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

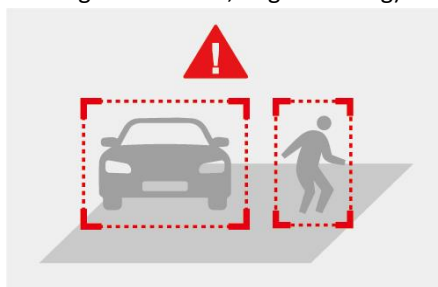| Model	Iris	Focal Length (mm)	Horizontal FOV	Maximum Aperture	Image Format
GV-GEBN4800-2F	Fixed	2.8 mm	112°	F/1.0	1/1.79"
GV-GEBN4800-3F		3.6 mm	96°		

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Deep Learning Function
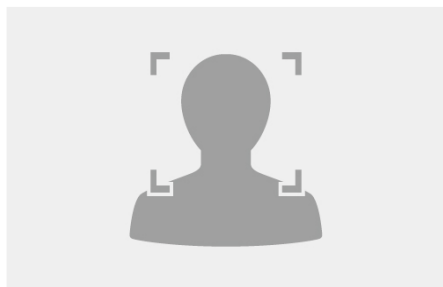
Face Detection	AI Perimeter Protection (Region Intrusion, Line Crossing, Region Entrance, Region Exiting)	People Counting
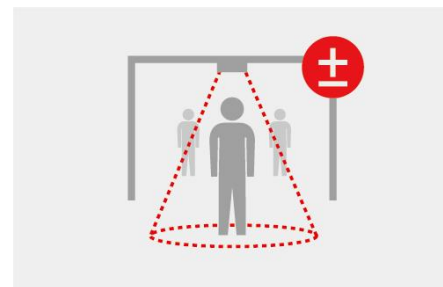
Specifications

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, Video Exception Detection (Abnormal Color Detection, Scene Change, Video Blur), Object Abandoned/Missing Detection
Smart Alarm	Audio Exception, Cable Disconnection, IP Address Conflict, SD Card Error, SD Card Full
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, 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),
art 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-GEBN4800 Eyeball Dome
2. Waterproof Rubber Set
3. Screw kit
4. Hex Key
5. Drill Template Paster
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

111.6 mm [4.4"]

99.6 mm [3.9"]