

GV-GFER6900 Cloud AI 6MP H.265 Super Low Lux WDR Pro IR Fisheye Rugged IP Camera





Introduction

GV-GFER6900 is a 6 MP outdoor fisheye camera that allows you to monitor all angles of a location and can be installed on the ceiling or the wall. The camera supports H.265 video codec to achieve a better compression ratio while maintaining high-quality images at reduced network bandwidths. The camera adheres to IP67 and IK10 standards and can be powered through PoE. Furthermore, the camera has the capability to conduct on-edge fisheye dewarping, eliminating the need to utilize recourses from the backend devices.

Empowered by deep learning algorithms, AI technology distinguishes humans and vehicles from other moving objects. When integrated with GeoVision Video Management Software (VMS), it supports AI perimeter protection, real-time alerts, events 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.

Key Features

- Direct-to-Cloud
- Al deep learning: Al Perimeter Protection & Classification (Human, Vehicle)
- 1/2.5" progressive scan CMOS sensor
- Min. illumination at 0.01 lux
- Triple streams from H.265, H.264, or MJPEG
- Up to 30 fps at 3200 x 1800
- Wide Dynamic Range Pro (WDR Pro)
- Day / Night functionality (with removable IR-cut filter)
- Intelligent IR
- IR distance up to 20 m (66 ft)
- Two-way audio capable
- · Built-in microphone
- Built-in microSD card slot (SD / SDHC / SDXC) for local storage
- DC 12V / PoE (IEEE 802.3af)
- Ingress protection (IP67)
- Vandal resistance (IK10)

- 360° and 180° panorama view
- GV-Center V2 connection
- Al analytics (Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Heat Map, Crowd Density)
- Defog
- 3D noise reduction
- · Motion detection
- Virtual PTZ function
- Auto Pan function
- Text overlay
- Privacy mask
- 19 languages supported
- ONVIF (Profile G, S) conformant

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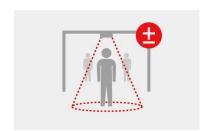
Deep Learning Function

AI Perimeter Protection

(Intrusion, Crossing Line, Entering Area, Leaving Area)



People Flow Counting



Specifications

Specification							
Camera							
Image Sensor		1/2.5" progressiv	1/2.5" progressive scan CMOS				
Picture Elements		3200 (H) x 1800	(V)				
	Color	0.01 Lux (F2.0, A	0.01 Lux (F2.0, AGC ON)				
Minimum Illumination	B/W	0 Lux					
	IR On	0.1 Lux					
Shutter Speed	<u></u>	Auto / Manual (1	./3 ~ 1/100000 sec)				
White Balance		Auto / Manual					
Gain Control		Auto / Manual					
S/N Ratio		50 dB					
WDR Pro		Yes					
Dynamic Rang	ge	120 dB					
Lens							
Megapixel		6 MP					
Day/Night		Yes (with remova	ble IR-cut filter)				
Lens Type		Fixed					
Focal Length		1.65 mm	1.65 mm				
Maximum Ap	erture	F/2.0					
Mount		M12					
Image Format	t	1/2.5"	1/2.5"				
	Horizontal	180°					
FOV	Vertical	180°					
	Diagonal	180°	180°				
	Focus	Fixed					
Operation	Zoom	Fixed	Fixed				
	Iris	Fixed					
	Quantity	4 IR LEDs	4 IR LEDs				
IR LED	Max. IR Distance	20 m (66 ft)					
DORI		Detect	Observe	Recognize	Identify		
Lens	1.65 mm	33 m (108.2 ft)	13.1 m (42.9 ft)	6.6 m (21.6 ft)	3.3 m (10.8 ft)		
Operation							
Video Compre	ession	H.265, H.265+, H	H.265, H.265+, H.264, H.264+, MJPEG				
Video Stream	ing	Triple streams from H.265, H.264, or MJPEG					
Frame Rate		Max. 30 fps (60 Hz) / 25 fps (50 Hz) at 3200 x 1800, 2160 x 2160, 1920 x 1080, 1440 x 1440, 1280 x 720, 1080 x 1080, 960 x 960, 720 x 720, 640 640, 640 x 360, 480 x 480, 360 x 360					
rame nate		Max. 20 fps (50 & 60 Hz) at 2560 x 1440					
			* The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).				
Maximum							
Throughput							



Maximum Streat When the tot throughput		within the maximum	10 * By default, 2 connections are occupied whether connected to GV-Cloud VMS or not.		
Video Analytics	;		Motion Detection		
Smart Alarm	Smart Alarm		Motion Detection, SD Card Error, SD Card Full, IP Address Conflict, Cable Disconnection		
Image Settings			Brightness, Contrast, Hue, Saturation, Sharpness, 3D Noise Reduction, Defog, BLC, Antiflicker, Smart IR, Image Orientation (Flip, Mirror, 0°, 180°)		
	1: Fisheye		Fisheye View		
Stream Mode & Supported	2: Panora	amic View	Panoramic View (Ceiling / Desktop: 180° x 2, Wall: 360°)		
	3: Fisheye + Panoramic View + 3 PTZ		Fisheye View, Panoramic View (Ceiling / Desktop: 180° x 2, Wall: 360°), Fisheye View + PTZ x 3, Panoramic View (Ceiling / Desktop: 180° x 2, Wall: 360°) + PTZ x 3		
Live Preview	4: Fishey	e + 4 PTZ	Fisheye View, PTZ x 4		
	5: Fisheye + 4 PTZ Fusion		Fisheye View, 4 PTZ Fusion		
Installation	Ceiling Mount		Fisheye View, 180° Panoramic View x 2, Fisheye View + PTZ x 3, 180° Panoramic View x 2 + PTZ x 3, PTZ x 4, 4 PTZ Fusion		
Method & Supported	Wall Mount		Fisheye View, 360° Panoramic View, Fisheye View + PTZ x 3, 360° Panoramic View + PTZ x 3, PTZ x 4, 4 PTZ Fusion		
Live Preview	Desktop	Mount	Fisheye View, 180° Panoramic View x 2, Fisheye View + PTZ x 3, 180° Panoramic View x 2 + PTZ x 3, PTZ x 4, 4 PTZ Fusion		
Audio Compres	sion		G.711		
Audio Support			Two-way audio (external speaker required)		
Digital I/O	Input		1 input, dry contact, NO / NC		
	Output		1 relay output (DC 30V, 1A / AC 125V, 0.3A)		
Video Resolution	n	e: 1	2452 2452 (1.5 14) 4442 4222 4222		
	Fisheye View Main Report Fishery		2160 x 2160 (default), 1440 x 1440, 1080 x 1080		
	Stream (only in	Panoramic View (Ceiling / Desktop: 180° x 2, Wall: 360°)	3200 × 1800 (default), 2560 x 1440, 1920 × 1080		
	Edge IE - mode) -	PTZ	1280 × 720 (default)		
	modej	4 PTZ Fusion	2560 × 1440 (default)		
	_	Fisheye View	960 × 960 (default), 720 x 720, 480 × 480		
Hardware (On-Edge)	Sub Stream	Panoramic View (Ceiling / Desktop: 180° x 2, Wall: 360°)	1280 x 720 (default), 640 x 360		
Dewarping		PTZ	N/A		
		4 PTZ Fusion	640 x 360 (default)		
	Third Stream	Fisheye View	640 x 640 (default), 360 x 360		
		Panoramic View (Ceiling / Desktop: 180° x 2, Wall: 360°)	1280 x 720 (default), 640 x 360		
		PTZ	N/A		
		4 PTZ Fusion	640 x 360 (default)		
Network			40/400 511		
Interface			10/100 Ethernet		
Protocol			802.1x, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, IPv4, IPv6, NTP, ONVIF (Profile G, S), PPPoE, QoS, RTCP, RTMP, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP		

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Deep Learning	Function			
Al Analytics		Only the following configurations of Stream Modes and Installation Methods enable smart detection events. Configuration 1: Modes: 1, 3, 4, 5 Mounting: Ceiling Functions: Human detection only: Target Counting by Line, Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Crowd Density, Heat Map Configuration 2: Modes: 2, 3 Mounting: Wall or Desktop Functions: Human and vehicle detection: Target Counting by Line, Line Crossing, Region Entrance, Region Exiting, Region Intrusion Human detection only: Crowd Density * A maximum of 1 smart detection event is allowed at a time to ensure comprehensive detection results and optimized performance by the camera. * Once connected to GV-Cloud VMS / GV-Center V2, up to 1 smart		
		detection event is supported.		
Mechanical				
	Power	DC jack, PoE		
	Ethernet	RJ-45		
	RS-485	Half-duplex		
Connectors	Audio	Built-in microphone Yes External microphone required Yes (audio jack, 3.5 mm or 0.14 in) Built-in speaker No External speaker required Yes (audio jack, 3.5 mm or 0.14 in) * Choose either the built-in or external microphone. * The Audio In port only supports microphones with a power supply.		
	Video Output			
		CVBS output (BNC connector x 1)		
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14 in)		
	Local Storage	microSD card slot (SD / SDHC / SDXC), up to 256 GB		
General				
Operating Ten	nperature	-30°C ~ 60°C (-22°F ~ 140°F)		
Humidity		0% ~ 95% (no condensation)		
Power Source		DC 12V / PoE (IEEE 802.3af)		
Max. Power C	onsumption	10 W		
Dimension		Ø 130.6 x 46.3 mm (Ø 5.14 x 1.82 in)		
Weight		516.2 g (1.14 lb)		
Ingress Protec	tion	IP67		
Vandal Resista	ance	IK10		
Certification		CE, FCC, RoHS compliant		
Web Interface				
Installation Management		Web-based configuration		
Maintenance		Firmware upgrade through Web Browser or GV-IP Device Utility Live View, Playback, Image Quality, Video Recording (only in Edge IE		
Access from Web Browser		mode), Image Snapshot, Two-Way Audio (only in Edge IE mode), Digital Zoom, Bandwidth Control, Virtual PTZ, Auto Pan, 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		

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Applications			
Software Supported	GV-VMS (V17.4.8 / V18.3.5 or later, patch files required), GV-Control Center (V4.2.1 or later, patch files required), GV-Edge Recording Manager for Windows (V2.2.8 or later, patch files required), GV-Recording Server (V2.1.1 or later, patch files required), GV-Center V2 (V18.4.1 or later, patch files required), GV-Cloud VMS (V1.2.1 or later), GV-IP Device Utility (V9.0.2 or later)		
Smart Device Access	GV-Eye for iOS (V3.1.0 or later), GV Eye for Android (V3.1.1 or later)		
Live Viewing	Web Browser (Edge, IE mode in Edge, Chrome, Firefox, Safari), Mobile App		

Note:

- 1. To avoid reflected glare by IR LED, keep a minimum distance of 1 m (3.28 ft) between the camera body and nearby walls.
- 2. Using a pendant or corner mount with a fisheye camera may cause IR reflection due to the camera's 360° IR illumination.
- 3. To use GV-Cloud VMS, avoid connecting to other GV-Software at the same time.
- 4. To use GV-Cloud VMS, a microSD card must be installed. Industrial-grade microSD cards are recommended to avoid event recording failures.
- 5. Upon the initial connection of GV-Cloud Camera to GV-Cloud VMS, the Standard Plan will be provided for free for 180 days.
- 6. All specifications are subject to change without notice.

Packing List

- 1. GV-GFER6900
- 2. Waterproof Rubber Set
- 3. Screw Kit

- 4. Drill Template Paster
- 5. Download Guide

Accessories

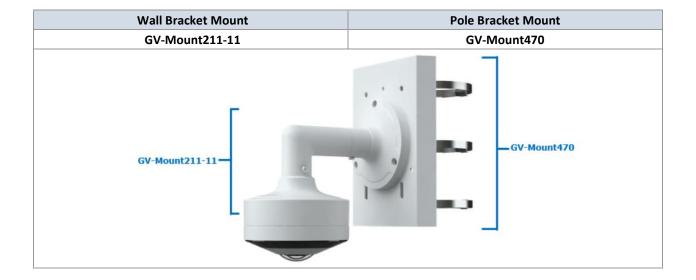
Model No.	Name		Details
GV-Mount112	Pendant Mount	2	Dimensions: Ø 131.1 x 220.7 mm (Ø 5.16 x 8.69 in) Weight: 0.55 kg (1.21 lb)
GV-Mount211-11	Wall Mount Bracket		Dimensions: 194.7 x 165.6 x 131.1 mm (7.67 x 6.52 x 5.16 in) Weight: 0.57 kg (1.26 lb)
GV-Mount470 (must be used with Mount211-11)	Pole Mount 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 Mount211-11)	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-Mount512	Junction Box		Dimensions: 131.0 x 156.9 x 33.0 mm (5.16 x 6.18 x 1.30 in) Weight: 0.24 kg (0.53 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 Etherne (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.	
•		ontact our sales representatives for the countries and areas apported.	

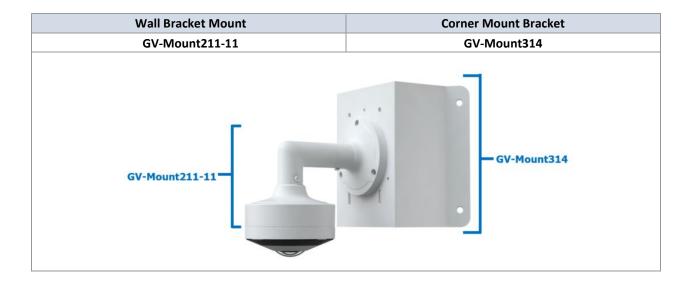
Mounting Type

Pendant Mount	Wall Bracket Mount	Junction Box Mount	
GV-Mount112	GV-Mount211-11	GV-Mount512	
GV-Mount112	GV-Mount211-11	GV-Mount512	



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Dimensions

