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

75.00 mm

45.00 mm   54.00 mm

75.50 mm

10.20 mm

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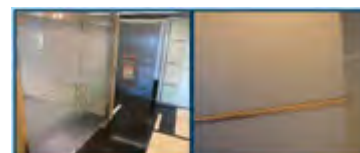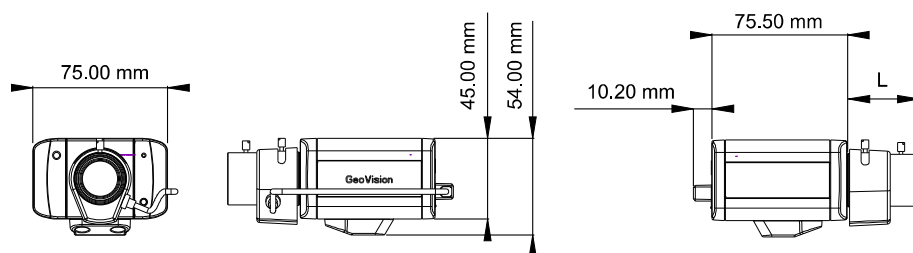
Model	L Length
BX2500-3V	35.38 mm (1.39")
BX2500-8F	15.7 mm (0.62")

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	

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Network	
Interface	10/100 Ethernet
Protocol	DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), PSIA, 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-System (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. Specifications are subject to change without notice.
4. 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.

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. GV-IPCAM H.264 Software DVD
10. GV-NVR Software DVD
11. 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") 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") Weight: 2.96 kg (6.53 lb)
GV-Mount400	Pole Mount Bracket Kit (Ø 4" ~ 6")	Dimensions Bracket: 241 x 161 mm (9.5'' x 6.3") Weight: 1.70 kg (3.75 lb) Steel Strap Diameter: Ø 4" ~ 6"
GV-Mount410	Pole Mount Bracket Kit (Ø 6" ~ 7.5")	Dimensions Bracket: 241 x 161 mm (9.5'' x 6.3") Weight: 1.70 kg (3.75 lb) Steel Strap Diameter: Ø 6" ~ 7.5"

Model No. Name		Details
GV-Housing101 **IP67** **IK10**	Housing Box (with heater and fan)	Dimensions: 406 x 145 x 109 mm (16 x 5.7 x 4.3") Weight: 4.69 kg (10.34 lbs) (including Supporting Tube) Start-up Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Operation Temperature: -40°C ~ 50°C (-40°F ~ 122°F) Heater: 15°C (59°F) On / 25°C (77°F) Off Fan: 35°C (95°F) On / 25°C (77°F) Off Power board: 24V AC or 12V DC input
GV-PA191 PoE Adapter		Weight: 130 g / 0.29 lb 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 your sales representative 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.