

## GV-VD2540 2MP H.264 3x zoom Super Low Lux WDR IR Vandal Proof IP Dome



- 1/2.8" progressive scan super low lux CMOS
- Min. illumination at 0.02 lux
- Dual streams from H.264 and MJPEG
- Up to 30 fps at 1920 x 1080
- Vandal resistance (IK10+)
- Ingress protection (IP67)
- Motorized varifocal lens for remote focus/zoom adjustment
- 3-axis mechanism (pan / tilt / roll)
- Removable IR-cut filter for Day/Night function
- High power IR LEDs
- Intelligent IR
- IR distance up to 25 m (82 ft.)
- External microphone
- 2-way audio
- One sensor input and alarm output
- TV-out support
- Built-in micro SD card slot (SD/SDHC) for local storage
- DC12V / AC24V / PoE (IEEE 802.3at)
- Wide Dynamic Range (WDR)
- 3D noise reduction
- Defog
- Motion detection
- Tampering alarm
- Privacy mask
- IP address filtering
- Supports iPhone, iPad, Android & 3GPP
- 31 languages on Web interface
- ONVIF (Profile S) conformant

\*No Memory card slot & local storage function for Argentina.

### Active Tampering Alarm

Tampered



Focus Change



Camera Shift



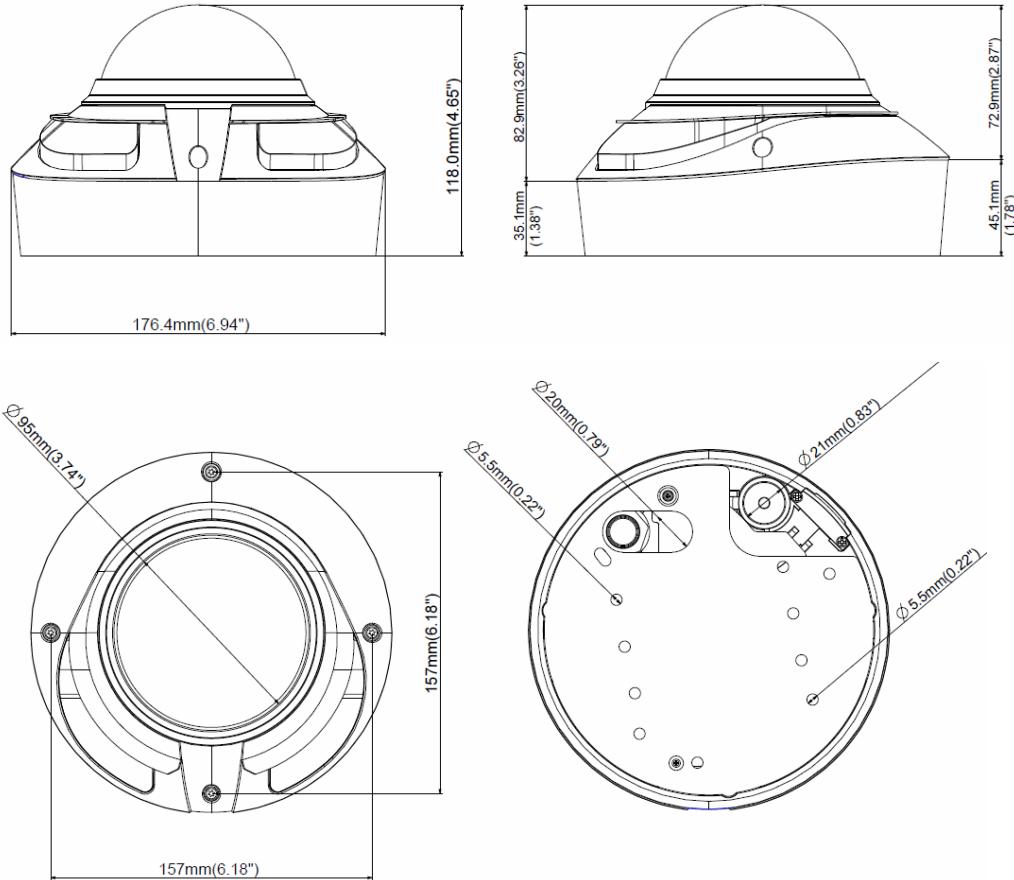
### Introduction

GV-VD2540 is an outdoor camera designed with IK10+ vandal resistance and IP67 ingress protection. With its motorized varifocal lens, the user can zoom and focus the camera from the Web interface. The camera is equipped with a super low lux CMOS image sensor with which the camera is capable of providing a color live view in near darkness. This night vision is further enhanced with its high power LEDs with up to 25 m (82 ft.) effective distance.

## Overview



## Dimensions



## Specifications

| Camera                     |          |  |
|----------------------------|----------|--|
| Image Sensor               |          | 1/2.8" progressive scan super low lux CMOS   |
| Picture Elements           |          | 1920 (H) x 1080 (V)  |
| Minimum Illumination       | Color    | 0.02 Lux   |
|                            | B/W      |  |
|                            | IR ON    | 0 Lux  |
| Shutter Speed              |          | Automatic, Manual (1/5 ~ 1/8000 sec.)  |
| White Balance              |          | Automatic, Manual (2800K ~ 8500K)  |
| Gain Control               |          | Automatic  |
| S/N Ratio                  |          | 52 dB  |
| WDR                        |          | Yes  |
| Lens                       |          |  |
| Megapixel                  |          | Yes  |
| Day / Night                |          | Yes (with removable IR-cut filter)   |
| Lens Type                  |          | Motorized varifocal lens   |
| Focal Length               |          | 3 ~ 9 mm   |
| Maximum Aperture           |          | F/1.2  |
| Mount                      |          | Ø 14 mm  |
| Image Format               |          | 1/2.7"   |
| Horizontal FOV             |          | 103°~36°   |
| Operation                  | Focus    | Auto Focus   |
|                            | Zoom     | 3X Optical Zoom  |
|                            | Iris     | DC drive   |
| High Power IR LED Quantity |          | 6 IR LEDs  |
| Max. IR Distance           |          | 25 m (82 ft.)  |
| Operation                  |          |  |
| Video Compression          |          | H.264, MJPEG   |
| Video Stream               |          | Dual streams from H.264 and MJPEG  |
| Frame Rate                 |          | 30 fps at 1920 x 1080<br>* The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).  |
| Image Setting              |          | Brightness, Contrast, Sharpness, Gamma, White Balance, Flicker-less, Image Orientation, Backlight Compensation, D/N Sensitivity, Shutter Speed, WDR, Defog, Super Low Lux, Zoom, Focus Change, Denoise, Metering |
| Audio Compression          |          | G.711, AAC (optional)  |
| Audio Support              |          | Two-Way Audio  |
| Sensor Input               |          | 1 Input (Dry Contact)  |
| Alarm Output               |          | 1 Output (200mA 5V DC)   |
| Video Resolution           |          |  |
| Main Stream                | 4:3      | 1600 x 1200, 1280 x 960, 640 x 480, 320 x 240  |
|                            | 16:9     | 1920 x 1080, 1280 x 720, 640 x 360, 448 x 252  |
|                            | 5:4      | 1280 x 1024, 640 x 512, 320 x 256  |
| Sub Stream                 | 4:3      | 640 x 480, 320 x 240   |
|                            | 16:9     | 640 x 360, 448 x 252   |
|                            | 5:4      | 640 x 512, 320 x 256   |
| Network                    |          |  |
| Interface                  |          | 10/100M Ethernet   |
| Ethernet Protocol          |          | DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), PSIA, QoS (DSCP), RTSP, SNMP, SMTP, TCP, UDP, UPnP, 3GPP/ISMA  |
| Mechanical                 |          |  |
| Temperature Detector       |          | Yes  |
| Camera Angle Adjustment    | Pan      | -90° ~ 90°   |
|                            | Tilt     | 0° ~ 85°   |
|                            | Rotate   | 0° ~ 350°  |
| Connectors                 | Power    | 2-pin terminal block, PoE  |
|                            | Ethernet | Ethernet (10/100 Base-T), RJ-45 cable  |
|                            | Audio    | 1 In (3.5mm phone jack for microphone)<br>1 Out (3.5mm phone jack for speaker)   |

**Mechanical**

|               |               |   |
|---------------|---------------|---|
| Connectors    | Digital I/O   | 3-pin terminal block, pitch 2.5 mm (0.1")   |
|               | Local Storage | Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10)<br>* <b>SDXC</b> and <b>UHS-I</b> card types are not supported. |
|               | TV-Out        | BNC connector (640 x 480 resolution)  |
| LED Indicator |               | 2 LEDs: Power, Status   |

**General**

|                         |             |                                      |
|-------------------------|-------------|--------------------------------------|
| Environment Temperature | Start-up    | -20°C ~ 50°C (-4°F ~ 122°F)          |
|                         | Operation   |                                      |
| Humidity                |             | 10% to 90% (no condensation)         |
| Power Source            |             | 12V DC / 24V AC / PoE (IEEE 802.3at) |
| Max. Power Consumption  |             | 22.48 W                              |
| Dimensions              | Camera Body | Ø 176.5 x 118 mm (6.9" x 4.6")       |
| Weight                  |             | 1.83 kg (4.03 lb)                    |
| Ingress Protection      |             | IP67                                 |
| Vandal Resistance       |             | IK10+                                |
| Regulatory              |             | CE, FCC, RCM, RoHS compliant         |

**Power over Ethernet**

|                       |                                       |
|-----------------------|---------------------------------------|
| PoE Standard          | IEEE 802.3at Power over Ethernet / PD |
| PoE Power Supply Type | End-Span                              |
| PoE Power Output      | Per Port 48V DC, 600mA. Max. 30 watts |

**Web Interface**

|                         |  |
|-------------------------|--|
| Installation Management | Web-based configuration  |
| Maintenance             | Firmware upgrade through Web Browser or Utility  |
| Access from Web Browser | Camera Live View, Video Recording, Change Video Quality, Bandwidth Control, Image Snapshot, Digital I/O Control, Audio, Picture in Picture, Picture and Picture, Privacy Mask, Visual Automation, Tampering Alarm, Text Overlay, Digital PTZ   |
| Language                | Arabic / Bulgarian / Czech / Danish / Dutch / English / Finnish / French / German / Greek / Hebrew / Hungarian / Indonesian / Italian / Japanese / Lithuanian / Norwegian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Simplified Chinese / Slovakian / Slovenian / Spanish / Swedish / Thai / Traditional Chinese / Turkish |

**Applications**

|                     |  |
|---------------------|--|
| Network Storage     | GV-NVR, GV-System, GV-Backup Center, GV-Recording Server |
| Smart Device Access | GV-Eye for iOS and Android                               |
| Live Viewing        | IE, mobile phone   |
| CMS Server support  | GV-Control Center, GV-Center V2, GV-VSM                  |

**Note:**

1. Do not use clothes or any ordinary material to clean the camera cover since they may result in scratches.

2. Specifications are subject to change without notice.

3. Mind the following when using a memory card for recording:

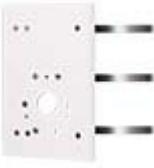
- Recorded data on the memory card can be damaged or lost if the data are accessed while the camera is under physical shock, power interruption, memory card detachment or when the memory card reaches the end of its lifespan. No guarantee is provided for such causes.
- To avoid power outage, it is highly suggested to apply a battery backup (UPS).
- For better performance, it is highly suggested to use Micro SD card of MLC NAND flash, Class 10.
- Replace the memory card when its read/write speed is lower than 6 MB/s or when the memory card is frequently undetected by the camera.

## Packing List

1. Vandal Proof IP Dome
2. Torx Wrench
3. 3-Pin Terminal Block
4. Audio Wires
5. Power Adapter
6. TV Out Wire
7. RJ-45 Connector x 2
8. Back Plate
9. Installation Sticker
10. Screw Anchor x 4
11. Long Screw x 4
12. Flat Screw
13. Short Screw x 2
14. Silica Gel Bag
15. Sticker (for Silica Gel Bag)
16. Ruler
17. Conduit Converter
18. PG21 Conduit Connector
19. GV-IPCAM H.264 Software CD
20. GV-IPCAM H.264 Quick Start Guide
21. GV-NVR Software DVD
22. GV-NVR Quick Start Guide

## Accessories

| Model No.   | Name                                   | Details   |
|-------------|--|---|
| GV-Mount100 | Straight Tube and Junction Box Kit     |  <p>Dimensions: 200 x 170 x 257.5 mm (7.9" x 6.7" x 10.1")<br/>Weight: 3.17 kg (6.99 lb)</p>                 |
| GV-Mount101 | Straight Tube Kit                      |  <p>Dimensions: 219 x 125 x 332 mm (8.6" x 4.9" x 13.1")<br/>Weight: 1.8 kg (3.97 lb)</p>                   |
| GV-Mount200 | Wall Pendant Tube                      |  <p>Dimensions: 225 x 140 x 250 mm (8.9" x 5.5" x 9.8")<br/>Weight: 900 g (1.98 lb)</p>                    |
| GV-Mount203 | Wall Pendant Tube and Junction Box Kit |  <p>Dimensions: 315 x 195.5 x 225 mm (12.4" x 7.7" x 8.9")<br/>Weight: 2.95 kg (6.5 lb)</p>                |
| GV-Mount205 | Wall Mount Bracket Kit                 |  <p>Dimensions: 126.5 x 203 x 160 mm / 5 x 8 x 6.3"<br/>(L x W x diameter)<br/>Weight: 0.5 kg / 1.1 lb</p> |

| Model No.   | Name                                    | Details  |
|-------------|---|--|
| GV-Mount300 | Convex Corner Adapter Kit               |  <p>Dimensions: 238.6 x 409.5 mm (9.4" x 16.1")<br/>Weight: 4.27 kg (9.41 lb)</p>   |
| GV-Mount310 | Concave Corner Adapter Kit              |  <p>Dimensions: 238.6 x 409.5 mm (9.4" x 16.1")<br/>Weight: 4.27 kg (9.41 lb)</p>   |
| GV-Mount400 | Pole Mount Bracket Kit<br>(Ø 4" ~ 6")   |  <p>Dimensions<br/>Bracket: 241 x 161 mm (9.5" x 6.3")<br/>Weight: 1.70 kg (3.75 lb)<br/>Steel Strap Diameter: Ø 4" ~ 6"</p>   |
| GV-Mount410 | Pole Mount Bracket Kit<br>(Ø 6" ~ 7.5") |  <p>Dimensions<br/>Bracket: 241 x 161 mm (9.5" x 6.3")<br/>Weight: 1.70 kg (3.75 lb)<br/>Steel Strap Diameter: Ø 6" ~ 7.5"</p>  |
| GV-Mount702 | Extension Tube                          |  <p>Four options are available.<br/>Dimensions:<br/>Ø 5.4 x 10 or 20 or 30 or 50 cm<br/>(Ø 2.1" x 3.9" or 7.9" or 11.8" or 19.7")<br/>Weight:<br/>180 g or 390 g or 550 g or 800 g<br/>(0.4 lb or 0.86 lb or 1.21lb or 1.76 lb)</p> |
| GV-Mount900 | Wall Mount Bracket                      |  <p>Dimensions: 154 x 108 x 50 mm (6.1" x 4.3" x 2")<br/>Weight: 240 g (0.53 lb)</p>  |
| GV-Mount903 | GV-VD Series Dome Housing               |  <p>Dimensions: Ø 186 x 97.5 mm (Ø 7.3" x 3.8")<br/>Weight: 600 g (1.32 lb)</p>   |
| GV-Mount909 | Wall Mount Bracket                      |  <p>Dimensions: 170 x 150 x 110 mm (6.7" x 5.9" x 4.3")<br/>Weight: 610 g (1.34 lb)</p>   |

| Model No.                    | Name   | Details   |
|------------------------------|--|---|
| GV-Relay V2                  | GV-Relay V2  |  <p>The GV-Relay V2 is designed to expand the voltage load of GV IP devices. It provides 4 relay outputs, and each can be set as normally open (NO) or normally closed (NC) independently as per your requirement.</p> |
| Power Adapter                | Power adapters are available in 6 regions: Argentina, Australia, Brazil, Europe, U.K and U.S.<br>*This item does not include a power cord.   |   |
| 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. |   |
| Metal PG21 Conduit Connector |   | The metal PG21 conduit connector allows you to run the wires through a 3/4" conduit pipe.   |