

## GV-SD2411 (30x) PoE Outdoor Full HD IP Speed Dome



- 1/2.8" progressive scan super low lux CMOS sensor
- Min. illumination at 0.002 lux
- Full HD 1080p at up to 60 fps
- 30x optical zoom and 12x digital zoom
- Wide Dynamic Range Pro (WDR Pro)
- Day and night function with IR-cut filter
- 2-way audio
- Vandal resistance (IK10 for metal and polycarbonate casing)
- Ingress protection (IP67)
- Built-in micro SD card slot (SD/SDHC/SDXC/UHS-I) for local storage
- 4 digital inputs, 1 relay output
- DC 24V / AC 24V / High PoE (PoE++, 50 W)
- Pan 360° endlessly
- Tilt from -20° to 200°
- Preset speed at up to 460° /sec
- PTZ movement (Preset, Sequence, Auto Pan, Cruise and Tour)
- PTZ movements by schedule
- Auto and manual PTZ calibration
- Auto focus
- Backlight compensation
- Image noise reduction
- Motion detection
- Privacy mask
- Dual streams from H.264 and MJPEG
- Recording assigned by GV-Edge Recording Manager (Windows & Mac)
- Smart phones & 3GPP support
- 31 languages on Web interface
- ONVIF (Profile S) conformant

\* Optional GV-PA901 PoE Adapter is required for applying PoE function

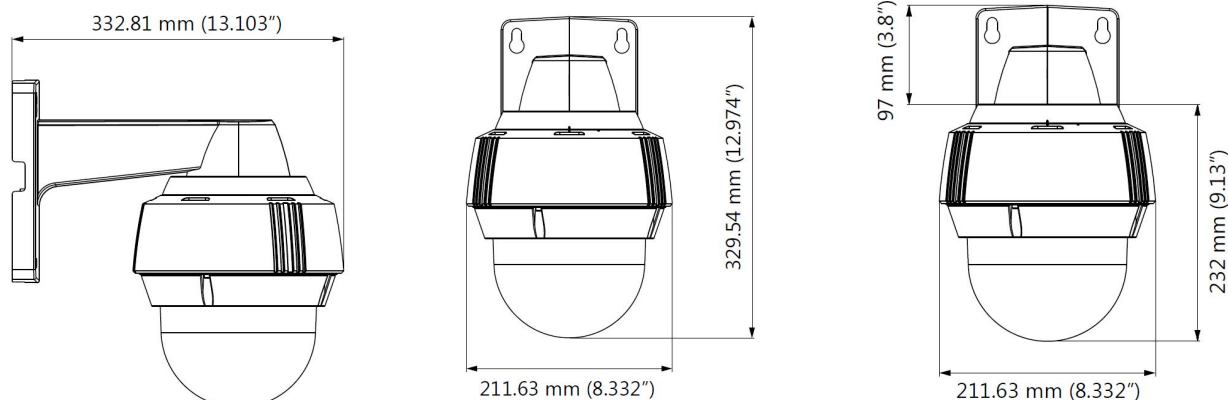
### Introduction

The GV-IP Speed Dome (GV-SD2411) is a network PTZ camera designed for image quality and adaptability in various environments. This camera offers image of 1080p at 60 fps and 30x optical zoom, capable of showing smooth live view with great detail. In low-light environments, image quality is promised with its image processing tools, such as IR-cut filter (ICR), Wide Dynamic Range Pro (WDR Pro), Backlight Compensation and noise reduction.

Wide surveillance coverage is made possible with 360° endless panning and -20 ~ 200° tilting capacity. Dome movements such as Preset, Sequence, Auto Pan, Cruise and Tour can be programmed and activated by schedule. You can create multiple dome movement modes and have different modes enabled at different time slots. The GV-IP Speed Dome provides variable pan/tilt speeds ranging from a fast patrol of 460° per second to a slow ramble of 0.5° per second with 0.2° pan accuracy for fast and accurate tracking ability.

GeoVision offers a complete series of GV-IP Speed Dome for indoor and outdoor use, and also optional mounting kits for outdoor installations on wall, ceiling and pole.

## Dimensions



## Specifications

| Camera               |       |  |
|----------------------|-------|--|
| Image Sensor         |       | 1/2.8" progressive scan super low lux CMOS |
| Optical Zoom         |       | 30x  |
| Digital Zoom         |       | 12x  |
| Picture Elements     |       | 1920 (H) x 1080 (V)                        |
| Minimum Illumination | Color | 0.05 Lux at F/1.6                          |
|                      | B/W   | 0.002 Lux at F/1.6                         |
| Electronic Shutter   |       | 1/1 ~ 1/10000 sec.                         |
| White Balance        |       | Auto / Manual                              |
| Iris Control         |       | Auto / Manual                              |
| AGC control          |       | Auto / Manual                              |
| S/N Ratio            |       | 50 dB (AGC Off)                            |
| WDR Pro              |       | Yes (with WDR sensor)                      |
| Dynamic Range        |       | Up to 100 dB                               |

| Optical Lens     |       |                                    |
|------------------|-------|------------------------------------|
| Megapixel        |       | Yes                                |
| Day / Night      |       | Yes (with removable IR-cut filter) |
| Focal Length     |       | 4.3 ~ 129 mm                       |
| Maximum Aperture |       | F/1.6                              |
| Horizontal FOV   |       | 59.5° ~ 2.1°                       |
| Operation        | Focus | Auto / Manual                      |
|                  | Zoom  | 30x                                |
|                  | Iris  | Auto / Manual                      |

| Video             |             |   |
|-------------------|-------------|---|
| Video Compression |             | H.264, MJPEG  |
| Video Streaming   |             | Dual streams from H.264 or MJPEG  |
| Video Resolution  | Main Stream | 16:9<br>1920 x 1080 (Default), 1280 x 720, 640 x 360, 448 x 252   |
|                   | Sub Stream  |   |
| Frame Rate        |             | 60/50 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). |

| Audio             |                                 |
|-------------------|---------------------------------|
| Audio Compression | G.711, AAC (optional)           |
| Audio Support     | Two-way audio                   |
| Sensor Input      | 4 Input (dry contact)           |
| Alarm Output      | 1 Digital output (200 mA 5V DC) |

| Network   |   |
|-----------|---|
| Interface | 10/100M Ethernet  |
| Protocol  | DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), QoS (DSCP), RTSP, SMTP, SNMP, TCP, UDP, UPnP, 3GPP/ISMA |

| Mechanical                          |  |  |
|-------------------------------------|--|--|
| Temperature Detector                |  | Yes  |
| Connectors                          | Power  | DC Jack, PoE ++  |
|                                     | Ethernet   | 10/100 Base-T, RJ-45 connector   |
|                                     | Audio  | 1 in (RCA female for microphone); 1 out (RCA female for speaker)                             |
|                                     | Local Storage  | SD card slot (SDHC/SDXC/UHS-I, Class 10)<br>*UHS-II card type is not supported.              |
|                                     | Digital I/O  | I/O wires  |
| Operation                           |  |  |
| Pan Travel                          |  | 360° endless   |
| Tilt Travel                         |  | -20° ~ 200°  |
| Manual Speed                        |  | 0.5° ~ 460°/s  |
| Calibration                         |  | Auto / Manual  |
| Presets                             | Max. Number  | 255  |
|                                     | Accuracy   | 0.2°   |
| Sequence                            | Max. Number  | 8  |
|                                     | Max. Presets Allowed                                 | 16   |
| Auto Pan                            |  | 8  |
| Cruise                              |  | 4  |
| Tour                                | Max. Number  | 8  |
|                                     | Max. Number of Preset / Sequence / Auto Pan / Cruise | 16   |
| Privacy Mask                        |  | 8  |
| Proportional Pan & Tilt             |  | Auto (Pan and tilt speed proportional to zoom ratio)   |
| Automatic Function                  |  | Preset, Sequence, Auto Pan, Cruise, Tour   |
| Mechanical Flip                     |  | On / Off   |
| Digital Slow Shutter                |  | On / Off   |
| Motion Detection                    |  | On / Off   |
| Wide Dynamic Range                  |  | On / Off   |
| Day/Night: Mechanical IR Cut Filter |  | On / Off   |
| Picture Flip                        |  | On / Off   |
| Image Freeze                        |  | On / Off   |
| Digital Noise Reduction             |  | On / Off   |
| Alarm                               | Input  | 4  |
|                                     | Output   | 1  |
|                                     | Reaction   | Preset, Sequence, Auto Pan, Cruise, Tour   |
| General                             |  |  |
| Operating Temperature               |  | -40°C ~ 55°C (-40°F ~ 131°F)   |
| Heater                              |  | Heater 1 On: 5°C (41°F); Off: 8°C (46.4°F)<br>Heater 2 On: -7°C (19.4°F); Off: -2°C (28.4°F) |
| Fan-On                              |  | 55°C (131°F)   |
| Humidity                            |  | 20% ~ 90% (non-condensing)   |
| Dimensions                          |  | Ø 211.63 x 232 mm (8.332" x 9.13")   |
| Weight                              |  | 3.1 kg (6.82 lb)   |
| Power Source                        |  | 24V AC ± 10%, 3A / 24V DC ± 10%, 3.75A / High PoE++ (PoE++)                                  |
| Power Consumption                   |  | 50 W (with 30 W heater)  |
| Ingress Protection                  |  | IP67   |
| Vandal Resistance                   |  | IK10 for metal and polycarbonate casing  |
| Regulatory                          |  | CE, FCC, RCM, RoHS compliant   |
| Power over Ethernet                 |  |  |
| PoE Standard                        |  | PoE++ (50 W) / PD  |
| PoE Power Supply Type               |  | End-Span   |
| PoE Power Output                    |  | 56V DC, 1050 mA (50 W Max.)  |
| Web Interface                       |  |  |
| Installation Management             |  | Web-based configuration  |
| Maintenance                         |  | Firmware upgrade through Web Browser or Utility  |

|                         |  |
|-------------------------|--|
| Access from Web Browser | Live View, Video Recording, PTZ Control, Preset, Sequence, Cruise, Auto Pan, Tour, Image Quality, Bandwidth Control, Image Snapshot, I/O Control, 2-way Audio, Picture-in-Picture (PIP), Picture-and-Picture (PAP), Text Overlay, Image Masking  |
| 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 |
| <b>Applications</b>     |  |
| Network Storage         | GV-System (GV-DVR / NVR), GV-VMS, GV-Backup Center, GV-Recording Server  |
| Smart Device Access     | GV-Eye for iOS and Android   |
| Live Viewing            | Browser (IE, Chrome, Firefox, Safari), Mobile Phone  |
| CMS Server support      | GV-Control Center, GV-Center V2, GV-Vital Sign Monitor   |

**Note:**



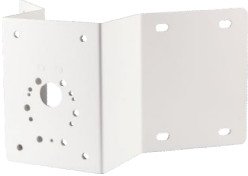
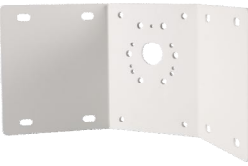



- Specifications are subject to change without notice.
- Do not use clothes or any ordinary material to clean the camera cover since they may result in scratches.
- Mind the following when using an inserted memory card for recording:
  - Recorded data on the memory card can be damaged or lost if the 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.
  - The stored data can be lost if the memory card is not accessed for a long period of time. Back up your data periodically if you seldom access the memory card.
  - Memory cards are expendable and their durability varies according to the conditions of the installed site and how they are used. Back up your data regularly and replace the memory card annually.
  - To avoid power outage, it is highly suggested to apply a battery backup (UPS).
  - For better performance, it is highly suggested to use 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. GV-SD2411 Outdoor IP Speed Dome | 6. Desiccant Pack x 2           |
| 2. Pendant Tube                    | 7. Data Cable                   |
| 3. Hex Key x 2                     | 8. GV-IP Speed Dome Software CD |
| 4. Rubber Ring                     | 9. GV-NVR Software DVD          |
| 5. RJ-45 Connector                 | 10. Warranty Card               |

**Note:** Power adapters can be purchased upon request.

## Accessories

| Model No.   | Name                                    |   | Details  |
|-------------|---|---|--|
| GV-Mount102 | Straight Tube Box Mount                 |    | Dimensions: 256 x 256 x 316 mm (10.1 x 10.1 x 12.4")<br>Weight: 6.6 kg (14.6 lb)             |
| GV-Mount103 | Straight Tube Mount                     |    | Dimensions: 219 x 125 x 340 mm (8.6 x 4.9 x 13.4")<br>Weight: 2.2 kg (4.9 lb)                |
| GV-Mount300 | Convex Corner Adapter Kit               |    | Dimensions: 238.6 x 409.5 mm (9.4" x 16.1")<br>Weight: 4.27 kg (9.41 lb)                     |
| GV-Mount310 | Concave Corner Adapter Kit              |  | Dimensions: 123.3.6 x 393.1 mm (4.9" x 15.5")<br>Weight: 2.96 kg (6.53 lb)                   |
| GV-Mount400 | Pole Mount Bracket Kit<br>(Ø 4" ~ 6")   |  | Bracket: 241 x 161 mm (9.5" x 6.3")<br>Weight: 1.70 kg (3.75 lb)<br>Steel Strap: Ø 4" ~ 6"   |
| GV-Mount410 | Pole Mount Bracket Kit<br>(Ø 6" ~ 7.5") |  | Bracket: 241 x 161 mm (9.5" x 6.3")<br>Weight: 1.70 kg (3.75 lb)<br>Steel Strap: Ø 6" ~ 7.5" |
| GV-Mount501 | Convex Corner Box Mount                 |  | Dimensions: 136 x 256 x 256 mm (5.4 x 10.1 x 10.1")<br>Weight: 4.8 kg (10.6 lb)              |

| Model No.     | Name   |  | Details  |
|---------------|--|--|--|
| GV-Mount702   | Extension Tube   |   | Four options are available.<br>Dimensions: 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: 180 g or 390 g or 550 g or 800 g<br>(0.4 lb or 0.86 lb or 1.21 lb or 1.76 lb) |
| GV-Mount908-2 | In-Ceiling Mounting Kit  |   | Mounting plate: 205 x 128 x 227 mm (8.1 x 5 x 8.9")<br>Weight: 3 kg (6.6 lb)   |
| GV-PA901      | PoE Adapter  |   | The GV-PA901 PoE adapter is designed to provide power and network connection to IP cameras over a single Ethernet cable.   |
| Power Adapter | DC 24V Power Adapter 100-240V AC US<br>DC 24V Power Adapter 100-240V AC AU<br>DC 24V Power Adapter 100-240V AC AR<br>DC 24V Power Adapter 100-240V AC EU<br>DC 24V Power Adapter 100-240V AC JU<br>DC 24V Power Adapter 100-240V AC UK |  | Dimensions (L x W): 132.75 x 58.6 mm (5.23" x 2.3")<br>Weight: 0.39 kg (0.86 lb)<br>Input: 100 to 240V AC 2.5A 50-60Hz<br>Output: 24V DC 3.75 A  |