

GV-GBL12811 AI 12MP H.265 4.3x Zoom Super Low Lux WDR IR Bullet IP

Camera



- AI deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/1.7" progressive scan CMOS sensor
- Min. illumination at 0.006 lux
- Five streams from H.265, H.264 and MJPEG
- Up to 30 fps at 4000 x 3000
- Intelligent IR
- IR distance up to 70 m (230 ft)
- Day and Night function (with removable IR-cut filter)
- Two-way audio capable
- Built-in microphone
- Built-in microSD card slot (SD / SDHC / SDXC) for local storage
- Ingress protection (IP67)
- Vandal resistance (IK10 for metal casing)
- DC 12V / PoE (IEEE 802.3af)
- Defog
- 3D noise reduction
- AI analytics (Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Heat Map, Video Metadata, Loitering Detection, Illegal Parking, Face Detection)
- Motion detection
- Text overlay
- Privacy mask
- 19 languages supported
- ONVIF (Profile G, S, T, M) conformant

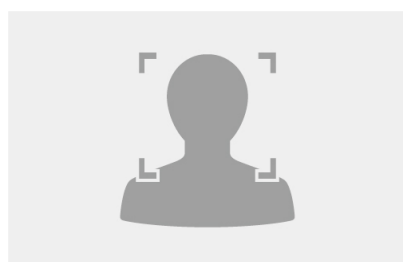
Introduction

GV-GBL12811 is a 12 MP outdoor bullet IP camera, equipped with an automatic IR-cut filter and IR LEDs for day and night surveillance. The camera supports H.265 video codec to achieve a better compression ratio while maintaining high-quality pictures at reduced network bandwidth. GV-GBL12811 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.

Deep Learning Function

Face Detection

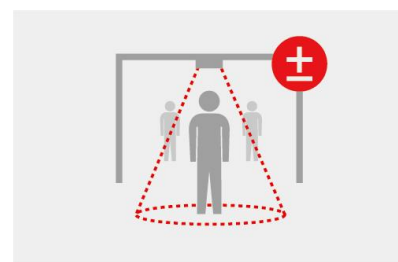


AI Perimeter Protection

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



People Counting



Specifications

Camera					
Image Sensor		1/1.7" progressive scan CMOS			
Picture Elements		4000 (H) x 3000 (V)			
Minimum Illumination	Color	0.006 Lux (F1.4, AGC ON)			
	IR 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		No			
Dynamic Range		75 dB			
Lens					
Megapixel		12 MP			
Day/Night		Yes (with removable IR-cut filter)			
Focal Length		2.8-12 mm			
Lens Type		Motorized			
Maximum Aperture		F/1.4			
Mount		Ø14			
FOV	Horizontal	96° ~ 46°			
	Vertical	70° ~ 35°			
	Diagonal	128°~ 58°			
Operation	Focus	Auto / Manual			
	Zoom	4.3x			
	Iris	DC			
IR LED Quantity		4 IR LEDs			
Max. IR Distance		70 m (230 ft)			
DORI		Detect	Observe	Recognize	Identify
Lens	2.8-12 mm (W)	86 m (282.1 ft)	34 m (111.5 ft)	17 m (55.7 ft)	9 m (29.5 ft)
	2.8-12 mm (T)	190 m (623.3 ft)	76 m (249.3 ft)	38 m (124.6 ft)	19 m (62.3 ft)
Operation					
Video Compression		H.265, H.265+, H.264, H.264+, MJPEG			
Video Streaming		Five streams			
Video Resolution	Main Stream	4000 x 3000 (Default), 3840 x 2160, 3200 x 1800, 2688 x 1520, 1920 x 1080			
	Sub Stream	1920 x 1080, 1280 x 960 (Default), 1280 x 720, 704 x 576,704 x 480, 640 x 360			
	Third Stream	1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 x 240			
	Fourth Stream	704 x 480 (Default), 704 x 576, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 x 240			
	Fifth Stream	704 x 480 (Default), 704 x 576, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 x 240			
Frame Rate		30 fps at 4000 x 3000 / 3840 x 2160 / 3200 x 1800 / 2688 x 1520 / 1920 x 1080 / 1280 x 960 / 1280 x 720 / 704 x 480 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 240 (60 Hz)			
		25 fps at 4000 x 3000 / 3840 x 2160 / 3200 x 1800 / 2688 x 1520 / 1920 x 1080 / 1280 x 960 / 1280 x 720 / 704 x 576 / 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	AI off	64 Mbps			
	AI on	12 Mbps			
Maximum Streams * When the total bitrate is within the maximum throughput		10			
Video Analytics		Motion Detection, Object Abandoned / Missing Detection, Video Exception Detection			
Smart Alarm		Motion Detection, SD Card Error, SD Card Full, IP Address Conflict, Cable Disconnection, Scene Change Detection, Video Blur Detection, Abnormal Color Detection			
Image Setting		Brightness, Contrast, Hue, Saturation, WDR, Sharpness, Defog, 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		Two-way audio (external speaker required)	
Digital I/O	Input	1 Input, dry contact, NO / NC	
	Output	1 Relay Output (1A 30V DC / 0.3A 125V AC)	
Deep Learning Function			
AI Analytics		Face Event: Face Detection	
		Smart Event: - Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Heat Map, Video Metadata - Loitering Detection, Illegal Parking Detection	
		*A maximum of 2 smart detection functions are suggested at a time to ensure comprehensive detection results and the optimized performance by the camera.	
		*Face Event and Smart Event can only be enabled one at a time.	
Video Metadata	People	Gender, Age, Top / Bottom (Type, Color), Accessories (Hat, Bag, Face Mask, Glasses)	
	Vehicle	Type, Color, Brand, Model	
	Non-Motor Vehicle	Type	
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 ~ 90°	
	Rotate	0 ~ 360°	
Connectors	Power	DC jack, PoE	
	Ethernet	RJ-45	
		Audio	Built-in microphone
	External microphone required		Yes (Audio jack, 3.5 mm)
	Built-in speaker		No
	External speaker required		Yes (Audio jack, 3.5 mm)
	* 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.		
	Video Output	CVBS output (BNC connector x 1)	
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14 in)	
Local Storage	microSD card slot microSD card slot (SD / SDHC / SDXC), up to 512 GB		
General			
Operating Temperature		-30 ~ 60°C (-22 ~ 140°F)	
Humidity		0 ~ 95% (no condensation)	
Power Source		12V DC, 1.5A / PoE (IEEE 802.3af)	
Max. Power Consumption		12 W	
Dimensions		272.3 x 94.9 x 88.9 mm (10.72 x 3.73 x 3.5 in)	
Weight		1.12 kg (2.47 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, Image Quality, Bandwidth Control, Image Snapshot, Digital Zoom, Text Overlay, Image Masking, Intelligent Mark	
Language		Chinese Traditional, Czech, Dutch, English, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Spanish (Latin America), Turkish	
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.

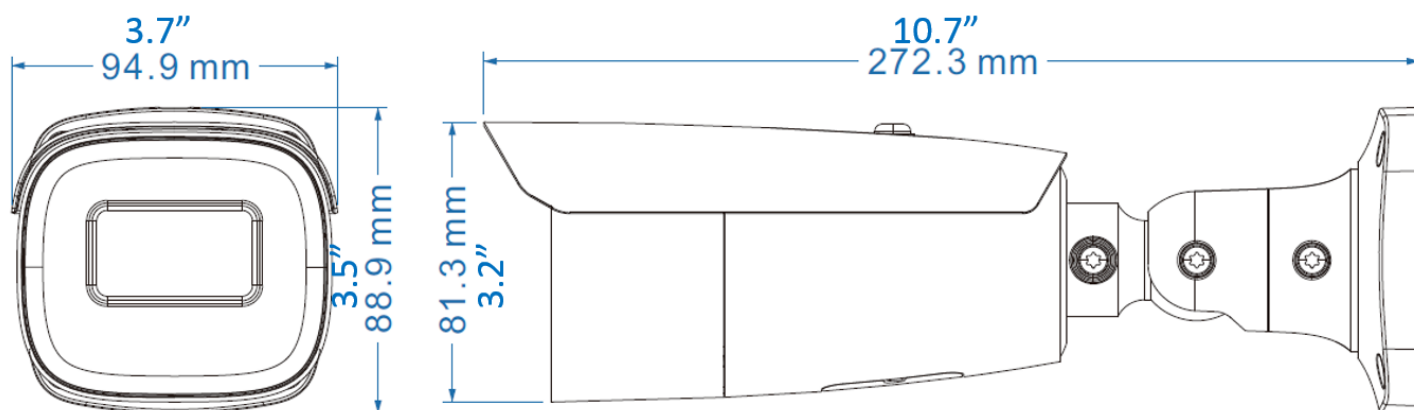
Packing List

- | | |
|----------------|--------------------------|
| 1. GV-GBL12811 | 4. Drill Template Paster |
| 2. Hex Key | 5. CVBS & DC IN Cables |
| 3. Screw Kit | 6. Download Guide |

Accessories

Model No.	Name		Details
GV-Mount470 (must be used with Mount506)	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-Mount314 (must be used with Mount506)	Corner Mount Bracket		Dimensions: 215 x 121.4 x 215 mm (8.46 x 4.78 x 8.46 in) Weight: 2.05 kg (2.31 lb)
GV-Mount506	Junction Box		Dimensions: 139.3 x 171.6 x 50 mm (5.48 x 6.76 x 1.97 in) 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	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 GV-Mount506	Junction Box Mount GV-Mount506	Pole Bracket Mount GV-Mount470

Junction Box Mount GV-Mount506	Corner Mount Bracket GV-Mount314