GV-EBDP8800 AI 180° Panoramic 8MP H.265 Super Low Lux WDR Pro IR Eyeball Dome IP Camera



- AI deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/2.7" progressive scan super low lux CMOS sensor
- Min. illumination at 0.01 lux
- Triple streams from H.265, H.264 or MJPEG
- Up to 30 fps at 3840 x 2160
- Intelligent IR
- IR distance up to 20 m (65 ft)
- Day and night function (with removable IR-cut filter)
- 180° panoramic view
- Ingress protection (IP67)
- Vandal resistance (IK10 for metal casing)
- 3-axis mechanism (pan / tilt / rotate)
- DC 12V / PoE (IEEE 802.3af)
- Built-in microSD card slot (SD / SDHC / SDXC) for local storage
- Built-in microphone
- Wide Dynamic Range Pro (WDR Pro)
- AI analytics (Intrusion, Crossing Line, Entering Area, Leaving Area)
- 3D noise reduction
- Motion Detection
- Tampering Alarm
- Defog
- Text Overlay
- Privacy Mask
- 12 languages supported
- ONVIF (Profile G, S, T, M) conformant

Introduction

The panoramic eyeball IP camera is an outdoor, network camera that captures 180° horizontal coverage, providing a wide coverage of view for open and large areas with just one camera. It is equipped with an automatic IR-cut filter and IR LEDs for day and night surveillance. GV-EBDP8800 adheres to IK10 and IP67 standards, and can be powered through PoE. The camera supports H.265 video codec to achieve better compression ratio while maintaining high quality pictures at reduced network bandwidths.

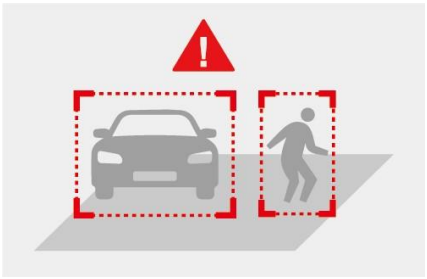
Empowered by deep learning algorithms, AI technology distinguishes human and vehicles from other moving objects. Integrated with GeoVision Video Management Software (VMS), it supports AI perimeter protection, real time alert, events playback and more.

180 Degree Panoramic View



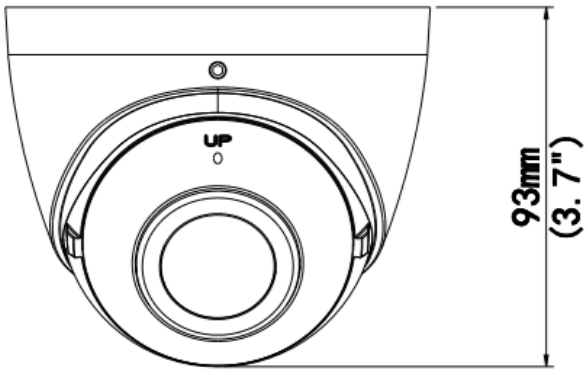
Deep Learning Function

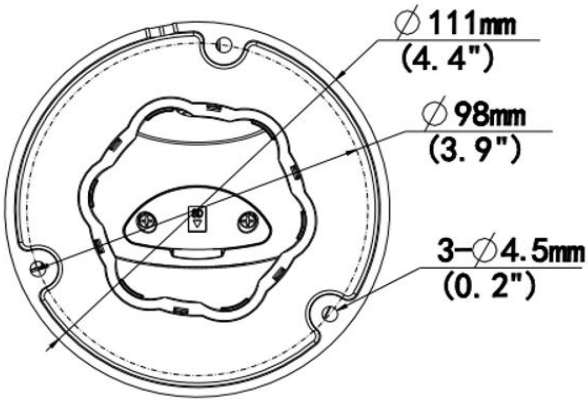
AI Perimeter Protection



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

Dimensions





Specifications

Camera		
Image Sensor		1/2.7” progressive scan CMOS
Picture Elements		3840 (H) x 2160 (V)
Minimum Illumination	Color	0.01 Lux (F2.0, AGC ON)
	IR On	0 Lux

Shutter Speed		Auto / Manual (1 ~ 1/100000 sec)
White Balance		Auto / Manual
Gain Control		Auto / Manual
S/N Ratio		52 dB
WDR Pro		Yes
Dynamic Range		120 dB
Lens		
Megapixel		8 MP
Day/Night		Yes (with removable IR-cut filter)
Focal Length		1.68 mm
Lens Type		Fixed
Maximum Aperture		F/2.0
Mount		Ø12 mm
FOV	Horizontal	180°
	Vertical	100°
	Diagonal	180°
Operation	Focus	Fixed
	Zoom	Fixed
	Iris	Fixed
IR LED Quantity		2 IR LEDs
Max. IR Distance		20 m (65 ft)

DORI		**Detect**	**Observe**	**Recognize**	**Identify**
Lens	1.68 mm	37.8 m (124.0 ft)	15.1 m (49.6 ft)	7.6 m (24.8 ft)	3.8 m (12.4 ft)

Operation		
Video Compression		H.265, H.264, MJPEG
Video Streaming		Triple streams
Video Resolution	Main Stream	3840 x 2160 (Default), 3072 x 1728, 2560 x 1440, 1920 x 1080
	Sub Stream	1280 x 720, 720 x 576, 640 x 480, 640 x 360 (Default), 704 x 288, 352 x 288
	Third Stream (Closed by Default)	640 x 360, 352 x 288
Frame Rate		30 fps at 3840 x2160, 3072 x 1728, 2560 x 1440, 1920 x 1080 (50/60 Hz) *The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).
Maximum Throughput		50 Mbps
Maximum Streams *When the total bitrate is within the maximum throughput		20
Video Analytics		Motion Detection, Audio Alarm, Tamper Detection. *Tampering detection and audio alarm are only accessible through the camera's Web interface, which can be used to trigger alerts such as e-mail and FTP
Image Setting		Brightness, Contrast, Saturation, Sharpness, Flicker-less, 3D Noise Reduction, Image Orientation (Flip, Mirror, 0°, 180°).
Audio Compression		G.711
Audio Support		One-way audio
Deep Learning Function		
AI Analytics		Human & Vehicle classification: Intrusion, Crossing Line, Entering Area, Leaving Area
Network		
Interface		10/100 Ethernet
Protocol		802.1X authentication (EAP-TLS, EAP-MD5), IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, PPPoE, QoS, IGMP, ONVIF Profile (G, S, T, M)
Mechanical		
Camera Angle Adjustment	Pan	0° ~ 360°
	Tilt	0° ~ 75°
	Rotate	0° ~ 360°
Connectors	Power	DC Jack, PoE

	Ethernet	RJ-45	
	Audio	Built-in microphone	Yes
		External microphone required	No
		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.	
	Local Storage	microSD card slot (SD / SDHC / SDXC), up to 512 GB	
General			
Operating Temperature		-30°C ~ 60°C (-22°F ~ 140°F)	
Humidity		0 ~ 95% (no condensation)	
Power Source		12 V DC / PoE (IEEE802.3af)	
Max. Power Consumption		7 W	
Dimensions		111 x 93 mm (4.4” x 3.7”)	
Weight		0.49 kg (1.06 lb)	
Ingress Protection		IP67	
Vandal Resistance		IK10 for metal casing	
Certification		CE, FCC, LVD, RoHS, UL compliant	
Web Interface			
Installation Management		Web-based configuration	
Maintenance		Firmware upgrade through Web Browser or Utility	
Access from Web Browser		Live View, Video Recording, Change Video Quality, Bandwidth Control, Image Snapshot, Text Overlay, Image Masking	
Language		Czech, English, French, German, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Traditional Chinese	
Software Applications			
Software Supported		GV-VMS (V17.4.8 or later, patch files required / V18.3.4 / V20.0.0 or later), GV-Control Center (V4.2.1 or later), GV-Edge Recording Manager Windows Version (V2.2.8 or later), GV-Recording Server / Video Gateway (V2.1.1 or later, patch files required), GV-IP Device Utility (V9.0.1 or later)	
Smart Device Access		GV-Eye for iOS and Android (V3.2.0 or later)	
Live Viewing		Browser (IE, Edge, Chrome, Firefox)	

Note:

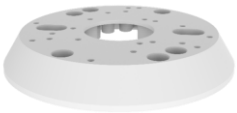
1. Do not use clothes or any ordinary material to clean the camera cover since they may result in scratches.
2. Specifications are subject to change without notice.

Packing List

1. GV-EBDP8800 IR Eyeball Dome
2. Waterproof Rubber Set
3. Screw kit
4. Drill Template Paster
5. Torx Wrench
6. Download Guide

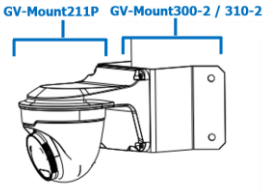
Accessories

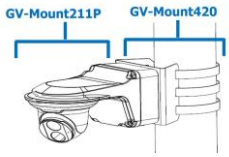
Model No.	Name		Details
GV-Mount107 (must be used with GV-Mount213)	Pendant Bracket		Dimensions: Ø 120 x 334 mm (Ø 4.72” x 13.15”) Weight: 0.74 kg (1.63 lb)
GV-Mount211P	Wall Mount and Junction Box		Dimensions: Ø 233 x 126 x 126 mm (Ø 9.2” x 5” x 5”) Weight: 1 kg (2.2 lb)

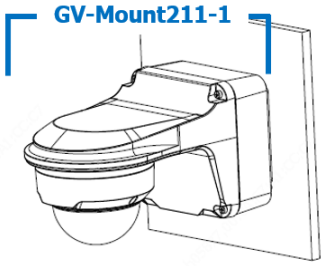
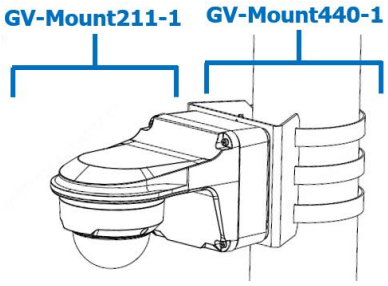
GV-Mount211-1	Wall Mount and Junction Box		Dimensions: 235 x 126.2 x 128.5 mm (9.3” x 5.0” x 5.1”) Weight: 0.84 kg (1.85 lb)
GV-Mount213	Wall / Ceiling Box Mount		Dimensions: Ø 109 x 39 mm (Ø 4.3” x 1.5”) Weight: 0.2 kg (0.44 lb)
GV-Mount300-2 (must be used with GV-Mount211P, GV-Mount211-1, or GV-Mount213)	Convex Corner Mount		Dimensions: 137 x 233 x 160 mm (5.4” x 9.17” x 6.3”) Weight: 1.65 kg (3.64 lb)
GV-Mount310-2 (must be used with GV-Mount211P, GV-Mount211-1, or GV-Mount213)	Concave Corner Mount		Dimensions: 111.2 x 369.9 x 210 mm (2.6” x 11.4” x 6.6”) Weight: 1.65 kg (3.64 lb)
GV-Mount420 (must be used with GV-Mount211P)	Pole Mount Bracket		Dimensions: Ø 120 x 120 x 53.4 mm (Ø 4.7” x 4.7” x 2.1”) Weight: 0.45 kg (0.99 lb) Steel Strap Diameter: Ø 67 ~ 127 mm (Ø 2.6” ~ 5”)
GV-Mount440-1 (must be used with GV-Mount211P or GV-Mount211-1)	Pole Mount Bracket		Dimensions: 136 x 127 x 63.6 mm (5.4” x 5.0” x 2.5”) Weight: 0.34 kg (0.75 lb) Steel Strap Diameter: Ø 67 ~ 127 mm (Ø 2.6” ~ 5”)
GV-Mount704 (must be used with GV-Mount107)	Extension Tube		Dimensions: Ø 3.5 x 10 or 20 or 30 or 50 cm (Ø 1.38 x 3.9 or 7.9 or 11.8 or 19.7”) Weight: 225g or 360g or 500g or 780g (0.5 lb or 0.79 lb or 1.1 lb or 1.72 lb)
GV-Mount924 (for standard US single and double gang boxes only)	Power Box Mount Bracket		Dimensions: Ø 128 x 18.5 mm (Ø 5” x 0.7”) Weight: 0.15 kg (0.33 lb)
GV-PA191	Power over Ethernet (PoE) Adapter		The 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

Pendant Mount		Wall Mount with Junction Box	Convex / Concave Corner Mount	
GV-Mount107 + GV-Mount213	GV-Mount107 + GV-Mount213 + GV-Mount704	GV-Mount211P	GV-Mount211P + GV-Mount300-2	GV-Mount211P + GV-Mount310-2
				

Pole Mount	Wall / Ceiling Box Mount	Power Box Mount
GV-Mount211P + GV-Mount420	GV-Mount213	GV-Mount924
		

Wall Mount with Junction Box	Pole Mount
GV-Mount211-1	GV-Mount211-1 + GV-Mount440-1
	

Convex / Concave Corner Mount	Convex / Concave Corner Mount
GV-Mount211P / 211-1 + GV-Mount300-2 / 310-2	GV-Mount213 + GV-Mount300-2 / 310-2
