GV-MFD2501   2MP H.264 Super Low Lux WDR Mini Fixed Dome

- 1/2.8'' progressive scan super low lux CMOS
- Min. illumination at 0.02 lux
- Dual streams from H.264 and MJPEG
- Up to 30 fps at 1920 x 1080
- Day and night function (electronic)
- USB slot for GV-WiFi Adapter or USB hard drive
- Built-in micro SD card slot (SD/SDHC) for local storage
- Tampering alarm
- Wide Dynamic Range (WDR)
- 3D noise reduction
- Two-way audio
- Defog
- Motion detection
- Privacy mask
- IP address filtering
- iPhone, iPad, Android
- DC 5V / PoE (IEEE 802.3af)
- Megapixel lens
- Supports iPhone, iPad, Android & 3GPP
- 31 languages on Web interface
- ONVIF (Profile S) conformant

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

Introduction

The GV-MFD2501 Series is an indoor, fixed, mini-sized network camera with different lens options. With its super low lux CMOS image sensor, the camera can produce color image at near darkness. The camera is equipped with a USB port which supports wireless connection through GV-WiFi Adapter (optional) or an external storage using a USB hard drive.

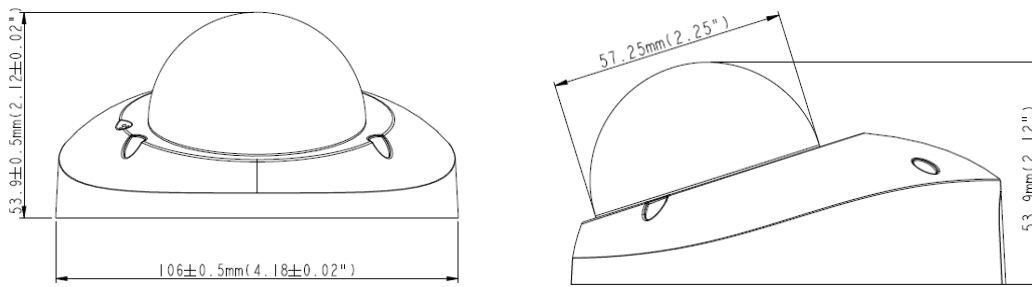## Active Tampering Alarm

Tampered	Focus Change	Camera Shift

Models

Models	Iris	Focal Length (mm)	Maximum Aperture	Image Format
MFD2501-0F	Fixed	2.8 mm	F/2.0	1/3"
MFD2501-1F		4 mm	F/1.5	
MFD2501-2F		8 mm	F/1.6	
MFD2501-3F		12 mm	F/1.6	
MFD2501-5F		3.8 mm	F/1.8	
MFD2501-6F		2.3 mm	F/2.2	

Dimensions

Specifications

Camera		GV-MFD2501-0F	GV-MFD2501-1F	GV-MFD2501-2F	GV-MFD2501-3F	GV-MFD2501-5F	GV-MFD2501-6F
Image Sensor		1/2.8" progressive scan super low lux CMOS					
Picture Elements		1920 (H) x 1080 (V)					
Minimum Illumination	Color B/W	0.02 Lux					
Shutter Speed		Automatic, Manual (1/5 ~ 1/8000 sec.)					
White Balance		Automatic, Manual (2800K ~ 8500K)					
Gain Control		Automatic					
S/N Ratio		52 dB					
WDR		Yes					
Lens							
Megapixel		Yes					
Day/Night		Yes (Electronic)					
Iris		Fixed					
Focal Length		2.8 mm	4 mm	8 mm	12 mm	3.8 mm	2.3 mm
Maximum Aperture		F/2.0	F/1.5	F/1.6	F/1.6	F/1.8	F/2.2
Mount		M12, Pitch 0.5 mm					
Image Format		1/3"					
Horizontal FOV		99°	72°	38°	25°	72°	122°
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 * 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, Super Low Lux, Denoise, Metering					
Audio Compression		G.711, AAC (optional)					
Audio Support		Two-Way Audio					
Sensor Input		No					
Alarm Output		No					
Video Resolution							
Main Stream	4:3	1280 x 960, 640 x 480, 320 x 240					
	16:9	1920 x 1080, 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					
	5:4	640 x 512, 320 x 256					

Network		
Interface		10/100 Ethernet
Ethernet Protocol		DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), PSIA, QoS (DSCP), RTSP, SNMP, SMTP, TCP, UDP, UPnP, 3GPP/ISMA
Mechanical		
Temperature Detector		Yes
Camera Angle Adjustment	Pan	-45° ~ 45°
	Tilt	0° ~ 90°
Connectors	Power	2-pin terminal block, PoE
	Ethernet	Ethernet (10/100 Base-T), RJ-45
	Audio	1 In (built-in microphone), 1 Out (RCA female for speaker)
	USB	GV-WiFi Adapter or USB hard drive
	Local Storage	Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10) * **SDXC** and **UHS-I** card types are not supported.
LED Indicator		4 LEDs: Link, ACT, Power, Status
General		
Camera Housing		black, white
Environment Temperature		0 °C ~ 50 °C (32 °F ~ 122 °F)
Humidity		10% to 90% (no condensation)
Power Source		5V DC/PoE (IEEE 802.3af)
Max. Power Consumption		6 W
Dimension		ø 106 x 53.9 mm (4.2'' x 2.1")
Weight		280 g (0.62 lb)
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
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
Applications		
Network Storage		GV-Backup Center, GV-NVR, GV-Recording Server, GV-System, GV-VMS
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. Mind the following limitations and requirements for the USB port:
   - The USB hard drive must be of 2.5'' or 3.5'', version 2.0 or above
   - The USB hard drive's storage capacity must not exceed 2TB
   - USB flash drives and USB hubs are not supported
   - External power supply is required for the USB hard drive
   - To connect the GV-WiFi Adapter, make sure it is connected before the camera is powered on.
2. Specifications are subject to change without notice.
3. 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.

Packing List

1.	Mini Fixed Dome	7.	USB / Audio Y-cable
2.	Torx Wrench	8.	Power Adapter
3.	Self Tapping Screw x 2	9.	GV-IPCAM H.264 Quick Start Guide
4.	Screw Anchor x 2	10.	GV-IPCAM H.264 Software DVD
5.	Cable Stopper	11.	GV-NVR Quick Start Guide
6.	Short-Body RJ-45 Plug	12.	GV-NVR Software DVD

Note: The power adapter can be excluded upon request.

Accessories

Model No.	Name	Details
GV-PA191 PoE Adapter		Weight: 130 g (0.29 lb) Dimensions: 43 x 69 x 40 mm (1.69'' x 2.72'' x 1.57")
GV-WiFi Adaptor		Weight: 20 g (0.04 lb) Dimensions: 15 x 15 x 155 mm (0.59'' x 0.59'' x 6.10'') Supplied with mini USB to standard USB adapter.
Power Adapter		Power adapters are available in 5 regions: U.S.A., Australia, U.K, Europe and Brazil.
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-MFD2501 Series   *June 12, 2015*