

## **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

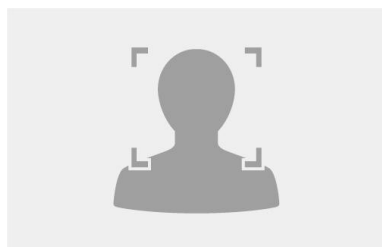
### **Introduction**

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.

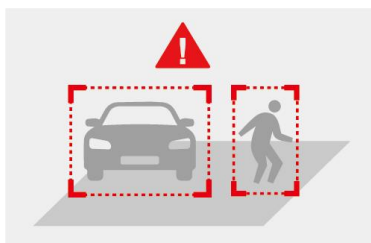
Empowered by deep learning algorithms, its AI technology distinguishes humans and vehicles from other moving objects. Integrated with GeoVision Video Management Software (VMS), it supports AI perimeter protection, real-time alerts, event playback, and more.

### **Deep Learning Function**

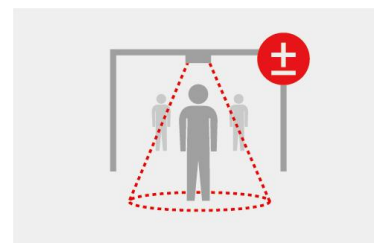
#### **Face Detection**



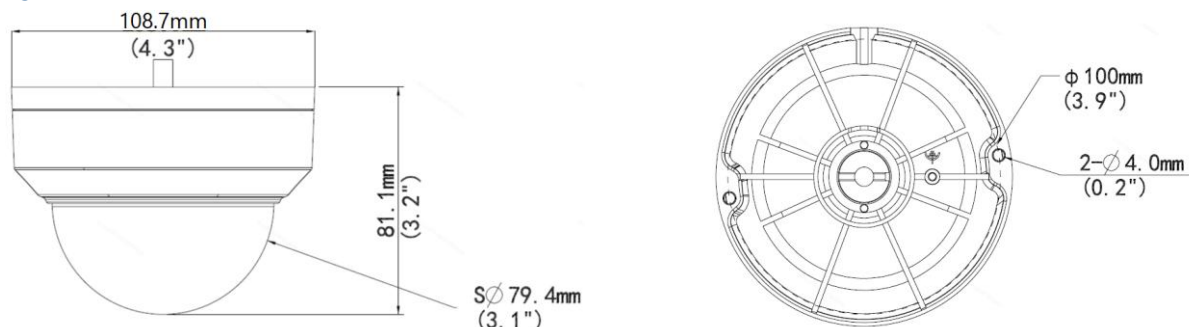
#### **AI Perimeter Protection** (Intrusion, Crossing Line Entering Area, Leaving Area)



#### **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)<br>* The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes). |
| Maximum throughput                                                         | 40 Mbps                                                                                                                                                                                                                           |
| Maximum stream<br>*When the total bitrate is within the maximum throughput | 20                                                                                                                                                                                                                                |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <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 authentication (EAP-TLS, EAP-MD5), 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)<br>*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                       |               | Ø 108.7 x 81.1 mm (Ø 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

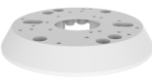
**Note:**

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**

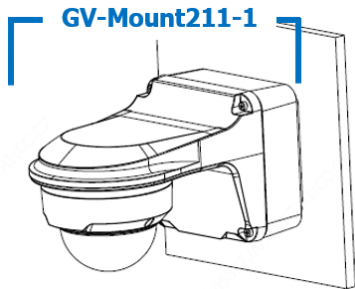
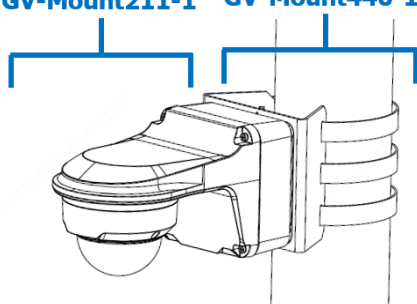
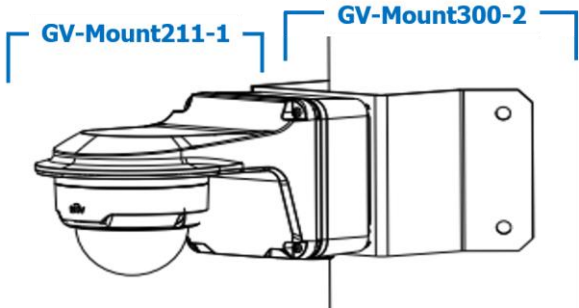
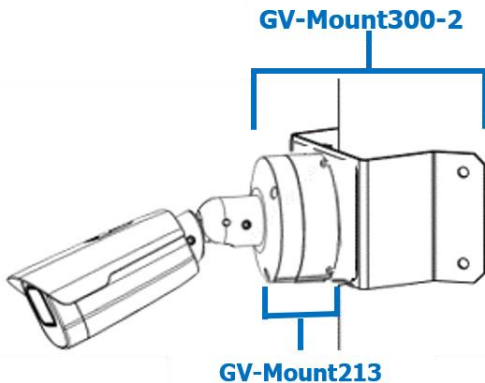
1. GV-TDR4803 Mini Dome
2. Waterproof Rubber Set
3. Screw Kit
4. Drill Template Paster
5. Torx Wrench
6. Download Guide

**Accessories**

| Model No.                                                                | Name                           |                                                                                     | Details                                                                                                                                                                           |
|--------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GV-Mount107<br>(must be used with<br>GV-Mount213)                        | Pendant Bracket                |    | Dimensions: Ø 120 x 334 mm<br>(Ø 4.72" x 13.15")<br>Weight: 0.74 kg (1.63 lb)                                                                                                     |
| GV-Mount211P                                                             | Wall Mount and Junction<br>Box |    | Dimensions: Ø 233 x 125 x 125 mm<br>(Ø 9.2" x 4.9" x 4.9")<br>Weight: 1 kg (2.2 lb)                                                                                               |
| GV-Mount211-1                                                            | Wall Mount and Junction<br>Box |   | Dimensions: 235 x 126.2 x 128.5 mm<br>(9.3" x 5.0" x 5.1")<br>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")<br>Weight: 0.2 kg (0.44 lb)                                                                                                             |
| GV-Mount300-2                                                            | Convex Corner Mount            |  | Dimensions: 137 x 233 x 160 mm<br>(5.4" x 9.17" x 6.3")<br>Weight: 1.65 kg (3.64 lb)                                                                                              |
| GV-Mount310-2                                                            | Concave Corner Mount           |  | Dimensions: 111.2 x 369.9 x 210 mm<br>(2.6" x 11.4" x 6.6")<br>Weight: 1.65 kg (3.64 lb)                                                                                          |
| GV-Mount420<br>(must be used with<br>GV-Mount211P)                       | Pole Mount Bracket             |  | Dimensions: Ø 120 x 120 x 53.4 mm<br>(Ø 4.7" x 4.7" x 2.1")<br>Weight: 0.45 kg (0.99 lb)<br>Steel Strap Diameter: Ø 67 ~ 127 mm<br>(Ø 2.6" ~ 5")                                  |
| GV-Mount440-1<br>(must be used with<br>GV-Mount211P or<br>GV-Mount211-1) | Pole Mount Bracket             |  | Dimensions: 136 x 127 x 63.6 mm<br>(5.4" x 5.0" x 2.5")<br>Weight: 0.34 kg (0.75 lb)<br>Steel Strap Diameter: Ø 67 ~ 127 mm<br>(Ø 2.6" ~ 5")                                      |
| GV-Mount704<br>(must be used with<br>GV-Mount107)                        | Extension Tube                 |  | Dimensions: Ø 3.5 x 10 or 20 or 30 or 50 cm<br>(Ø 1.38" x 3.9" or 7.9" or 11.8" or 19.7")<br>Weight: 225 g or 360 g or 500 g or 780 g<br>(0.5 lb or 0.79 lb or 1.1 lb or 1.72 lb) |
| GV-Mount924<br>(for standard US single and<br>double gang boxes only)    | Power Box Mount<br>Bracket     |  | Dimensions: Ø 128 x 18.5 mm (Ø 5" x 0.7")<br>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                                                        | Pole Mount                                                                           |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| GV-Mount211-1                                                                       | GV-Mount211-1 + GV-Mount440-1                                                        |
|    |    |
| Convex Corner Mount                                                                 | Concave Corner Mount                                                                 |
| GV-Mount300-2                                                                       | GV-Mount310-2                                                                        |
|  |  |
| Convex / Concave Corner Mount                                                       | Convex / Concave Corner Mount                                                        |
| GV-Mount211P / 211-1 + GV-Mount300-2 / 310-2                                        | GV-Mount213 + GV-Mount300-2 / 310-2                                                  |
|  |  |