GV-BL2702 Series   Starlight 2MP H.265 Super Low Lux WDR Pro IR Bullet IP Camera

- 1/2.8" progressive scan super low lux CMOS
- Min. illumination at 0.004 lux
- Triple streams from H.265, H.264, and MJPEG
- Up to 30 fps at 1920 x 1080
- Intelligent IR
- IR distance up to 60 m (200 ft)
- Removable IR-cut filter for Day/Night function
- Vandal resistance (IK10 for metal casing)
- Ingress protection (IP67)
- Tolerant to extreme temperatures (-30°C ~ 60°C/-22°F ~ 140°F)
- One sensor input and alarm output
- Built-in micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) for local storage
- Two-way audio
- Wide Dynamic Range Pro (WDR Pro)
- 3D noise reduction
- Defog
- Motion detection
- Tampering alarm
- Privacy mask
- IP address filtering
- DC 12V / AC 24V / PoE (IEEE 802.3af)
- Supports iPhone, iPad, Android & 3GPP
- 31 languages on Web interface
- ONVIF (Profile S, T) conformant

* No Memory Card Slot & local storage function for Argentina.

Introduction

GV-BL2702 Series is specifically designed for outdoors. It adheres to the IP67 standard and has full protection against dust and jets of water. The camera can support H.265 video codec to achieve better compression ratio while maintaining high quality pictures at reduced network bandwidths. GV-BL2702 Series is capable of providing a color live view not only in near darkness but also under contrasting light intensities with its super low lux CMOS image sensor and WDR pro. It is also equipped with a P-Iris, which allows for precise control of exposure, producing images with better clarity and contrast.

Models

Model	Iris	Focal Length (mm)	Maximum Aperture	Image Format
GV-BL2702-3V	P-Iris	2.8 ~ 12 mm	F/1.7	1/2.7''
GV-BL2702-4V		6 ~ 50 mm	F/1.6	
GV-BL2702-5V		9 ~ 22 mm	F/2.0	

Active Tampering Alarm

Tampered	Focus Change	Camera Shift
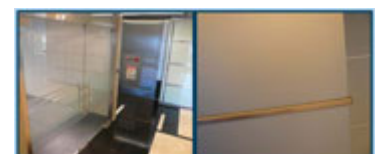
Dimensions
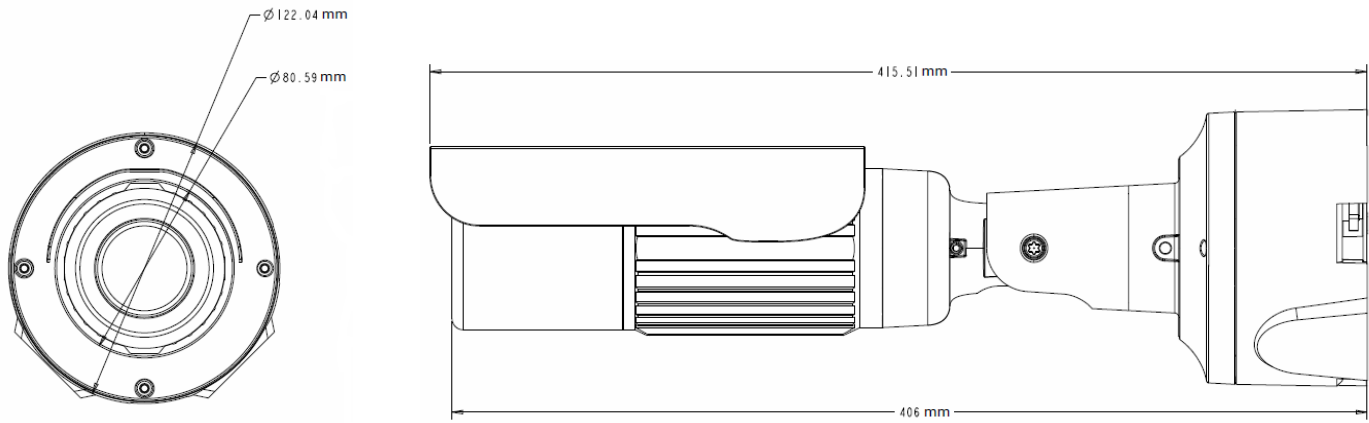
Specifications

Camera		GV-BL2702-3V	GV- BL2702-4V	GV- BL2702-5V
Image Sensor		1/2.8" progressive scan super low lux CMOS		
Picture Elements		1920 (H) x 1080 (V)		
Minimum Illumination	Color	0.005 Lux		
	B/W	0.004 Lux		
	IR ON	0 Lux		
Shutter Speed		Automatic, Manual (1/5 ~ 1/16000 sec)		
White Balance		Automatic, Manual (2800K ~ 8500K)		
Gain Control		Automatic		
S/N Ratio		56 dB		
WDR Pro		Yes		
Dynamic Range		Up to 130 dB		
Lens				
Megapixel		Yes		
Day/Night		Yes (with removable IR-cut filter)		
Lens Type		Varifocal lens		
Focal Length		2.8 ~ 12 mm	6 ~ 50 mm	9 ~ 22 mm
Maximum Aperture		F/1.7	F/1.6	F/2.0
Mount		Ø 14 mm		
Horizontal FOV		110° ~ 38°	56° ~ 8°	42° ~ 17°
Image Format		1/2.7"		
Operation	Focus	Manual (with lock)		
	Zoom	Manual (with lock)		
	Iris	P-Iris		
IR LED Quantity		5 IR LEDs		
Max. IR Distance		60 m (200 ft)		
Operation				
Video Compression		H.265, H.264, MJPEG		
Video Stream		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		50 Hz: 25 fps at 1920 x 1080 60 Hz: 30 fps at 1920 x 1080 * The frame rate and the 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, D/N Sensitivity, Backlight Compensation, WDR Pro, Defog, Low Lux Enhancement, Denoise, Metering		
Audio Compression		G.711		
Audio Support		Two-way Audio (external microphone and speaker required)		
Sensor Input		1 Input (Dry Contact)		
Alarm Output		1 Digital Output (200mA 5V DC)		

Video Resolution

Main Stream	4 : 3	1280 x 960, 640 x 480
	16 : 9	1920 x 1080 (Default), 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
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
Camera Angle Adjustment	Pan	0° ~ 360°
	Tilt	90° ~ 180°
	Rotate	0° ~ 360°
Connectors	Power	2-pin terminal block, PoE
	Ethernet	Ethernet (10/100 Base-T), RJ-45 Cable
	Audio	1 In (microphone jack, 3.5 mm / 0.14") 1 Out (stereo phone jack, 3.5 mm / 0.14")
	Digital I/O	3-pin terminal block, pitch 2.5 mm (0.1")
	Local Storage	Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * UHS-II card type is not supported.
LED Indicator		2 LEDs: Power, Status

General

Environment Temperature	Start-up	-20°C ~ 60°C (-4°F ~ 140°F)
	Operation	-30°C ~ 60°C (-22°F ~ 140°F)
Humidity		10% to 90% (no condensation)
Power Source		12V DC / 24V AC / PoE (IEEE 802.3af)
Max. Power Consumption		12.3 W
Dimensions		Ø121.8 x 406 mm (4.79" x 15.98")
Weight		2.04 kg (4.50 lb)
Ingress Protection		IP67
Vandal Resistance		IK10 for metal casing
Regulatory		CE, FCC, RCM, 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, 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, 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

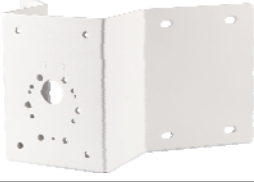| Application	
Software Supported	GV-DVR / NVR (V8.7.4.0), GV-VMS (V16.11.0.0), GV-Control Center (V3.4.0.0), GV-Edge Recording Manager (V1.3.0.0), GV-Center V2 (V16.11), GV-Recording Server (V1.3.0.0), GV-Redundant / Failover Server (V1.1.0.0)
Smart Device Access	GV-Eye for iOS and Android
Live Viewing	Browser (IE, Chrome, Firefox, Safari), Mobile App
CMS Server support	GV-Control Center, GV-Center V2, GV-Vital Sign Monitor

Note:

1. 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.
2. Specifications are subject to change without prior notice.

Packing List

1. H.265 Bullet Camera
2. Stand Kit (Conduit Converter, PG21 Conduit Connector, RJ-45 Connector, M3 Screw x 2, Cable Tie)
3. Sun-Shield Cover Kit (Sun-Shield Cover, Philips Head Screws x 2, Plastic Screw Spacers x 2, Hexagon Screws x 2)
4. Mounting Kit (M4 Screw x 3, Nut x 3, Plate x 3)
5. Screw Anchor x 3
6. Screw for Mounting Kit x 3
7. Hex Wrench
8. 4 mm Wrench
9. 2.5 mm Wrench
10. Silica Gel Bag x 2
11. Ruler
12. Installation Sticker
13. Download Guide
14. Warranty Card

Accessories

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 Diameters: 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 Diameters: Ø 6" ~ 7.5"

Model No.	Name	Details
GV-PA191 PoE Adapter		The GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.
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-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.
I/O Cable		The I/O cable is a multi-connector providing I/O, DC 12V power, and audio connectivity for the camera. Length: 106.8 cm (3.5 ft)
Power Adapter		Contact our sales representatives for the countries and areas supported.