

GV-GDRF4800 AI 4MP H.265 Super Low Lux WDR Pro Full Color White LED IR

Mini Fixed Rugged IP Dome





- Al deep learning: Smart Perimeter Protection & Classification (Human, Vehicle)
- 1/3" progressive scan CMOS sensor
- Min. illumination at 0.005 lux
- Triple streams from H.265, H.264 or MJPEG
- Up to 30 fps at 2560 x 1440
- Wide Dynamic Range Pro (WDR Pro)
- Smart white LED distance up to 30 m (100 ft)
- Intelligent IR
- IR distance up to 30 m (100 ft)
- Ingress protection (IP67)
- Vandal resistance (IK10 for metal casing)
- 3-axis mechanism (pan / tilt / rotate)
- Built-in microphone
- Built-in microSD card slot (SD / SDHC / SDXC) for local storage
- DC 12V / PoE (IEEE 802.3af)
- Al analytics (Line Crossing, Region Intrusion)
- Smart lighting switch between IR LED (for motion detection) and White LED (for people, vehicle and motorcycle detection)
- 3D noise reduction
- Motion detection
- Text overlay
- Privacy mask
- 21 languages supported
- ONVIF (Profile G, S, T, M) conformant

Introduction

GV-GDRF4800 is a 4 MP outdoor mini fixed rugged IP dome camera, equipped with smart white LEDs for full color surveillance during nighttime. The camera supports H.265 video codec to achieve a better compression ratio while maintaining high-quality pictures at reduced network bandwidth. GV-GDRF4800 adheres to IP67 and IK10 standards and can be powered through PoE.

Empowered by deep learning algorithms, AI technology distinguishes humans and vehicles from other moving objects. Integrated with GeoVision Video Management Software (GV-VMS), it supports AI perimeter protection, real-time alert, playback, and more.

Models

Model	Iris	Focal Length (mm)	Horizontal FOV	Maximum Aperture	Image Format
GV-GDRF4800-2F	Fixed	2.8 mm	94°	F/1.6	1/3"
GV-GDRF4800-3F		3.6 mm	78°		

GV-GDRF4800 June 13, 2025



Deep Learning Function

Al Perimeter Protection

(Line Crossing, Region Intrusion)



Specifications

Image Sensor		CMOS			
Picture Elements					
Color	0.005 Lux (F1.6, AGC	ON)			
IR On	0 Lux	•			
	Auto / Manual (1 ~ 1,	/100000 sec)			
	Auto / Manual	,			
	·				
Gain Control S/N Ratio		·			
	GV-GDRF4800-2F		GV-GDRF4800-3F		
	4 MP				
	Yes (with removable	IR-cut filter)			
	<u> </u>	,			
Lens Type Focal Length					
Maximum Aperture Mount		·			
Image Format					
Horizontal	•		78°		
Vertical					
•					
	· · · · · · · · · · · · · · · · · · ·				
Max. White LED	30 m (100 ft)				
	Detect	Observe	Recognize	Identify	
2.8 mm	62 m (203,4 ft)	25 m (82.0 ft)		6 m (19.6 ft)	
3.6 mm	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	8 m (26.2 ft)	
				(,	
	H.265, H.265+, H.264	. H.264+. MJPEG			
Video Compression Video Streaming					
		2560 x 1440 (default), 2304 x 1296, 1920 x 1080, 1280 x 720			
Frame Rate					
		640 x 480, 480 x 240, 352 x 240			
		Max. 25 fps (50 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480, 480 x 240, 352 x 288			
		* The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).			
	Horizontal Vertical Diagonal Focus Zoom Iris Quantity Max. IR Distance Quantity Max. White LED Light Distance	2560 (H) x 1440 (V) Color	Color IR On O Lux Auto / Manual (1 ~ 1/100000 sec) Auto / Manual Auto / Manual Auto / Manual So dB Yes 120 dB GV-GDRF4800-2F 4 MP Yes (with removable IR-cut filter) Fixed 2.8 mm F/1.6 M12 1/3" Horizontal 94° Vertical 50° Diagonal 115° Focus Fixed Zoom Fixed Iris Fixed Quantity Quantity Quantity Quantity Aux. IR Distance Detect Detect Detect Observe 2.8 mm 62 m (203.4 ft) 3.6 mm 79 m (259.1 ft) 32 m (104.9 ft) H.265, H.265+, H.264, H.264+, MJPEG Triple streams Main Stream 2560 x 1440 (default), 704 x 480, 704 x 576, 480 x 240, 3 Max. 30 fps (60 Hz) at 2560 x 1440, 2304 x 640 x 480, 480 x 240, 352 x 240 Max. 25 fps (50 Hz) at 2560 x 1440, 2304 x 640 x 480, 480 x 240, 352 x 288	2560 (H) x 1440 (V) Color	

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Maximum Throughp	ut	6 Mbps		
Maximum Stream		-		
* When the total bitrate is within the maximum throughput		6		
Video Analytics		Motion Detection, Object Abandoned / Missing Detection, Video Exception		
Smart Alarm		Motion Detection, SD Card Error, SD Ca Scene Change Detection, Video Blur De	ard Full, IP Address Conflict, Cable Disconnection etection, Abnormal Color Detection	
Image Setting			Sharpness, 3D Noise Reduction, BLC, Antiflicker, rientation (Flip, Mirror, 0°, 90°, 180°, 270° –	
Audio Compression		G.711		
Audio Support		One-way audio		
Deep Learning Functi	on			
Al Analytics		Line Crossing, Region Intrusion (Humar * The two functions can only be enable		
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				
Camora Angla	Pan	0 ~ 355°		
Camera Angle Adjustment	Tilt	0 ~ 70°		
- Adjustificitie	Rotate	0~180°		
	Power	DC jack		
	Ethernet	RJ-45 connector		
		Built-in microphone	Yes	
	Audio	External microphone required	Yes (audio jack, 3.5 mm or 0.14 in)	
Connectors		Built-in speaker	No	
		External speaker required	No	
		* Choose either the built-in or external	l microphone.	
		* The Audio In port only supports microphones with a power supply.		
	Local Storage	microSD card slot (SD / SDHC / SDXC), u	up to 256 GB	
General				
Operating Temperat	ure	-30°C ~ 60°C (-22°F ~ 140°F)		
Humidity		0 ~ 95% (no condensation)		
Power Source		DC 12V, 1A / PoE (IEEE 802.3af)		
Max. Power Consum	ption	5.5 W		
Dimensions		Ø 119 × 87.8 mm (Ø 4.7 × 3.5 in)		
Weight		0.64 kg (1.41 lb)		
Ingress Protection		IP67		
Vandal Resistance		IK10 for metal casing		
Certification		CE, FCC, RoHS, UKCA compliant		
Web Interface				
Installation Management		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, Digital Zoom, Text Overlay, Image Masking, Intelligent Mark		
Language		Chinese Traditional, Czech, Dutch, English, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Spanish (Latin America), Turkish, Ukrainian		
		Spanish (Laun America), Turkish, Okral	ılıalı	
Software Application	<u> </u>			
Software Application	s	GV-VMS (V17 4 8 / V18 3 5 or later no	itch files required) GV-Control Center (V// 2.1.0 c	
Software Application Software Supported			atch files required), GV-Control Center (V4.2.1.0 of 2.3.0 or later), GV-Recording Server (V2.1.1 or the Utility (V9.0.4 or later)	
		later), GV-Edge Recording Manager (V2	2.3.0 or later), GV-Recording Server (V2.1.1 or ce Utility (V9.0.4 or later)	

Note:

1. To avoid affecting IR or white LED performance, follow the cleaning guidelines below.



- Do not touch or wipe the dome cover surface directly during installation or use, as acidic sweat may corrode the coating and degrade image quality.
- Remove dust with an oil-free soft brush or a hair dryer. For smudges, gently wipe from the center outward with an oil-free
 cotton cloth or detergent-soaked paper. Always use a dry, soft cloth when wiping, and replace the cloth and repeat if
 needed.
- Avoid using hard materials or alkaline cleaners, as they may damage the surface.
- 2. All specifications are subject to change without notice.

Packing List

- 1. GV-GDRF4800 Mini Dome
- 2. Waterproof Rubber Set
- 3. Screw Kit

- 4. Drill Template Paster
- 5. Download Guide

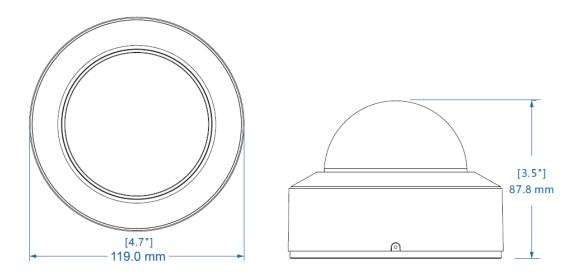
Accessories

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-Mount211-8 (must be used with Mount515)	Wall Mount Bracket		Dimensions: 188.4 x 121 x 137.3 mm (7.41 x 4.76 x 5.4 in) Weight: 0.52 kg (1.15 lb)	
GV-Mount314 (must be used with Mount211-8)	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-Mount470 (must be used with Mount211-8)	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-Mount515	Junction Box		Dimensions: 117.9 x 143.3 x 39 mm (4.64 x 5.64 x 1.54 in) Weight: 0.24 kg (0.53 lb)	
GV-PA191	PoE Adapter	© Cedition COMMING	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	tal	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.		

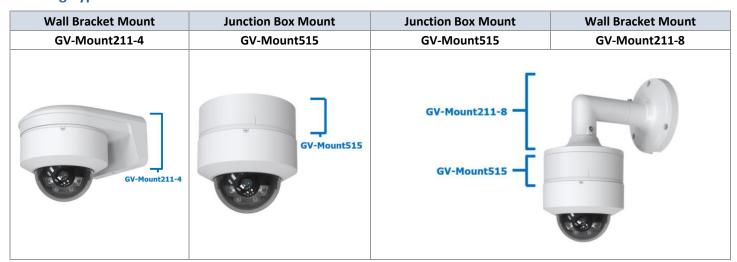
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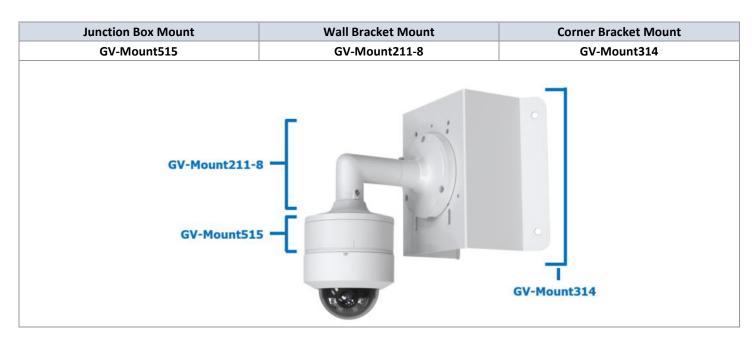


Dimensions



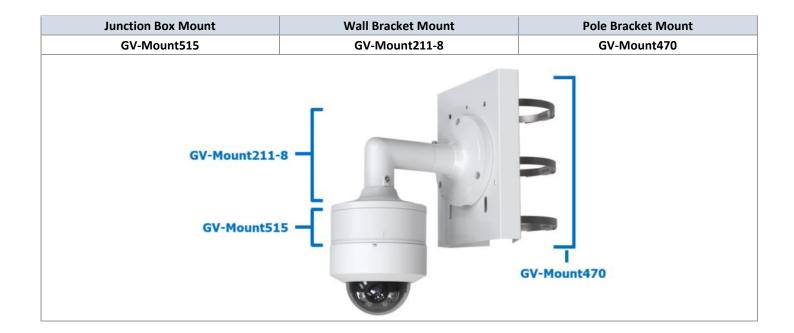
Mounting Type





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