

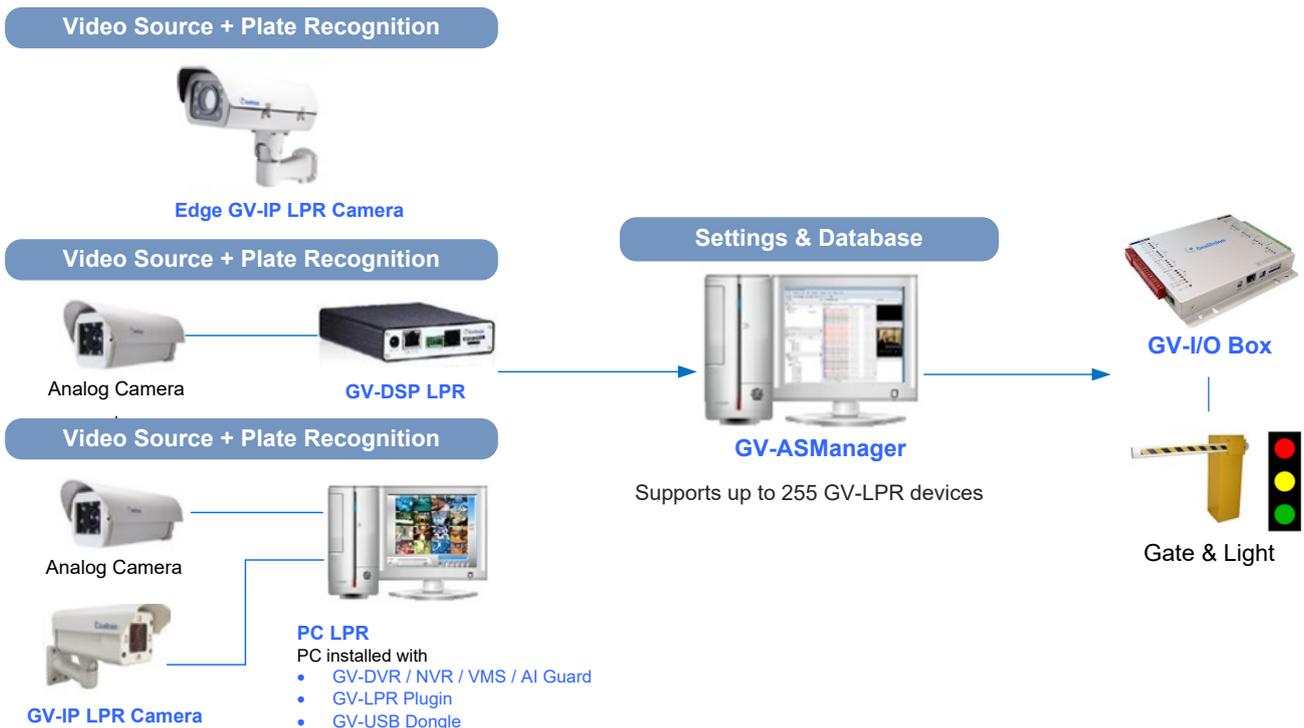
License Plate Recognition



Introduction

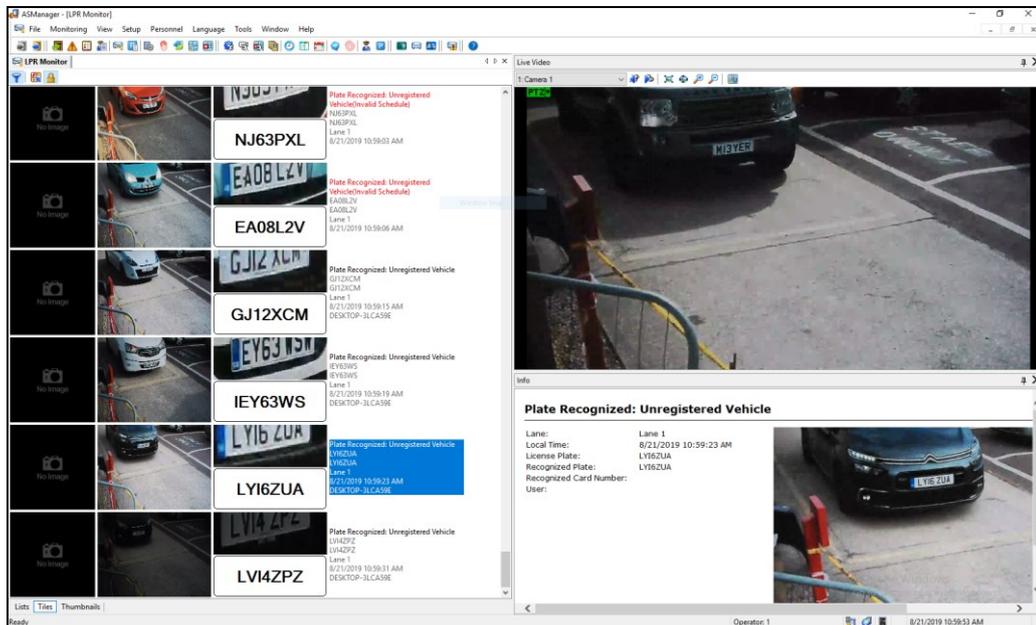
GeoVision's License Plate Recognition is an efficient and low-maintenance solution for safeguarding parking lots that are susceptible to criminal activity due to unattended corners. In response to a motion or I/O trigger, the LPR solution not only provides high-resolution video surveillance, but also detects and recognizes license plates.

The GV-ASManager access control system receives the results of license plate recognition from a GV LPR device, such as an Edge GV-IP LPR Camera, GV-DSP LPR, or PC-based GV-NVR LPR / VMS LPR. Before access can be granted, detected license plate numbers must match those on file in the GV-ASManager database. When an LPR event occurs, you can see the recorded video and get alerted via emails or push notifications.



Features

- Up to 255 units of GV-DSP LPR, Edge GV-IP LPR Camera, and PC-based GV-NVR / VMS LPR
- Up to 8 recognition channels per GV-NVR / VMS LPR
- Up to 100,000 vehicle data supported
- Up to 100 Web browser connections supported
- Multiple vehicles assigned to a single user
- Import / export of vehicle data in Access or Excel file format
- Vehicle hotlist to identify stolen vehicles or vehicles of interest
- Parking lot management to regulate vehicle access, parking space availability, parking duration, anti-passback, and shared parking
- Various notifications upon LPR events: e-mail, alarm, trigger recording, push notification, popup message
- GV-ASWeb to remotely access LPR settings and logs
- GV-Access mobile app to remotely monitor the alert status of each lane, open parking gates, and access live view
- User Interfaces supported in Czech, English, French, Hebrew, Italian, Japanese, Persian, Polish, Portuguese, Russian, Serbian, Spanish, Traditional Chinese, Turkish, and Ukrainian
- DL (Deep Learning) engines supported for license plate recognition in Colombia, Czech, Europe, France, Germany, Hungary, Lithuania, Israel, Italy, Malaysia, Myanmar, Netherlands, Romania, Slovakia, Taiwan, UK, Ukraine, USA (California, Georgia), and Vietnam



Minimum 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	64-bit Windows 10 / Windows 11 / Server 2016 / Server 2019 / Server 2022		
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 Microsoft SQL database		Microsoft 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 4.5 Microsoft SQL Server 2005 Express (optional)		
Browser	Internet Explorer 9.0 or later		

Find the following **software with GV-LPR Plugin combinations** for different system requirements.

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1. GV-NVR / VMS V17 & V18 / AI Guard LPR (Machine Learning)

Number of LPR Channels		1-4 Channels	5-8 Channels
OS		64-bit Windows 10 / Windows 11 / Server 2016 / Server 2019 / Server 2022	
		*Windows 11 is only supported by GV-VMS LPR.	
CPU	1.3 M	Intel Core i5 2400, 3.1 GHz	Intel Core i7 2600, 3.4 GHz
	2 M	Intel Core i7 4770, 3.4 GHz	Intel Core i7 6700, 3.4 GHz
Memory		2 x 2 GB Dual Channels	
Hard Disk		500 GB	
Processor Graphics		PCI-Express, 1280 x 1024, 32-bit color and support DirectX 10	
DirectX		End-User Runtimes (November 2008)	
Hardware		External or internal GV-LPR Capture Dongle	
GV-NVR / VMS		See the <i>Compatibility between GV-NVR / VMS and GV-LPR Plugin (Machine Learning)</i> table below	

IMPORTANT: PCs with Core Ultra Series 2 processors are currently not recommended due to compatibility concerns.

Note:

- It is recommended to use separate PCs for GV-ASManager and GV-NVR / VMS / AI Guard LPR.
- If no LPR dongle is inserted, license plates will be captured but the plate numbers will not be recognized.
- [GV-LPR Plugin](#) needs to be downloaded and installed separately. It is not supported on AMD-based PCs.
- ML engines only support videos of up to 2 MP, and recognition requires license plate images to have a min. height of 40 pixels.
- GV-NVR LPR does not support Authentication Schedule and Card Mode functions.
- The above system requirements were determined with a bit rate of 2 Mbps for 1.3 MP and 2 MP resolutions.

2. GV-NVR V17 & V18 / VMS / AI Guard LPR (Machine Learning) + 32CH 2MP Camera Monitoring

Number of LPR Channels		1-4 Channels	5-8 Channels
OS		64-bit Windows 10 / Windows 11 / Server 2016 / Server 2019 / Server 2022 *Windows 11 is only supported by GV-VMS LPR.	
CPU	1.3 MP	Intel Core i7 3770, 3.4 GHz	Intel Core i7 4770, 3.4 GHz
	2 MP		
Memory		2 x 4 GB Dual Channels	
Hard Disk		500 GB	
Processor Graphics		PCI-Express, 1280 x 1024, 32-bit color and support DirectX 10	
DirectX		End-User Runtimes (November 2008)	
Hardware		External or internal GV-LPR Capture Dongle	
GV-NVR / VMS		See the <i>Compatibility between GV-NVR / VMS and GV-LPR Plugin (Machine Learning)</i> table below	

IMPORTANT: PCs with Core Ultra Series 2 processors are currently not recommended due to compatibility concerns.

Note

1. It is recommended to use separate PCs for GV-ASManager and GV-NVR / VMS / AI Guard LPR.
2. If no LPR dongle is inserted, license plates will be captured but the plate numbers will not be recognized.
3. [GV-LPR Plugin](#) needs to be downloaded and installed separately. It is not supported on AMD-based PCs.
4. ML engines only support videos of up to 2 MP, and recognition requires license plate images to have a min. height of 40 pixels.
5. GV-NVR LPR does not support Authentication Schedule and Card Mode functions.
6. The above system requirements were determined with a bit rate of 2 Mbps for 1.3 MP and 2 MP resolutions.

3. GV-VMS V17 & V18 / AI Guard LPR (Machine Learning) + 64CH 2MP Camera Monitoring

Number of LPR Channels		1-4 Channels (only up to 4 LPR channels are supported)
OS		64-bit Windows 10 / Windows 11 / Server 2016 / Server 2019 / Server 2022
CPU	1.3 MP	Intel Core i7 6770, 3.4 GHz
	2 MP	
Memory		2 x 4 GB Dual Channels
Hard Disk		500 GB
Processor Graphics		PCI-Express, 1280 x 1024, 32-bit color and support DirectX 10
DirectX		End-User Runtimes (November 2008)
Hardware		External or internal GV-LPR Capture Dongle
GV-VMS		See the <i>Compatibility between GV-NVR / VMS and GV-LPR Plugin (Machine Learning)</i> table below (*only GV-VMS is supported)

IMPORTANT: PCs with Core Ultra Series 2 processors are currently not recommended due to compatibility concerns.

Note:

1. It is recommended to use separate PCs for GV-ASManager and GV-VMS / AI Guard LPR.
2. If no LPR dongle is inserted, license plates will be captured but the plate numbers will not be recognized.
3. [GV-LPR Plugin](#) needs to be downloaded and installed separately. It is not supported on AMD-based PCs.
4. ML engines only support videos of up to 2 MP, and recognition requires license plate images to have a min. height of 40 pixels.
5. The above system requirements were determined with a bit rate of 2 Mbps for 1.3 MP and 2 MP resolutions.

4. GV-NVR / VMS V17 & V18 / AI Guard LPR (Deep Learning)

Number of LPR Channels		1-4 Channels	5-8 Channels
OS		64-bit Windows 10 (version 1909 or later) / Windows 11 (version 21H2) / Server 2019 (version 1909 or later) / Server 2022 (version 21H2) *Windows 11 is only supported by GV-VMS LPR	
CPU	1.3 MP	Intel Core i5 7600, 4.1 GHz	Intel Core i7 7700, 4.2 GHz
	2 MP		
Memory		2 x 8 GB Dual Channels	
Hard Disk		500 GB	
Processor Graphics		Intel UHD Graphics or HD Graphics 630 Driver date: 2019/09/25 or later Driver version: 26.2.100.7262 or later	
Hardware		External or internal GV-LPR Capture Dongle	
GV-NVR / VMS		See the <i>Compatibility between GV-NVR / VMS / AI Guard and GV-LPR Plugin (Deep Learning)</i> table below	

IMPORTANT: PCs with Core Ultra Series 2 processors are currently not recommended due to compatibility concerns.

Note:

- It is recommended to use separate PCs for GV-ASManager and GV-NVR / VMS / AI Guard LPR.
- The utilization of the graphics processor of 7th-gen Intel Core i5 / i7 or above is required, which only works when a monitor is connected to its PC, and only Intel Core processors are compatible. Other brands of CPU do not work with DL engines.
- To use DL engines, of GV-LPR Plugin, an additional GV-LPR Deep Learning dongle license is required.
- DL engines support H.264 and H.265 video codecs with 1 MP to 4 MP images. Recognition requires license plate images to have a min. height of 40 pixels for 1 to 2 MP, 60 pixels for 3 MP, and 80 pixels for 4 MP. See the user's manual for image pixel adjustment for resolutions greater than 2 MP.
- [GV-LPR Plugin](#) needs to be downloaded and installed separately. It is not supported on AMD-based PCs.
- DL engines do not support the recognition of two-line plates.
- The above system requirements were determined with a bit rate of 2 Mbps for 1.3 MP and 2 MP resolutions.
- For regions not previously trained, submit 30,000 images to HQ for training. For details, see Step 4 in the [technical notice](#).

5. GV-NVR / VMS V17 & V18 / AI Guard LPR (Deep Learning) + 32CH 2MP Camera Monitoring

Number of LPR Channels		1-8 Channels
OS		64-bit Windows 10 / Windows 11 / Server 2016 / Server 2019 / Server 2022 *GV-NVR only supports Windows 10 / Server 2016.
CPU	1.3 MP	Intel Core i7 8700, 4.6 GHz
	2 MP	
Memory		2 x 8 GB Dual Channels
Hard Disk		500 GB
Processor Graphics		Intel UHD Graphics or HD Graphics 630 Driver date: 2019/09/25 or later Driver version: 26.2.100.7262 or later
Hardware		External or internal GV-LPR Capture Dongle
GV-NVR / VMS		See the <i>Compatibility between GV-NVR / VMS / AI Guard and GV-LPR Plugin (Deep Learning)</i> table below

IMPORTANT: PCs with Core Ultra Series 2 processors are currently not recommended due to compatibility concerns.

Note:

- It is recommended to use separate PCs for GV-ASManager and GV-NVR / VMS / AI Guard LPR.
- The utilization of the graphics processor of 7th-gen Intel Core i5 / i7 or above is required, which only works when a monitor is connected to its PC, and only Intel Core processors are compatible. Other brands of CPU do not work with DL engines.
- To use DL engines, of GV-LPR Plugin, an additional GV-LPR Deep Learning dongle license is required.
- DL engines support H.264 and H.265 video codecs with 1 MP to 4 MP images. Recognition requires license plate images to have a min. height of 40 pixels for 1 to 2 MP, 60 pixels for 3 MP, and 80 pixels for 4 MP. See the user's manual for image pixel adjustment for resolutions greater than 2 MP.
- [GV-LPR Plugin](#) needs to be downloaded and installed separately. It is not supported on AMD-based PCs.
- DL engines do not support the recognition of two-line plates.
- The above system requirements were determined with a bit rate of 2 Mbps for 1.3 MP and 2 MP resolutions.
- For regions not previously trained, submit 30,000 images to HQ for training. For details, see Step 4 in the [technical notice](#).

6. GV-VMS V17 & V18 / AI Guard LPR (Deep Learning) + 64CH 2MP Camera Monitoring

Number of LPR Channels	1-4 Channels	
OS	64-bit Windows 10 / Windows 11 / Server 2016 / Server 2019 / Server 2022	
CPU	1.3 MP	Intel Core i7 9700, 4.7 GHz
	2 MP	
Memory	2 x 8 GB Dual Channels	
Hard Disk	500 GB	
Processor Graphics	Intel UHD Graphics or HD Graphics 630 Driver date: 2019/09/25 or later Driver version: 26.2.100.7262 or later	
Hardware	External or internal GV-LPR Capture Dongle	
GV-VMS	See the <i>Compatibility between GV-NVR / VMS / AI Guard and GV-LPR Plugin (Deep Learning)</i> table below (*only GV-VMS is supported)	

IMPORTANT: PCs with Core Ultra Series 2 processors are currently not recommended due to compatibility concerns.

Note:

1. It is recommended to use separate PCs for GV-ASManager and GV-VMS / AI Guard LPR.
2. The utilization of the graphics processor of 7th-gen Intel Core i5 / i7 or above is required, which only works when a monitor is connected to its PC, and only Intel Core processors are compatible. Other brands of CPU do not work with DL engines.
3. To use DL engines, of GV-LPR Plugin, an additional GV-LPR Deep Learning dongle license is required.
4. DL engines support H.264 and H.265 video codecs with 1 MP to 4 MP images. Recognition requires license plate images to have a min. height of 40 pixels for 1 to 2 MP, 60 pixels for 3 MP, and 80 pixels for 4 MP. See the user's manual for image pixel adjustment for resolutions greater than 2 MP.
5. [GV-LPR Plugin](#) needs to be downloaded and installed separately. It is not supported on AMD-based PCs.
6. DL engines do not support the recognition of two-line plates.
7. The above system requirements were determined with a bit rate of 2 Mbps for 1.3 MP and 2 MP resolutions.
8. For regions not previously trained, submit 30,000 images to HQ for training. For details, see Step 4 in the [technical notice](#).

7. GV-VMS V20 LPR (Deep Learning) + 64CH 2MP Camera Monitoring

Number of LPR Channels	1-4 Channels		5-8 Channels	
OS	64-bit Windows 10 / 11 / Server 2016 / Server 2019 / Server 2022			
CPU	2 MP	11 th Gen Intel Core i7-11700, 2.5 GHz	14 th Gen Intel Core i7-14700, 2.1 GHz	
		Memory	16 GB	32 GB
Hard Disk	SSD, ≥150 GB free space			
Processor Graphics	Intel UHD Graphics 750 Driver date: 2021/07/23 or later Driver version: 30.0.100.9805 or later		Intel UHD Graphics 770 Driver date: 2024/10/03 or later Driver version: 32.0.101.6083 or later	
Hardware	External or internal GV-LPR Capture Dongle			
GV-VMS	See the <i>Compatibility between GV-NVR / VMS / AI Guard and GV-LPR Plugin (Deep Learning)</i> table below (*only GV-VMS is supported)			

IMPORTANT: PCs with Core Ultra Series 2 processors are currently not recommended due to compatibility concerns.

Note:

1. It is recommended to use separate PCs for GV-ASManager and GV-VMS LPR.
2. The utilization of the graphics processor of 11th or 14th-gen Intel Core i7 or above is required, which only works when a monitor is connected to its PC, and only Intel Core processors are compatible. Other brands of CPU do not work with DL engines.
3. To use DL engines, of GV-LPR Plugin, an additional GV-LPR Deep Learning dongle license is required.
4. DL engines support H.264 and H.265 video codecs with 1 MP to 4 MP images. Recognition requires license plate images to have a min. height of 40 pixels for 1 to 2 MP, 60 pixels for 3 MP, and 80 pixels for 4 MP. See the user's manual for image pixel adjustment for resolutions greater than 2 MP.
5. [GV-LPR Plugin](#) needs to be downloaded and installed separately. It is not supported on AMD-based PCs.
6. **GV-VMS V20 requires GV-LPR Plugin V6.1.2 x64 version.**
7. DL engines do not support the recognition of two-line plates.
8. The above system requirements were determined with a bit rate of 2 Mbps for 1.3 MP and 2 MP resolutions.
9. For regions not previously trained, submit 30,000 images to HQ for training. For details, see Step 4 in the [technical notice](#).

License

Free License	N/A
Maximum License	8 channels
Increment for Each License	1 channel
Dongle Type	Internal or external
Optional Combinations	<ol style="list-style-type: none"> 1. LPR 2. GV-VMS + LPR (1 to 8 licenses) 3. GV-NVR + LPR (1 to 8 licenses)

Note: LPR dongles can be used in conjunction with GV-VMS Software Licenses.

Compatibility between GV-NVR / VMS / AI Guard and GV-LPR Plugin (Machine Learning)

GV-NVR	GV-ASManager 5.1.1: (GV-LPR Plugin V5.1.4.A) + V8.8.0 GV-ASManager 5.2.0: (GV-LPR Plugin V5.3.0) + V8.8.0 GV-ASManager 5.3.0 – 5.3.1: (GV-LPR Plugin V5.3.1) + V8.8.0 GV-ASManager V5.3.2: (GV-LPR Plugin V5.3.2) + V8.9.1 GV-ASManager V5.3.2 – V5.3.3: (GV-LPR Plugin V5.3.2 – V5.3.3) + V8.9.1 GV-ASManager V5.3.4: (GV-LPR Plugin V5.3.4) + V8.9.1 GV-ASManager V6.0.0: (GV-LPR Plugin V6.0.0) + V8.9.1 GV-ASManager V6.0.2: (GV-LPR Plugin V6.0.2) + V8.9.1 GV-ASManager V6.1.0: (GV-LPR Plugin V6.1.0) + V8.9.1A
GV-VMS V17 & V18	GV-ASManager 5.1.1: (GV-LPR Plugin V5.1.2) + V17.1.0 GV-ASManager 5.2.0: (GV-LPR Plugin V5.3.0) + V17.3.0 GV-ASManager V5.3.2 – V5.3.3: (GV-LPR Plugin V5.3.2 – V5.3.3) + V17.4.1 / V18.2.1 GV-ASManager V5.3.4: (GV-LPR Plugin V5.3.4) + V17.4.3 / V18.2.1 GV-ASManager V6.0.0: (GV-LPR Plugin V6.0.0) + V17.4.3 / V18.2.1 GV-ASManager V6.0.2: (GV-LPR Plugin V6.0.2) + V17.4.7 / V18.3.2 GV-ASManager V6.1.0 – V6.1.1: (GV-LPR Plugin V6.1.0) + V17.4.8 / V18.3.4 GV-ASManager V6.1.2 – V6.2.0: (GV-LPR Plugin V6.1.2) + V17.4.8 / V18.3.5
GV-AI Guard	GV-ASManager V6.0.2: (GV-LPR Plugin V6.0.2) + V2.0 GV-ASManager V6.1.0 – V6.1.1: (GV-LPR Plugin V6.1.0) + V2.0 GV-ASManager V6.1.2 – V6.2.0: (GV-LPR Plugin V6.1.2) + V2.1

Compatibility between GV-NVR / VMS / AI Guard and GV-LPR Plugin (Deep Learning)

GV-NVR	GV-ASManager 5.3.0 – 5.3.1: (GV-LPR Plugin V5.3.1) + V8.8.0 GV-ASManager V5.3.2 – V5.3.3: (GV-LPR Plugin V5.3.2 – V5.3.3) + V8.9.1 GV-ASManager V5.3.4: (GV-LPR Plugin V5.3.4) + V8.9.1 GV-ASManager V6.0.0: (GV-LPR Plugin V6.0.0) + V8.9.1 GV-ASManager V6.0.2: (GV-LPR Plugin V6.0.2) + V8.9.1 GV-ASManager V6.1.0: (GV-LPR Plugin V6.1.0) + V8.9.1A
GV-VMS V17 & V18	GV-ASManager 5.3.0 – 5.3.1: (GV-LPR Plugin V5.3.1) + V17.3.0 / V18.1.1 GV-ASManager V5.3.2 – V5.3.3: (GV-LPR Plugin V5.3.2 – V5.3.3) + V17.4.1 / V18.2.1 GV-ASManager V5.3.4: (GV-LPR Plugin V5.3.4) + V17.4.3 / V18.2.1 GV-ASManager V6.0.0: (GV-LPR Plugin V6.0.0) + V17.4.3 / V18.2.1 GV-ASManager V6.0.2: (GV-LPR Plugin V6.0.2) + V17.4.7 / V18.3.2 GV-ASManager V6.1.0 – V6.1.1: (GV-LPR Plugin V6.1.0) + V17.4.8 / V18.3.4 GV-ASManager V6.1.2 – V6.2.0: (GV-LPR Plugin V6.1.2) + V17.4.8 / V18.3.5
GV-VMS V20	GV-ASManager V6.2.0: (GV-LPR Plugin V6.1.2 x64) + V20
GV-AI Guard	GV-ASManager V6.0.2: (GV-LPR Plugin V6.0.2) + V2.0 GV-ASManager V6.1.0 – V6.1.1: (GV-LPR Plugin V6.1.0) + V2.0 GV-ASManager V6.1.2 – V6.2.0: (GV-LPR Plugin V6.1.2) + V2.1

GV-DSP LPR and GV-LPR1200 Compatible Versions

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 – 5.3.3 is only compatible with GV-DSP LPR firmware V2.33 and GV-LPR1200 V2.03.

Machine Learning (ML) Recognition Engines for PC-based LPR

	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

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

Deep Learning (DL) Recognition Engines for PC-based LPR

	Colombia		Czech		Europe		France
	Germany		Hungary		Lithuania		Israel
	Italy		Malaysia		Myanmar		Netherlands
	Romania		Slovakia		Taiwan		UK
	Ukraine		USA - California		USA - Georgia		Vietnam

Note: The DL recognition engines are only supported by GV-LPR Plugin V5.3.1 or later.

Options

Optional Devices	Descriptions
GV-IO Box Series	GV-IO Box series provides 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 connection.
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-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.
GV-LPR2800-DL	GV-LPR2800-DL is a deep learning, varifocal, 2 MP color network camera designed for recognition of non-reflective license plates on vehicles traveling at up to 100 km/h (62 mph).
GV-LPR2812-DL	GV-LPR2812-DL is a deep learning, motorized, 2 MP color network camera designed for recognition of non-reflective license plates on vehicles traveling at up to 100 km/h (62 mph).