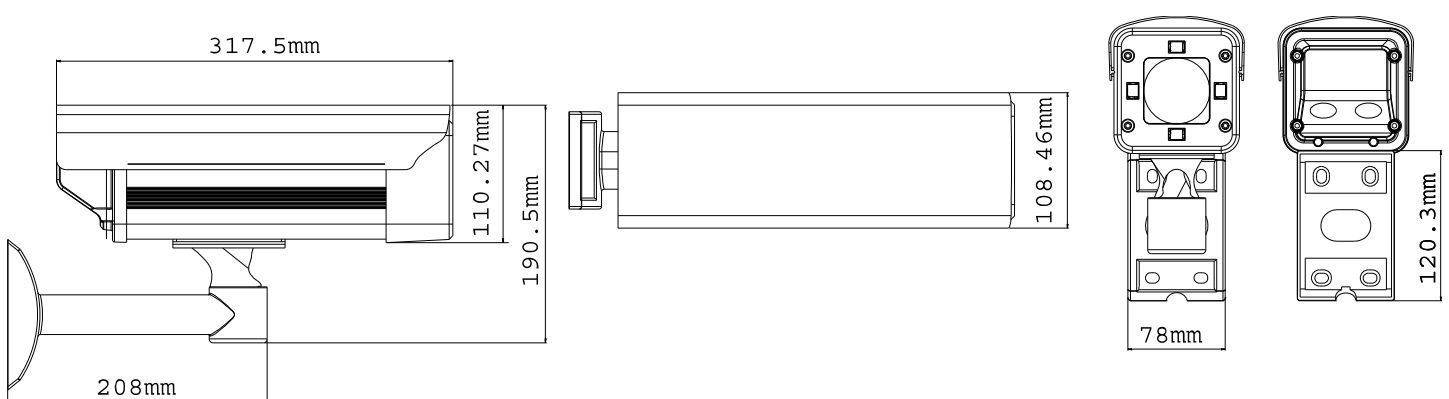# GV-Hybrid LPR Camera 10R

- 1.3 megapixel B/W progressive scan CMOS
- Dual streams from MJPEG or H.264
- Up to 30 fps at 1280 x 1024
- Recognition for reflective License Plate only
- Maximum Speed 120 km/h (75 mph)
- Ingress protection (IP67)
- Vandal resistance (IK10 for metal casing)
- Built-in heater and fan
- Support for TV-out
- Two-way audio
- Defog
- Motion detection
- Tampering alarm
- Privacy mask
- Text overlay
- IP address filtering
- Power supplied through PoE (IEEE 802.3 at)
- Support for iPhone, iPad, Android and 3GPP
- 31 languages on Web interface
- ONVIF (Profile S) conformant

INTRODUCTION

The GV-Hybrid LPR Camera 10R is a 1.3 MP B/W network camera designed solely for recognition of reflective license plates on vehicles traveling at 120 km/hr (74.6 mph) or less. With its high-power LEDs and intelligent IR, the camera is able to automatically adjust its shutter speed to the scene and produce clear license plate capture under low-light conditions. Under certain conditions, the GV-Hybrid Camera 10R can capture up to two lanes in a single shot.

The GV-Hybrid LPR Camera 10R can be easily configured through its Web interface and you can record and play back recordings using the free GV-NVR software included in the standard package.

DIMENSION

- 1 -

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		Automatic, Manual (2800K ~ 8500K)
S/N Ratio		50 dB
Max. Speed		120 km/h (75 mph)
Lens		
Megapixel		1.3MP
Lens Type		Varifocal
Focal Length		5 ~ 50 mm
Maximum Aperture		F/1.6
Mount		CS
Image Format		1/3"
Operation	Focus	Manual (w / lock)
	Zoom	Manual (w / lock)
	Iris	DC drive
IR Led Quantity		4 high power IR LEDs
IR Distance		6 m ~ 12 m
Max. Torque (Focus/ Zoom Screws)		0.049 N.m
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
Two-way Audio		Yes
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
Network		
Interface		10/100 Base-T Ethernet, RJ-45 connector
Protocol		HTTP, HTTPS, TCP, UDP, SMTP, FTP, DHCP, NTP, UPnP, DynDNS, 3GPP/ISMA, RTSP, PSIA, SNMP, QoS (DSCP) , ONVIF (Profile S)
Mechanical		
Lens Mounting		CS-Mount
Temperature Detector		Yes
Camera Adjustment	Pan	0° ~ 330°
	Tilt	0° ~ 90°
Connectors	Power	PoE
	Ethernet	RJ-45
	Audio	1 In (externally connecting a microphone) 1 Out (Stereo phone jack, 3.5 mm / 0.14")
	Auto Iris	DC drive
	TV-Out	BNC connector (640 x 480 resolution)
LED Indicator		1 LED (Status)

General	
Operating Temperature	-40°C ~ 50°C (-40°F ~ 122°F)
Humidity	10% to 90% (no condensing)
Power Source	PoE (IEEE802.3at)
Max. Power Consumption	48 W

Dimension (L X W X H)	Camera Body	317.5 x 100.5 x 100.5 mm (12.5" x 3.96" x 3.96")
	Cable Length	1 m (3.28 ft)

Weight	3.2 Kg (7.05 lb)
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	IEEE 802.3at Power over Ethernet / PD
PoE Power Supply Type	End-Span
PoE Power Output	DC 48V, 600mA (34.2W Max.)

Web Interface	
Installation Management	Web-based configuration
Firmware Upgrade	Remote upgrade through Web browser or upgrade using IP Device Utility (included in the Software DVD)
Access from Web Browser	Camera live view, video recording, change 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 smartphone, tablet, iPhone, and iPod Touch - GV-Eye HD for iPad.
Live Viewing	IE , GV-MultiView
CMS Server support	GV-Control Center, GV-Center V2, GV-VSM

GV-PA481	
PoE Standard	IEEE 802.3at Power over Ethernet / PSE
PoE Power Output	DC 48V, 1A (48W Max.)
Ethernet Cable Length	Max 10 m (32.8 ft) from GV-PA481 to IP device, CAT5
Power Input	DC 48V, 1A
Operation Temperature	-40°C ~ 50°C (-40°F ~ 122°F)
Dimensions (L x W x H)	138 x 104 x 38 mm (5.43" x 4.09" x 1.5")
Weight	610 g (1.342 lbs)

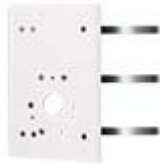| Software License (using with supplied GV-LPR Capture Dongle)	
Free License	Yes
Maximum License	GV-ASManager 4.0: 1 channel GV-ASManager 4.1: 8 channels
Increment for Each License	N/A
Dongle Type	External

Note:
1. GV-Hybrid LPR Camera 10R comes with a free GV-LPR Software, and the supplied GV-LPR Capture Dongle will need to be inserted to run the software (LPR Plugin). Since the free GV-LPR Software is a Trial Edition, it can only capture the license plate images and does not support the license plate recognition function.
2. Specifications are subject to change without notice.

Packing List

- GV-Hybrid LPR Camera 10R
- Screw Anchor x 4
- Screw x 4
- Washer x 4
- Big Torx Wrench
- Small Torx Wrench
- Sun-Shield Cover x 1
- Silica Gel Bag x 2 (1 already installed)

- Sticker x 2
- GV-PA481 PoE Adapter
- GV-PA481 Power Cord
- GV-LPR Capture Dongle
- GV-IP LPR Camera Software CD
- GV-NVR Software DVD
- GV-ASManager Software DVD

Accessories

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-PA481 PoE Power Adapter		The GV-PA481 PoE adapter is designed to provide power and network connection to GV-BX1500-E / 2400-E / 3400-E / 5300-E over a single Ethernet cable.	