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## GV-IP LPR Cameras

		GV-LPC1100	GV-IP LPR Camera 5R	
				
Capturing License Plates			Yes	
Recognizing Plate Numbers			N/A	
Lane Recognition			Single	
<b>Camera (only for reflective license plates)</b>				
Image Sensor	1/3" B/W progressive scan CMOS			
Picture Elements	1280 (H) x 1024 (V)			
Camera Type	B/W			
Shutter Speed	Automatic, Manual (1/500 ~ 1/8000 sec)			
White Balance	Auto / Manual (2800K ~ 8500K)			
Max. Speed	120 km/h (75 mph)		60 km/h (37 mph)	
<b>Operation</b>				
Video Compression	H.264, MJPEG			
Video Streaming	Dual streams			
Frame Rate	30 fps at 1280 x 1024			
Audio Compression	G. 711		N/A	
<b>Optical Lens</b>				
Megapixel	Yes			
Lens Type	Motorized Varifocal Lens			
Focal Length	9 ~ 22 mm		3 ~ 9 mm	
Horizontal FOV	33°~16°		90°~32°	
Maximum Aperture	F/1.2			
Mount	Ø14 mm			
Image Format	1/2.7"			
Operation	Focus	Auto Focus		
	Zoom	3x optical zoom		
	Iris	P-Iris	DC drive	
IR LED Quantity	4		12	
Optimal IR Distance	10 m (32.81 ft)		5 m (16.4 ft)	
Suggested Range of IR Distance	8 ~ 10 m (26.2 ~ 32.8 ft)		3 ~ 5 m (9.84 ~ 16.4 ft)	
<b>Mechanical</b>				
Temperature Detector	Yes			
Connectors	Power	DC 48V 2.5A, High PoE (PoE++, 120 W)	PoE+ (IEEE 802.3at)	
	Ethernet	Ethernet (10/100 Base-T), RJ-45 connector		
	Audio	1 In (external microphone) 1 Out (Stereo phone jack, 3.5 mm / 0.14")		N/A
	Digital I/O	1 in / 1 out		N/A
	TV-Out	BNC connector (640 x 480 resolution)		N/A
LED Indicator	N/A			
<b>General</b>				
Environment Temperature	-40°C ~ 50°C (-40°F ~ 122°F)		-20°C ~ 50°C (-4°F ~ 122°F)	
Humidity	10% to 90% (no condensation)			
Power Source	DC 48V 2.5A, High PoE (PoE++, 120 W)		PoE+ (IEEE 802.3at)	
Max. Power Consumption	50 W		16.6 W	
Regulatory	CE, FCC, C-Tick and RoHS compliant			
Dimensions (L X W X H)	406 x 145 x 109 mm (16" x 5.7" x 4.3") (without support rack)		289.02 x 87.75 x 148.95 mm (11.4" x 3.45" x 5.86")	
Weight	With support rack: 3.32 kg (7.32 lb) Without support rack: 2.62 kg (5.78 lb)		1.4 kg (3.08 lb)	
Ingress Protection	IP67			
Vandal Resistance	IK10 for metal casing			
Heater On	-40°C ~ 8°C (-40°F ~ 46.4°F)		N/A	
Fan	Constantly On			




All specifications are subject to change without notice.



	GV-LPR1200	GV-LPC1200	
			
Capturing License Plates	Yes		
Recognizing Plate Numbers	Yes (Built-in LPR processor)	N/A	
Lane Recognition	Single		
<b>Camera (only for reflective license plates)</b>			
Image Sensor	Megapixel B/W progressive scan CCD		
Picture Elements	1280 (H) x 720 (V)		
Camera Type	B/W		
Shutter Speed	Automatic: 1/1000 ~ 1/10000 sec Manual: 1/250 ~ 1/2000 sec		
S/N Ratio	52 dB		
Max. Speed	200 km/h (124.27 mph)		
<b>Operation</b>			
Video Compression	H.264, MJPEG		
Video Streaming	Dual streams from H.264 and MJPEG		
Frame Rate	30 fps at 1280 x 720		
Audio Compression	G.711		
<b>Optical Lens</b>			
Megapixel	1 MP		
Lens Type	Motorized varifocal lens		
Focal Length	4.7 mm ~ 47 mm		
Horizontal FOV	59.9°~6.4°		
Maximum Aperture	F/3.5		
Image Format	1/3"		
Operation	Focus	Auto	
	Zoom	10x optical zoom	
	Iris	Auto Focus	
IR LED Quantity	8 high power IR LEDs		
IR Distance	10 ~ 20 m (32.8 ~ 65.6 ft)		
<b>Mechanical</b>			
Temperature Detector	Yes		
Connectors	Power	DC 12V	
	Ethernet	RJ-45	
	Audio	1 In (microphone jack, 3.5 mm / 0.14") 1 Out (stereo phone jack, 3.5 mm / 0.14")	
	Digital I/O	2 In / 2 Out	
	RS-485	RS-485+ / RS-485- (for recognition data output)	N/A
	Local Storage	Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10) * SDXC and UHS-I card types are not supported.	N/A
	TV-Out	BNC connector (640 x 480 resolution)	
	Mini USB	Mini USB port on the circuit board (for UMTS)	
LED Indicator	N/A		
<b>General</b>			
Environment Temperature	-40°C ~ 50°C (-40°F ~ 122°F)		
Humidity	10% to 90% (no condensation)		
Power Source	DC 12V, 5A		
Max. Power Consumption	54 W		
Regulatory	CE, FCC, RCM, RoHS compliant		
Dimensions (L X W X H)	406 x 145 x 109 mm (16" x 5.7" x 4.3") (Without support rack)		
Weight	With support rack: 3.32 kg (7.32 lb)		
	Without support rack: 2.62 kg (5.78 lb)		
Ingress Protection	IP67		
Vandal Resistance	IK10 for metal casing		
Heater On	-40°C ~ 5°C (-40°F ~ 41°F)		
Fan	Constantly On		

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		GV-LPC2210	GV-LPC2211	GV-LPC2011
				
<b>Capturing License Plates</b>		Yes		
<b>Recognizing Plate Numbers</b>		N/A		
<b>Lane Recognition</b>		Dual		
<b>Camera (only for reflective license plates)</b>				
<b>Image Sensor</b>		1/2.8" progressive super low lux CMOS		
<b>Picture Elements</b>		1920 (H) x 1080 (V)		
<b>Camera Type</b>		Color, B/W		
<b>Shutter Speed</b>		Auto, Manual (1/120 ~ 1/2000 sec)		
<b>White Balance</b>		Auto / Manual (2800K ~ 8500K)		
<b>S/N Ratio</b>		52 dB		56 dB
<b>Max. Speed</b>		120 km/h (75 mph)		60 km/h (37 mph)
<b>Operation</b>				
<b>Video Compression</b>		H.264, MJPEG		
<b>Video Streaming</b>		Dual streams from H.264 or MJPEG		
<b>Frame Rate</b>		30 fps at 1920 x 1080		
<b>Audio Compression</b>		G. 711		N/A
<b>Optical Lens</b>				
<b>Megapixel</b>		2 MP		
<b>Lens Type</b>		Motorized Varifocal Lens		
<b>Focal Length</b>		9 ~ 22 mm		3 ~ 9 mm
<b>Horizontal FOV</b>		38°~18°	39°~17°	102° ~ 40°
<b>Maximum Aperture</b>		F/1.2"	F/2.0 ~ F/3.5	F/1.7
<b>Mount</b>		Ø 14 mm		
<b>Image Format</b>		1/2.7"		
<b>Operation</b>	<b>Focus</b>	Auto Focus		Remote Focus
	<b>Zoom</b>	2.5x optical zoom		3x optical zoom
	<b>Iris</b>	P-Iris		
<b>IR LED Quantity</b>		4 high power IR LEDs		24 IR LEDs
<b>IR Distance</b>		10 ~ 20 m (32.8 ~ 65.6 ft)		5 ~ 9 m (16.4 ~ 29.6 ft)
<b>Mechanical</b>				
<b>Temperature Detector</b>		Yes		
<b>Connectors</b>	<b>Power</b>	DC 48V, High PoE (PoE++, 120 W)		DC 12V, PoE (IEEE 802.3af)
	<b>Ethernet</b>	RJ-45		
	<b>Audio</b>	1 In (microphone jack, 3.5 mm / 0.14"); 1 Out (stereo phone jack, 3.5 mm / 0.14")		N/A
	<b>Digital I/O</b>	1 In / 1 Out		
	<b>TV-Out</b>	BNC connector (640 x 480 resolution)		
<b>General</b>				
<b>Environment Temperature</b>	<b>Start-up</b>	-40°C ~ 50°C (-40°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)
	<b>Operation</b>		-30°C ~ 50°C (-22°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)
<b>Humidity</b>		10% to 90% (no condensation)		
<b>Power Source</b>		DC 48V 2.5A, High PoE (PoE++, 120 W)		DC 12V, PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		50 W		12.3 W
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant		
<b>Dimensions (L X W X H)</b>		406 x 145 x 109 mm (16" x 5.7" x 4.3") (without support rack)	142.14 x 77.72 x 102.75 mm (5.6" x 3.06" x 4.05")	
<b>Weight</b>		With support rack: 3.32 kg (7.32 lb) Without support rack: 2.62 kg (5.78 lb)	810 g (1.8 lb)	
<b>Ingress Protection</b>		IP67		
<b>Vandal Resistance</b>		IK10 for metal casing		
<b>Heater On</b>		-40°C ~ 8°C (-40°F ~ 46.4°F)		N/A
<b>Fan</b>		Constantly On		

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## GV-IP Deep Learning LPR Cameras

		GV-LPR2800-DL	GV-LPR2811-DL (Coming)
			
<b>Capturing License Plates</b>		Yes	
<b>Recognizing Plate Numbers</b>		Yes (Built-in Deep-Learning LPR processor)	
<b>Lane Recognition</b>		Dual	
<b>Camera (only for reflective license plates)</b>			
<b>Image Sensor</b>		1/2.8" progressive scan super low lux CMOS	
<b>Picture Elements</b>		1920 (H) x 1080 (V)	
<b>Camera Type</b>		Color	
<b>Shutter Speed</b>		Automatic: 1/500 ~ 1/16,000 sec Manual: 1/120 ~ 1/16,000 sec	
<b>S/N Ratio</b>		56 dB	
<b>Max. Speed</b>		100 km/h (62 mph)	
<b>Operation</b>			
<b>Video Compression</b>		H.265, H.264, MJPEG	
<b>Video Streaming</b>		Triple streams from H.265, H.264 and MJPEG	
<b>Frame Rate</b>		60 fps at 1920 x 1080	
<b>Audio Compression</b>		G.711	
<b>Optical Lens</b>			
<b>Megapixel</b>		2 MP	
<b>Lens Type</b>		Varifocal lens	Motorized varifocal lens
<b>Focal Length</b>		5 mm ~ 50 mm	9 mm ~ 22 mm
<b>Horizontal FOV</b>		50.9° ~ 7.6°	38° ~ 16°
<b>Maximum Aperture</b>		F/1.6	F/2.0
<b>Image Format</b>		1/2.7"	
<b>Operation</b>	<b>Focus</b>	Manual (w/lock)	Auto
	<b>Zoom</b>	Manual (w/lock)	2.5 x Optical Zoom
	<b>Iris</b>	DC-Iris	P-Iris
<b>IR LED Quantity</b>		10 high power IR LEDs	24 IR LEDs
<b>IR Distance</b>		30 m (100 ft)	22 m (70 ft)
<b>Mechanical</b>			
<b>Temperature Detector</b>		Yes	
<b>Connectors</b>	<b>Power</b>	2-pin terminal block	
	<b>Ethernet</b>	RJ-45	
	<b>Audio</b>	1 In (microphone jack, 3.5 mm / 0.14") 1 Out (stereo phone jack, 3.5 mm / 0.14")	
	<b>Digital I/O</b>	2 In / 2 Out	
	<b>RS-485</b>	RS-485+ / RS-485- (for recognition data output)	
	<b>Local Storage</b>	Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * UHS-II card types not supported	
	<b>TV-Out</b>	N/A	
<b>Mini USB</b>		N/A	
<b>LED Indicator</b>		N/A	
<b>General</b>			
<b>Environment Temperature</b>	<b>Startup</b>	-40°C ~ 50°C (-40°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)
	<b>Operation</b>		-30°C ~ 50°C (-22°F ~ 122°F)
<b>Humidity</b>		10% to 90% (no condensation)	
<b>Power Source</b>		DC 12 V, 5 A / PoE (IEEE 802.3bt)	DC 12 V, 3 A / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		45 W	12 W
<b>Regulatory</b> CE, FCC, RCM, RoHS compliant			
<b>Dimensions (L X W X H)</b>		360 x 157 x 137.5 mm (14.17" x 6.18" x 5.41")	168.3 x 77.72 x 102.75 mm (6.6" x 3.1" x 4.0")
<b>Weight</b>		4.34 kg (9.57 lb)	0.81 kg (1.79 lb)
<b>Ingress Protection</b>		IP68	IP67
<b>Vandal Resistance</b>		IK10 for metal casing	
<b>Heater On</b>		-40°C ~ 5°C (-40°F ~ 41°F)	N/A
<b>Fan</b>		Constantly On	N/A

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