

GV-GDR2801 AI 2MP H.265 Super Low Lux WDR Pro IR Mini Fixed Rugged IP

Dome





- Al deep learning: Smart Perimeter Protection & Classification (Human, Vehicle)
- 1/2.8" progressive scan CMOS sensor
- Min. illumination at 0.008 lux
- Triple streams from H.265, H.264 or MJPEG
- Up to 30 fps at 1920 x 1080
- Intelligent IR
- Wide Dynamic Range Pro (WDR Pro)
- IR distance up to 30 m (100 ft)
- One-way audio capable
- 3-axis mechanism (pan / tilt / rotate)
- Built-in microSD card slot (SDHC / SDXC / SDXC) for local storage
- Ingress protection (IP67)
- Vandal resistance (IK10 for metal casing)
- DC 12V / PoE (IEEE 802.3af)
- Al analytics (Line Crossing, Region Intrusion)
- 3D noise reduction
- Motion detection
- Text overlay
- Privacy mask
- 21 languages supported
- ONVIF (Profile G, S, T, M) conformant

Introduction

GV-GDR2801 is a 2 MP outdoor mini fixed rugged IP Dome. The camera supports H.265 video codec to achieve a better compression ratio while maintaining high-quality pictures at reduced network bandwidth. GV-GDR2801 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-GDR2801-2F	Fixed	2.8 mm	107°	F/1.6	1/2.8"
GV-GDR2801-3F		3.6 mm	89°		

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Deep Learning Function

AI Perimeter Protection

(Line Crossing, Region Intrusion)



Specifications

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Camera					
Image Sensor		1/2.8" progressive	scan CMOS		
Picture Elements		1920 (H) x 1080 (\	<u>')</u>		
Minimum	Color	0.008 Lux (F1.6, A	GC ON)		
Illumination	IR On	0 Lux			
Shutter Speed		Auto / Manual (1/	3 ~ 1/100000 sec)		
White Balance		Automatic, Manua			
Gain Control		Automatic, Manua			
S/N Ratio		50 dB			
WDR Pro		Yes			
Dynamic Range		120 dB			
Lens		GV-GDR2801-2F		GV-GDR2801-3F	
Megapixel		2 MP			
Day / Night		Yes (with remove	able IR-cut filter)		
Lens Type		Fixed			
Focal Length		2.8 mm		3.6 mm	
Maximum Apertur	re	F/1.6			
Mount		M12			
	Horizontal	107°	107° 89°		
FOV	Vertical	56°		47.5°	
	Diagonal	126°		104°	
	Focus	Fixed			
Operation	Zoom	Fixed			
	Iris	Fixed			
10.150	Quantity	1 IR LED			
IR LED	Max. IR Distance	30 m (100 ft)			
DORI		Detect	Observe	Recognize	Identify
	2.8 mm	41 m (134.5 ft)	16 m (52.4 ft)	8 m (26.2 ft)	4 m (13.1 ft)
Lens	3.6 mm	50 m (164.0 ft)	20 m (65.6 ft)	10 m (32.8 ft)	5 m (16.4 ft)
Operation					
Video Compressio	n	H.265, H.265+, H.	264, H.264+, MJPE	j	
Video Streaming		Triple streams from H.265, H.264 or MJPEG			
	Main Stream	1920 x 1080 (default), 1280 x 720			
Video Resolution	Sub Stream	704 x 480, 704 x 576, 640 x 480, 640 x 360 (default), 352 x 240, 352 x 288			
	Third Stream	704 x 480 (default	704 x 480 (default), 704 x 576, 480 x 240, 352 x 240, 352 x 288		
Frame Rate		30 fps at 1920 x 1080, 1280 x 720, 704 x 480, 640 x 480, 640 x 360, 352 x 240 (60 Hz) 25 fps at 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480, 640 x 360, 352 x 288 (50 Hz)			
		* The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).			

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Maximum Throu	ghput	36 Mbps		
Maximum Streams * When the total bitrate is within the maximum throughput		6 users		
Smart Alarm		Motion Detection, SD Card Error, SD Card Full, IP Address Conflict, Cable Disconnection, Scene Change Detection, Video Blur Detection, Abnormal Color Detection		
Video Analytics		Motion Detection, Object Abandoned / Missing Detection, Video Exception		
Image Setting		Brightness, Contrast, Hue, Saturation, Sharpness, 3D Noise Reduction, BLC, Antiflicker, White Balance, Shutter, Gain, Image Orientation (Flip, Mirror, 0°, 90°, 180°, 270°– including Corridor format)		
Audio Compress	ion	G.711		
Audio Support		One-way Audio (external microphone required)		
Deep Learning Fu	nction			
Al Analytics		Line Crossing, Region Intrusion *The two functions can only be enabled one at a time		
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		0.0550		
Camera Angle	Pan	0 ~ 355°		
Adjustment	Tilt	0 ~ 70°		
	Rotate	0 ~ 355°		
	Power	DC Jack		
	Ethernet	RJ-45		
		Built-in microphone No		
		External microphone required Yes (Audio jack, 3.5 mm)		
		Built-in speaker No		
Connectors	Audio	External speaker required No		
		* For devices with microphone or speaker, choose either the built-in or external option.		
		* If equipped with an Audio In port, it only supports microphones with power supply.		
	N/A	Digital I/O		
	Local Storage	microSD card slot (SD / SDHC / SDXC), up to 256 GB		
General				
Operating Temp	erature	-30°C ~ 60°C (-22°F ~ 140°F)		
Humidity		0 ~ 95% (no condensation)		
Power Source		DC 12V, 1A / PoE (IEEE 802.3af)		
Max. Power Con	sumption	4 W		
Dimensions		Ø110 × 83 mm (Ø 4.3" × 3.3")		
Weight		0.5 kg (1.10 lb)		
Ingress Protection	n	IP67		
Vandal Resistand	ce	IK10 for metal casing		
Certification		CE, FCC, RoHS, UKCA compliant		
Web Interface				
Installation Man	agement	Web-based configuration		
Maintenance		Firmware upgrade through Web Browser or GV-IP Device Utility		
Access from Wel	o Browser	Live View, Playback, Video Recording, Image Quality, Bandwidth Control, Image, Snapshot, Digital Zoom, Text Overlay, Image Masking, Intelligent Mark		
Access from Wei		Czech, Dutch, English, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Spanish (LA), Traditional Chinese, Turkish, Ukrainian		
Language				
	tions			
Language				

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Live Viewing	Web Browser (Edge 120.0.2210.121, Chrome 120.0.6099.200, Firefox 121.0, Safari 11)
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Note:

- 1. Industrial-grade microSD cards are recommended to avoid event recording writing failure.
- 2. All specifications are subject to change without notice.

Packing List

- 1. GV-GDR2801 Mini Dome
- 2. Waterproof Rubber Set
- 3. Screw Kit

- 4. Drill Template Paster
- 5. Hex Key
- 6. Download Guide

Accessories

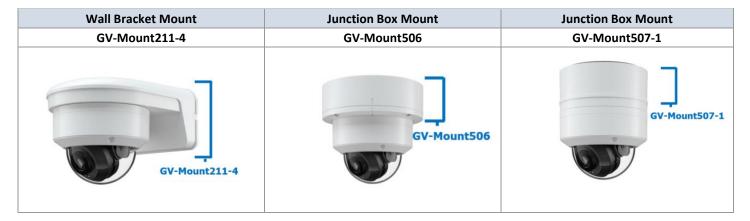
Model No.	Name		Details
GV-Mount211-4	Wall Mount Bracket		Dimensions: 129.8 x 154.9 x 74.4 mm (5.11" x 6.1" x 2.93") Weight: 0.527 kg (1.16 lb)
GV-Mount211-6 (must be used with Mount506)	Wall Mount Bracket		Dimensions: 199 x 139.3 x 140.8 mm (7.83" x 5.48" x 5.54") Weight: 0.56 kg (1.23 lb)
GV-Mount314 (must be used with Mount211-6)	Corner Mount Bracket		Dimensions: 215x121.4x215mm (8.46" x 4.78" x 8.46") Weight: 2.05 kg (2.31lb)
GV-Mount470 (must be used with Mount211-6)	Pole Mount Bracket		Dimensions: 163.3 x 54.5 x 215mm (6.48" x 2.15" x 8.47") Weight: 1.1 kg (2.43 lb)
GV-Mount506	Junction Box		Dimensions: 139.3 x 171.6 x 50 mm (5.48" x 6.76" x 1.97") Weight: 0.51 kg (1.13 lb)
GV-Mount507-1	Junction Box		Dimensions: Ø 111.7 x 55 mm (Ø 4.40" x 2.17") Weight: 0.332 kg (0.73 lb)
GV-PA191	PoE Adapter	C C Gealliston Power Prid: 10300	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.

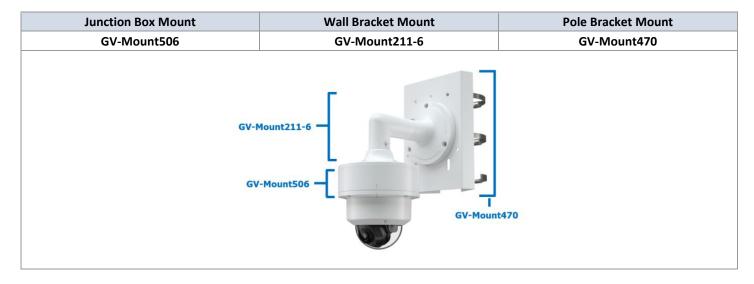
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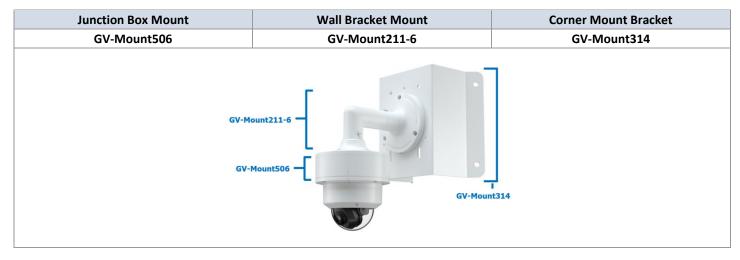


GV-POE Switch	GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports.
Power Adapter	Contact our sales representatives for the countries and areas supported.

Mounting Type







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Dimensions

