# 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 micro SD 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
- DC 12V / PoE (IEEE 802.3af)
- ONVIF (Profile G, S, T) 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 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.
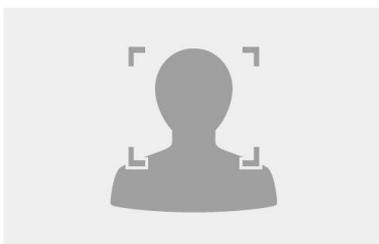
Empowered by deep learning algorithms, AI technology distinguishes human and vehicles from other moving objects. Integrated with GeoVision Video Management Software (VMS), it supports AI perimeter protection, real time alert, events playback and more.

## Models

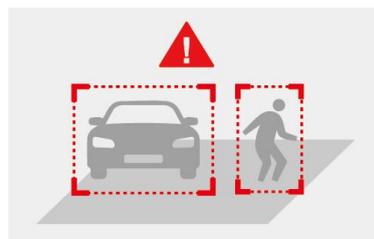| Model | Iris | Focal Length (mm) | Horizontal FOV | Maximum Aperture | Image Format |
|---|---|---|---|---|---|
| GV-TDR4803-2F | Fixed | 2.8 mm | 101° | F/1.6 | 1/3" |
| GV-TDR4803-4F | | 4 mm | 83.7° | | |

## Deep Learning Function
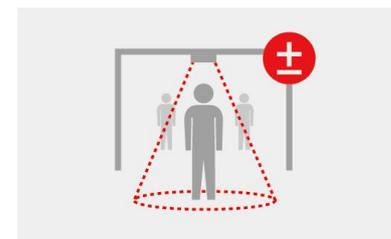
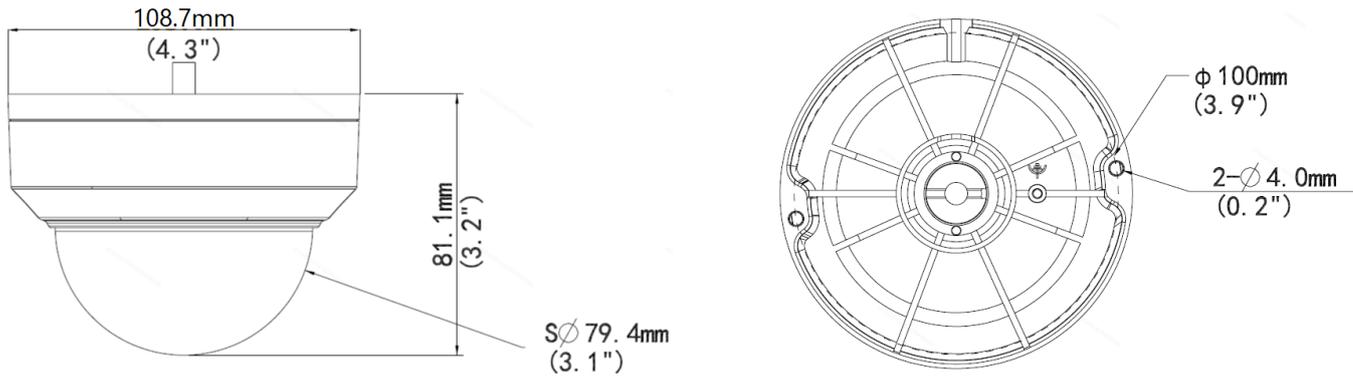| Face Detection | AI Perimeter Protection (Intrusion, Crossing Line Entering Area, Leaving Area) | People Flow Counting |
|---|---|---|



**Note:** People Flow Counting and Crowd Density Monitoring integration of the camera to GV-VMS is coming soon.

*GV-TDR4803*

## 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 | | GV-TDR4803-2F | GV-TDR4803-4F |
|---|---|---|---|
| Megapixel | | 4M | |
| Day / Night | | Yes (with removable IR-cut filter) | |
| Lens Type | | Fixed | |
| Focal Length | | 2.8 mm | 4 mm |
| Maximum Aperture | | F/1.6 | |
| Mount | | M12 | |
| Horizontal FOV | | 101° | 83.7° |
| Operation | Focus | Fixed | |
| | Zoom | Fixed | |
| | Iris | Fixed | |
| IR LED Quantity | | 1 IR LED | |
| Max. IR Distance | | 30 m (100 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)<br>* The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes). |
| Video Analytics | | Motion Detection, Tampering Alarm, Audio Detection<br>*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) |

*GV-TDR4803*

| Face Detection | | |
|---|---|---|
| Environment | | 100 lux |
| Detectable face angle | Tilt (Up/Down) | ≤ 10° |
| | Swing (Left/Right | ≤ 30° |
| Max. number of faces | | Up to 40 |
| Min. face image pixel requirement | | 80 pixels |

| Deep Learning Function | |
|---|---|
| AI Analytics | Intrusion, Crossing Line, Entering Area, Face Detection, Leaving Area (Human & Vehicle classification), People Flow Counting, Crowd Density Monitoring |

| Network | |
|---|---|
| Interface | 10/100 Base-TX Ethernet |
| Protocol | 802.1x, ARP, DHCP, DDNS, DNS, DynDNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP, UDP, UPnP, ONVIF (Profile G, S, T) |

| Video Resolution | |
|---|---|
| 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, 704 x 288, 640 x 360 (Default), 640 x 480, 352 x 288 |
| Third Stream (Closed by Default) | 720 x 576, 704 x 288, 640 x 360, 352 x 288 |

| Mechanical | | |
|---|---|---|
| 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 | Micro SD card slot (SD / 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 | 12 V DC / PoE (IEEE802.3af) |
| Max. Power Consumption | 4.5 W |
| Dimensions | Ø 108.7 x 81.1 mm (Ø4.3" x 3.2") |
| Weight | 0.42 kg (0.93 lb) |
| Ingress Protection | IP67 |
| Vandal Resistant | IK10 |
| Regulatory | FCC, CE, RoHS compliant |

| Web Interface | |
|---|---|
| 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 | Czech, English, French, German, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Traditional Chinese |

| Applications | |
|---|---|
| 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, Safari), Mobile App |

*GV-TDR4803*

**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
2. Waterproof Rubber Set
3. Screw Kit
4. Drill Template Paster
5. Torx Wrench
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-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-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-PA191 | Power over Ethernet (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-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. |