

## GV-BX4700 Series 4MP H.265 Super Low Lux WDR Pro D/N Box IP Camera

GV-BX4700-8F



GV-BX4700-3V



- 1/3" progressive scan super low lux CMOS
- Min. illumination at 0.02 lux
- Triple streams from H.265, H.264 and MJPEG
- Up to 20 fps at 2592 x 1520, 25 fps at 2560 x 1440, 30 fps at 2048 x 1520
- P-Iris for auto iris adjustment
- Built-in / external microphone
- Two-way audio
- One sensor input and alarm output
- TV-out support
- Built-in micro SD card slot (SD/SDHC/SDXC/UHS-I) for local storage
- Mini USB slot for WiFi adapter or USB hard drive
- Wide Dynamic Range Pro (WDR Pro)
- 3D noise reduction
- Face Detection
- Smart streaming
- Defog
- Privacy mask
- IP address filtering
- 12V DC / PoE (IEEE 802.3af)
- Removable IR-cut filter for Day/Night function
- Varifocal megapixel lens
- Recording assigned by GV-Edge Recording Manager ([Windows](#), [Mac](#) version)
- Supports iPhone, iPad, Android & 3GPP
- 31 languages on Web interface
- ONVIF (Profile S, T) conformant

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

\* Smart streaming requires GV-DVR / NVR V8.7.0, GV-VMS V16.10.3 or later software versions.

\* Face detection requires GV-VMS 18.1 or later.

### Introduction

The GV-BX4700 is a series of indoor IP cameras containing a varifocal and a fixed focal model. GV-BX4700 can support H.265 video codec to achieve better compression ratio while maintaining high picture quality at reduced network bandwidths. 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-BX4700-3V	P-Iris	3 ~ 10.5 mm	F/1.4	1/2.7"
GV-BX4700-8F	Fixed	2.8 mm	F/1.8	1/2.5"

### Active Tampering Alarm

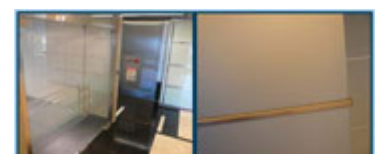
Tampered



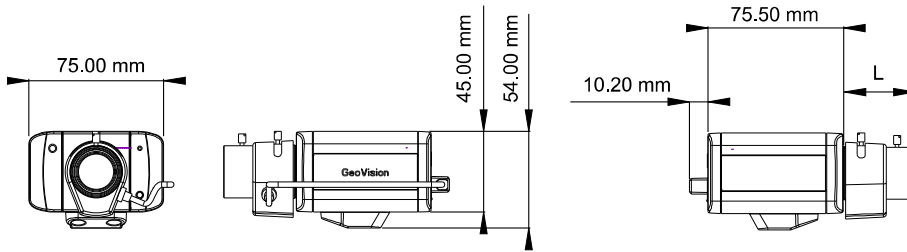
Focus Change



Camera Shift



## Dimensions



Model	L Length
BX4700-3V	35.38 mm (1.39")
BX4700-8F	15.7 mm (0.62")

## Specifications

Camera	GV-BX4700-8F	GV-BX4700-3V
Image Sensor	1/3" progressive scan super low lux CMOS	
Picture Elements	2592 (H) x 1520 (V)	
Minimum Illumination	Color	0.03 Lux
	B/W	0.02 Lux
	IR ON	0 Lux
Shutter Speed	Automatic, Manual (1/5 ~ 1/16000 sec)	
White Balance	Automatic, Manual (2800 ~ 8500K)	
Gain Control	Automatic	
S/N Ratio	50 dB	
WDR Pro	Yes	
Dynamic Range	120 dB	
<b>Lens</b>		
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	104°	78° ~ 31°
Operation	Focus	Manual (w/lock)
	Zoom	Fixed
	Iris	N/A
Torque (Focus/Zoom screws)	0.049 N.m	
<b>Operation</b>		
Video Compression	H.265, H.264, MJPEG	
Video Streaming	Stream 1 from H.265 or H.264 Stream 2 from H.265, H.264 or MJPEG Stream 3 from H.265, H.264 or MJPEG	
Frame Rate	50Hz: 20 fps at 2592 x1520, 25 fps at 2560 x 1440, 25 fps at 2048 x 1520 60Hz: 20 fps at 2592 x1520, 24 fps at 2560 x 1440, 30 fps at 2048 x 1520 * 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 (Flip, Mirror, 0°, 90°, 180°, 270°-including Corridor format), Shutter Speed, Backlight Compensation, D/N Sensitivity, WDR, Defog, Low Lux Enhancement, Denoise, Metering	
Audio Compression	G.711	
Audio Support	Two-way Audio (external speaker required)	
Sensor Input	1 input (dry contact)	
Alarm Output	1 digital output (200 mA 5V DC)	

Video Resolution		
	4:3	2048 x 1520, 1600 x 1200, 1280 x 960, 640 x 480
Main Stream	16:9	2592 x 1520, 2560 x 1440 (Default), 2304 x 1296, 1920 x 1080, 1280 x 720, 640 x 360
	5:4	1280 x 1024, 640 x 512
Sub Stream	4:3	1024 x 768, 640 x 480, 320 x 240
	16:9	1280 x 720, 640 x 360 (Default), 448 x 256
	5:4	1280 x 1024, 640 x 512, 320 x 256
Third Stream (Closed by Default)	4:3	640 x 480, 320 x 240
	16:9	640 x 360, 448 x 256
	5:4	640 x 512, 320 x 256
Network		
Interface	10/100 Ethernet	
Protocol	DHCP, DNS, DynDNS, FTP, HTTP, HTTPS, ICMP, IPv4, IPv6, Multicast, NTP, ONVIF (Profile S, T), QoS (DSCP), RTCP, RTSP, SNMP, SMTP, SSL, TCP/IP, 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)	
Security Feature	- No default ID and Password	
	- 802.1x authentication	
	- HTTPS with a SSL certificate stored in the camera	
	- 256-bit AES encryption (requires firmware V1.14 or later working with GV-VMS V18.1 or later)	
Mechanical		
Temperature Detector	Yes	
Connectors	Power	2-pin terminal block (DC 12V, 1.25 A), PoE
	Ethernet	Ethernet (10/100 Base-T), RJ-45 cable
	Audio	1 In (built-in or external 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/SDXC/UHS-I, Class 10) *UHS-II card type is 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		
Environment Temperature	Start-up	0 °C ~ 50 °C (32 °F ~ 122 °F)
	Operation	
Humidity	10% to 90% (no condensation)	
Power Source	12V DC / PoE (IEEE 802.3af)	
Max. Power Consumption	4.9 W	
Dimensions (without lens)	75.5 x 75 x 54 mm (2.97" x 2.95" x 2.13")	
Weight	320 g (0.7 lb)	350 g (0.77 lb)
Regulatory	CE, FCC, RCM, LVD, RoHS compliant	
Power over Ethernet		
PoE Standard	PoE (IEEE 802.3af Power over Ethernet / PD)	
PoE Power Supply Type	End-Span, Mid-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, Audio, Picture in Picture, Picture and Picture, Privacy Mask, 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	
Software Supported	GV-DVR / NVR (V8.7.0.0), GV-VMS (V15.11.0.0), GV-Edge Recording Manager (V1.2.0.0), GV-Center V2 (V15.10.0.0), GV-Recording Server (V1.3.0.0), GV-Redundant / Failover Server (V1.1.0.0)
Smart Device Access	GV-Eye for iOS and Android
Live Viewing	Browser (IE, Chrome, Firefox, Safari), Mobile app
CMS Server support	GV-Control Center, GV-Center V2, GV-Vital Sign Monitor

**Note:**

- It is required to apply patch files to all the supported software.
- 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
  - To connect a GV-WiFi Adapter, make sure it is connected before the camera is powered on.
- 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.
- Specifications are subject to change without notice.


### Packing List

- |   |                     |
|---|---------------------|
| 1. H.265 Box Camera                         | 6. Camera Holder    |
| 2. Terminal Block (2-Pin and 3-Pin)         | 7. Holder Screw x 2 |
| 3. Fixed Focal or Varifocal Megapixel Lens  | 8. Download Guide   |
| 4. Six Lens Rings (only for Varifocal Lens) | 9. Warranty Card    |
| 5. Video Out Wire                           |                     |

### Accessories

Model No.	Name	Details
GV-Housing102 <b>IP67</b> <b>IK10</b>	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 lb) (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-Housing103 (not supported by GV-BX4700-8F) <b>IP67</b> <b>IK10</b>	Housing Box (with IR) 	Dimensions: 404 x 128 x 257 mm (15.91 x 5.04 x 10.12") Weight: 7 kg (15.43 lb) (including Supporting Tube) Start-up Temperature: -20°C ~ 50°C (-4°F ~ 122°F) Operation Temperature: -30°C ~ 50°C (-22°F ~ 122°F) IR: 6 IR LEDs with up to 60 m (196.85ft) IR effective distance Power: 12V DC, 1A input

Model No.	Name	Details
GV-Mount300-1	Convex Corner Adapter Kit	Dimensions: 238.6 x 395.2 x 210 mm (9.4" x 15.5" x 8.2") Weight: 4.27 kg (9.41 lb)
		
GV-Mount310-1	Concave Corner Adapter Kit	Dimensions: 111.2 x 369.9 x 210 mm (4.37" x 14.5" x 8.2") Weight: 2.96 kg (6.53 lb)
		
GV-Mount400-1	Pole Mount Bracket Kit (Ø 4" ~ 6")	Bracket: 68.4 x 240 x 163 mm (2.69" x 9.44" x 6.41") Weight: 1.70 kg (3.75 lb) Steel Strap Diameter: Ø 4" ~ 6"
		
GV-Mount410-1	Pole Mount Bracket Kit (Ø 6" ~ 7.5")	Bracket: 68.4 x 240 x 163 mm (2.69" x 9.44" x 6.41") Weight: 1.70 kg (3.75 lb) Steel Strap Diameter: Ø 6" ~ 7.5"
		
Supporting Rack		Dimensions: Ø 58 x 120 mm (2.28" x 4.72") Weight: 0.1 kg (103 g)
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"
GV-POE Switch		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-Relay V2		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.

Model No.	Name	Details
GV-WiFi Adaptor V2		Weight: 0.01 kg (0.02 lb) Dimensions: 15 x 15 x 155 mm (0.59 x 0.59 x 6.10") Supplied with Mini USB to standard USB adapter
Power Adapter	Contact our sales representatives for the countries and areas supported.	

**Note:** GV-Housing103 only works with GV-Mount300-1, GV-Mount310-1, GV-Mount400-1, GV-Mount410-1.