

## GV-BX4700-E 4MP H.265 Super Low Lux WDR Pro IR Arctic Box IP Camera



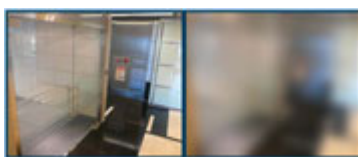
- 1/3" progressive scan super low lux CMOS
  - Min. illumination at 0.02 lux
  - Triple streams from H.265, H.264 and MJPEG
  - Up to 20 fps at 2592 x 1520, 25 fps at 2560 x 1440, 30 fps at 2048 x 1520
  - Day / Night function (with removable IR-cut filter)
  - P-Iris for auto Iris adjustment
  - Vandal resistance (IK10 for metal casing)
  - Ingress protection (IP67)
  - Built-in heater and fan
  - Support for TV-out
  - Recording assigned by GV-Edge Recording Manager ([Windows](#), [Mac](#) version)
  - Two-way audio
  - Wide Dynamic Range Pro (WDR Pro)
  - 3D noise reduction
  - Smart streaming
  - Defog
  - Motion detection
  - Tampering alarm
  - Privacy mask
  - IP address filtering
  - Power supplied through PoE+ (IEEE 802.3at)
  - Megapixel lens
  - Wide temperature tolerance (-40°C ~ 50°C / -40°F ~ 122°F)
  - Support for iPhone, iPad, Android and 3GPP
  - 31 languages on Web interface
  - ONVIF (Profile S, T) conformant
- \* Smart streaming requires GV-DVR / NVR V8.7.0, GV-VMS V16.10.3 or later software versions.

### Active Tampering Alarm

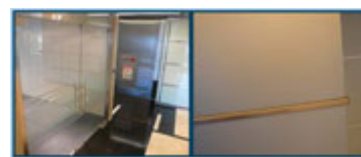
Tampered



Focus Change



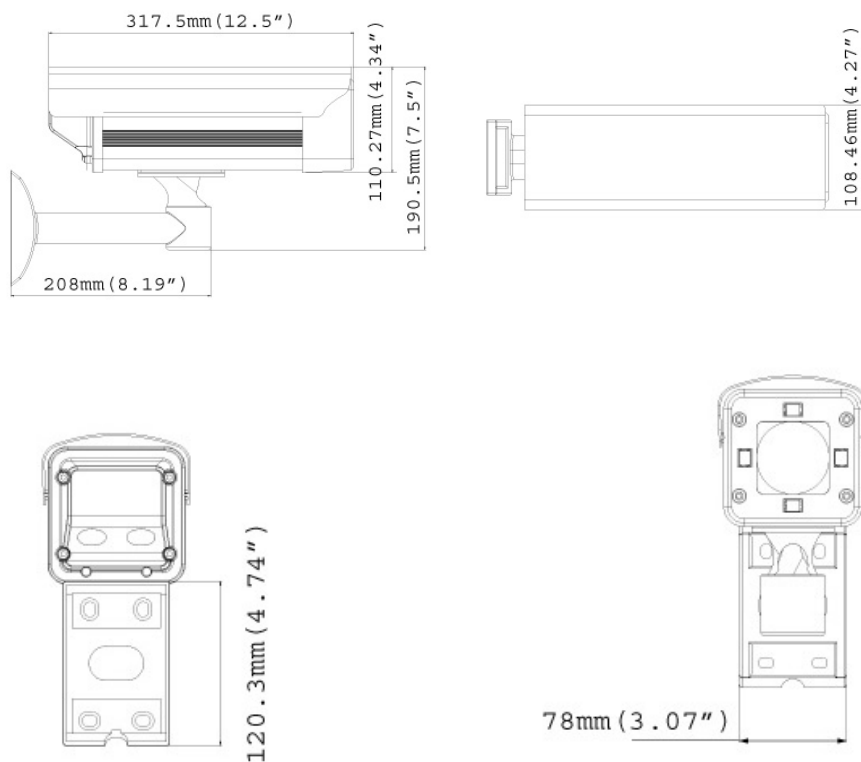
Camera Shift



### Introduction

The GV-BX4700-E is an outdoor camera designed for environments of extreme temperatures. The camera adheres to IP67 and IK10 protection standards, and is equipped with IR LEDs and a removable IR-cut filter for day and night surveillance. GV-BX4700-E supports H.265 video codec to achieve better compression ratio while maintaining high quality pictures at reduced network bandwidths. The camera is capable of processing scenes with contrasting intensity of lights and producing clear images using the built-in WDR Pro. With the super low lux CMOS image sensor, the camera is capable of providing a color live view in near darkness.

## Dimensions



## Specifications

| Camera               |       |                                                                                                                                                                                                                                                                                   |
|----------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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        |       | Up to 120 dB                                                                                                                                                                                                                                                                      |
| Lens                 |       |                                                                                                                                                                                                                                                                                   |
| Megapixel            |       | Yes                                                                                                                                                                                                                                                                               |
| Day/Night            |       | Yes (with removable IR-cut filter)                                                                                                                                                                                                                                                |
| Lens Type            |       | Varifocal                                                                                                                                                                                                                                                                         |
| Focal Length         |       | 3 ~ 10.5 mm                                                                                                                                                                                                                                                                       |
| Maximum Aperture     |       | F/1.4                                                                                                                                                                                                                                                                             |
| Mount                |       | CS Mount                                                                                                                                                                                                                                                                          |
| Image Format         |       | 1/2.7"                                                                                                                                                                                                                                                                            |
| Horizontal FOV       |       | 78°~31°                                                                                                                                                                                                                                                                           |
| Operation            | Focus | Manual (w/lock)                                                                                                                                                                                                                                                                   |
|                      | Zoom  | Manual (w/lock)                                                                                                                                                                                                                                                                   |
|                      | Iris  | P-Iris                                                                                                                                                                                                                                                                            |
| IR Quantity          |       | 4                                                                                                                                                                                                                                                                                 |
| Max. IR Distance     |       | 30 m (100 ft)                                                                                                                                                                                                                                                                     |
| Operation            |       |                                                                                                                                                                                                                                                                                   |
| Video Compression    |       | H.265, H.264, MJPEG                                                                                                                                                                                                                                                               |
| Video Stream         |       | Stream 1 from H.265 or H.264<br>Stream 2 from H.265, H.264 or MJPEG<br>Stream 3 from H.265, H.264 or MJPEG                                                                                                                                                                        |
| Frame Rate           |       | 50 Hz: 20 fps at 2592 x1520, 25 fps at 2560 x 1440, 25 fps at 2048 x 1520<br>60 Hz: 20 fps at 2592 x1520, 24 fps at 2560 x 1440, 30 fps at 2048 x 1520<br>* The frame rate and performance may vary depending on the number of connections and data bit-rates (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 microphone and speaker required)                                                                                                                                                                                                                             |
| <b>Video Resolution</b>             |           |                                                                                                                                                                                                                                                                                      |
| Main Stream                         | 4:3       | 2048 x 1520, 1600 x 1200, 1280 x 960, 640 x 480                                                                                                                                                                                                                                      |
|                                     | 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<br>(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                                                                                                                                                                                                                                                                 |
| <b>Network</b>                      |           |                                                                                                                                                                                                                                                                                      |
| 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                    |           | <ul style="list-style-type: none"> <li>- No default ID and Password</li> <li>- 802.1x authentication</li> <li>- HTTPS with a SSL certificate stored in the camera</li> <li>- 256-bit AES encryption (requires firmware V1.14 or later working with GV-VMS V18.1 or later)</li> </ul> |
| <b>Mechanical</b>                   |           |                                                                                                                                                                                                                                                                                      |
| Camera Angle Adjustment             | Pan       | 0° ~ 330°                                                                                                                                                                                                                                                                            |
|                                     | Tilt      | 0° ~ 90°                                                                                                                                                                                                                                                                             |
| Temperature Detector                |           | Yes                                                                                                                                                                                                                                                                                  |
| Connectors                          | Power     | PoE                                                                                                                                                                                                                                                                                  |
|                                     | Ethernet  | Ethernet (10/100 Base-T), RJ-45 cable                                                                                                                                                                                                                                                |
|                                     | Audio     | 1 In (microphone phone jack, 3.5 mm / 0.14")<br>1 Out (stereo phone jack, 3.5 mm / 0.14")                                                                                                                                                                                            |
|                                     | Auto Iris | P-Iris                                                                                                                                                                                                                                                                               |
|                                     | TV-Out    | BNC connector                                                                                                                                                                                                                                                                        |
| LED Indicator                       |           | 1 (Status LED)                                                                                                                                                                                                                                                                       |
| <b>General</b>                      |           |                                                                                                                                                                                                                                                                                      |
| Environment Temperature             | Start-up  | -30°C ~ 50°C (-22°F ~ 122°F)                                                                                                                                                                                                                                                         |
|                                     | Operation | -40°C ~ 50°C (-40°F ~ 122°F)                                                                                                                                                                                                                                                         |
| Humidity                            |           | 10% to 90% (no condensation)                                                                                                                                                                                                                                                         |
| Power Source                        |           | PoE+ (IEEE802.3at)                                                                                                                                                                                                                                                                   |
| Max. Power Consumption              |           | 23 W                                                                                                                                                                                                                                                                                 |
| Dimensions (L X W X H)              |           | 100.5 x 100.5 x 317.5 mm (3.96" x 3.96" x 12.5")                                                                                                                                                                                                                                     |
| Weight                              |           | 3.2 Kg (7.11 lb)                                                                                                                                                                                                                                                                     |
| Heater On                           |           | -40°C ~ 8°C (-40°F ~ 46.4°F)                                                                                                                                                                                                                                                         |
| Fan                                 |           | Constantly on                                                                                                                                                                                                                                                                        |
| Ingress Protection                  |           | IP67                                                                                                                                                                                                                                                                                 |
| Vandal Resistance                   |           | IK10 for metal casing                                                                                                                                                                                                                                                                |
| Regulatory                          |           | CE, FCC, RCM, LVD, RoHS compliant                                                                                                                                                                                                                                                    |
| <b>Power over Ethernet</b>          |           |                                                                                                                                                                                                                                                                                      |
| PoE Standard                        |           | PoE+ (IEEE 802.3at Power over Ethernet / PD)                                                                                                                                                                                                                                         |
| PoE Power Supply Type               |           | End-Span and Mid-Span                                                                                                                                                                                                                                                                |
| PoE Power Output                    |           | Per Port 48V DC, 600 mA. Max. 30 watts                                                                                                                                                                                                                                               |
| <b>Web Interface</b>                |           |                                                                                                                                                                                                                                                                                      |
| 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                                                                                                  |

## Web Interface

|          |                                                                                                                                                                                                                                                                                                                                                  |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 (V8.7.1.0), GV-VMS (V15.11.1.0), 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:

1. It is required to apply patch files to all the supported software.
2. Specifications are subject to change without notice.

## Packing List

- |                               |                       |
|-------------------------------|-----------------------|
| 1. H.265 IR Arctic Box Camera | 6. Small Torx Wrench  |
| 2. Screw Anchor x 4           | 7. Silica Gel Bag x 2 |
| 3. Screw x 4                  | 8. Adhesive Tape x 2  |
| 4. Washer x 4                 | 9. Download Guide     |
| 5. Big Torx Wrench            | 10. Warranty Card     |

## Accessories

| Model No.            | Name                                                                                                                                       | Details                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GV-Mount300-1        | Convex Corner Adapter Kit<br>                           | Dimensions: 238.6 x 395.2 x 210 mm (9.4" x 15.5" x 8.2")<br>Weight: 4.27 kg (9.41 lb)                                                                                                |
| GV-Mount310-1        | Concave Corner Adapter Kit<br>                          | Dimensions: 111.2 x 369.9 x 210 mm (4.37" x 14.5" x 8.2")<br>Weight: 2.96 kg (6.53 lb)                                                                                               |
| GV-Mount400-1        | Pole Mount Bracket Kit (Ø 4" ~ 6")<br>     | Dimensions:<br>Bracket: 68.4 x 240 x 163 mm (2.69" x 9.44" x 6.41")<br>Weight: 1.70 kg (3.75 lb)<br>Steel Strap Diameter: Ø 4" ~ 6"                                                  |
| GV-Mount410-1        | Pole Mount Bracket Kit (Ø 6" ~ 7.5")<br> | Dimensions:<br>Bracket: 68.4 x 240 x 163 mm (2.69" x 9.44" x 6.41")<br>Weight: 1.70 kg (3.75 lb)<br>Steel Strap Diameter: Ø 6" ~ 7.5"                                                |
| GV-PA482 PoE Adapter |                                                                                                                                            | GV-PA482 PoE adapter is designed to provide power and network connection to GV-BX1500-E / 2400-E / 2510-E / 3400-E / 5300-E / 4700-E / 5310-E over a single Ethernet cable.          |
| 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. |