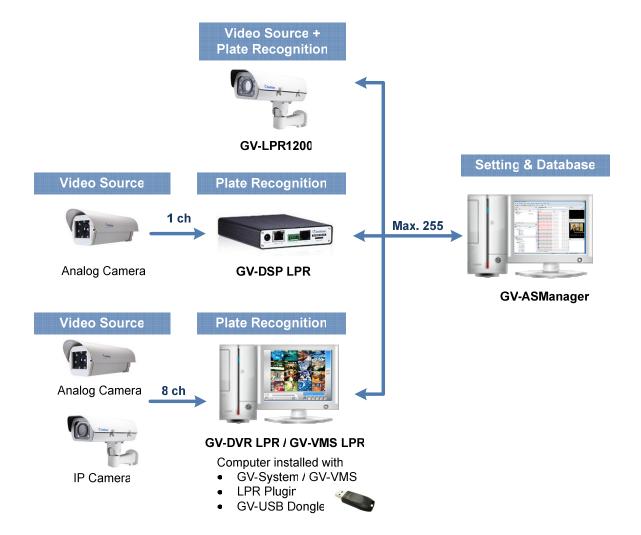


Introduction

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

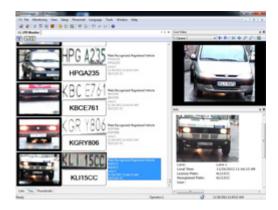
•	Argentina	*	Australia		Austria		Belgium
	Brazil	*	Canada		China	9	Chile
	Columbia	-8-	Croatia		Czech Republic		France
	Germany		Hungary		India		Ireland
	Israel		Italy	*	Morocco		Mexico
+	Norway		Poland	•	Portugal		Qatar
	Russia	0	Slovakia	\gg	South Africa	9	Spain
	Taiwan	N N	UK		USA	*	Vietnam

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
- 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



System Requirements

GV-ASManager

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

000	32-bit	Windows 7 / 8 / 8.1 / 10 / Server 2008
OS	64-bit	Windows 7 / 8 / 8.1 / 10 / Server 2008 R2 / Server 2012 R2
CPU		Core 2 Duo E8400, 3.0 GHz
Memory		2 x 1 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)
Software		.NET Framework 3.5
		SQL Server 2005 Express (optional)
Browser		Internet Explorer 9.0 or later

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

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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		
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.

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 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-ASManager 4.3.5 - 4.4.1: V15.10		
GV-VMS		GV-ASManager 4.4.2: V15.10 or V15.11		
		GV-ASManager 4.4.3: V15.11.3		
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.

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		
СРИ	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)	N/A	
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-ASManager 4.3.5 - 4.4.1: V15.10		
GV-VMS		GV-ASManager 4.4.2: V15.10 or V15.11		
		GV-ASManager 4.4.3: V15.11.3		
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.



Software License

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

GV-DSP LPR and GV-LPR1200

 $\label{eq:GV-ASM} \mbox{GV-ASManager V4.2.1} - 4.2.2 \mbox{ is only compatible with GV-DSP LPR firmware V2.0.3.}$

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.

Options

For GV-DVR LPR and GV-VMS LPR

GV-IO Box	The GV-IO Box provides 4, 8 or 16 inputs and relay outputs. It supports both DC and AC output voltages, and provides a USB port for PC 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 10A ANPR Camera	The GV-LPR CAM 10A provides 570 TVL high-contrast license plate recognition video to GV-DVR LPR or GV-DSP LPR that identifies license plates. The camera features 7 high-efficient LEDs for an illumination range of $7 \sim 12$ m (22.96 ~ 39.37 ft).
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 $^{\sim}$ 25 m (49.21 $^{\sim}$ 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.

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