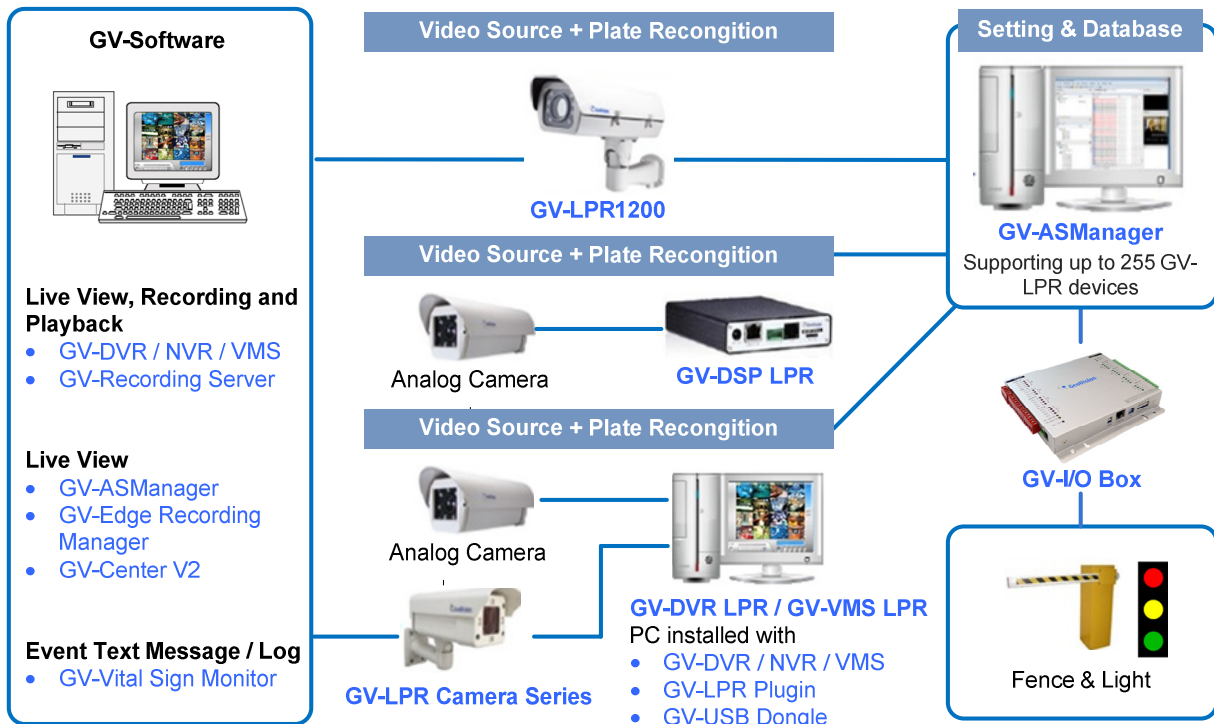
Available Version

🇦🇷 Argentina	🇦🇺 Australia	🇦🇹 Austria	🇧🇪 Belgium
🇧🇷 Brazil	🇨🇦 Canada	🇨🇳 China	🇨🇱 Chile
🇨🇴 Columbia	🇭🇷 Croatia	🇨🇿 Czech Republic	🇫🇷 France
🇩🇪 Germany	🇭🇺 Hungary	🇮🇳 India	🇮🇪 Ireland
🇮🇱 Israel	🇮🇹 Italy	🇲🇦 Morocco	🇲🇽 Mexico
🇳🇴 Norway	🇵🇱 Poland	🇵🇹 Portugal	🇶🇦 Qatar
🇷🇺 Russia	🇸🇰 Slovakia	🇿🇦 South Africa	🇪🇸 Spain
🇹🇼 Taiwan	🇬🇧 UK	🇺🇸 USA	🇻🇳 Vietnam

There is a Global version which is suitable for most of the other countries. More are to be implemented.

Features

GV-ASManager Access Control System

- Control up to 255 GV-DVR LPR / GV-VMS LPR / GV-DSP LPR / GV-LPR1200
- Up to 8 recognition channels per GV-DVR LPR / GV-VMS LPR
- Up to 100,000 vehicles
- Up to 100 Web browser connections
- Multiple vehicles per user
- Import / export of vehicle data in Access or Excel file format
- Vehicle hotlist to help locate stolen vehicles or other vehicles of interest
- Parking lot management to control vehicle access, maximum stay time allowed and number of vehicles allowed
- GV-Access mobile applications to remotely open LPR lanes
- GV-ASWeb: Remotely enroll vehicles and set up GV-DVR LPR / GV-VMS LPR / GV-DSP LPR / GV-LPR1200 on GV-ASManager
- GV-ASWeb: Remotely search detected vehicles, see license plate snapshots, watch recordings from connected GV-DVR LPR / GV-VMS LPR / GV-DSP LPR / GV-LPR1200
- Languages supported: English, French, Hebrew, Japanese, Portuguese, Russian, Serbian, Spanish, Traditional Chinese, Turkish

License Plate Recognition   *January 11, 2019*
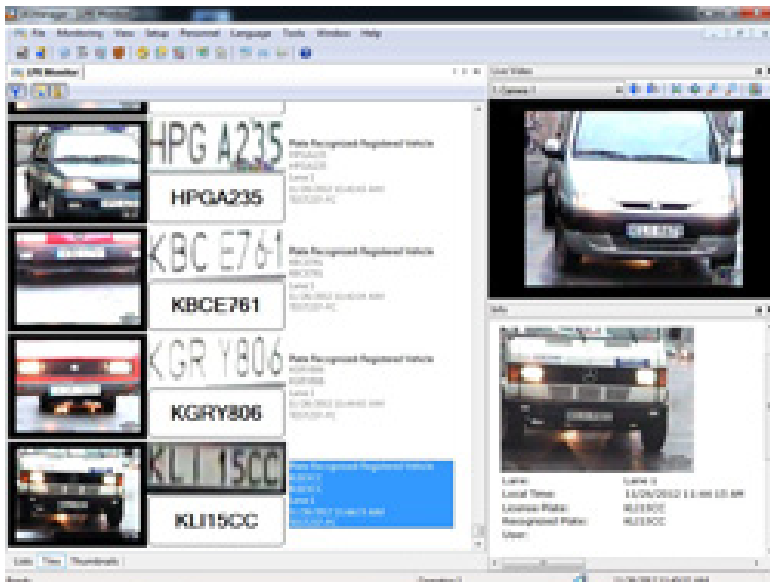
System Requirements

GV-ASManager

The following are minimum system requirements to run GV-ASManager.

No of connected controllers		0-50	51~100	101~1000
OS	32-bit	Windows 7 / 8 / 8.1 / 10		N/A
	64-bit	Windows 7 / 8 / 8.1 / 10/ Server 2012/2012 R2/ 2016		Windows 10 /Server 2012/2012 R2 /2016
CPU		Intel Core i3, 3.4 GHz (2 Cores, 2 Threads)	Intel Core i5, 3.4 GHz (2 Cores, 2 Threads)	Intel Core i7, 3.0 GHz (4 Cores, 8 Threads)
Memory		8 GB		16 GB
Database		MDB or SQL database		SQL database
Hard Disk		500 GB		1 TB
VGA		PCI-Express, 1280 x 1024, 32-bit color and support DirectX 10		
DirectX		End-User Runtimes (November 2008)		
Software		.NET Framework 3.5 SQL Server 2005 Express (optional)		
Browser		Internet Explorer 9.0 or later		

Note: GV-ASManager has ended support for Windows XP and Vista.

GV-DVR LPR

Number of LPR Channels		1-4 Channels	5-8 Channels
OS		64-bit Windows 7 / 8 / 8.1 / 10 / Server 2008 R2 / Server 2012 R2	
CPU	1.3 M	Core i5 2400, 3.1 GHz	Core i7 2600, 3.4 GHz
	2 M	Core i7 4770, 3.4 GHz	Core i7 6700, 3.4 GHz
Memory		2 x 2 GB Dual Channels	
Hard Disk		500 GB	
VGA		PCI-Express, 1280 x 1024 , 32-bit color and support DirectX 10	
DirectX		End-User Runtimes (November 2008)	
GV-DVR / NVR		**GV-ASManager 4.2.1 - 4.2.3:** V8.5.9.0 **GV-ASManager 4.3:** V8.6.0.0 **GV-ASManager 4.3.5 - 4.4:** V8.6.2.0 **GV-ASManager 4.4.1:** V8.6.2.0 or V8.7.0.0 **GV-ASManager 4.4.2:** V8.7.0.0 or V8.7.1.0 **GV-ASManager 4.4.3:** V8.7.1.0 **GV-ASManager 5.0:** V8.7.1.0 **GV-ASManager 5.0.1.0 – 5.0.2.0:** V8.7.3.0 **GV-ASManager 5.0.2.0:** (GV-LPR Plug-in V5.0.1.0) + V8.7.4.0	
Hardware		External or internal GV-LPR Capture Dongle	

Note:

1. It is recommended to use separate PCs for GV-ASManager and GV-DVR LPR.
2. If no LPR dongle is inserted, license plates will be captured but the plate numbers will not be recognized.
3. The above system requirements were determined with a bit rate of 2 Mbits for 1.3 MP resolution and 2 MP resolution.
4. GV-LPR Plug-in needs to be downloaded and installed separately.

GV-VMS LPR (for 32 CH)

Number of LPR Channels		1-4 Channels	5-8 Channels
OS		64-bit Windows 7 / 8 / 8.1 / 10 / Server 2008 R2 / Server 2012 R2	
CPU	1.3 MP	Core i7 3770, 3.4 GHz	Core i7 4770, 3.4 GHz
	2 MP		
Memory		2 x 4 GB Dual Channels	
Hard Disk		500 GB	
VGA		PCI-Express, 1280 x 1024 , 32-bit color and support DirectX 10	
DirectX		End-User Runtimes (November 2008)	
GV-VMS		**GV-ASManager 4.3.5 - 4.4.1:** V15.10 **GV-ASManager 4.4.2:** V15.10 or V15.11 **GV-ASManager 4.4.3:** V15.11.3 **GV-ASManager 5.0:** V16.11.0.0 **GV-ASManager 5.0.1.0:** V16.11.0.0 **GV-ASManager 5.0.2.0:** (GV-LPR Plug-in V5.0.1.0) + V16.11.0.0 **GV-ASManager 5.1.0.0:** (GV-LPR Plug-in V5.1.0.0) + V17.1	
Hardware		External or internal GV-LPR Capture Dongle	

Note:

1. It is recommended to use separate PCs for GV-ASManager and GV-VMS LPR.
2. If no LPR dongle is inserted, license plates will be captured but the plate numbers will not be recognized.
3. The above system requirements were determined with a bit rate of 2 Mbits for 1.3 MP resolution and 2 MP resolution.
4. GV-LPR Plug-in needs to be downloaded and installed separately.

GV-VMS LPR (for 64 CH)

Number of LPR Channels		1-4 Channels	5-8 Channels
OS		64-bit Windows 7 / 8 / 8.1 / 10 / Server 2008 R2 / Server 2012 R2	
CPU	1.3 MP	Core i7 6770, 3.4 GHz (Only 2 Lanes)	N/A
	2 MP	Core i7 6770, 3.4 GHz (Only 1 Lane)	
Memory		2 x 4 GB Dual Channels	
Hard Disk		500 GB	
VGA		PCI-Express, 1280 x 1024 , 32-bit color and support DirectX 10	
DirectX		End-User Runtimes (November 2008)	
GV-VMS		**GV-ASManager 4.3.5 - 4.4.1:** V15.10 **GV-ASManager 4.4.2:** V15.10 or V15.11 **GV-ASManager 4.4.3:** V15.11.3 **GV-ASManager 5.0:** V16.11.0.0 **GV-ASManager 5.0.1.0:** V16.11.0.0 **GV-ASManager 5.0.2.0:** (GV-LPR Plug-in V5.0.1.0) + V16.11.0.0 **GV-ASManager 5.1.0.0:** (GV-LPR Plug-in V5.1.0.0) + V17.1	
Hardware		External or internal GV-LPR Capture Dongle	

Note:

1. It is recommended to use separate PCs for GV-ASManager and GV-VMS LPR.
2. If no LPR dongle is inserted, license plates will be captured but the plate numbers will not be recognized.
3. The above system requirements were determined with a bit rate of 2 Mbits for 1.3 MP resolution and 2 MP resolution.
4. GV-LPR Plug-in needs to be downloaded and installed separately.

Software License

Free License	N/A
Maximum License	8 channels
Increment for Each License	1 channel
Dongle Type	Internal or external
Optional Combinations	1. LPR 2. GV-VMS + LPR (1 to 8 license) 3. GV-NVR + LPR (1 to 8 license) 4. GV-DVR + LPR (1 to 8 license)

GV-DSP LPR and GV-LPR1200

GV-ASManager V4.2.1 – 4.2.2 is only compatible with GV-DSP LPR firmware V2.0.3.

GV-ASManager V4.2.3 is only compatible with GV-DSP LPR firmware V2.0.4.

GV-ASManager V4.3 – 4.3.5 is only compatible with GV-DSP LPR firmware V2.10 and GV-LPR1200 V1.01.

GV-ASManager V4.4 – 4.4.3 is only compatible with GV-DSP LPR firmware V2.20 and GV-LPR1200 V1.1.

GV-ASManager V5.0 – 5.0.2.0 is only compatible with GV-DSP LPR firmware V2.30 and GV-LPR1200 V2.0.

GV-ASManager V5.1.0.0 is only compatible with GV-DSP LPR firmware V2.33 and GV-LPR1200 V2.03.

Options

For GV-DVR LPR and GV-VMS LPR

GV-IO Box Series	GV-IO Box series (4E / 4 Ports / 8 Ports / 16 Ports) provide 4 / 8 / 16 inputs and relay outputs and support both DC and AC output voltages, with optional support for Ethernet module and 4E additionally supporting PoE, TCP/IP and RS-485 connection.
GV-IP LPR Camera 5R	Ideal for parking lot installation, the GV-IP LPR Camera 5R is a 1.3 MP B/W network camera designed for recognition of reflective license plates on vehicles traveling at 60 km/hr (37 mph) or less.
GV-LPC1100	The GV-LPC1100 is a 1.3 MP B/W network camera designed for recognition of reflective license plates on vehicles traveling at 120 km/hr (75 mph) or less.
GV-LPC1200	GV-LPC1200 is a 1 MP B/W network camera designed for recognition of reflective license plates on vehicles traveling at 200 km/h (124.27 mph) or less.
GV-LPR1200	GV-LPR1200 is a 1 MP B/W network camera designed for recognition of reflective license plates on vehicles traveling at 200 km/h (124.27 mph) or less. With a built-in LPR processor, the camera is capable of recognizing the plate numbers and comparing the captured license plates with a database.
GV-LPC2210	GV-LPC2210 is a 2 MP color network camera designed for recognition of reflective license plates on vehicles traveling up at 120 km/h (75 mph) or less.
GV-LPC2211	GV-LPC2211 is a 2 MP color network camera designed for recognition of reflective license plates on vehicles traveling up at 120 km/h (75 mph) or less.
GV-LPC2011	GV-LPC2011 is a 2 MP color network camera designed for recognition of reflective license plates on vehicles traveling up at 60 km/h (37 mph) or less.

For GV-DVR LPR and GV-DSP LPR

GV-LPR Cam 20A ANPR Camera	The GV-LPR CAM 20A provides 570 TVL high-contrast license plate recognition video to GV-DVR LPR or GV-DSP LPR that identifies license plates. The camera features 24 high-efficient LEDs for an illumination range of 15 ~ 25 m (49.21 ~ 82.02 ft).
GV-DSP LPR V3	The GV-DSP LPR is a Linux-based license plate recognition system built in a small box. Integrating with a Web server, the GV-DSP LPR can host its own Web site and compare captured license plates with the database downloaded from GV-AS Manager and open a gate barrier when there is a match.