

GV-GEBN4800 AI 4MP H.265 Full Color AI-ISP Warm LED WDR Pro Eyeball Dome IP Camera



- AI deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/1.79" progressive scan CMOS sensor
- Triple streams from H.265, H.264 or MJPEG
- Min. illumination at 0.0001 lux
- Up to 30 fps at 2688 x 1520
- AI-ISP for superior noise reduction and vivid color images, day and night
- Smart Warm LED distance up to 30 m (100 ft)
- Wide Dynamic Range Pro (WDR Pro)
- Built-in microphone
- Built-in microSD card slot (SD / SDHC / SDXC) for local storage
- 3-axis mechanism (pan / tilt / rotate)
- Ingress protection (IP67)
- Vandal resistance (IK10 for metal casing)
- DC 12V / PoE (IEEE 802.3af)
- Defog
- 3D noise reduction
- Smart settings (Line Crossing, Region Entrance, Region Exiting, Target Counting, Region Intrusion, Face Detection)
- Motion detection
- Text overlay
- Privacy mask
- 21 languages supported
- ONVIF (Profile G, S, T, M) conformant

Introduction

The Eyeball Dome IP Camera is an outdoor, network camera equipped with AI-ISP and smart warm LEDs for full color surveillance. The camera supports H.265 video codec to achieve better compression ratio while maintaining high quality pictures at reduced network bandwidths. GV-GEBN4800 adheres to IP67 and IK10 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, events playback and more.

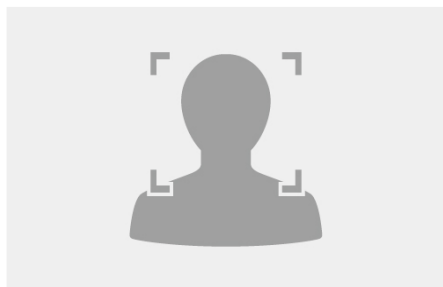
The **AI-ISP** (Artificial Intelligence Image Signal Processor) enhances image quality in low-light scenes by delivering more detail, reducing noise, and minimizing smearing issues. However, it may not perform as expected in completely dark environments. For optimal results, outdoor installation is recommended, where natural ambient light such as moonlight is available.

Models

Model	Iris	Focal Length (mm)	Horizontal FOV	Maximum Aperture	Image Format
GV-GEBN4800-2F	Fixed	2.8 mm	112°	F/1.0	1/1.79"
GV-GEBN4800-3F		3.6 mm	96°		

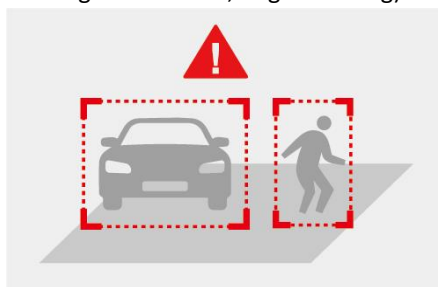
Deep Learning Function

Face Detection

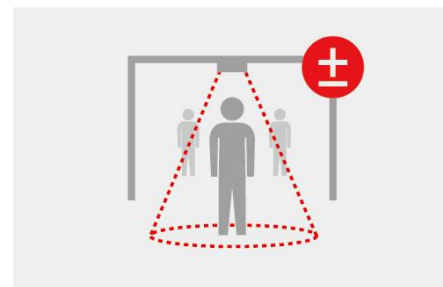


AI Perimeter Protection

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



People Counting



Specifications

Camera					
Image Sensor		1/1.79" progressive scan CMOS			
Picture Elements		2688 (H) x 1520 (V)			
Minimum Illumination	Color	0.0001 Lux (F1.0, AGC ON)			
	B/W	N/A			
	LED 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		GV-GEBN4800-2F		GV-GEBN4800-3F	
Megapixel		4 MP			
Day / Night		Color			
Lens Type		Fixed			
Focal Length		2.8 mm		3.6 mm	
Maximum Aperture		F/1.0			
Mount		M12			
FOV	Horizontal	112°		96°	
	Vertical	61°		51°	
	Diagonal	132°		112°	
Operation	Focus	Auto / Manual			
	Zoom	Fixed			
	Iris	Fixed			
Warm LED Quantity		3 Warm LEDs			
Max. Warm LED Distance		30 m (100 ft)			
DORI		Detect	Observe	Recognize	Identify
Lens	2.8 mm	52 m (170.6 ft)	21 m (68.8 ft)	10 m (32.8 ft)	5 m (16.4 ft)
	3.6 mm	63 m (206.6 ft)	25 m (82.0 ft)	12 m (39.3 ft)	6 m (19.6 ft)
Operation					
Video Compression		H.265, H.265+, H.264, H.264+, MJPEG			
Video Streaming		Triple streams from H.265, H.264 or MJPEG			
Frame Rate		30 fps at 2688 x 1520, 2560 x 1440, 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, 2560 x 1440, 1920 x 1080, 1280 x 720, 704 x 567, 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).					

Maximum Throughput		8 Mbps		
Maximum stream *When the total bitrate is within the maximum throughput		10		
Video Analytics		Motion Detection, Object Abandoned/Missing Detection, Scene Change, Video Blur Detection, Abnormal Color Detection, Audio Exception		
Image Setting		Brightness, Contrast, Hue, Saturation, Sharpness, Defog, Antiflicker, 3D Noise Reduction, Image Orientation (Flip, Mirror, 0°, 90°, 180°, 270°-including Corridor format)		
Audio Compression		G.711		
Audio Support		One-way audio		
Video Resolution				
Main Stream		2688 x 1520 (Default), 2560 x 1440, 1920 x 1080		
Sub Stream		1280 x 720 (Default), 704 x 480, 704 x 567, 640 x 480, 640 x 360, 480 x 240, 352 x 240, 352 x 288		
Third Stream		1280 x 720 (Default), 704 x 480, 704 x 567, 640 x 480, 640 x 360, 480 x 240, 352 x 240, 352 x 288		
Network				
Interface		10/100 Ethernet		
Protocol		802.1x, API, DDNS, DHCP, FTP, HTTP, HTTP POST, HTTPS, IPv4, IPv6, NTP, ONVIF (Profile G, S, T), PPPoE, QoS, RTCP, RTMP, RTP, RTSP, SMTP, SNMP, UDP, UPnP		
Deep Learning Function				
AI Perimeter Protection		Face Event: Face Detection Smart Event: Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting *Face Event and Smart Event can only be enabled one at a time.		
Mechanical				
Camera Angle Adjustment	Pan	0° ~ 360°		
	Tilt	0° ~ 80°		
	Rotate	0° ~ 360°		
Connectors	Power	DC Jack		
	Ethernet	RJ-45		
	Audio	Built-in microphone	Yes	
		External microphone required	Yes (Audio jack, 3.5 mm)	
		Built-in speaker	No	
		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.		
	Digital I/O	N/A		
Local Storage	microSD card slot (SD / SDHC / SDXC), up to 512 GB			
General				
Operation Temperature		-30~ 60°C (-22 ~ 140°F)		
Humidity		0% ~ 95% (no condensation)		
Power Source		DC 12V, 1.5A / PoE (IEEE 802.3af)		
Max. Power Consumption		6.5 W		
Dimensions		Ø 111.6 x 99.3 mm (Ø 4.39" x 3.91")		
Weight		0.62 kg (1.37 lb)		
Ingress Protection		IP67		
Vandal Resistance		IK10 for metal casing		
Certification		CE, FCC, RoHS compliant		
Web Interface				
Installation Management		Web-based configuration		
Maintenance		Firmware upgrade through Web Browser or GV-IP Device Utility		

Access from Web Browser	Live View, Playback, Video Recording, Image Quality, Bandwidth Control, Image Snapshot, One-way Audio, Digital Zoom, Text Overlay, Image Masking, Intelligent Mark
Language	English, Spanish (Española), Spanish (LA), Italian, Portuguese, Russian, Polish, Hungarian, Romanian, Hebrew, German, French, Dutch, Norwegian, Czech, Turkish, Korean, Japanese, Traditional Chinese, Ukrainian, Greek
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 (V2.3.0 or later, patch files required), GV-Recording Server (V2.1.1 or later, patch files required), GV-IP Device Utility (V9.0.4 or later)
Smart Device Access	GV-Eye for iOS (V3.4.1 or later), GV Eye for Android (V3.4.1 or later)
Live Viewing	Web Browser (Chrome, Edge, Firefox, Safari), Mobile App

Note: All specifications are subject to change without notice.

Packing List

- | | |
|----------------------------|--------------------------|
| 1. GV-GBN4800 Eyeball Dome | 4. Hex Key |
| 2. Waterproof Rubber Set | 5. Drill Template Paster |
| 3. Screw kit | 6. Download Guide |

Accessories

Model No.	Name		Details
Mountt211-4	Wall Mount Bracket		Dimensions: 129.8 x 154.9 x 74.4 mm (5.11 x 6.1 x 2.93 in) 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 in) Weight: 0.56 kg (1.23 lb)
GV-Mount470 (must be used with Mount211-6 or 506)	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-Mount506	Junction Box		Dimensions: 39.3 x 171.6 x 50 mm (5.48 x 2.81 x 1.97") Weight: 0.51 kg (1.13 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	The 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

Wall Mount Bracket	Junction Box	Junction Box	Wall Mount Bracket
MOUNT211-4	GV-Mount506	GV-Mount506	GV-Mount211-6
			

Junction Box	Wall Mount Bracket	Pole Mount Bracket
GV-Mount506	GV-Mount211-6	GV-Mount470
		

Junction Box	Pole Mount Bracket
GV-Mount506	GV-Mount470
	

Dimensions

