

# 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 / UHS-I, Class 10) 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 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, AI technology distinguishes human 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**

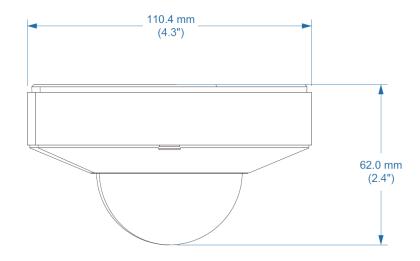
(Region Intrusion, Line Crossing, Region Entrance, Region Exiting)







## **Dimensions**



## **Specifications**

Camana			
Camera			
Image Sensor		1/3" progressive scan CMOS	
Picture Elements	S	2688 (H) x 1520 (V)	
Minimum	Color	0.005 Lux (F1.6, AGC ON)	
Illumination	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 Apert	ure	F/1.6	
Mount		M12	
Horizontal FOV		95.3°	
Operation	Focus	Fixed	
	Zoom	Fixed	
	Iris	Fixed	
IR LED Quantity		2 IR LEDs	



Max. IR Distance	2	20 m (65 ft)			
OORI		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 Compression		H.265, H.265+, H.264, H.264+, MJPEG			
Video Streaming		Triple streams			
Video	Main Stream	-	·	( 1440, 2304 x 1296, 19	
Resolution	Sub Stream	1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 240 1280 x 720 (Default), 704 x 576, 704 x 480, 480 x 240, 352 x 240			
	Third Stream	, ,	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	/ 4020 4000 / 4200
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).			
	AI off	64 Mbps			
Maximum Throughput  Al on  18 Mbps: one Al function enabled 12 Mbps: multiple Al functions enabled					
Maximum Strea	ms	0			
*When the total bitrate is within the		8			
maximum throu	ghput	*By default, 2 connections are occupied whether connected to GV-Cloud VMS or not.			
Video Analytics		Motion Detection, Object Abandoned/Missing Detection			
·		Motion Detection, SD Card Error, SD Card Full, IP Address Conflict, Cable Disconnected,			
Smart Alarm		Scene Change Detection, Video Blur Detection, Video Cast Detection, Audio Exception			
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	ware upgrade)		
Audio Compression		G.711			
Audio Support		Two-way audio (external speaker required)			
Digital I/O	Input	1 Input, dry contact,	· · · · · · · · · · · · · · · · · · ·		
	Output	1 Relay Output (1A 3	30V DC / 0.3A 125V AC	5)	
Deep Learning Fu	nction				
		Face Event: Face Detection			
		Smart Event:			
		- Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Heat Map, Video Metadata: Human & Vehicle classification			
Al Analytics		- Loitering Detection, Illegal Parking Detection			
		*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.			
	People	Gender, Age, Top / E	Bottom (Type, Color), A	Accessories (Hat, Bag, F	ace Mask, Glasses)
Video	Vehicle	Type, Color, Brand, I		(/ - 6/ -	,,
Metadata	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					
Camera Angle Adjustment	Pan	0~360°			
	Tilt	0~75°			
	Rotate	0 ~ 350°			
Connectors	Power	DC Jack (DC 12 V, 1 A) / PoE (IEEE 802.3af)			
	Ethernet	RJ-45			
		Built-in microphone		Yes	
	Audio				

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		Built-in speaker	No		
		External speaker required	Yes (audio jack, 3.5 mm or 0.14 in)		
			ernal option for devices with a microphone or speake microphones with a power supply.		
	Digital I/O 4-pin terminal block pitch 3.5 mm (0.14")		(0.14")		
	Local Storage	microSD card slot (SD / SDHC / SD *UHS-II card type is not supported	· · · · · · · · · · · · · · · · · · ·		
General					
Operating Temperature		-30 ~ 60°C (-22 ~ 140°F)			
Humidity		0 ~ 95% (no condensation)			
Power Source		DC 12 V / PoE (IEEE 802.3af)	DC 12 V / PoE (IEEE 802.3af)		
Max. Power Consumption		5.5 W	5.5 W		
Dimensions		Ø 110.4 x 62 mm (Ø 4.3 x 2.4 in)			
Weight		0.42 kg (0.93 lb)	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 Access		GV-Eye for iOS and Android (V3.1.1 or later)			
Live Viewing		Web Browser (Edge, IE mode in Ed	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 GV-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-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.

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

