GV-EBFC5800   AI 5MP H.265 Super Low Lux WDR Pro Full Color Warm LED Eyeball Dome IP Camera

- AI deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/2.7" progressive scan CMOS sensor
- Triple streams from H.265, H.264 or MJPEG
- Min. illumination at 0.001 lux
- Up to 30 fps at 2880 x 1620
- Full color smart warm LEDs distance up to 30 m (100 ft)
- Wide Dynamic Range Pro (WDR Pro)
- Built-in microphone
- Built-in microSD card slot (SD / SDHC / SDXC / UHS-I) for local storage
- 3-axis mechanism (pan / tilt / rotate)
- Ingress protection (IP67)
- DC 12V / PoE (IEEE 802.3af)
- Defog
- 3D noise reduction
- AI analytics (Intrusion, Cross Line, Enter Area, Leave Area, Face Detection, People Flow Counting, Crowd Density Monitoring)
- Motion detection
- Tampering alarm
- Text overlay
- Privacy mask
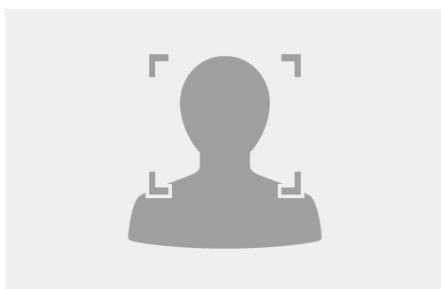- 12 languages supported
- ONVIF (Profile G, S, T, M) conformant

Introduction

The Eyeball Dome IP Camera is an outdoor, network camera equipped with smart warm LEDs for full color surveillance during nighttime. The camera supports H.265 video codec to achieve better compression ratio while maintaining high quality pictures at reduced network bandwidths. GV-EBFC5800 adheres to IP67 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.
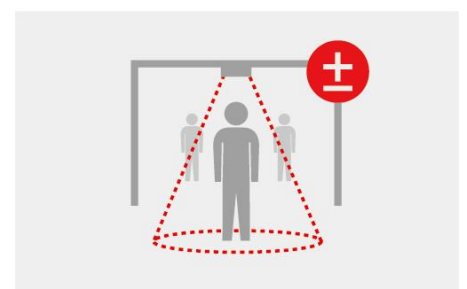
Deep Learning Function
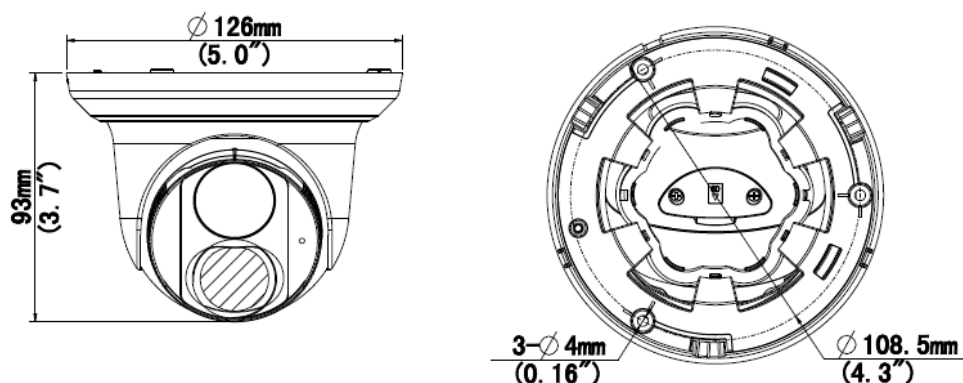
Face Detection	AI Perimeter Protection	People Flow Counting
	(Intrusion, Cross Line Enter Area, Leave Area)	

Dimensions

Specifications

Camera		
Image Sensor		1/2.7" progressive scan CMOS
Picture Elements		2880 (H) x 1620 (V)
Minimum Illumination	Color	0.001 Lux (F1.0, AGC ON)
Shutter Speed		Automatic / Manual (1 ~ 1/100000 sec)
White Balance		Automatic, Manual
Gain Control		Automatic, Manual
S/N Ratio		56 dB
WDR		WDR Pro
Dynamic Range		120 dB

Lens		
Megapixel		5 MP
Day / Night		Color
Lens Type		Fixed
Focal Length		2.8 mm
Maximum Aperture		F/1.0
Mount		M12
Horizontal FOV		102°
Operation	Focus	Fixed
	Zoom	Fixed
	Iris	Fixed
Smart Illumination	LED Quantity	2 Warm LEDs
	Max. LED Distance	30 m (100 ft)

DORI		Detect	Observe	Recognize	Identify
Lens	2.8 mm	63 m (206.7 ft)	25.2 m (82.7 ft)	12.6 m (41.3 ft)	6.3 m (20.7 ft)

Operation		
Video Compression		H.265, H.264, MJPEG
Video Streaming		Triple streams from H.265, H.264 or MJPEG
Video Resolution	Main Stream	2880 x 1620 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720
	Sub Stream	1280 x 720, 720 x 576 (Default), 640 x 480, 640 x 360
	Third Stream (Closed by Default)	640 x 360, 352 x 288
Frame Rate		30 fps at 2880 x 1620, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296, 30 fps at 1920 x 1080, 30 fps at 1280 x 720, 30 fps at 720 x 576, 30 fps at 704 x 288, 30 fps at 640 x 480, 30 fps at 640 x 360, 30 fps at 352 x 288 (60 / 50 Hz) *The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).
Maximum Throughput		40 Mbps
Maximum Stream *When the total bitrate is within the maximum throughput		20

Video Analytics	Motion Detection, Tampering Alarm, Audio Detection. *Tampering alarm and Audio detection 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°, 90°, 180°, 270°-including Corridor format),
Audio Compression	G.711
Audio Support	One-way Audio

Network

Interface	10/100 Ethernet
Protocol	802.1X (including EAP-TLS), ARP, DHCP, DDNS, DNS, DynDNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP, UDP, UPnP, ONVIF (Profile G, S, T, M)

Deep Learning Function

AI Perimeter Protection	Intrusion, Cross Line, Enter Area, Leave Area (Human & Vehicle classification), Face Detection, People Flow Counting, Crowd Density Monitoring

Mechanical

Camera Angle Adjustment	Pan	3° ~ 360°
	Tilt	0° ~ 80°
	Rotate	3° ~ 360°
Connectors	Power	DC 12V, PoE (IEEE 802.3af)
	Ethernet	RJ-45
	Audio	1 In (Built-in microphone)
	Local Storage	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.

General

Environment Temperature	Start-up	-30°C ~ 60°C (-22°F ~ 140°F)
	Operation	
Humidity		0% ~ 95% (no condensation)
Power Source		DC 12V / PoE (IEEE802.3af)
Max. Power Consumption		7.5W
Dimensions		Ø 126 x 93 mm (Ø 5" x 3.7")
Weight		0.44 kg (0.97 lb)
Ingress Protection		IP67
Certification		CE, FCC, 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	Chinese Traditional, Czech, English, French, German, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish

Software Applications

Software Supported	GV-DVR / NVR (V8.9.1), GV-VMS (V17.4.4 / V18.2.1), GV-Control Center (V3.8.0 / V4.0.1), GV-Edge Recording Manager Windows Version (V2.0.0), GV-Recording Server / Video Gateway (V2.0.1), GV-Redundant / Failover Server (V1.2.0), GV-Mobile Server (V1.5.1), GV-AI Guard (V1.0.0)
Live Viewing	Browser (Edge, IE mode in Edge, Chrome, Firefox), Mobile App

Note: All specifications are subject to change without notice.

Packing List

1. GV-EBFC5800 Eyeball Dome
2. Waterproof Rubber Set
3. Screw kit
4. Drill Template Paster
5. Download Guide

Accessories

Model No.	Name		Details
GV-Mount107 (must be used with GV-Mount212P or GV-Mount212-1)	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 125 x 125 mm (Ø 9.2" x 4.9" x 4.9") 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-Mount212P	Wall Box Mount		Dimensions: Ø 126 x 36 mm (Ø 5.0" x 1.4") Weight: 0.22 kg (0.48 lb)
GV-Mount212-1	Wall Box Mount		Dimensions: Ø 126 x 38.5 mm (Ø 5.0" x 1.5") Weight: 0.24 kg (0.53 lb)
GV-Mount300-2	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	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: 225 g or 360 g or 500 g or 780 g (0.5 lb or 0.79 lb or 1.1 lb or 1.72 lb)
GV-PA191	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.

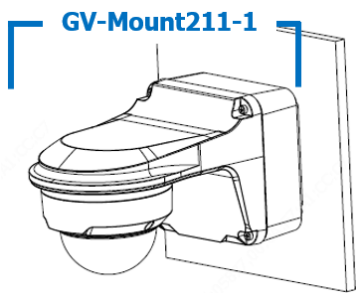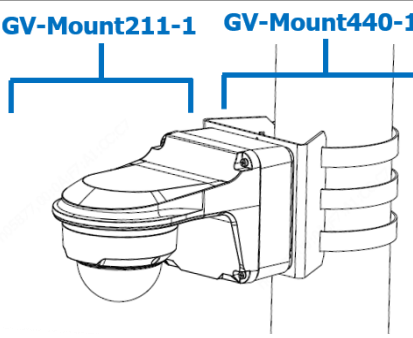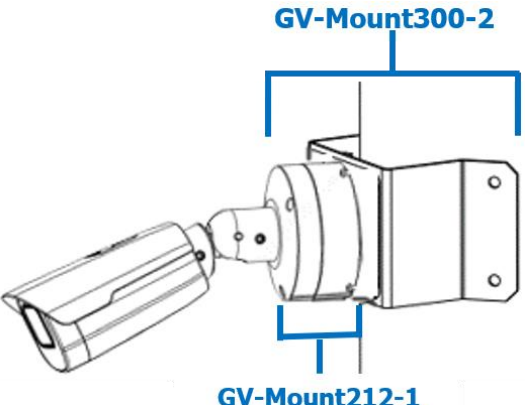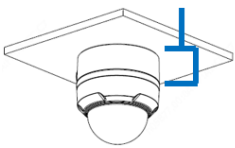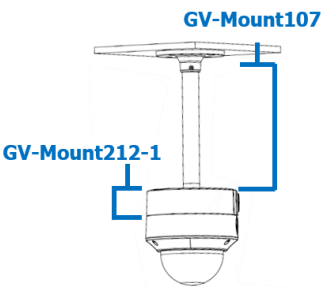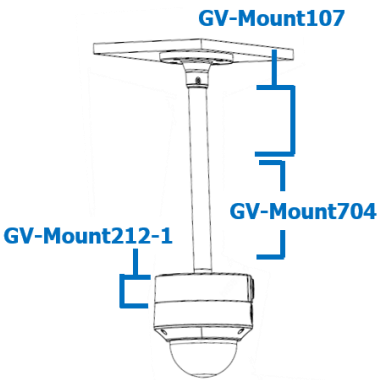| GV-PA301	Gigabit PoE Adapter		GV-PA301 is a Gigabit Power over Ethernet (PoE) adapter.
GV-POE Switch			The GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports.
Power Adapter			Contact our sales representatives for the countries and areas supported.
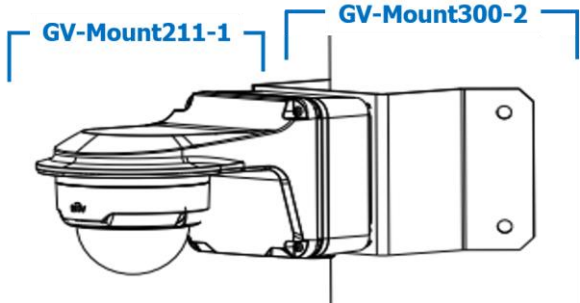
Mounting Type

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

Convex Corner Mount	Concave Corner Mount
GV-Mount300-2	GV-Mount310-2

Convex / Concave Corner Mount	Convex / Concave Corner Mount
GV-Mount211P / 211-1 + GV-Mount300-2 / 310-2	GV-Mount212P / 212-1 + GV-Mount300-2 / 310-2

Wall Box Mount	Pendant Bracket Mount	Pendant Bracket Mount with Extension Tube
GV-Mount212-1	GV-Mount212-1 + GV-Mount107	GV-Mount212-1 + GV-Mount704 + GV-Mount107