

GV-TBL8810 AI 8MP H.265 4.3x Zoom Super Low Lux WDR Pro IR Bullet IP Camera



- AI deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/2.8" progressive scan CMOS sensor
- Min. illumination at 0.015 lux
- Triple streams from H.265, H.264 and MJPEG
- Up to 30 fps at 3840 x 2160
- Intelligent IR
- IR distance up to 70 m (230 ft)
- Day and Night function (with removable IR-cut filter)
- Wide Dynamic Range Pro (WDR Pro)
- Two-way audio capable
- Built-in microSD card slot (SDHC / SDXC / UHS-I, Class 10) for local storage
- Ingress protection (IP67)
- Vandal resistance (IK10)
- DC 12V / PoE (IEEE 802.3af)
- Defog
- 3D noise reduction, ROI video optimization 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 10 layers
- 19 languages supported
- ONVIF (Profile G, S, T, M) conformant ISO/IEC27001:2022, ISO 9001:2015, ISO 14001:2015, CVE/CNA, Compliance NIS2, GDPR AI ACT E Cyber Resilience ACT
- Signed Firmware & Supply Chain Security:
- Installation and update are allowed exclusively for manufacturer-signed firmware. Firmware components are documented through a Software Bill of Materials (SBOM)

EU Certification



Certificazioni CyberSecurity e presso Lab.certificati Accredia

Introduction

The GV-TBL8810 is an 8 MP outdoor bullet IP camera designed for professional video surveillance systems. Equipped with a 1/2.8" progressive scan CMOS sensor and H.265 compression, it delivers 4K video at 30 fps while optimizing bandwidth usage. The Day & Night function with an automatic IR-cut filter and intelligent IR illumination up to 70 m ensures excellent image quality even in low-light conditions (0.015 lux), further enhanced by WDR Pro, Defog, and advanced noise reduction technologies.

Powered by AI deep learning algorithms, the camera enables accurate human and vehicle classification and supports advanced perimeter protection and video analytics functions. Additional features include two-way audio, local microSD storage, privacy masking, and ONVIF compliance. Designed for critical environments, it is certified IP67 and IK10, supports PoE power supply, and complies with the latest cybersecurity and regulatory standards.

Specifications

Camera					
Image Sensor		1/2.8” progressive scan CMOS			
Picture Elements		3840 (H) x 2160 (V)			
Minimum Illumination	Color	0.015 Lux (F1.4, AGC ON)			
	Black/White	0.005 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		YES			
Dynamic Range		120 dB			
Lens					
Megapixel		8 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			
Horizontal FOV- Vertical FOV		102° - 32°/ 70			
Operation	Focus	Auto / Manual			
	Zoom	4.3x			
	Iris	DC / Auto			
IR LED Quantity		4 IR LEDs			
Max. IR Distance		70 m (230 ft)			
DORI		Detect	Observe	Recognize	Identify
Lens	2.8-12 mm (W)	85 m (278.8 ft)	34 m (111.5 ft)	17 m (55.7 ft)	8 m (26.2 ft)
	2.8-12 mm (T)	289 m (948.1 ft)	116 m (380.5 ft)	58 m (190.2ft)	29 m (95.1 ft)
Operation					
Video Compression		H.265, H.265+, H.264, H.264+, MJPEG			
Video Streaming		Triple streams			
Video Resolution	Main Stream	3840 x 2160 (Default), 3072x 2048, 2592 x 1944, 2592 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080			
	Sub Stream	1920 x 1080 (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			
Frame Rate		30 fps at 3840 x 2160, 3072x 2048, 2592 x 1944, 2592 x 1520, 2560 x 1440, 2304 x 1296, 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 at3840 x 2160, 3072x 2048, 2592 x 1944, 2592 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 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).			
Storage Recording		Recording Failover, Edge			
Maximum Throughput		12 Mbps			
Maximum Streams		* When the total bitrate is within the maximum throughput			10
Video Analytics, Audio		Motion Detection, Object Abandoned / Missing Detection, Video Exception Detecti. Audio Detct.			
Smart Alarm		Motion Detection, SD Card Error, SD Card Full, IP Address Conflict, Cable Disconnection, Scene Change Detection, Video Blur Detection, Abnormal Color Detection (Tampering)			
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 capable			
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	People Vehicle	Gender, Age, Top / Bottom (Type, Color), Accessories (Hat, Bag, Face Mask, Glasses) Type, Color, Brand, Model
Metadata/search	Non-Motor Vehicle	Type
Network		
Interface		10/100 Ethernet
Protocol / Cybersecurity		802.1x, DDNS, DHCP, FTP, HTTP POST, HTTP (digest), HTTPS, IPv4, IPv6, NTP, ONVIF (Profile G, S, T, M), PPPoE, QoS, RTCP, RTMP, RTP, RTSP, SMTP, SNMP, UDP, UPnP, MQTT, IP Filtering, Password Brute force protection, Sistem Log preserved
Mechanical		
Camera Angle Adjustment	Pan	0 ~ 360°
	Tilt	0 ~ 90°
	Rotate	0 ~ 360°
Connectors	Power	DC Jack
	Ethernet	Shielded RJ-45 connector
	Audio	Built-in microphone
		No
		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 (SDHC / SDXC / UHS-I, Class 10) , up to 512GB AES 128
General		
Operating 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		11.6 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)
Warranty		5 years
Vandal Resistance		IK10
Certification		CE, FCC, RoHS, UKCA compliant, UL Compliance
Web Interface		
Access Management		Web configuration, Multi User Access first login change Psw, Secure Boot (Signed Firmware)
Maintenance		Encrypted File System (Data at Rest), 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/Smart		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) 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

Security

Advanced Security Features

- Signed Firmware & Secure Firmware Upgrade
- Secure Boot (software-based)
- Multi-User Access Management with Role-Based Permissions
- Mandatory Password Change at First Login
- Digest Authentication
- Account Lockout & Automatic IP Blocking after Failed Login Attempts
- IP Address Filtering (Whitelist / Blacklist)
- Tamper-Resistant System Logs (Preserved After Reset)
- HTTPS / TLS Encrypted Communications
- Firmware SBOM (Software Bill of Materials) available

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: 215x121.4x215mm (8.46" x 4.78" x 8.46") Weight: 2.05 kg (4.52lb)
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.		

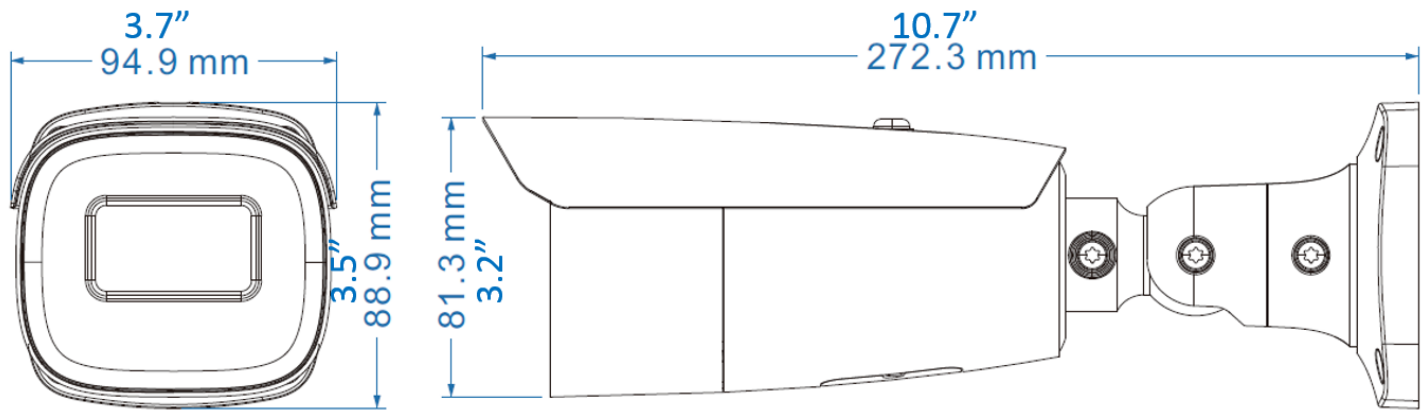
Note:

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

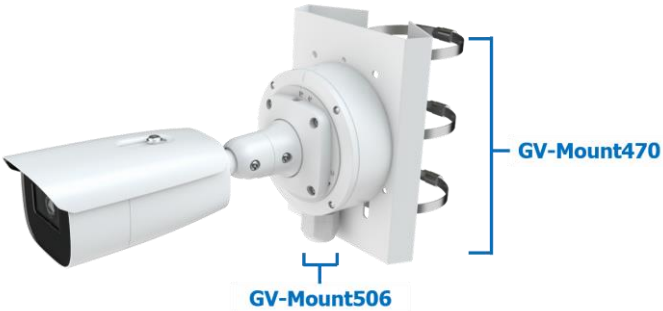
Packing List

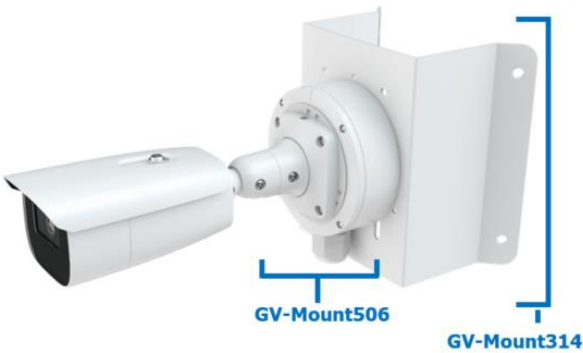
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|---------------|--------------------------|
| 1. GV-GBL8810 | 4. Drill Template Paster |
| 2. Hex Key | 5. CVBS & DC IN Cables |
| 3. Screw Kit | 6. Download Guide |

Dimensions



Mounting Type

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

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