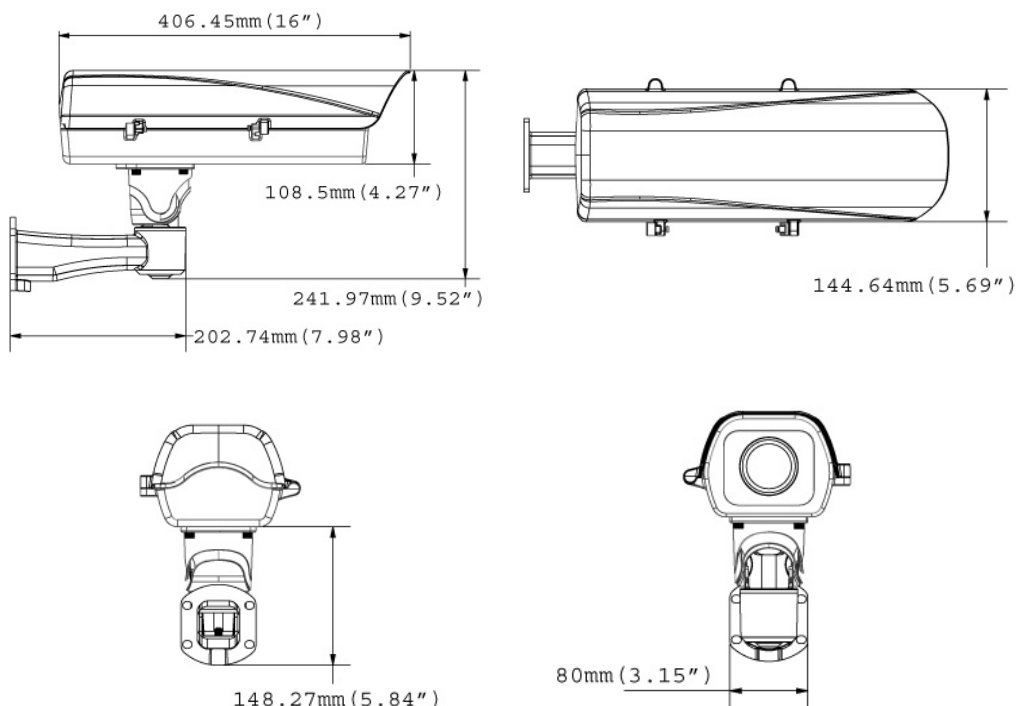# GV-LPC1100 1.3 MP B/W Network Camera

- 1.3 megapixel B/W progressive scan CMOS
- Motorized varifocal lens for remote focus / zoom adjustment
- Dual streams from MJPEG or H.264
- Up to 30 fps at 1280 x 1024
- Maximum speed 120 km/h (75 mph)
- Recognition for reflective License Plate only
- Vandal resistance (IK10 for metal casing)
- Ingress protection (IP67)
- Maximum IR distance 10 m (32.8 ft)
- DC 48V, AC 24V, High PoE (PoE++, 120 W)
- Built-in heater and fan
- Support for TV-out
- Two-way audio
- Support for I/O (1 in / 1 out)
- Defog
- Motion detection
- Privacy mask
- Text Overlay
- IP address filtering
- Supports iPhone, iPad, Android & 3GPP
- ONVIF (Profile S) conformant
- 31 languages on Web interface

INTRODUCTION

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. With its multiple LEDs and intelligent IR, the camera is able to automatically adjust its shutter speed to the scene and produce clear license plate capture for one lane under low-light conditions. The motorized varifocal lens take the advantage of its motorized focus / zoom in that the user can remotely adjust the focus and zoom through the Web interface. It is weather proof (IP67) and also able to work in environments with temperatures ranging from -40°C (104°F) to 50°C (122°F).

DIMENSIONS

Comparison with other Outdoor GV-IP Cameras

	Headlight Turned On	High Beam Turned On
GV-Hybrid LPR Cam 20R / GV-Hybrid LPR Cam 10R / GV-LPC1100 / GV-IP LPR Cam 5R		
GV-BL1500 Super Low Lux Bullet IP Cam		
GV-BL2400 WDR Pro Bullet IP Cam		

Note: The test results are based on the night scene. All cameras are installed at the distance of 10 m (32.81 ft) from the vehicle, with the resolution set as 1.3 MP and the shutter speed set as 1/2000 sec.

SPECIFICATIONS

Camera		
Image Sensor		1/3'' B/W progressive scan CMOS
Picture Elements		1280 (H) x 1024 (V)
Shutter Speed		Automatic, Manual (1/500 ~ 1/8000 sec)
White Balance		Auto / Manual (2800K ~ 8500K)
S/N Ratio		50 dB
Max. Speed		120 km/h (75 mph)

Lens		
Megapixel		1.3 MP
Lens Type		Motorized varifocal lens
Focal Length		9 ~ 22 mm
Maximum Aperture		F/1.2
Mount		Ø14 mm
Image Format		1/2.7"
Operation	Focus	Auto Focus
	Zoom	3X Optical Zoom
	Iris	P-Iris
IR LED Quantity		4 high power IR LEDs
IR Distance		8 ~ 10 m (26.2 ~ 32.8 ft)

Operation		
Video Compression		H.264, MJPEG
Video Stream		Dual streams from H.264 and MJPEG
Frame Rate		30 fps at 1280 x 1024 * The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes)
Image Setting		Brightness, Contrast, Sharpness, Gamma, Image Orientation, Shutter Speed, Defog
Audio Compression		G.711, AAC (Optional)
Audio Support		Two-way audio

Video Resolution		
Main Stream	4:3	1280 x 960, 640 x 480, 320 x 240
	16.9	1280 x 720, 640 x 360, 448 x 252
	5:4	1280 x 1024, 640 x 512, 320 x 256
Sub Stream	4:3	640 x 480, 320 x 240
	16.9	640 x 360, 448 x 252
	5:4	640 x 512, 320 x 256
TV-Out		NTSC, PAL BNC connector (640 x 480 resolution)

Network		
Interface		10/100 Base-T Ethernet, RJ-45 connector
Protocol		DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), PSIA, QoS (DSCP), RTSP, SMTP, SNMP, TCP, UDP, UPnP, 3GPP/ISMA

Mechanical		
Temperature Detector		Yes
Camera Adjustment	Pan	0° ~ 360°
	Tilt	90° ~ 180°
Connectors	Power	DC 48V, AC 24V, High PoE (PoE++, 120W)
	Ethernet	RJ-45
	Audio	1 In (externally connecting a microphone) 1 Out (Stereo phone jack, 3.5 mm / 0.14")
	Digital I/O	1 In / 1 Out
	TV-Out	BNC connector (640 x 480 resolution) * The TV-Out function only works in 640 x 480 resolution. For TV-Out to work properly, you must set the video resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
LED Indicator		N/A

General

Operating Temperature		-40°C ~ 50°C (-40°F ~ 122°F)
Humidity		10% ~ 90% (non-condensing)
Power Source		DC 48V 2.5A, AC 24V 3A, High PoE (PoE++, 120 W)
Max. Power Consumption		50 W
Dimensions	Without support rack	406 x 145 x 109 mm (16" x 5.7" x 4.3")
Cable Length		1 m (3.28 ft)
Weight	With rack	3.32 Kg
	Without support rack	2.62 Kg
Ingress Protection		IP67
Vandal Resistance		IK10 for metal casing
Heater On		-40°C ~ 8°C (-40°F ~ 46.4°F)
Fan		Constantly On
Regulatory		CE, FCC, C-Tick, RoHS compliant

Power over Ethernet

PoE Standard	High Power Over Ethernet / PD
PoE Power Supply Type	Mid-Span
PoE Power Output	DC 48V, 2.5A (120 W Max.)

Web Interface

Installation & Management	Web-based configuration
Firmware Upgrade	Remote upgrade through Web Browser GV-IP Device Utility included in the Software DVD
Access from Web Browser	Live View, Video Recording, Video Quality, Bandwidth Control, Image Snapshot, Audio, Picture in Picture, Picture and Picture, Privacy Mask, Tampering Alarm, Text Overlay
Language	Arabic / Bulgarian / Czech / Danish / Dutch / English / Finnish / French / German / Greek / Hebrew / Hungarian / Indonesian / Italian / Japanese / Lithuanian / Norwegian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Simplified Chinese / Slovakian / Slovenian / Spanish / Swedish / Thai / Traditional Chinese / Turkish

Applications

Network Storage	GV-NVR, GV-System, GV-Recording Server
Smart Device Access	GV-Eye for Android and iOS embedded 3GPP/ISMA browser
Live Viewing	IE, GV-MultiView
CMS Server support	GV-Control Center, GV-Center V2, GV-Vital Sign Monitor

GV-PA482

PoE Standard	High Power Over Ethernet (PoE++) / PSE
PoE Power Output	DC 48V, 2.5A (120 W Max.)
Ethernet Cable Length	Max 100 m (32.8 ft) from GV-PA482 to IP device, CAT5e
Power Input	AC 100V ~ 240V, 2.5A
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Dimensions (L x W x H)	43 x 69 x 40 mm (1.69 x 2.72 x 1.57")
Weight	130 g (0.29 lb)

Note: Specifications are subject to change without notice.

Accessory

Model No	Name	Details	
GV-Mount300	Convex Corner Adapter Kit		Dimensions: 238.6 x 409.5 mm (9.4 x 16.1") Weight: 4.27 Kg (9.41 lbs)
GV-Mount310	Concave Corner Adapter Kit		Dimensions: 238.6 x 409.5 mm (9.4 x 16.1") Weight: 4.27 Kg (9.41 lbs)
GV-Mount400	Pole Mount Bracket Kit (Ø 4" ~ 6")		Bracket: 241 x 161 mm (9.5 x 6.3") Weight: 1.70 Kg (3.75 lbs) Steel Strap Diameter: Ø 4" ~ 6"
GV-Mount410	Pole Mount Bracket Kit (Ø 6" ~ 7.5")		Bracket: 241 x 161 mm (9.5 x 6.3") Weight: 1.70 Kg (3.75 lbs) Steel Strap Diameter: Ø 6" ~ 7.5"
GV-POE Switch		The GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports.	

Packing List

- The GV-LPC1100 camera
- Screw Anchor x 4
- Screw x 4
- Washer x 4
- Torx Wrench x 1
- GV-PA482 PoE Adapter
- Power Adapter (DC 48V, 2.5A, 120 W)
- AC Power Cord
- Silica Gel Bag x 1
- Adhesive tape for Silica Gel Bag x 1
- GV-IP LPR Camera Software CD
- GV-NVR Software DVD
- GV-ASManager Software DVD
- GV-LPR Camera Installation Guide