

# **GV-TDR4803 AI 4MP H.265 Super Low Lux WDR Pro IR Mini Fixed Rugged IP**

## **Dome**



- AI deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/3" progressive scan super low lux CMOS sensor
- Min. illumination at 0.003 lux
- Triple streams from H.265, H.264 or MJPEG
- Wide Dynamic Range Pro (WDR Pro)
- Up to 30 fps at 2688 x 1520
- Intelligent IR
- Day and night function (with removable IR-cut filter)
- IR distance up to 30 m (100 ft)
- Built-in microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) for local storage
- 3-axis mechanism (pan / tilt / rotate)
- Ingress protection (IP67)
- Vandal Resistance (IK10)
- Two-way audio capable
- DC 12V / PoE (IEEE 802.3af)
- ONVIF (Profile G, S, T, M) conformant

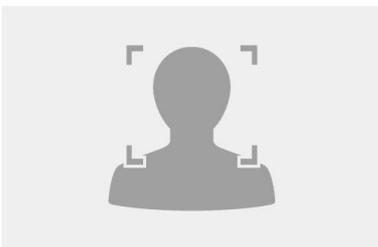
## **Introduction**

GV-TDR4803 is an outdoor, fixed, network camera equipped with an automatic IR-cut filter and an IR LED 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. The camera adheres to IP67 and IK10 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.

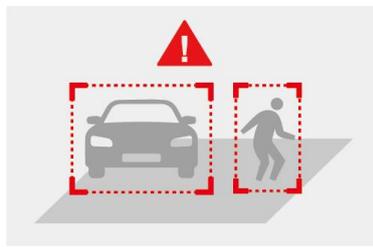
## **Deep Learning Function**

### **Face Detection**

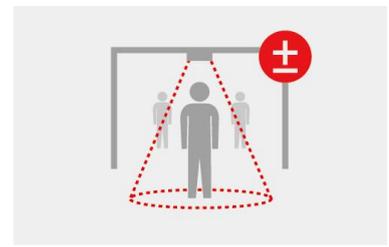


### **AI Perimeter Protection**

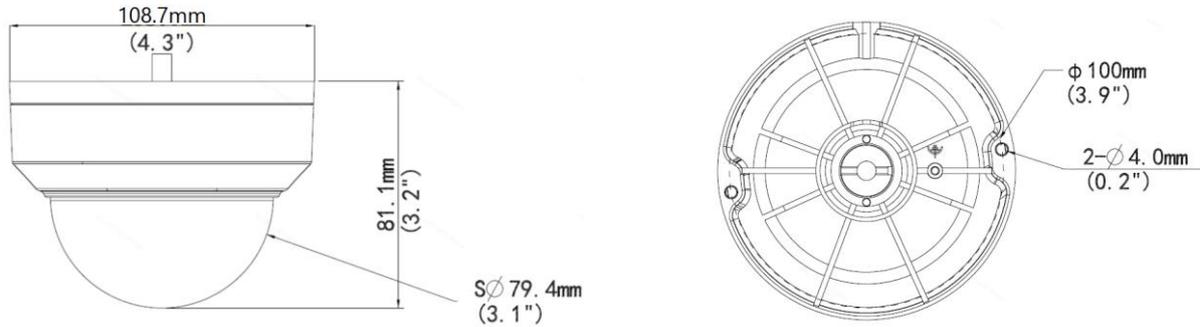
(Intrusion, Crossing Line  
Entering Area, Leaving Area)



### **People Flow Counting**



## Dimensions



## Specifications

Camera		
Image Sensor	1/3" progressive scan super low lux CMOS	
Picture Elements	2688 (H) x 1520 (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	Automatic, Manual	
Gain Control	Automatic, Manual	
S/N Ratio	56 dB	
WDR Pro	Yes	
Dynamic Range	120 dB	

Lens		
Megapixel	4M	
Day / Night	Yes (with removable IR-cut filter)	
Lens Type	Fixed	
Focal Length	2.8 mm	
Maximum Aperture	F/1.6	
Mount	M12	
FOV	Horizontal	101°
	Vertical	55.3°
	Diagonal	111.1°
Operation	Focus	Fixed
	Zoom	Fixed
	Iris	Fixed
IR LED Quantity	1 IR LED	
Max. IR 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
Frame Rate	30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296, 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, 90°, 180°)
Audio Compression	G.711
Audio Support	Two-way Audio (external microphone and speaker required)

Digital I/O	Input	1 Input, dry contact, NO / NC
	Output	1 Relay Output (1A 30V DC / 0.3A 125V AC)
<b>Deep Learning Function</b>		
AI Analytics	<ul style="list-style-type: none"> <li>- <u>Perimeter Protection</u> (Human &amp; Vehicle classification): Cross Line, Enter Area, Leave Area, Intrusion</li> <li>- <u>Face Detection</u>, <u>People Flow Counting</u>, <u>Crowd Density Monitoring</u></li> </ul> <p>*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.</p>	
<b>Network</b>		
Interface	10/100 Base-TX 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)	
<b>Video Resolution</b>		
Main Stream	2688 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720	
Sub Stream	1280 x 720, 720 x 576, 640 x 360 (Default), 640 x 480	
Third Stream (Closed by Default)	640 x 360, 352 x 288	
<b>Mechanical</b>		
Temperature Detector	No	
Camera Angle Adjustment	Pan	3° ~ 360°
	Tilt	0° ~ 68°
	Rotate	3° ~ 360°
Connectors	Power	DC Jack (DC 12 V, 1.25 A), PoE
	Ethernet	RJ-45 connector
	Audio	1 in (Audio In Wire); 1 out (Audio Out Wire) *The Audio In port only support microphones with power supply.
	Digital I/O	I/O wires
	Local Storage	microSD card slot (SD / SDHC / SDXC), up to 512 GB
<b>General</b>		
Operating Temperature	-30°C ~ 60°C (-22°F ~ 140°F)	
Humidity	0% ~ 95% (no condensation)	
Power Source	12 V DC / PoE (IEEE802.3af)	
Max. Power Consumption	4.5 W	
Dimensions	∅ 108.7 x 81.1 mm (∅ 4.3" x 3.2")	
Weight	0.42 kg (0.93 lb)	
Ingress Protection	IP67	
Vandal Resistant	IK10	
Certification	FCC, CE, RoHS, UL compliant	
<b>Web Interface</b>		
Installation Management	Web-based configuration	
Maintenance	Firmware upgrade through Web Browser or GV-IP Device Utility (V8.7.2.1)	
Access from Web Browser	Live View, Video Recording, Change Video Quality, Bandwidth Control, Image Snapshot, Defog, Text Overlay, Image Masking	
Language	Chinese Traditional, Czech, English, French, German, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish	
<b>Applications</b>		
Software Supported	GV-VMS (V17.4.2 / 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), GV-Mobile Server (V1.5.1)	
Smart Device Access	GV-Eye for iOS and Android	
Live Viewing	Browser (IE, Edge, Chrome, Firefox), Mobile App	

**Note:**

1. Patch files are required for some 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-TDR4803 Mini 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-Mount213)	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-Mount213	Wall / Ceiling Box Mount		Dimensions: Ø 109 x 39 mm (Ø 4.3" x 1.5") Weight: 0.2 kg (0.44 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-Mount924 (for standard US single and double gang boxes only)	Power Box Mount Bracket		Dimensions: Ø 128 x 18.5 mm (Ø 5" x 0.7") Weight: 0.15 kg (0.33 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 GV-Mount211-1	Pole Mount GV-Mount211-1 + GV-Mount440-1
Convex Corner Mount GV-Mount300-2	Concave Corner Mount GV-Mount310-2
Convex / Concave Corner Mount GV-Mount211P / 211-1 + GV-Mount300-2 / 310-2	Convex / Concave Corner Mount GV-Mount213 + GV-Mount300-2 / 310-2