GV-BX4802   AI 4MP H.265 Super Low Lux WDR Pro Box IP Camera

- AI deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/3" progressive scan CMOS sensor
- Min. illumination at 0.0028 lux
- Triple streams from H.265, H.264, and MJPEG
- Up to 30 fps at 2592 x 1520
- Day and Night function (with removable IR-cut filter)
- Wide Dynamic Range Pro (WDR Pro)
- Wide temperature tolerance -30°C ~60°C (-22°F ~ 140°F)
- Built-in microphone
- Two-way audio capable
- Built-in microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) for local storage
- AC 24V / DC 12V / PoE (IEEE 802.3af)
- AI analytics (Line Crossing, Region Entrance, Region Exiting, Target Counting, Region Intrusion, Face Detection, Heat Map)
- Defog
- 3D noise reduction
- Motion detection
- Text overlay
- Privacy mask
- 12 languages supported
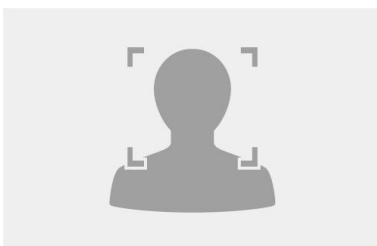- ONVIF (Profile G, S, T, M) conformant

Introduction

GV-BX4802 is a 4 MP network camera equipped with an automatic IR-cut filter for day and night surveillance. Fixed / Iris lens are optional for the camera for a more comprehensive performance depending on different needs. GV-BX4802 supports H.265 / H.264 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.

Empowered by deep learning algorithms, AI technology distinguishes human and vehicles from other moving objects. Integrated with GeoVision Video Management Software (GV-VMS), it supports AI perimeter protection, real-time alert, playback and more.
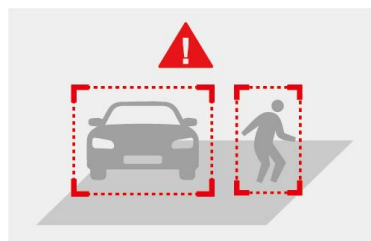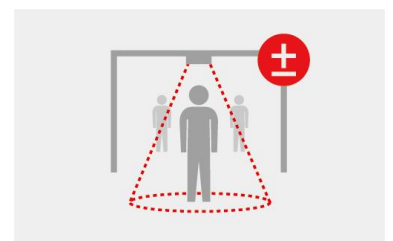
Deep Learning Function
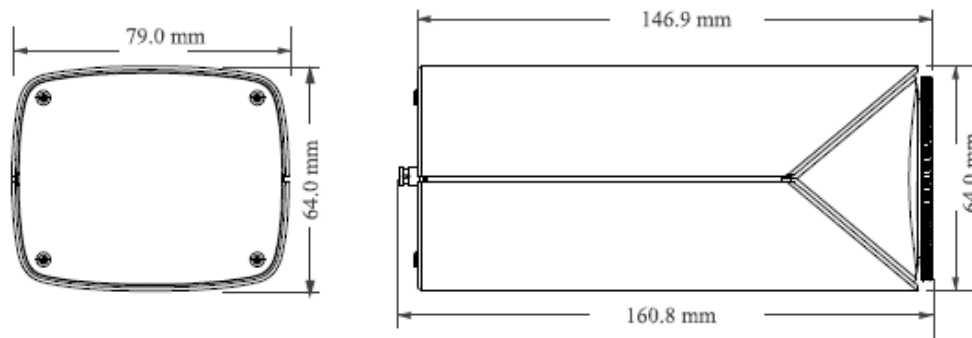
Face Detection

AI Perimeter Protection
(Intrusion, Crossing Line
Entering Area, Leaving Area)

People Counting

Dimensions

Specifications

Camera		
Image Sensor		1/3" progressive scan CMOS
Picture Elements		2592 (H) x 1520 (V)
Minimum Illumination	Color	0.0028 Lux (F1.2, AGC ON)
	B/W	0.001 Lux (F1.2, AGC ON)
	IR On	0 Lux
Shutter Speed		Automatic, Manual (1 ~ 1/100000 sec)
White Balance		Automatic, Manual
Gain Control		Automatic, Manual
S/N Ratio		52 dB
WDR Pro		Yes
Dynamic Range		120 dB
Day/Night		Yes (with removable IR-cut filter)
Mount		CS Mount
Iris		DC Iris
Operation		
Video Compression		H.265, H.265+, H.264, H.264+, MJPEG
Video Streaming		Triple streams
Video Resolution	Main Stream	2592 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720
	Sub Stream	1280 x 720 (Default), 704 x 480, 352 × 240
	Third Stream	704 x 480, 480 x 240, 352 × 240 (Default)
Frame Rate		30 fps at 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 480 / 352 x 240 / 480 x 240 (60 / 50 Hz)
		HFR Mode: 60 fps at 1920 x 1080 / 1280 x 720 (60 / 50 Hz)
		* The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).
Maximum throughput	AI off	64 Mbps
	AI on	12Mbps
Maximum stream *When the total bitrate is within the maximum throughput		10
Video Analytics		Motion Detection, Video Exception Detection (Scene Change, Video Blur and Video Cast Detection, Object Abandoned/Missing Detection
Smart Alarm		Motion Detection, Sensor Alarm, SD Card Error, SD Card Full, IP Address Conflict, Cable Disconnection
Image Setting		Brightness, Contrast, Saturation, Sharpness, Flicker-less, 3D Noise Reduction, Image Orientation (Flip, Mirror, 0°, 90°, 180°, 270°-including Corridor format).
Audio Compression		G.711
Audio Support		Two-way Audio (external speaker required)

Digital I/O	Input	2 Inputs dry contact, NO / NC	
	Output	2 Relay Outputs (1A 30V DC / 0.3A 125V AC)	

Deep Learning Function

AI Analytics	-Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Heat Map: Human & Vehicle classification -Face Detection

Network

Interface	10/100 Ethernet	
Protocol	802.1x , DDNS, DHCP, FTP, HTTP, HTTP POST, HTTPS, IPv4, IPv6, NTP, ONVIF (Profile G, S, T, M), PPPoE, RTSP, RTMP, SMTP, SNMP, UDP, UPnP, QoS	

Mechanical

Connectors	Power	2-pin terminal block (DC 12V, 1.25A), PoE	
	Ethernet	RJ-45	
	Audio	Built-in microphone	Yes
		External microphone required	Yes (audio jack, 3.5 mm or 0.14 in)
		Built-in speaker	No
		External speaker required	Yes (audio jack, 3.5 mm or 0.14 in)
		* Choose either the built-in or external option for devices with a microphone or speaker. * The Audio In port only supports microphones with a power supply.	
	Digital I/O	8-pin terminal block pitch 2.54 mm (0.1")	
	RS-485	2-pin terminal block for PTZ camera	
	TV-Out	BNC connector	
	Local Storage	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) * UHS-II card type is not supported.	

General

Operating Temperature	-30~ 60°C (-22 ~ 140°F)
Humidity	0 ~ 95% (no condensation)
Power Source	24V AC / 12V DC / PoE (IEEE 802.3af)
Max. Power Consumption	11 W
Dimensions	160.8 x 79 x 64 mm (6.33 x 3.11 x 2.52")
Weight	0.65 kg (1.43 lb)
Regulatory	CE, FCC, RoHS compliant

Web Interface

Installation Management	Web-based configuration
Maintenance	Firmware upgrade through Web Browser or Utility
Access from Web Browser	Live View, Playback, Video Recording, Image Quality, Bandwidth Control, Image Snapshot, Two-way Audio, Digital Zoom, Text Overlay, Image Masking
Language	Czech, English, French, German, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Traditional Chinese

Software Applications

Software Supported	GV-VMS (V17.4.5 / V18.3.1, patch files required), GV-Recording Server (V2.1.0 or later), GV-Control Center (V4.1.1 or later)
Live Viewing	Web Browser (IE, Edge, Chrome, Firefox, Safari), Mobile APP

Note: Specifications are subject to change without notice.

Packing List

1. GV-BX4802 Box IP Camera (No Lens)
2. 2-Pin Terminal Block
3. Download Guide

Note: Users need to purchase camera lens separately.

Accessories

Model No.	Name		Details
Fixed 2.8 mm Lens			Horizontal FOV: 82° Maximum Aperture: F/2.0 Image Format: 1/2.7" Dimension: Ø30 x 18.2 mm (Ø1.18" x 0.71")
DC-Iris 2.8 mm – 12 mm Lens			Horizontal FOV: 126° ~ 55° Maximum Aperture: F/1.8 Image Format: 1/2.7" Dimension: Ø34 x 50.2 mm (Ø1.33" x 1.98")
GV-Housing104 IP68 IK10			Dimensions: 405 x 150 x 130 mm (15.9 x 5.9 x 5.1") Weight: 3.08 kg (6.79 lb) (including Supporting Tube) 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: 24 V AC or 12 V DC input
GV-PA191	PoE Adapter		GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.
GV-PA301	Gigabit PoE Adapter		GV-PA301 is a Gigabit Power over Ethernet (PoE) adapter.
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.
Power Adapter			Contact our sales representatives for the countries and areas supported.