# GV-BX2500 Series    2MP H.264 Super Low Lux WDR D/N Box IP Camera

GV-BX2500-8F

GV-BX2500-3V

- 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
- P-Iris for auto iris adjustment
- 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
- Recording assigned by GV-Edge Recording Manager (Windows, Mac version)
- Mini USB slot for WiFi adapter or USB hard drive
- Wide Dynamic Range (WDR)
- 3D noise reduction
- Defog
- Motion detection
- Tampering alarm
- Privacy mask
- IP address filtering
- DC 12V / PoE (IEEE 802.3af)
- 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
- More storage option – NAS

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

## Introduction

The GV-BX2500 is a series of indoor IP cameras containing a varifocal and several fixed focal models. The camera is equipped with a Super Low Lux CMOS image sensor which allows the camera to provide a color live view in near darkness. The camera features a mini USB port which supports wireless connection through a GV-WiFi Adapter (optional) or external storage using a USB hard drive.

## Models

| Models | Iris | Focal Length (mm) | Maximum Aperture | Image Format |
|---|---|---|---|---|
| GV-BX2500-3V | P-Iris | 3 ~ 10.5 mm | F/1.4 | 1/2.7" |
| GV-BX2500-8F | Fixed | 2.8 mm | F/1.8 | 1/2.5'' |

## Active Tampering Alarm

| Tampered | Focus Change | Camera Shift |
|---|---|---|
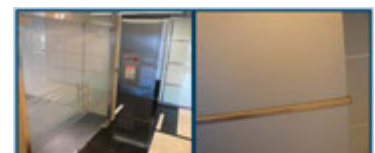
## Dimensions
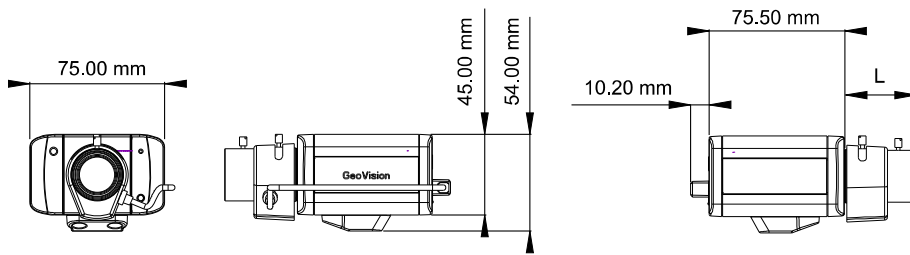


| Model | L Length |
|---|---|
| BX2500-3V | 35.38 mm (1.39") |
| BX2500-8F | 15.7 mm (0.62") |

## Specifications

| Camera | | GV-BX2500-8F | GV-BX2500-3V |
|---|---|---|---|
| Image Sensor | | 1/2.8" progressive scan super low lux CMOS | |
| Picture Elements | | 1920 (H) x 1080 (V) | |
| Minimum Illumination | Color B/W | 0.02 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 | | 52 dB | |
| WDR | | Yes | |
| **Lens** | | | |
| Megapixel | | Yes | |
| Day/Night | | Yes (with removable IR-cut filter) | |
| Lens Type | | Fixed | Varifocal |
| Focal Length | | 2.8 mm | 3 ~ 10.5 mm |
| Maximum Aperture | | F/1.8 | F/1.4 |
| Mount | | CS Mount | |
| Image Format | | 1/2.5" | 1/2.7" |
| Horizontal FOV | | 107° | 96° ~ 34° |
| Operation | Focus | Manual | Manual (w/lock) |
| | Zoom | Fixed | Manual (w/lock) |
| | Iris | Fixed | P-Iris |
| Torque (Focus/Zoom screws) | | 0.049 N.m | |
| **Operation** | | | |
| Video Compression | | H.264, MJPEG | |
| Video Streaming | | Dual streams from H.264 or MJPEG | |
| Frame Rate | | 30 fps at 1920 x 1080 (60/50 Hz) * 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, Super Low Lux, Denoise, Metering | |
| Audio Compression | | G.711, AAC (optional) | |
| Audio Support | | Two-way audio | |
| Sensor Input | | 1 Input (dry contact) | |
| Alarm Output | | 1 Digital output (200 mA 5V DC) | |
| **Video Resolution** | | | |
| Main Stream | 4:3 | 1280 x 960, 640 x 480, 320 x 240 | |
| | 16:9 | 1920 x 1080 (Default), 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 (Default) | |
| | 5:4 | 640 x 512, 320 x 256 | |

| Network | | |
|---|---|---|
| Interface | | 10/100 Ethernet |
| Protocol | | DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), QoS (DSCP), RTSP, SNMP, SMTP, TCP, UDP, UPnP, 3GPP/ISMA |
| 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) 1 Out (stereo phone jack, 3.5 mm / 0.14'') |
| | Digital I/O | 3-pin terminal block, pitch 2.5 mm (0.1'') |
| | Auto Iris | Yes (with varifocal lens) |
| | Local Storage | Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10) *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 (IEEE 802.3af) |
| Max. Power Consumption | | 7.99 W for DC-driven iris; 6.42 W for P-Iris |
| Dimensions (without lens) | | 75.5 x75 x 54 mm (2.97'' x 2.95'' x 2.13'') |
| Weight | | 300 g (0.66 lb) |
| Regulatory | | CE, RCM, FCC, RoHS compliant |
| **Power over Ethernet** | | |
| PoE Standard | | PoE (IEEE 802.3af Class 3 Power over Ethernet / PD) |
| PoE Power Supply Type | | End-Span |
| PoE Power Output | | Per Port 48V DC, 350 mA, 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-DVR/NVR, GV-Backup Center, GV-Recording Server, GV-VMS |
| Smart Device Access | | GV-Eye for iOS and Android |
| Live Viewing | | IE, mobile phone |
| CMS Server support | | GV-Control Center, GV-Center V2, GV-Vital Sign Monitor |

**Note:**

1. The signal range and data throughput may vary depending on the network conditions and environmental factors.
2. 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
   - To connect a GV-WiFi Adapter, make sure it is connected before the camera is powered on.
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.
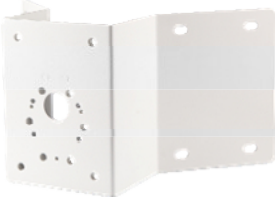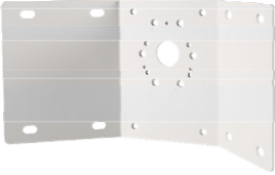
- The stored data can be lost if the memory card is not accessed for a long period of time. Back up your data periodically if you seldom access the memory card.
- Memory cards are expendable and their durability varies according to the conditions of the installed site and how they are used. Back up your 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 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.

4. Specifications are subject to change without notice.

## Packing List

1. Box Camera
2. Terminal Block
3. Fixed Focal or Varifocal Megapixel Lens
4. Six Lens Rings
5. Video Out Wire
6. Camera Holder
7. Holder Screw x 2
8. Power Adapter
9. Download Guide
10. Warranty Card

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

## Accessories

| Model No. Name | | Details |
|---|---|---|
| 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 x 393.1 mm (4.9'' x 15.5") <br> Weight: 2.96 kg (6.53 lb) |
| GV-Mount400 | Pole Mount Bracket Kit (Ø 4" ~ 6") | 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" |
| GV-Mount410 | Pole Mount Bracket Kit (Ø 6" ~ 7.5") | 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" |

| Model No. Name | | Details |
|---|---|---|
| GV-Housing101<br>IP67  IK10 | Housing Box (with heater and fan) | Dimensions: 406 x 145 x 109 mm (16 x 5.7 x 4.3")<br><br>Weight: 4.69 kg ( 10.34 lbs) (including Supporting Tube)<br><br>Start-up Temperature: -30°C ~ 50°C (-22°F ~ 122°F)<br><br>Operation Temperature: -40°C ~ 50°C (-40°F ~ 122°F)<br><br>Heater: 15°C (59°F) On / 25°C (77°F) Off<br><br>Fan: 35°C (95°F) On / 25°C (77°F) Off<br><br>Power board: 24V AC or 12V DC input |
| GV-PA191 PoE Adapter | | Weight: 130 g / 0.29 lb<br><br>Dimensions (H x W x D): 43 x 69 x 40 mm / 1.69 x 2.72 x 1.57 in |
| 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 | | Contact our sales representatives for the countries and areas supported. |
| 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 V2 | | Weight: 0.01 kg (0.02 lb)<br>Dimensions: 15 x 15 x 155 mm (0.59 x 0.59 x 6.10")<br>Supplied with Mini USB to standard USB adapter |