October 22, 2025



# 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.

GV-GDR4900



# **Deep Learning Function**

### **Face Detection**

### **AI Perimeter Protection**

# **People Counting**

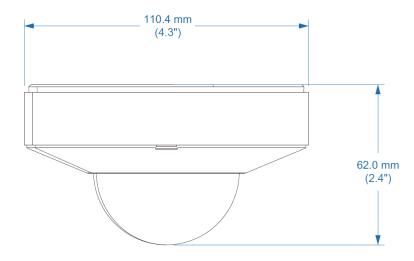
(Region Intrusion, Line Crossing, Region Entrance, Region Exiting)







### **Dimensions**



#### **Specifications**

pecifications			
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°	
	Focus	Fixed	
Operation	Zoom	Fixed	
	Iris	Fixed	



IR LED Quantity		2 IR LEDs			
Max. IR Distance		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	64, H.264+, MJPEG		
Video Streaming		Triple streams			
	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			
	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 720 / 704 x 576 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 288 (50 Hz)			
		and data bitrates (d		iry depending on the ni	umber of connections
Maximum Throu		64 Mbps			
Maximum Stream	• • • •	8			
	bitrate is within the	*By default, 2 connections are occupied whether connected to GV-Cloud VMS or not.			
maximum throu	griput		<u> </u>		
Video Analytics		Motion Detection, Video Exception Detection (Abnormal Color Detection, Scene Chang 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 firmware upgrade)			
Audio Compression		G.711			
Audio Support			ernal speaker required	1)	
Digital I/O	Input		•		
Digital I/O	Output	1 Relay Output (1A 30V DC / 0.3A 125V AC)			
Deep Learning Fu	nction				
		Face Event: Face De	tection		
Al Analytics		Heat Map, Vide	o Metadata: Human &	Vehicle classification	on, Target Counting,
		*A maximum of 2 so comprehensive det	mart detection functio ection results and the	ns are suggested at a ti optimized performance	me to ensure by the camera.
	People	Gender, Age, Top /	Bottom (Type, Color),	Accessories (Hat, Bag, F	ace Mask, Glasses)
Digital I/O  Input Output 1 Relay Output (1A 30V DC)  Deep Learning Function  Face Event: Face Detection Smart Event: - Line Crossing, Region E Heat Map, Video Metal - Loitering Detection, Ille *Face events and smart ev *A maximum of 2 smart de comprehensive detection r *Once connected to GV-Cle are supported.	<u> </u>	, , 3/	. ,		
ivietadata					
Network					
		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		A) / PoE (IEEE 802.3af		
	Ethernet	RJ-45	,, . 02 (1222 002.541)		
	Ethernet		<u>,                                      </u>	Voc	
Connectors	Audio	Built-in microphone		Yes	mm or 0 14 in
		External microphon	e required	Yes (audio jack, 3.5	111111 OF U.14 IN)
		Built-in speaker	t	No	
		External speaker re	quirea	Yes (audio jack, 3.5	mm or 0.14 in)

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		* Choose either the built-in or external option for devices with a microphone or speake * The Audio In port only supports microphones with a power supply.	
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14")	
	Local Storage	microSD card slot (SD / SDHC / SDXC), up to 256 GB	
General			
Operating Temp	erature	-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 Mar	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, Italian Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Spanish (Latin America), Turkish	
Software Applica	tions		
Software Supported		GV-VMS (V17.4.8 / V18.3.3 / V20.0.0 or later), GV-Edge Recording Manager (V2.2.8 or later), GV-Control Center (V4.2.0 or later), GV-Recording Server (V2.1.1 or later), GV-Center V2 (V18.4.1 or later), GV-Cloud VMS (V1.3.0 or later), GV-IP Device Utility (V8.9.9 or later)	
Smart Device Ad	ccess	GV-Eye for iOS and Android (V3.2.0 or 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 IP Cameras to GV-Cloud VMS, the Standard Plan will be provided for free for 180 days.
- 4. GV-Center V2 Standard / Pro can only receive motion events from GV-Cloud IP Cameras. To receive AI and PVD events, GV-Center V2 AI is required.
- 5. 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.

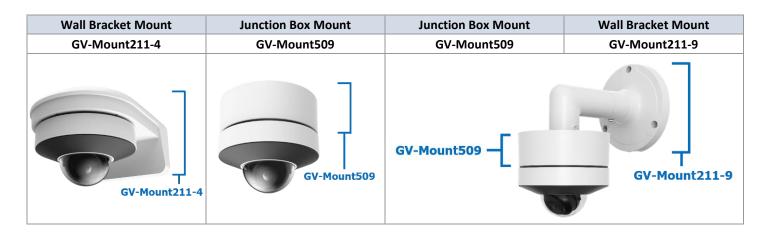
**GV-POE Switch** 

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.

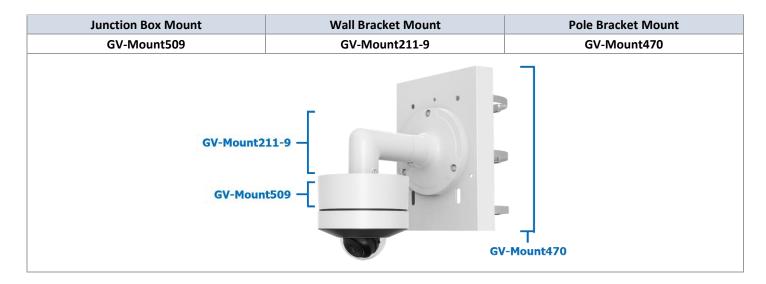
Power Adapter

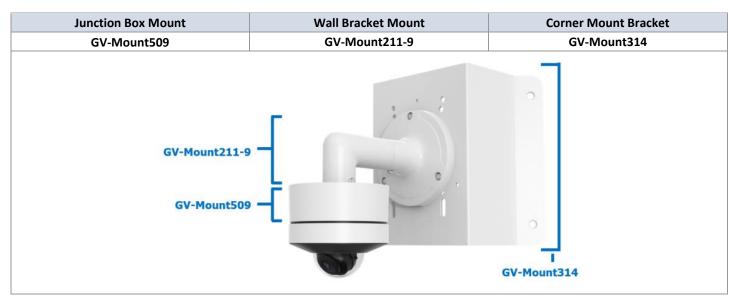
Contact our sales representatives for the countries and areas supported.

### **Mounting Type**









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