

GV-GDR4900 Cloud AI 4MP H.265 Super Low Lux WDR Pro IR Mini Fixed

Rugged IP Dome





- Direct-to-Cloud
- Al deep learning: Al Perimeter Protection & Classification (Human, Vehicle)
- 1/3" progressive scan CMOS
- Min. illumination at 0.005 lux
- Triple streams from H.265, H.264 and MJPEG
- Up to 30 fps at 2688 x 1520
- Intelligent IR
- IR distance up to 20 m (65 ft)
- Day and Night function (with removable IR-cut filter)
- Vandal resistance (IK10 for metal casing)
- Ingress protection (IP67)
- 3-axis mechanism (pan / tilt / rotate)
- DC 12V / PoE (IEEE 802.3af)
- Built-in microSD card slot (SD / SDHC / SDXC) for local storage
- Two-way audio capable
- Built in microphone
- Wide Dynamic Range Pro (WDR Pro)
- Defog
- 3D noise reduction
- GV-Center V2 connection
- Al analytics (Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Heat Map, Loitering Detection, Illegal Parking Detection, Face Detection, Video Metadata)
- Motion detection
- Text overlay
- Privacy mask
- 19 languages supported
- ONVIF (Profile G, S, T, M) conformant

Introduction

GV-GDR4900 is an outdoor camera designed with IK10 vandal resistance and IP67 ingress protection. The camera supports H.265 video codec to achieve a better compression ratio while maintaining high-quality pictures at reduced network bandwidths. The camera adheres to IK10 and IP67 standards, and can be powered through PoE.

Empowered by deep learning algorithms, its AI technology distinguishes humans and vehicles from other moving objects. Integrated with GeoVision Video Management Software (VMS), it supports AI perimeter protection, real-time alert, event playback, and more. By connecting the camera to the cloud-based data center and video surveillance solution, GV-Cloud VMS, thousands of on-site videos, alarm devices, and AI events can be monitored and managed from a single platform.

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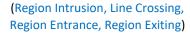


Deep Learning Function

Face Detection

AI Perimeter Protection

People Counting

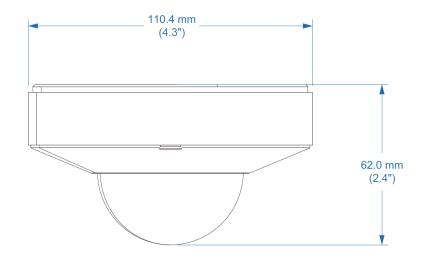








Dimensions



Specifications

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Camera			
Image Sensor		1/3" progressive scan CMOS	
Picture Elements		2688 (H) x 1520 (V)	
Minimum Illumination	Color	0.005 Lux (F1.6, AGC ON)	
	IR On	0 Lux	
Shutter Speed		Automatic, Manual 1/3 ~ 1/100000 sec)	
White Balance		Automatic, Manual	
Gain Control		Automatic, Manual	
S/N Ratio		50 dB	
WDR Pro		Yes	
Dynamic Range		120 dB	
Lens			
Megapixel		4 MP	
Day/Night		Yes (with removable IR-cut filter)	
Focal Length		2.8 mm	
Lens Type		Fixed	
Maximum Aper	ture	F/1.6	
Mount		M12	
	Horizontal	95.3°	
FOV	Vertical	53.2°	
	Diagonal	100.7°	
Operation	Focus	Fixed	
	Zoom	Fixed	
	Iris	Fixed	



IR LED Quantity		2 IR LEDs			
Max. IR Distance	9	20 m (65 ft)			
DORI		Detect	Observe	Recognize	Identify
Lens	2.8 mm	60.6 m (198.8 ft)	24.2 m (79.3 ft)	12.1 m (39.6 ft)	6.0 m (19.6 ft)
Operation					
Video Compress	ion	H.265, H.265+, H.26	4, H.264+, MJPEG		
Video Streaming		Triple streams			
Vidoo	Main Stream	2688 x 1520 (Default), 2592 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080			
Video Resolution	Sub Stream	1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 × 240			
Resolution	Third Stream	1280 x 720 (Default)	, 704 x 576, 704 x 480	, 480 x 240, 352 × 240	
Frame Rate		30 fps at 2688 x 1520 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 240 (60 Hz)			
		25 fps at 2688 x 1520 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 576 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 288 (50 Hz)			
		* The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).			
Maximum	Al off	64 Mbps			
Throughput	Al on	18 Mbps: one AI function enabled 12 Mbps: multiple AI functions enabled			
Maximum Strea *When the total maximum throu	l bitrate is within the	8 *By default, 2 conne	ections are occupied w	hether connected to G	iV-Cloud VMS or not.
Video Analytics		Motion Detection, Video Exception Detection (Abnormal Color Detection, Scene Change Video Blur), Object Abandoned/Missing Detection			
Smart Alarm		Audio Exception, Cable Disconnection, IP Address Conflict, SD Card Error, SD Card Full			
Image Setting		Brightness, Contrast, Saturation, Sharpness, Flicker-less, 3D Noise Reduction, Image Orientation (Flip, Mirror, 0°, 90°, 180°, 270°-including Corridor format).			
Dual Redundant Images		Yes (for failsafe firm		<u> </u>	,
Audio Compression		G.711			
Audio Compression Audio Support		Two-way audio (external speaker required)			
	Input	1 Input, dry contact,		•	
Digital I/O	Output		30V DC / 0.3A 125V A	C)	
Deep Learning Fu	inction		·		
		Face Event: Face De	tection		
AI Analytics		 Smart Event: Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Heat Map, Video Metadata: Human & Vehicle classification Loitering Detection, Illegal Parking Detection 			
		*Face events and smart events cannot be enabled at the same time. *A maximum of 2 smart detection functions are suggested at a time to ensure comprehensive detection results and the optimized performance by the camera. *Once connected to GV-Cloud VMS / GV-Center V2, up to 2 smart detection functions are supported.			
Video	People	Gender, Age, Top / E	Bottom (Type, Color),	Accessories (Hat, Bag, I	Face Mask, Glasses)
Video Metadata	Vehicle	Type, Color, Brand, I	Model		
	Non-Motor Vehicle	Туре			
Network					
Interface		10/100 Ethernet			
Protocol		802.1x, DDNS, DHCP, FTP, HTTP POST, HTTP, HTTPs, IPv4, IPv6, NTP, ONVIF (Profile G, S, T, M), PPPOE, QoS, RTCP, RTMP, RTP, RTSP, SMTP, SNMP, UDP, UPnP			
Mechanical					
	Pan	0 ~ 360°			
Camera Angle	Tilt	0 ~ 75°			
Adjustment	Rotate	0 ~ 350°			
	Power	DC Jack (DC 12 V, 1 A) / PoE (IEEE 802.3af)			
Connectors	Ethernet	RJ-45			
	Luicillet				
	Audio	Built-in microphone External microphone		Yes Yes (audio jack, 3.5	5 mm or 0.14 in)
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		Built-in speaker	No	
		External speaker required	Yes (audio jack, 3.5 mm or 0.14 in)	
		* Choose either the built-in or external option for devices with a microphone or speaker * The Audio In port only supports microphones with a power supply.		
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.2	14")	
	Local Storage	microSD card slot (SD / SDHC / SDXC),	, up to 256 GB	
General				
Operating Temperature		-30 ~ 60°C (-22 ~ 140°F)		
Humidity		0 ~ 95% (no condensation)		
Power Source		DC 12 V / PoE (IEEE 802.3af)		
Max. Power Consumption		5.5 W		
Dimensions		Ø 110.4 x 62 mm (Ø 4.3 x 2.4 in)		
Weight		0.42 kg (0.93 lb)		
Ingress Protection		IP67		
Vandal Resistance		IK10 for metal casing		
Certification		CE, FCC, RoHS compliant		
Web Interface				
Installation Man	agement	Web-based configuration		
Maintenance		Firmware upgrade through Web Browser or Utility		
Access from Web Browser		Live View, Playback, Video Recording, Image Quality, Bandwidth Control, Image Snapshot, Two-way Audio Capable, Digital Zoom, Text Overlay, Image Masking, Intelligent Mark		
Language		Chinese Traditional, Czech, Dutch, English, French, German, Hebrew, Hungarian, Italia Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Spani (Latin America), Turkish		
Software Applicat	tions			
Software Supported		GV-VMS (V17.4.6 / V18.3.2 or later), GV-Edge Recording Manager (V2.2.5 or later), GV-Control Center (V4.1.0 or later), GV-Recording Server (V2.3.0, coming soon), GV-Center V2 (V18.4.1 or later), GV-Cloud VMS (V1.3.0 or later)		
Smart Device Ac	Smart Device Access GV-Eye for iOS and Android (V3.1.1 or later)		r later)	
Live Viewing		Web Browser (Edge, IE mode in Edge, Chrome, Firefox, Safari), Mobile APP		

Note:

- 1. To use GV-Cloud VMS, avoid connecting to other GV-Software at the same time.
- 2. To use GV-Cloud VMS, a microSD card must be installed. Industrial-grade microSD cards are recommended to avoid event recordings writing failure.
- 3. Upon the initial connection of GV-Cloud Camera to GV-Cloud VMS, the Standard Plan will be provided for free for 180 days.
- 4. All specifications are subject to change without notice.

Packing List

1. GV-GDR4900 Mini Dome

4. Drill Template Paster

2. Waterproof Rubber Set

5. Hex Key

3. Screw Kit

6. Download Guide

Accessories

Model No.	Name	Details
GV-Mount211-4	Wall Mount Bracket	Dimensions: 129.5 x 155 x 74.5 mm (5.10 x 6.10 x 2.93 in) Weight: 0.53 kg (1.16 lb)
GV-Mount211-9 (must be used with Mount509)	Wall Mount Bracket	Dimensions: Ø 121 x 148 mm (Ø 4.76 x 5.83 in) Weight: 0.35 kg (0.77 lb)

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GV-Mount470
(must be used with
Mount211-9)

Pole Mount Bracket



Dimensions: 163.3 x 54.5 x 215 mm

(6.43 x 2.15 x 8.46 in)

Weight: 1.10 kg (2.43 lb)

GV-Mount314 (must be used with Mount211-9)

Corner Mount Bracket



Dimensions: 215 x 121.4 x 215 mm

(8.46 x 4.78 x 8.46 in)

Weight: 2.05 kg (4.52 lb)

GV-Mount509

Junction Box



Dimensions: Ø 112 x 40 mm (Ø 4.41 x 1.57 in)

Weight: 0.23 kg (0.51 lb)

GV-PA191

PoE Adapter



GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single

Ethernet cable.

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. The GV-POE Switch is available in various models with different

numbers and types of ports.

Power Adapter

Contact our sales representatives for the countries and areas supported.

Mounting Type

Wall Bracket Mount	Junction Box Mount	Junction Box Mount	Wall Bracket Mount
GV-Mount211-4	GV-Mount509	GV-Mount509	GV-Mount211-9
GV-Mount211-4	GV-Mount509	GV-Mount509 —	GV-Mount211-9



