# GV-BX12201   12MP H.264 Low Lux WDR D/N Box IP Camera

- 1/1.7" progressive scan CMOS
- Dual streams from H.264 or MJPEG
- Up to 15 fps at 4000 x 3000, 30 fps at 3840 x 2160
- Varifocal megapixel lens
- Built-in / external microphone
- Two-way audio
- One sensor input and alarm output
- TV-out support
- Mini USB slot for WiFi Adapter
- DC 12V / 24V AC / PoE (IEEE 802.3af)
- Built-in micro SD card slot (SD/SDHC/SDXC/UHS-I) for local storage
- Removable IR-cut filter for Day / Night function
- Wide Dynamic Range (WDR)
- Low Lux Enhancement
- 3D noise reduction
- Smart Streaming
- Defog
- Motion detection
- Tampering alarm
- Privacy mask
- IP address filtering
- Recording assigned by GV-Edge Recording Manager (Windows, Mac version)
- Supports iPhone, iPad, Android & 3GPP
- 31 languages on Web interface
- ONVIF (Profile S) conformant

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

\* Smart streaming requires GV-NVR V8.7.0.0, GV-VMS V16.10.0.0 or later software versions.

## Introduction

GV-BX12201 is a dual-stream, day / night indoor IP camera containing a varifocal lens. The camera is equipped with a progressive scan CMOS image sensor. It features a 12 MP resolution, and the increased pixel density allows the camera to capture scenes of greater details.
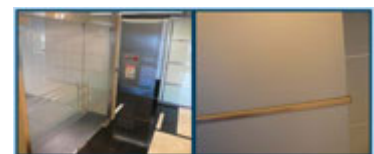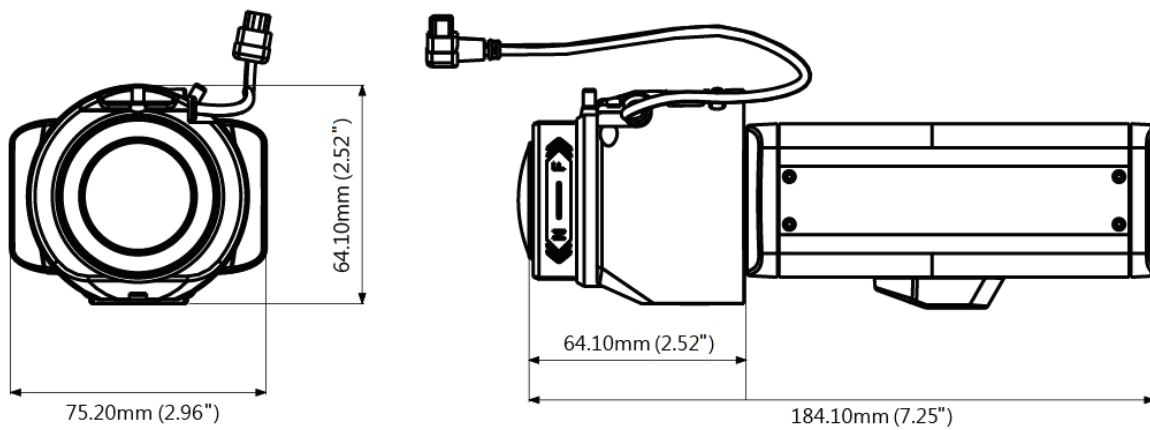
## Active Tampering Alarm
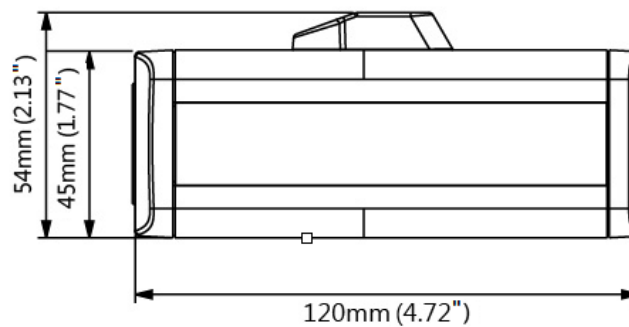
| Tampered | Focus Change | Camera Shift |
|---|---|---|

## Dimensions

### With Lens



64.10mm (2.52")

75.20mm (2.96")

64.10mm (2.52")

184.10mm (7.25")

### Without Lens



54mm (2.13")

45mm (1.77")

120mm (4.72")

## Specifications

| PC Requirements | | |
|---|---|---|
| CPU | | Intel Core i5-4670, 3.40 GHz |
| Memory | | DDR3 8 GB RAM |
| On Board Graphics | | Intel HD Graphics 4600 (Versions of driver from year 2014 or later required) |
| **Camera** | | |
| Image Sensor | | 1/1.7" progressive scan CMOS |
| Picture Elements | | 4000 (H) x 3000 (V) |
| Minimum Illumination | Color | 0.1 Lux |
| | B/W | 0.05 Lux |
| | IR ON | 0 Lux |
| Shutter Speed | | Automatic, Manual (1/30 ~ 1/16000 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 | | Varifocal |
| Focal Length | | 4.1 ~ 9 mm |
| Maximum Aperture | | F/1.6 |
| Mount | | CS Mount |
| Image Format | | 1/1.8" |
| Horizontal FOV | | 109° ~ 50° |

| Operation | Focus | Manual (w/lock) |
| --- | --- | --- |
| | Zoom | Manual (w/lock) |
| | Iris | DC drive |
| Torque (Focus/Zoom screws) | | Focus: 0.05 N.m<br>Zoom: 0.035 N.m |

## Operation

| | |
| --- | --- |
| Video Compression | H.264, MJPEG |
| Video Streaming | Dual streams from H.264 or MJPEG |
| Frame Rate | 15 fps at 4000 x 3000 (60/50 Hz)<br>30 fps at 3840 x 2160 (60/50 Hz)<br>* 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, D/N Sensitivity, Backlight Compensation, WDR, Defog, Denoise, Metering, Low Lux Enhancement |
| Audio Compression | G.711 |
| Audio Support | Two-way Audio (external speaker required) |
| Sensor Input | 1 input (Dry Contact) |
| Alarm Output | 1 Digital Output (200mA 5V DC) |

## Video Resolution

| Main Stream | 4:3 | 4000 x 3000 (Default), 2560 x 1920, 2048 x 1536, 1600 x 1200, 1280 x 960 |
| --- | --- | --- |
| | 16:9 | 3840 x 2160, 1920 x 1080, 1280 x 720 |
| | 5:4 | 1280 x 1024 |
| Sub Stream | 4:3 | 1024 x 768 (Default), 640 x 480, 320 x 240 |
| | 16:9 | 1280 x 720, 640 x 360, 448 x 256 |
| | 5:4 | 1280 x 1024, 640 x 512, 320 x 256 |

## Network

| | |
| --- | --- |
| Interface | 10/100/1000 Ethernet |
| Protocol | DHCP, DNS, DynDNS, FTP, HTTP, HTTPS, ICMP, IPv4, NTP, ONVIF (Profile S), 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) |

## Mechanical

| | | |
| --- | --- | --- |
| Temperature Detector | | Yes |
| Connectors | Power | 2-pin terminal block (DC 12V, 1.25A), PoE |
| | Ethernet | RJ-45 |
| | Audio | 1 In (Built-in or external microphone)<br>1 Out (Stereo phone jack, 3.5 mm / 0.14 in) |
| | Digital I/O | 3-pin terminal block, pitch 2.5 mm / 0.1 in |
| | Auto Iris | Yes (with varifocal lens) |
| | Local Storage | Micro SD card slot (SDHC/SDXC/UHS-I, Class 10)<br>*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

| | |
| --- | --- |
| Operating Temperature | 0°C ~ 50°C / 32°F ~ 122°F |
| Humidity | 10% to 90% (no condensation) |
| Power Source | 12V DC / 24V AC / PoE (IEEE 802.3af) |
| Max. Power Consumption | 6 W |
| Dimensions (L X W X H) | Without lens: 120 x 75.2 x 54 mm (4.72" x 2.96" x 2.13")<br>With lens: 184.1 x 75.2 x 64.1 mm (7.25" x 2.96" x 2.52") |
| Weight | 545 g / 1.2 lb |
| Regulatory | CE, FCC, RCM, LVD, 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, 350mA. Max. 15.4 watts |

## Web Interface

| | |
| --- | --- |
| Installation Management | Web-based configuration |

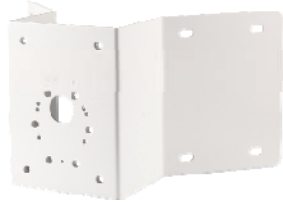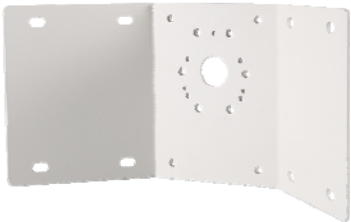| | |
|---|---|
| Maintenance | Firmware upgrade through Web Browser or Utility |
| Access from Web Browser | Camera Live View, Video Recording, Change Video Quality, Bandwidth Control, Image Snapshot, Digital I/O control, Audio, Picture in Picture, Picture and Picture, Privacy Mask, Visual Automation, 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-DVR / NVR / VMS, GV-Backup Center, GV-Recording Server |
| 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. 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.

## 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. Download Guide
10. Warranty Card

**Note:** The power adapter can be excluded upon request.

## Accessories

| Model No. | Name | Details |
|---|---|---|
| GV-Housing103 <br> **IP67** **IK10** | Housing Box (with IR) <br>  | Dimensions: 404 x 128 x 257 mm <br><br> (15.91 x 5.04 x 10.12") <br><br> Weight: 7 kg (15.43 lb) (including Supporting Tube) <br><br> Start-up Temperature: -20°C ~ 50°C (-4°F ~ 22°F) <br><br> Operation Temperature:  -30°C ~ 50°C (-22°F ~ 122°F) <br><br> IR: 6 IR LEDs with up to 60 m (196.85ft) IR effective distance <br><br> Power: DC 12V, 1A input |
| 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><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><br> Weight: 2.96 kg (6.53 lb) |

| Model No. | Name | Details |
|---|---|---|
| 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") <br> Weight: 1.70 kg (3.75 lb) <br> Steel Strap Diameter: Ø 101.6 ~ 152.4 mm (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") <br> Weight: 1.70 kg (3.75 lb) <br> Steel Strap Diameter: Ø 152.4 ~ 190.5 mm (6" ~ 7.5") |
| Supporting Rack | | Dimensions: Ø 58 x 120 mm (2.28" x 4.72") <br> Weight: 0.1 kg (103 g) |
| GV-PA191 PoE Adapter | | Weight: 130 g / 0.29 lb <br> Dimensions (H x W x D): 43 x 69 x 40 mm <br> (1.69" x 2.72" x 1.57") |
| 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. |
| 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.