GV-LPR2812-DL AI 2MP H.265 10x Zoom Super Low Lux WDR Pro LPR IR Bullet IP Camera

- Built-in deep learning LPR processor for license plate recognition
- Dual-lane recognition
- 1/2.8” progressive scan super low lux CMOS
- Min. illumination at 0.04 lux
- Third streams from H.265, H.264 and MJPEG
- Up to 30 fps at 1920 x 1080
- Motorized varifocal lens for remote zoom / focus adjustment
- Intelligent IR
- IR distance up to 22 m (70 ft)
- Day and Night function (with removal IR-cut filter)
- Wide Dynamic Range Pro (WDR Pro)
- DC 12V / PoE (IEEE 802.3af)
- Ingress protection (IP67)
- Vandal resistance (IK10 for metal casing)
- One-way audio capable
- Built-in microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) for local storage
- Digital I/O (1 in / 1 out)
- Recognize vehicles with speeds up to 100 km/h (62 mph)
- Standalone database
- Log Export
- LPR results overlaid on recognition images
- Motion detection
- Privacy mask
- IP address filtering
- CE, FCC, LVD, RoHS, UKCA compliant

Introduction

GV-LPR2812-DL is equipped with a built-in deep learning LPR processor capable of recognizing license plate numbers. It can compare captured license plates against its on-device **standalone database**, the database stored in the **GV-ASManager access control system**, or the **GV-Cloud Access Control platform**. When a match is found, the GV-LPR2812-DL can grant vehicle access by triggering a gate or barrier to open.

GV-LPR2812-DL is a 2 MP, 10x zoom color network camera designed to recognize non-reflective and reflective license plates on vehicles traveling at up to 100 km/h (62 mph). Thanks to its motorized lens and intelligent IR, the camera’s zoom and focus can be adjusted remotely, and its shutter speed automatically adapts to the scene to capture clear license plate images in low-light conditions. It complies with IP67 and IK10 standards and can withstand temperatures ranging from -20°C (-4°F) to 55°C (131°F) .

Video Source

Plate Recognition

GV-LPR2812-DL

Database and Monitoring Options

GV-ASManager

or

Cloud-based GV-Cloud Access Control

Specifications

Camera		
Image Sensor		1/2.8” progressive scan super low lux CMOS
Minimum Illumination	Color	0.04 Lux (F1.6 AGC ON)
	B/W	0.02 Lux (F1.6 AGC ON)
Picture Elements		1920 (H) x 1080 (V)
Shutter Speed		Auto / Manual (1/30 ~ 1/32,000 sec.)
White Balance		Auto / Manual (2000 K ~ 10000 K)
S/N Ratio		45 dB
WDR		Yes
Dynamic Range		90 dB
Max. Speed		100 km/h (62 mph)
Lens		
Megapixel		2 MP
Day/Night		Yes (with removable IR-cut filter)
Lens Type		Motorized Varifocal
Focal Length		5.1 ~ 51 mm
Horizontal FOV		55.2° (W) ~ 7.1°(T)
Maximum Aperture		F/1.6
Operation	Focus	Auto / Manual
	Zoom	10x Optical Zoom; 5x Digital Zoom
	Iris	Auto / Manual
IR LED Quantity		4 IR LEDs
IR Distance		22 m (70 ft)
Operation		
Video Compression		H.265, H.264, MJPEG
Video Stream		Triple streams from H.265, H.264 and MJPEG
Frame Rate		50Hz: 25 fps at 1920 x 1080, 26 ~ 50 fps at 1920 x 1080 WDR Off 60Hz: 30 fps at 1920 x 1080 (default), 31 ~ 60 fps at 1920 x 1080 WDR Off * The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes)
Maximum stream		5 connections
Image Setting		Brightness, Contrast, Saturation, Sharpness, Gamma, White Balance, Flicker-less, Image Orientation (0°, 90°, 180°, 270°), Shutter Speed, Backlight Compensation, AE Sensitivity, Denoise, Metering, 3D Noise Reduction
Audio Compression		G.711U / G.711A
Audio Support		One-way audio (external microphone required)

Digital I/O	Input	1 Input (TTL, +3 – 5V DC)
	Output	1 Relay Output (40V DC, 300 mW / 300 mA)
Video Resolution		
Main Stream	4:3	1280 x 960, 1024 x768, 800x 600, 640 x 480, 480 x 360
	5:4	1280 X 1024, 720 x 576
	16:9	1920 x 1080, 1280 x 720, 640 X 360
Sub Stream	4:3	1280 x 960, 1024 x768, 800x 600, 640 x 480, 480 x 360
	5:4	1280 X 1024, 720 x 576
	16:9	1920 x 1080, 1280 x 720, 640 X 360
Third Stream (Closed by default)	4:3	1280 x 960, 1024 x768, 800x 600, 640 x 480, 480 x 360
	5:4	1280 X 1024, 720 x 576
	16:9	1920 x 1080, 1280 x 720, 640 X 360
Network		
Interface		10/100 Mbps Base-T, RJ-45
Protocol		802.1x, DHCP, DNS, FTP, FTPS, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, Multicast, NTP, RTCP, RTP, RTSPS, RTSP, SNMP, SFTP, SSL, TLS, TCP/IP, UDP
Security Feature		- A new ID and password are required for the first-time login - 802.1x authentication - HTTPS with SSL certificate stored within the camera
Mechanical		
Connector	Power	DC Jack
	Ethernet	Ethernet (10/100Base-T), RJ-45 cable
	Audio	1 In (Audio in wire, Mono, 1.98 Vp-p, 2.2KΩ) * 1 Out (Audio out wire) not functional
	Digital I/O	I/O Wires (1 In / 1 Out)
	RS-485	RS-485+ / RS-485- (for recognition data output)
	Local Storage	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10), 64 GB * UHS-II card types are not supported.
LPR		
Min Height of License Plate Images		40 pixels
Region of License Plate		Brazil, California (USA), Colombia, Czech, European Union, Filipino, France, Georgia (USA), Germany, Germany Border, Hungary, Israel, Italy, Latvia, Lithuania, Malaysia, Myanmar, Netherlands, Romania, Slovakia, Taiwan, Ukraine, United Kingdom, Vietnam
Snapshot		Approximately 200,000 snapshots may be stored based on the complexity of the detection environment.
General		
Operating Temperature	Startup	-20 °C ~ 55 °C (-4 °F ~ 131 °F)
	Operation	-20 °C ~ 55 °C (-4 °F ~ 131 °F)
Humidity		20% ~ 90% (non-condensing)
Power Source		DC 12V, 1.08A / PoE (48V, 0.27A, IEEE 802.3af)
Max. Power Consumption		13 W
Dimensions		Ø 86 mm x 191 mm (Ø 3.4” x 7.5”)
Weight		0.55 kg (1.22 lb)
Ingress Protection		IP67
Vandal Resistance		IK10 for metal casing
Certification		CE, FCC, RoHS, UKCA compliant
Web Interface		
Installation & Management		Web-based configuration
Firmware Upgrade		Firmware upgrade through Web Browser or Utility
Access from Web Browser		Live View, Video Recording, Change Video Quality, Image Snapshot, Audio, Picture in Picture, Privacy Mask, Text Overlay, Digital PTZ
Language		English, Traditional Chinese
Applications		
Live Viewing		Browser (Chrome)

LPR Management	GV-ASManager V6.1.2 or later, GV-Cloud Access Control
Software Supported	GV-VMS (V17.4.8 / V18.3.5 with patch or later / V20.0.0 or later), GV-IP Device Utility (V9.0.4 or later)

Note:

1. For regions not previously trained, submit 30,000 images to HQ for training. For details, see Step 4 in the technical notice.
2. Specifications are subject to change without notice.

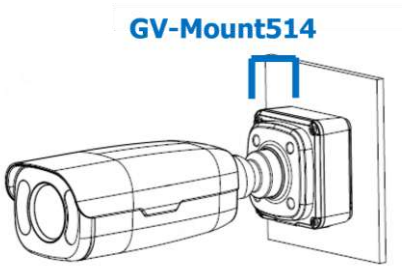
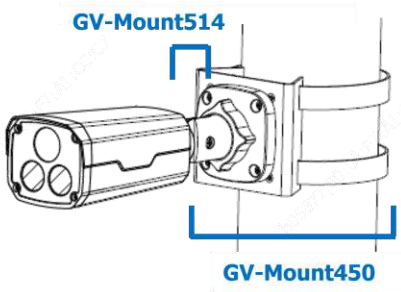
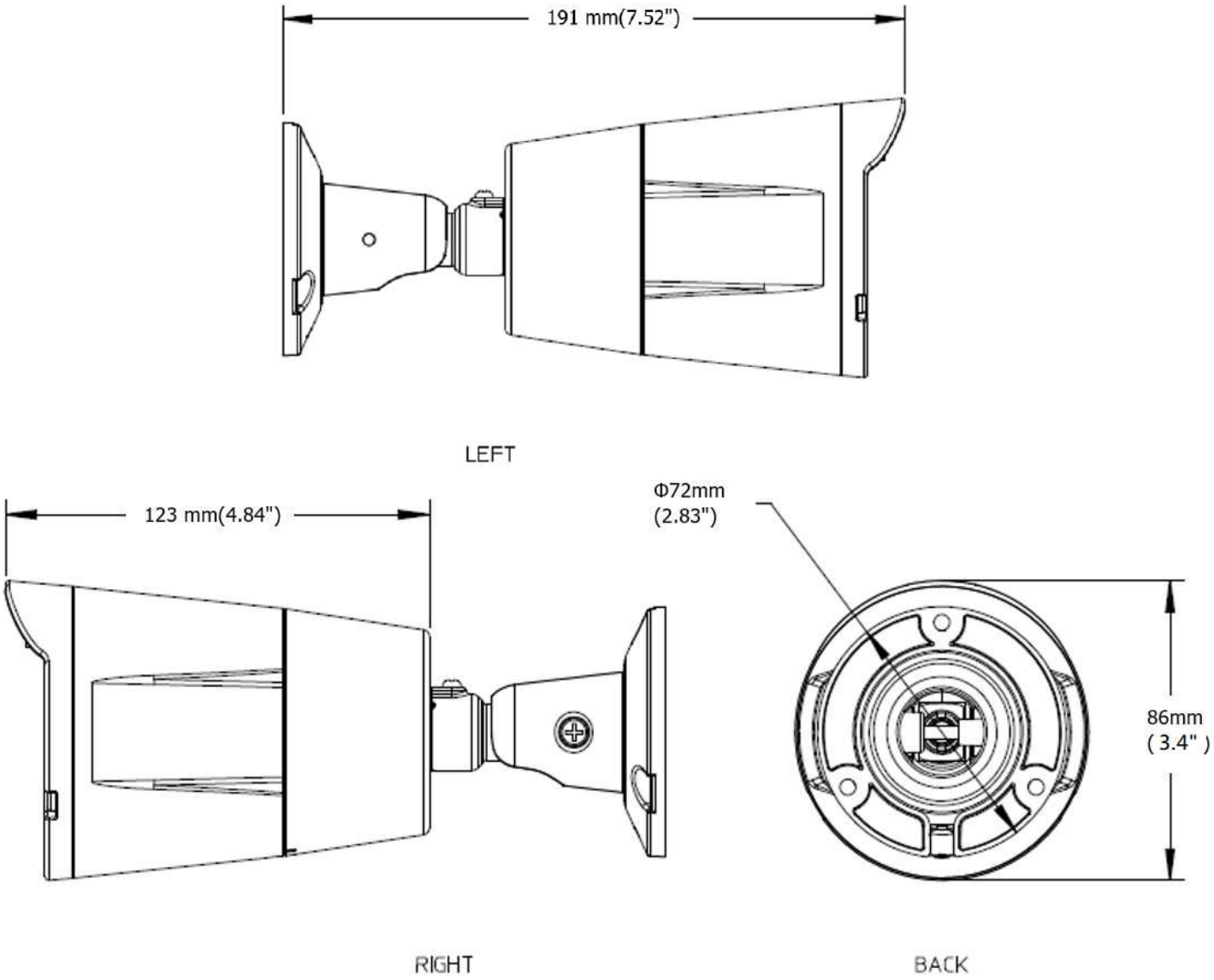
Accessory

Model No.	Name		Details
GV-Mount450 (must be used with GV-Mount514)	Pole Mount		Dimensions: 125 x 165 x 30 mm (4.92” x 6.50” x 1.18”) Weight: 0.7 kg (1.54 lb) Steel strap Diameter: Ø 130 ~ 165 mm (Ø 5.12” ~ 6.5”)
GV-Mount514	Junction Box		Dimensions: 132.3 x 132.3 x 51.5 mm (5.21” x 5.21” x 2.03”) Weight: 0.4 kg (0.9 lb)
GV-PA191	PoE Adapter		GV-PA191 is a PoE adapter.
GV-PA301	Gigabit PoE Adapter		GV-PA301 is a Gigabit Power over Ethernet (PoE) adapter.
GV-POE Switch			GV-POE Switch is designed to provide power along with network connection for IP devices. GV-POE Switch is available in various models with different numbers and types of ports.
GV-Relay V2			GV-Relay V2 is designed to expand the voltage load of GV-IP devices. It provides 4 relay outputs, and each can be set as normally open (NO) or normally closed (NC) independently as desired.
Power Adapter			Contact our sales representatives for the countries and areas supported.

Packing List

- GV-LPR2812-DL Camera
- Drilling Sticker
- Screw Kit
- Waterproof Rubber Set
- 64 GB microSD Card (already formatted and inserted)
- Download Guide

Mounting Type

Junction Box Mount	Junction Box Mount with Pole Mount
GV-Mount514	**GV-Mount514 + GV-Mount450**
	

Dimensions