

## GV-MDR220 2MP H.264 Mini Fixed Rugged Dome



- 1/2.5" progressive scan CMOS
- Megapixel lens
- Dual streams from H.264 and MJPEG
- Up to 30 fps at 1920 x 1080
- PoE (IEEE 802.3af)
- Wide Dynamic Range (WDR)
- Vandal resistance (IK10 for metal casing)
- Ingress protection (IP67)
- EN50155 compliance for rolling stock applications
- 3-axis mechanism:  
pan (-45° ~ +45°), tilt (0° ~ 90°), rotate (0° ~ 360°)
- Built-in microphone
- Built-in micro SD card slot (SD/SDHC) for local storage
- Endurable to low environment temperatures -30 °C ~ 50 °C (-22 °F ~ 122 °F)
- Day and night function (electronic)
- Recording assigned by GV-Edge Recording Manager ([Windows](#), [Mac](#) version)
- 2D noise reduction
- Defog
- Motion detection
- Tampering alarm
- Privacy mask
- Text overlay
- IP address filtering
- Supports iPhone, iPad, Android & 3GPP
- 31 languages on Web interface
- ONVIF (Profile S) conformant
- More Storage Option - [NAS](#)

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

### Active Tampering Alarm

Tampered



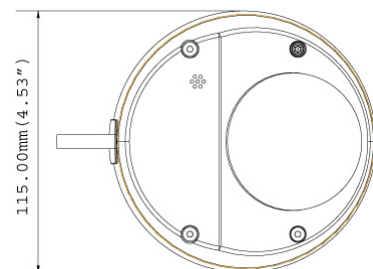
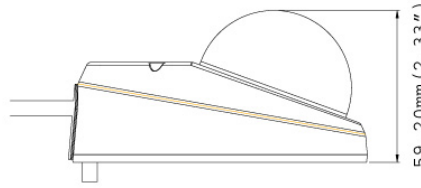
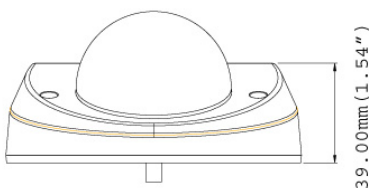
Focus Change



Camera Shift



### Dimensions



## Specifications

Camera		
Image Sensor	1/2.5" progressive scan CMOS	
Picture Elements	1920 (H) x 1080 (V)	
Minimum Illumination	Color	0.15 Lux
	BW	0.10 Lux
Shutter Speed	Automatic, Manual (1/5 ~ 1/8000 sec.)	
White Balance	Automatic, Manual (2800K ~ 8500K)	
Gain Control	Automatic	
S/N Ratio	50 dB	
BLC	Yes	
Lens		
Megapixel	Yes	
Day/Night	Yes (electronic)	
Iris	Fixed	
Focal Length	2.54 mm	
Maximum Aperture	F/2.8	
Mount	M12, Pitch 0.5 mm	
Image Format	1/2.5"	
Horizontal FOV	101°	
Operation	Focus	Fixed
	Zoom	Fixed
	Iris	Fixed
Operation		
Video Compression	H.264, MJPEG	
Video Streaming	Dual streams from H.264 and MJPEG	
Frame Rate	30 fps at 1920 x 1080 (60/50 Hz) * 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 50/60 Hz, Image Orientation, Shutter Speed, Backlight Compensation, D/N sensitivity, WDR, Defog, Noise Reduction, Metering	
Audio Compression	G.711, AAC (optional)	
Audio Support	One-Way Audio	
Video Resolution		
Main Stream	4:3	1600 x 1200, 1280 x 960, 640 x 480, 320 x 240
	16:9	1920 x 1080 (Default), 1280 x 720, 640 x 360, 448 x 252
	5:4	1280 x 1024, 640 x 512, 320 x 256
Sub Stream	4:3	640 x 480, 320 x 240
	16:9	640 x 360, 448 x 252 (Default)
	5:4	640 x 512, 320 x 256
Network		
Interface	10/100 Ethernet	
Ethernet Protocol	HTTP, HTTPS, TCP, UDP, SMTP, FTP, DHCP, NTP, UPnP, DynDNS, 3GPP/ISMA, RTSP, SNMP, QoS (DSCP), ONVIF (Profile S)	
Mechanical		
Temperature Detector	Yes	
Camera Angle Adjustment	Pan	-45° ~ 45°
	Tilt	0° ~ 90°
	Rotate	0° ~ 360°
Connectors	Power	PoE (IEEE 802.3af)
	Ethernet	Ethernet (10/100 Base-T), RJ-45
	Audio	Built-in microphone
	Local Storage	Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10) * <b>SDXC</b> and <b>UHS-I</b> card types are not supported.
LED Indicator	3 LEDs: Link, Power, Status	

<b>General</b>		
Environment Temperature	-30 °C ~ 50 °C (-22 °F ~ 122 °F)	
Humidity	10% to 90% (no condensation)	
Power Source	PoE (IEEE 802.3af)	
Max. Power Consumption	4.1 W	
Dimensions	Camera Body	ø 115 x 59.2 mm (4.5" x 2.3")
	Cable Length	1.054 m (41.5")
	Cable Diameter	ø 6.2 mm (0.24")
	Maximum Connector Diameter	ø 30 mm (1.18")
Weight	568 g (1.3 lb)	
Ingress Protection	IP67	
Vandal Resistance	IK10 for metal casing	
Regulatory	CE, FCC, RCM, RoHS compliant	
<b>Power over Ethernet</b>		
PoE Standard	PoE (IEEE 802.3af Power over Ethernet / PSE)	
PoE Power Supply Type	End-Span	
PoE Power Output	Per Port 48V DC, 350mA. Max. 15.4 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	
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	
<b>Applications</b>		
Network Storage	GV-DVR/NVR, GV-Backup Center, GV-Recording Server, GV-VMS	
Smart Device Access	GV-Eye for iOS and Android	
Live Viewing	IE, Mobile App	
CMS Server support	GV-Control Center, GV-Center V2, GV-Vital Sign Monitor	

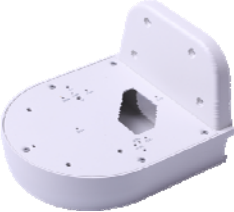



**Note:**

- 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.
  - 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. Mini Fixed Rugged Dome | 7. Installation sticker                  |
| 2. Torx Wrench            | 8. Silica gel bag x 2                    |
| 3. Self Tapping Screw x 2 | 9. Ferrite core for vehicle installation |
| 4. Screw Anchor x 2       | 10. Adhesive tape x 2                    |
| 5. Cable stopper          | 11. Download Guide                       |
| 6. Cable Connector        | 12. Warranty Card                        |

## Accessories

Model No./Name	Details
GV-Mount909 Wall Mount Bracket 	Dimensions: 170 x 150 x 110 mm (6.7" x 5.9" x 4.3") Weight: 610 g (1.34 lb)
GV-Mount910 Power Box Mount Bracket 	Dimensions: 112 x 98 x 7.5 mm (4.4" x 3.9" x 0.3") Weight: 105 g (0.23 lb)
GV-Mount913 Power Box Mount Bracket 	Dimensions: $\varnothing$ 146 x 7.5 mm ( $\varnothing$ 5.7" x 0.3") Weight: 180 g (0.4 lb)
GV-Mount918 Wall Mount Bracket for MFD/MDR/EFD/EDR 	Dimensions: $\varnothing$ 145 x 117 x 96 mm ( $\varnothing$ 5.71" x 4.60" x 3.78") Weight: 350 g (0.77 lb)
GV-PA191 PoE Adapter 	Dimensions (H x W x D): 43 x 69 x 40 mm (1.69" x 2.72" x 1.57") Weight: 130 g (0.29 lb)
GV-PoE Switch	GV-PoE Switch is designed to provide power along with network connection for IP devices. GV-PoE Switch is available in various models with different numbers and types of ports.