

GV-TVD8810 AI 8MP H.265 4.3x Zoom Super Low Lux WDR Pro IR Vandal Proof IP Dome



- AI Deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/2.8" progressive scan low lux CMOS sensor
- Triple streams from H.265, H.264 or MJPEG
- Wide Dynamic Range Pro (WDR Pro)
- Min. illumination at 0.003 lux
- Up to 20 fps at 3840 x 2160
- Intelligent IR
- Day and night function (with removable IR-cut filter)
- Motorized varifocal lens for remote focus / zoom adjustment
- IR distance up to 40 m (130 ft)
- Vandal Resistance (IK10 for metal casing)
- Ingress protection (IP67)
- Built-in microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) for local storage
- Built-in microphone
- Two-way audio capable
- DC 12V / PoE (IEEE 802.3af)
- ONVIF (Profile G, S, T, M) conformant

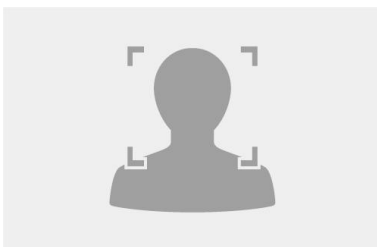
Introduction

The Dome IP Camera is an outdoor, network 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 bandwidths. GV-TVD8810 adheres to IK10 and IP67 standards, and can be powered through PoE.

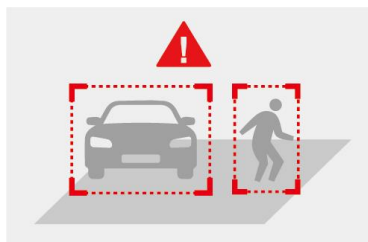
Empowered by deep learning algorithms, its AI technology distinguishes humans and vehicles from other moving objects. Integrated with GeoVision Video Management Software (VMS), it supports AI perimeter protection, real-time alerts, event playback, and more.

Deep Learning Function

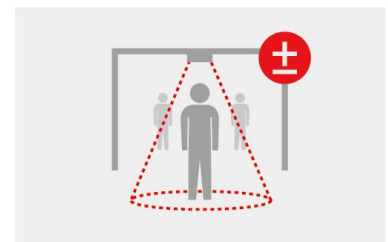
Face Detection



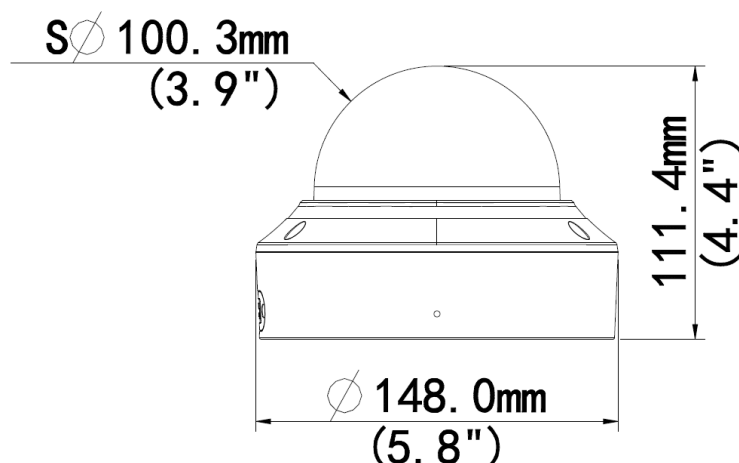
AI Perimeter Protection (Intrusion, Crossing Line Entering Area, Leaving Area)



People Flow Counting



Dimensions



Specifications

Camera					
Image Sensor		1/2.8" progressive scan low lux CMOS			
Picture Elements		3840 (H) x 2160 (V)			
Minimum Illumination	Color	0.003 Lux (F1.6, 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		56 dB			
WDR Pro		Yes			
Dynamic Range		Up to 120 dB			
Lens					
Megapixel		8 MP			
Day / Night		Yes (with removable IR-cut filter)			
Lens Type		Motorized varifocal lens			
Focal Length		2.8 ~ 12 mm			
Maximum Aperture		F/1.6			
Mount		Ø14 mm			
FOV	Horizontal	29.2° ~ 107.4°			
	Vertical	54.2°~16.3°			
	Diagonal	111.0°~33.1°			
Operation	Focus	Auto / Manual			
	Zoom	4.3x Optical Zoom			
	Iris	Fixed			
IR LED Quantity		2 IR LEDs			
Max. IR Distance		40 m (130 ft)			
DORI		Detect	Observe	Recognize	Identify
Lens	2.8 mm	86.9 m (285.1 ft)	34.8 m (114.2 ft)	17.4 m (57.1 ft)	8.7 m (28.5 ft)
	12 mm	372.4 m (1221.8 ft)	149 m (488.8 ft)	74.5 m (244.4 ft)	37.2 m (122.0 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	1920 x 1080, 1280 x 720, 720 x 576, 704 x 288, 640 x 360 (Default), 352 x 288			
	Third Stream (Closed by Default)	720 x 576, 704 x 288, 640 x 360, 352 x 288			
Frame Rate		20 fps at 3840 x2160, 25 fps at 3072 x 1728 / 2560 x 1440, 30 fps at 1920 x 1080 (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, 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		- <u>Perimeter Protection</u> (Human & Vehicle classification): Cross Line, Enter Area, Leave Area, Intrusion - <u>Face Detection</u>, <u>People Flow Counting</u>, <u>Crowd Density Monitoring</u> *All Perimeter Protection rules can be enabled together. However, due to hardware resource limitations, only one AI function can be enabled at a time: Perimeter Protection, Face Detection, People Flow Counting, or Crowd Density Monitoring.
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, RTCP, RTP, RTSP, SMTP, SNMP, TCP, UDP, UPnP, ONVIF (Profile G, S, T, M)
Mechanical		
Camera Angle Adjustment	Pan	0 ~ 360°
	Tilt	0 ~ 68°
	Rotate	0 ~ 360°
Connectors	Power	DC Jack, PoE
	Ethernet	RJ-45
	Audio	1 In (built-in or external microphone with power supply) 1 Out (Audio Out Wire)
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14")
	Local Storage	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		12 V DC / PoE (IEEE802.3af)
Max. Power Consumption		5.5 W
Dimensions		Ø148 x 111 mm (Ø5.8 x 4.4")
Weight		0.45 kg (0.99 lb)
Ingress Protection		IP67
Vandal Resistance		IK10 for metal casing
Certification		FCC, CE, RoHS, UL compliant
Web Interface		
Installation Management		Web-based configuration
Maintenance		Firmware upgrade through Web Browser or GV-IP Device 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 Application		
Software Supported		GV-VMS (V17.4.1 / V18.2.1), GV-DVR / NVR (V8.9.1), GV-Control Center (V3.8.0), GV-Recording Server / Video Gateway (V2.0.0), GV-Edge Recording Manager Win version (V2.0.0), GV-Redundant / Failover Server (V1.2.0)
Smart Device Access		GV-Eye for iOS and Android
Live Viewing		Browser (IE, Edge, Chrome, Firefox), Mobile App

Note:

1. It is required to apply patch files to all or some of the supported software.
2. Do not use clothes or any ordinary material to clean the camera cover since they may result in scratches.
3. Specifications are subject to change without notice.

Packing List

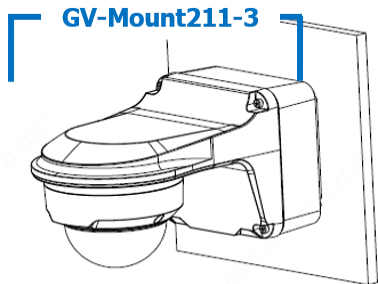
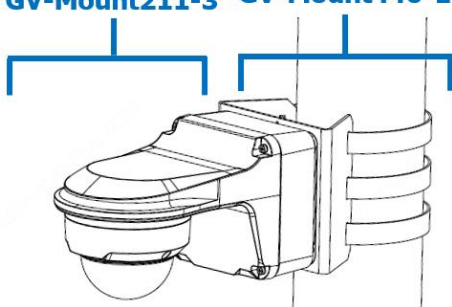
- | | |
|------------------------------------|--------------------------|
| 1. GV-TVD8810 IR Vandal Proof Dome | 4. Drill Template Paster |
| 2. Waterproof Rubber Set | 5. Torx Wrench |
| 3. Screw Kit | 6. Download Guide |

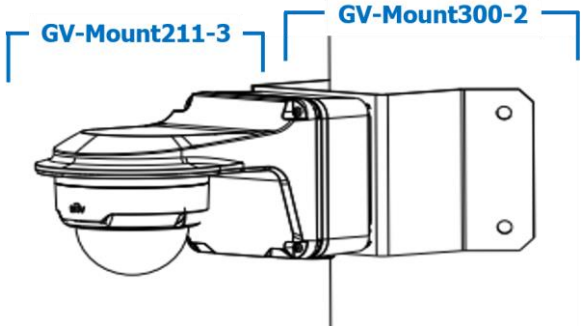
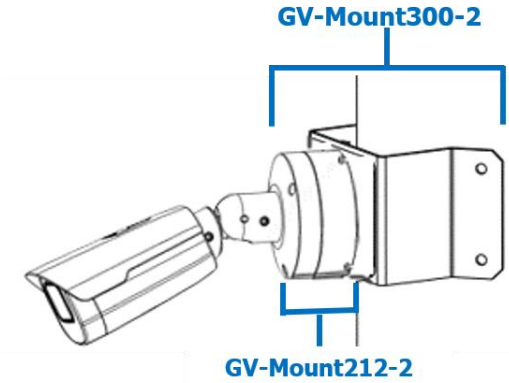
Accessories

Model No.	Name		Details
GV-Mount107 (must be used with GV-Mount212-2)	Pendant Bracket		Dimensions: Ø 120 x 334 mm (Ø 4.72" x 13.15") Weight: 0.74 kg (1.63 lb)
GV-Mount211-2	Wall Mount and Junction Box		Dimensions: Ø 253 x 125 x 125 mm (Ø 10 x 4.9 x 4.9") Weight: 0.92 kg (2.02 lb)
GV-Mount211-3	Wall Mount and Junction Box		Dimensions: 254.5 x 124.9 x 128 mm (10.0" x 4.9" x 5.0") Weight: 0.86 kg (1.90 lb)
GV-Mount212-2	Wall Box Mount		Dimensions: Ø 145 x 40 mm (Ø 5.7 x 1.6") Weight: 0.24 kg (0.5lb)
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-Mount211-2)	Pole Mount Bracket		Dimensions: Ø 20 x 120 x 53.4 mm (Ø 4.7 x 4.7 x 2.1") Steel Strap Diameter: Ø 67 ~ 127 mm (Ø 2.6" ~ 5") Weight: 0.45 kg (0.99 lb)
GV-Mount440-1 (must be used with GV-Mount211-2 or GV-Mount211-3)	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-Mount606	In-Ceiling Mount		Dimensions: Ø 235 x 63 mm (Ø 9.3" x 2.5") In-ceiling hole: Ø 195 mm (Ø 7.67") Weight: 0.49 kg (1.1 lb)
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-Mount921 (for standard US single and double gang boxes only)	Power Box Mount Bracket		Dimensions: Ø 145 x 13 mm (Ø 5.7" x 0.5") Weight: 0.13 kg (0.29 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.		

Mounting Type

Wall Mount with Junction Box GV-Mount211-3	Pole Mount GV-Mount211-3 + GV-Mount440-1
	
Convex Corner Mount GV-Mount300-2	Concave Corner Mount GV-Mount310-2
	

Convex / Concave Corner Mount	Convex / Concave Corner Mount
GV-Mount211-2 / 211-3 + GV-Mount300-2 / 310-2	GV-Mount212-2 + GV-Mount300-2 / 310-2
 The diagram shows a line drawing of a camera mounting assembly. A bracket on the left points to the camera housing, labeled 'GV-Mount211-3'. A bracket on the right points to the mounting plate, labeled 'GV-Mount300-2'.	 The diagram shows a line drawing of a camera mounting assembly. A bracket at the top points to the mounting plate, labeled 'GV-Mount300-2'. A bracket at the bottom points to the camera housing, labeled 'GV-Mount212-2'.