

## GV-BX2400 Series 2MP H.264 WDR Pro D/N Box IP Camera

GV-BX2400-0F / 1F / 2F / 8F



GV-BX2400-3V



GV-BX2400-4V



- 2 megapixel progressive scan CMOS
- Dual streams from H.264 and MJPEG
- Up to 30 fps at 1920 x 1080
- Built-in / 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
- Mini USB slot for WiFi Adapter or USB hard drive
- Wide Dynamic Range Pro (WDR Pro)
- 2D noise reduction
- Defog
- Motion detection
- Tampering alarm
- Privacy mask
- IP address filtering
- DC 12V / PoE
- Removable IR-cut filter for Day/Night function
- Varifocal megapixel lens
- Supports iPhone, iPad, Android & 3GPP
- 31 languages on Web interface
- ONVIF (Profile S) conformant

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

### Models

| Models       | Iris     | Focal Length (mm) | Maximum Aperture | Image Format |
|--------------|----------|-------------------|------------------|--------------|
| GV-BX2400-0F | Fixed    | 4 mm              | F/1.5            | 1/3"         |
| GV-BX2400-1F |          | 8 mm              |                  | 1/2.5"       |
| GV-BX2400-2F |          | 12 mm             |                  |              |
| GV-BX2400-3V | DC drive | 2.8 ~ 12 mm       | F/1.4            | 1/2.7"       |
| GV-BX2400-4V |          | 3 ~ 10.5 mm       |                  | 1/2.7"       |
| GV-BX2400-8F | Fixed    | 2.8 mm            | F/1.8            | 1/2.5"       |

### Active Tampering Alarm

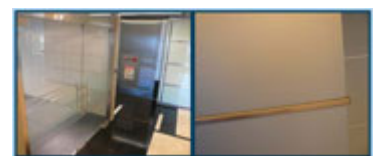
Tampered



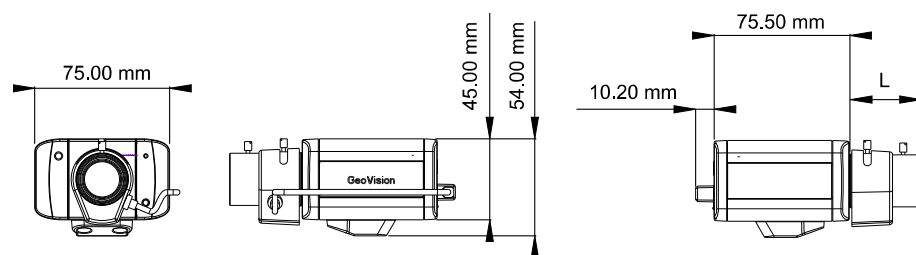
Focus Change



Camera Shift



## Dimensions



| Model     | L Length        |
|-----------|-----------------|
| BX2400-0F | 15.7 mm (0.62") |
| BX2400-1F | 15.7 mm (0.62") |
| BX2400-2F | 15.7 mm (0.62") |
| BX2400-3V | 39.5 mm (1.56") |
| BX2400-4V | 37.1 mm (1.46") |
| BX2400-8F | 15.7 mm (0.62") |

## Specifications

| Camera               |       | GV-BX2400-0F                         | GV-BX2400-1F | GV-BX2400-2F | GV-BX2400-8F | GV-BX2400-3V | GV-BX2400-4V |
|----------------------|-------|--------------------------------------|--------------|--------------|--------------|--------------|--------------|
| Image Sensor         |       | 1/3.2" progressive scan CMOS         |              |              |              |              |              |
| Picture Elements     |       | 1920 (H) x 1080 (V)                  |              |              |              |              |              |
| Minimum Illumination | Color | 0.08 Lux                             |              |              |              |              |              |
|                      | B/W   | 0.05 Lux                             |              |              |              |              |              |
|                      | IR ON | 0 Lux                                |              |              |              |              |              |
| Shutter Speed        |       | Automatic, Manual (1/5 ~ 1/8000 sec) |              |              |              |              |              |
| White Balance        |       | Automatic, Manual (2800 ~ 8500K)     |              |              |              |              |              |
| Gain Control         |       | Automatic                            |              |              |              |              |              |
| S/N Ratio            |       | 47 dB                                |              |              |              |              |              |
| BLC                  |       | Yes                                  |              |              |              |              |              |
| WDR Pro              |       | Yes (with WDR sensor)                |              |              |              |              |              |

### Lens

|                            |       |                                    |        |       |                 |                              |
|----------------------------|-------|------------------------------------|--------|-------|-----------------|------------------------------|
| Megapixel                  |       | Yes                                |        |       |                 |                              |
| Day/Night                  |       | Yes (with removable IR-cut filter) |        |       |                 |                              |
| Lens Type                  |       | Fixed                              |        |       | Varifocal       |                              |
| Focal Length               |       | 4 mm                               | 8 mm   | 12 mm | 2.8 mm          | 2.8 ~ 12 mm      3 ~ 10.5 mm |
| Maximum Aperture           |       | F/1.5                              | F/1.6  |       | F/1.8           | F/1.4                        |
| Mount                      |       | CS Mount                           |        |       |                 |                              |
| Image Format               |       | 1/3"                               | 1/2.5" |       | 1/2.7"          | 1/2.7"                       |
| Horizontal FOV             |       | 58°                                | 32°    | 21°   | 83°             | 77° ~ 28°      73° ~ 27°     |
| Operation                  | Focus | Manual                             |        |       | Manual (w/lock) |                              |
|                            | Zoom  | Fixed                              |        |       | Manual (w/lock) |                              |
|                            | Iris  | Fixed                              |        |       | DC drive        |                              |
| Torque (Focus/Zoom screws) |       | 0.049 N.m                          |        |       |                 |                              |

### Operation

|                   |                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Compression | H.264, MJPEG                                                                                                                                                                              |
| Video Streaming   | Dual streams from H.264 and MJPEG                                                                                                                                                         |
| Frame Rate        | 30 fps at 1920 x 1080<br>* The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).                                           |
| Image Setting     | Brightness, Contrast, Saturation, Sharpness, Gamma, White Balance, Flicker-less, Image Orientation, Shutter Speed, D/N Sensitivity, Backlight Compensation, WDR, Defog, Denoise, Metering |
| Audio Compression | G.711, AAC (optional)                                                                                                                                                                     |
| Audio Support     | Two-Way Audio                                                                                                                                                                             |
| Sensor Input      | 1 input (Dry Contact)                                                                                                                                                                     |
| Alarm Output      | 1 Digital 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 | 10/100 Ethernet |
|-----------|-----------------|

| Network                 |               |                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocol                |               | HTTP, HTTPS, TCP, UDP, SMTP, FTP, DHCP, NTP, UPnP, DynDNS, 3GPP/ISMA, RTSP, PSIA, SNMP, QoS (DSCP), ONVIF (Profile S)                                                                                                                                                                                                                           |
| Wireless LAN            |               | IEEE 802.11 b/g/n                                                                                                                                                                                                                                                                                                                               |
| Antenna Type            |               | External                                                                                                                                                                                                                                                                                                                                        |
| Security                |               | WEP, WPA-PSK(TKIP), WPA-PSK(AES), WPA2-PSK(TKIP), WPA2-PSK(AES)                                                                                                                                                                                                                                                                                 |
| Mechanical              |               |                                                                                                                                                                                                                                                                                                                                                 |
| Temperature Detector    |               | Yes                                                                                                                                                                                                                                                                                                                                             |
| Connectors              | Power         | 2-pin terminal block, PoE                                                                                                                                                                                                                                                                                                                       |
|                         | Ethernet      | RJ-45                                                                                                                                                                                                                                                                                                                                           |
|                         | Audio         | 1 In (Using the built-in microphone or externally connecting a microphone)<br>1 Out (Stereo phone jack, 3.5 mm / 0.14 in)                                                                                                                                                                                                                       |
|                         | Digital I/O   | 3-pin terminal block, pitch 2.5 mm / 0.1 in                                                                                                                                                                                                                                                                                                     |
|                         | Auto Iris     | Yes (with varifocal lens)                                                                                                                                                                                                                                                                                                                       |
|                         | Local Storage | Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10)<br>*SDXC and UHS-I card types are not supported.                                                                                                                                                                                                                                    |
|                         | TV-Out        | BNC connector (640 x 480 resolution)                                                                                                                                                                                                                                                                                                            |
|                         | Mini USB      | GV-WiFi Adapter or USB hard drive                                                                                                                                                                                                                                                                                                               |
| LED Indicator           |               | 2 LEDs: Power, Status                                                                                                                                                                                                                                                                                                                           |
| General                 |               |                                                                                                                                                                                                                                                                                                                                                 |
| Operating Temperature   |               | 0 °C ~ 50 °C / 32 °F ~ 122 °F                                                                                                                                                                                                                                                                                                                   |
| Humidity                |               | 10% to 90% (no condensation)                                                                                                                                                                                                                                                                                                                    |
| Power Source            |               | 12V DC / PoE                                                                                                                                                                                                                                                                                                                                    |
| Max. Power Consumption  |               | 9.5W                                                                                                                                                                                                                                                                                                                                            |
| Dimensions (L X W X H)  |               | 75.5 x75 x 54 mm / 2.97 x 2.95 x 2.13 in (without lens)                                                                                                                                                                                                                                                                                         |
| Weight                  |               | 300 g / 0.66 lb                                                                                                                                                                                                                                                                                                                                 |
| Regulatory              |               | CE, FCC, RCM, RoHS compliant                                                                                                                                                                                                                                                                                                                    |
| Power over Ethernet     |               |                                                                                                                                                                                                                                                                                                                                                 |
| PoE Standard            |               | IEEE 802.3af Class 3 Power over Ethernet / PD                                                                                                                                                                                                                                                                                                   |
| PoE Power Supply Type   |               | End-Span                                                                                                                                                                                                                                                                                                                                        |
| PoE Power Output        |               | Per Port 48V DC, 350mA. Max. 15.4 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:**

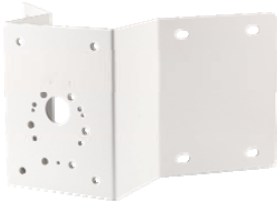
- The signal range and data throughput may vary depending on the network conditions and environmental factors.
- Mind the following limitations and requirements for the mini USB port:
  - The USB hard drive must be of 2.5" or 3.5", version 2.0 or above
  - The USB hard drive's storage capacity must not exceed 2TB
  - USB flash drives and USB hubs are not supported
  - External power supply is required for the USB hard drive
- Specifications are subject to change without notice.
- 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.
  - 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. Box Camera                              | 7. Power Adapter                    |
| 2. Terminal Block                          | 8. GV-IPCAM H.264 Quick Start Guide |
| 3. Fixed Focal or Varifocal Megapixel Lens | 9. GV-IPCAM H.264 Software CD       |
| 4. Six Lens Rings                          | 10. GV-NVR Quick Start Guide        |
| 5. Video Out Wire                          | 11. GV-NVR Software DVD             |
| 6. Camera Holder                           |                                     |

**Note:** The power adapter can be excluded upon request.

## Accessories

| Model No.            | Name                                                                                                     | Details                                                                                                                                                                                                                                                                                                                                               |
|----------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | Convex Corner Adapter Kit                                                                                |                                                                                                                                                                                                                                                                                                                                                       |
| GV-Mount300          |                         | Dimensions: 238.6 x 409.5 mm (9.4" x 16.1")<br>Weight: 4.27 Kg (9.41 lb)                                                                                                                                                                                                                                                                              |
|                      | Concave Corner Adapter Kit                                                                               |                                                                                                                                                                                                                                                                                                                                                       |
| GV-Mount310          |                        | Dimensions: 123.3 x 393.1 mm (4.9" x 15.5")<br>Weight: 2.96 Kg (6.53 lb)                                                                                                                                                                                                                                                                              |
|                      | Pole Mount Bracket Kit (Ø 4" ~ 6")                                                                       |                                                                                                                                                                                                                                                                                                                                                       |
| GV-Mount400          |          | 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"                                                                                                                                                                                                                                    |
|                      | Pole Mount Bracket Kit (Ø 6" ~ 7.5")                                                                     |                                                                                                                                                                                                                                                                                                                                                       |
| GV-Mount410          |        | 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"                                                                                                                                                                                                                                   |
|                      | Housing Box (with heater and fan)                                                                        |                                                                                                                                                                                                                                                                                                                                                       |
| GV-Housing101        |  <div>IP67 IK10</div> | Dimensions: 406 x 145 x 109 mm (16 x 5.7 x 4.3")<br>Weight: 4.69 Kg ( 10.34 lbs) (including Supporting Tube)<br>Start-up Temperature: -30°C ~ 50°C (-22°F ~ 122°F)<br>Operation Temperature: -40°C ~ 50°C (-40°F ~ 122°F)<br>Heater: 15°C (59°F) On / 25°C (77°F) Off<br>Fan: 35°C (95°F) On / 25°C (77°F) Off<br>Power board: 24V AC or 12V DC input |
|                      |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                       |
| GV-IR LED T2         |                       | Weight: 140 g / 0.31 lbs<br>Dimensions (H x W x D): 49 x 47 x 67 mm / 1.93 x 1.85 x 2.64 in                                                                                                                                                                                                                                                           |
|                      |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                       |
| GV-PA191 PoE Adapter |                       | Weight: 130 g / 0.29 lb<br>Dimensions (H x W x D): 43 x 69 x 40 mm / 1.69 x 2.72 x 1.57 in                                                                                                                                                                                                                                                            |

| Model No.       | Name                                                                              | Details                                                                                                                                                                                                        |
|-----------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GV-Relay V2     |  | 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. |
| Power Adapter   |                                                                                   | Power adapters are available in 4 regions: U.S.A., Australia, U.K and Europe.                                                                                                                                  |
| 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.                       |
| GV-WiFi Adaptor |  | Weight: 20 g / 0.04 lb<br>Dimensions (H x W x D): 15 x 15 x 155 (mm) / 0.59 x 0.59 x 6.10 (in)<br>Supplied with mini USB to standard USB adapter.                                                              |