GV-GBLF2802 AI 2MP H.265 Super Low Lux WDR Pro Full Color Warm LED IR Bullet IP Camera

- AI deep learning: Smart Perimeter Protection & Classification (Human, Vehicle)
- 1/2.8" progressive scan CMOS sensor
- Min. illumination at 0.008 lux
- Triple streams from H.265, H.264 or MJPEG
- Up to 30 fps at 1920 x 1080
- Smart warm LED distance up to 30 m (100 ft)
- Intelligent IR
- Wide Dynamic Range Pro (WDR Pro)
- IR distance up to 30 m (100 ft)
- Built-in microphone
- Built-in microSD card slot (SDHC / SDXC / UHS-I, Class 10) for local storage
- Ingress protection (IP67)
- Vandal resistance (IK10 for metal casing)
- DC 12V / PoE (IEEE 802.3af)
- 3D noise reduction
- AI analytics (Line Crossing, Region Intrusion)
- Smart lighting switch between IR LED (for motion detection) and Warm LED (for people, vehicle and motorcycle detection)
- Motion detection
- Text overlay
- Privacy mask
- 19 languages supported
- ONVIF (Profile G, S, T, M) conformant

Introduction

GV-GBLF2802 is a 2 MP outdoor bullet IP camera, equipped with smart warm LED for full color surveillance during nighttime. The camera supports H.265 video codec to achieve a better compression ratio while maintaining high-quality pictures at reduced network bandwidth. GV-GBLF2802 adheres to IP67 and IK10 standards and can be powered through PoE.
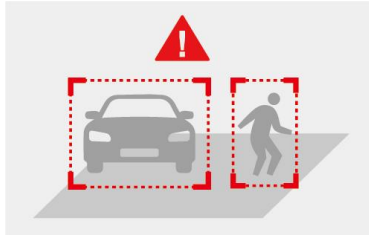
Empowered by deep learning algorithms, AI technology distinguishes humans and vehicles from other moving objects. Integrated with GeoVision Video Management Software (GV-VMS), it supports AI perimeter protection, real-time alert, playback, and more.

Models

Model	Iris	Focal Length (mm)	Horizontal FOV	Maximum Aperture	Image Format
GV-GBLF2802-2F	Fixed	2.8 mm	107°	F/1.6	1/2.8"
GV-GBLF2802-3F		3.6 mm	89°		

Deep Learning Function

AI Perimeter Protection
(Line Crossing, Region Intrusion)

Specifications

Camera		
Image Sensor		1/2.8" progressive scan CMOS
Picture Elements		1920 (H) x 1080 (V)
Minimum Illumination	Color	0.008 Lux (F1.6, AGC ON)
	IR On	0 Lux
Shutter Speed		Auto / 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-GBLF2802-2F	GV-GBLF2802-3F
Megapixel		2 MP	
Day / Night		Yes (with removable IR-cut filter)	
Lens Type		Fixed	
Focal Length		2.8 mm	3.6 mm
Maximum Aperture		F/1.6	
Mount		M12	
Horizontal FOV		107°	89°
Operation	Focus	Fixed	
	Zoom	Fixed	
	Iris	Fixed	
IR LED	Quantity	1 IR LED	
	Max. IR Distance	30 m (100 ft)	
Smart Illumination	LED Quantity	1 Warm LED	
	Max. LED Distance	30 m (100 ft)	

DORI		Detect	Observe	Recognize	Identify
Lens	2.8 mm	41 m (134.5 ft)	16 m (52.4 ft)	8 m (26.2 ft)	4 m (13.1 ft)
	3.6 mm	50 m (164.0 ft)	20 m (65.6 ft)	10 m (32.8 ft)	5 m (16.4 ft)

Operation		
Video Compression		H.265, H.265+, H.264, H.264+, MJPEG
Video Streaming		Three streams
Video Resolution	Main Stream	1920 x 1080 (Default), 1280 x 720
	Sub Stream	704 x 480, 704 x 576, 640 x 480, 640 x 360 (Default), 352 x 240, 352 x 288
	Third Stream	704 x 480 (Default), 704 x 576, 480 x 240, 352 x 240, 352 x 288
Frame Rate		30 fps at 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 352 x 240 (60 Hz)
		25 fps at 1920 x 1080 / 1280 x 720 / 704 x 576 / 640 x 480 / 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	AI off	64 Mbps
	AI on	12 Mbps

Maximum Stream * When the total bitrate is within the maximum throughput	6	
Video Analytics	Motion Detection, Object Abandoned / Missing Detection, Video Exception	
Smart Alarm	Motion Detection, SD Card Error, SD Card Full, IP Address Conflict, Cable Disconnection, Scene Change Detection, Video Blur Detection, Video Cast Detection	
Image Setting	Brightness, Contrast, Hue, Saturation, Sharpness, 3D Noise Reduction, BLC, Antiflicker, White Balance, Shutter, Gain, Image Orientation (Flip, Mirror, 0°, 90°, 180°, 270° – including Corridor format)	
Audio Compression	G.711	
Audio Support	One-way audio	

Deep Learning Function

AI Analytics	Line Crossing, Region Intrusion *The two functions can only be enabled one at a time.	

Network

Interface	10/100 Ethernet	
Protocol	802.1x, DDNS, DHCP, FTP, HTTP POST, HTTP, HTTPS, IPv4, IPv6, NTP, ONVIF (Profile G, S, T, M), PPPoE, QoS, RTCP, RTMP, RTP, RTSP, SMTP, SNMP, UDP, UPnP	

Mechanical

Camera Angle Adjustment	Pan	0 ~ 360°	
	Tilt	0 ~ 80°	
	Rotate	0 ~ 360°	
Connectors	Power	DC jack, PoE	
	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 a 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	Micro SD card slot (SDHC / SDXC / UHS-I, Class 10) * UHS-II card type is not supported.	

General

Operating Temperature	-30°C ~ 60°C (-22°F ~ 140°F)
Humidity	0 ~ 95% (no condensation)
Power Source	12V DC, 1.5A / PoE (IEEE 802.3af)
Max. Power Consumption	6 W
Dimensions	165.7 × 69 × 69 mm (6.5 × 2.7 × 2.7 in)
Weight	0.45 kg (0.992 lb)
Ingress Protection	IP67
Vandal Resistance	IK10 for metal casing
Certification	CE, FCC, RoHS, UKCA compliant

Web Interface

Installation Management	Web-based configuration
Maintenance	Firmware upgrade through Web Browser or Utility
Access from Web Browser	Live View, Playback, Video Recording, Change Video Quality, Bandwidth Control, Image Snapshot, Digital Zoom, Text Overlay, Image Masking, Intelligent Mark
Language	Hungarian, English, Spanish, Spanish (LA), Italian, Portuguese, Russian, Polish, Romanian, Hebrew, German, French, Dutch, Norwegian, Czech, Turkish, Japanese, Korean, Traditional Chinese

Software Applications

Software Supported	GV-VMS (V17.4.8 with Patch or later, V18.3.4 with Patch or later), GV-Edge Recording Manager (V2.2.8 or later), GV-Control Center (V4.2.1 or later), GV-Recording Server (V2.1.1 with Patch or later)
Smart Device Access	GV-Eye for iOS and Android (V3.2.0 or later)
Live Viewing	Web Browser (Edge 120.0.2210.121, Chrome 120.0.6099.200, Firefox 121.0, Safari 11), Mobile App

Note:
1. Industrial-grade microSD cards are recommended to avoid event recording writing failure.
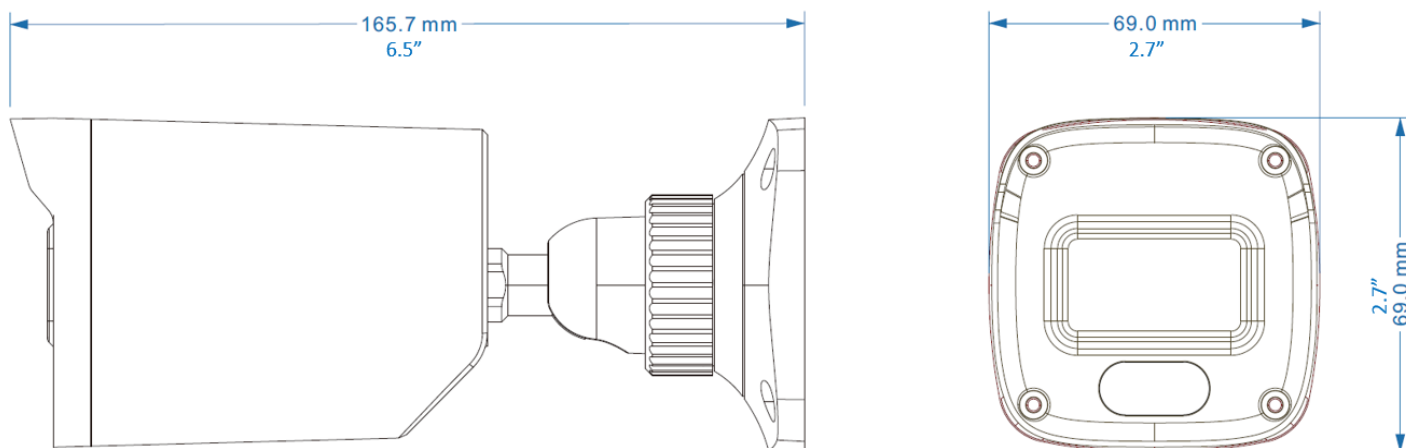2. All specifications are subject to change without notice.

Packing List

1. GV-GBLF2802
2. Waterproof Rubber Set
3. Screw Kit
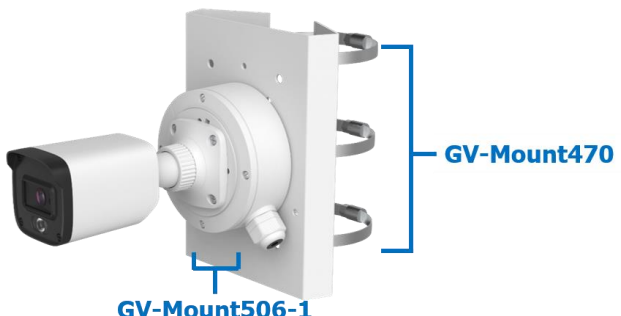4. Drill Template Paster
5. Download Guide

Accessories

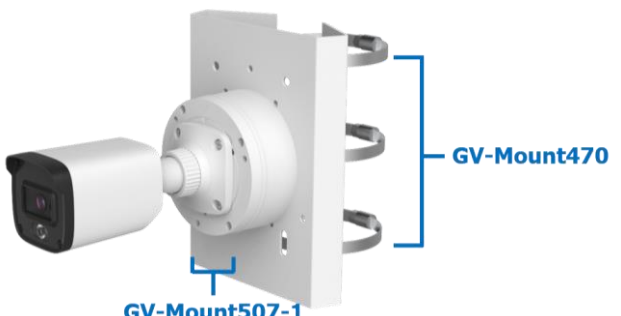| Model No.	Name		Details
GV-Mount211-9 (must be used with Mount507-1)	Wall Mount Bracket		Dimensions: Ø 121 x 148 mm (Ø 4.76 x 5.83 in) Weight: 0.35 kg (0.77 lb)
GV-Mount470 (must be used with Mount211-9, 506-1, or 507-1)	Pole Mount Bracket		Dimensions: 163.3 x 54.5 x 215 mm (6.43 x 2.15 x 8.46 in) Weight: 1.10 kg (2.43 lb)
GV-Mount506-1	Junction Box		Dimensions: 117.9 x 143.3 x 47 mm (4.64 x 5.64 x 1.85 in) Weight: 0.38 kg (0.84 lb)
GV-Mount507	Junction Box		Dimensions: Ø 96 x 38.8 mm (Ø 3.78 x 1.53 in) Weight: 0.16 kg (0.30 lb)
GV-Mount507-1	Junction Box		Dimensions: Ø 111.7 x 55 mm (Ø 4.40 x 2.17 in) Weight: 0.33 kg (0.73 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			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.

Dimensions

Mounting Type

Junction Box Mount	Junction Box Mount	Junction Box Mount	Wall Bracket Mount
GV-Mount506-1	GV-Mount507	GV-Mount507-1	GV-Mount211-9

Junction Box Mount	Pole Bracket Mount	Junction Box Mount	Pole Bracket Mount
GV-Mount506-1	GV-Mount470	GV-Mount507-1	GV-Mount470

Junction Box Mount	Wall Bracket Mount	Pole Bracket Mount
GV-Mount507-1	GV-Mount211-9	GV-Mount470

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