

GV-GFER12800 Telecamera Fisheye AI da 12MP H.265 Super Low Lux IR **Telecamera Fisheye AI da 12MP H.265 Super Low Lux IR Antivandalo per Esterni** **per Esterni**



Introduzione

GV-GFER12800 è una telecamera fisheye da esterno da 12 MP che consente di monitorare tutti gli angoli di un'area e può essere installata a soffitto o a parete. La telecamera supporta il codec video H.265 per ottenere un migliore rapporto di compressione, mantenendo immagini di alta qualità con un minore utilizzo della larghezza di banda di rete. È conforme agli standard IP67 e IK10 e può essere alimentata tramite PoE. Inoltre, la telecamera è in grado di eseguire la dewarping (correzione della distorsione) dell'immagine fisheye direttamente a bordo, eliminando la necessità di utilizzare risorse dei dispositivi di backend.

Grazie ad algoritmi di deep learning, la tecnologia AI è in grado di distinguere esseri umani e veicoli da altri oggetti in movimento. Quando integrata con il software di gestione video GeoVision (VMS), supporta la protezione perimetrale tramite AI, avvisi in tempo reale, riproduzione degli eventi e molto altro.

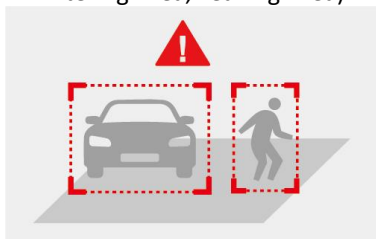
Caratteristiche principali:

- Deep learning AI: Protezione perimetrale con intelligenza artificiale e classificazione degli oggetti (persone, veicoli)
- Sensore CMOS progressivo da 1/1.7"
- Min. illumination at 0.01 lux
- Illuminazione minima di 0,01 lux
- Fino a 30 fps alla risoluzione di 3000 x 3000
- Funzionalità Giorno/Notte (con filtro IR removibile)
- IR intelligente
- Distanza IR fino a 20 m (66 piedi)
- Supporta l'audio bidirezionale
- Microfono integrato
- Slot per scheda microSD integrato (SD / SDHC / SDXC) per l'archiviazione locale
- Alimentazione DC 12V / PoE (IEEE 802.3af)
- Protezione contro l'ingresso di polvere e acqua (IP67)
- Resistenza agli atti vandalici (IK10)
- Visione panoramica a 360° e 180°
- Analisi AI (Attraversamento linea, Ingresso in area, Uscita da area, Intrusione in area, Conteggio bersagli, Mappa di calore, Densità della folla)
- Funzione Defog (anti-nebbia)
- Riduzione del rumore 3D (3D Noise Reduction)
- Rilevamento del movimento
- Funzione PTZ virtuale
- Funzione di panoramica automatica (Auto Pan)
- Sovrimpressioni di testo
- Mascheramento della privacy
- 19 lingue supportate
- Conforme agli standard ONVIF (Profili G, S, T, M)

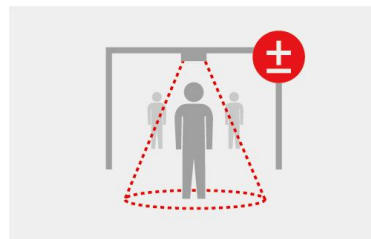
Deep Learning Function

AI Perimeter Protection

(Intrusion, Crossing Line, Entering Area, Leaving Area)



People Flow Counting



Specifications

Camera					
Image Sensor		1/1.7" progressive scan CMOS			
Picture Elements		4000 (H) x 3000 (V)			
Minimum Illumination	Color	0.01 Lux (F2.0, AGC ON)			
	B/W	0 Lux			
	IR On	0 Lux			
Shutter Speed		Auto / Manual (1/3 ~ 1/100000 sec)			
White Balance		Auto / Manual			
Gain Control		Auto / Manual			
S/N Ratio		50 dB			
WDR		Yes			
Dynamic Range		Up to 90 dB			
Lens					
Megapixel		12 MP			
Day/Night		Yes (with removable IR-cut filter)			
Lens Type		Fixed			
Focal Length		1.65 mm			
Maximum Aperture		F/2.0			
Mount		M12			
Image Format		1/1.7"			
FOV	Horizontal	180°			
	Vertical	180°			
	Diagonal	180°			
Operation	Focus	Fixed			
	Zoom	Fixed			
	Iris	Fixed			
IR LED	Quantity	4 IR LEDs			
	Max. IR Distance	20 m (66 ft)			
DORI		Detect	Observe	Recognize	Identify
Lens	1.65 mm	33 m (108.2 ft)	13.1 m (42.9 ft)	6.6 m (21.6 ft)	3.3 m (10.8 ft)
Operation					
Video Compression		H.265, H.265+, H.264, H.264+, MJPEG			
Video Streaming		Triple streams from H.265, H.264, or MJPEG			

Frame Rate			Max. 30 fps (60 Hz) / 25 fps (50 Hz) at 3000 x 3000, 2160 × 2160, 1440 × 1440, 1080 x 1080, 960 × 960, 720 x 720, 640 x 640, 480 × 480, 360 x 360 Max. 20 fps (50 & 60 Hz) / 10 fps (50 & 60 Hz) at 4000 x 3000, 3840 x 2160, 3200 x 1800, 2560 × 1440, 1920 x 1080, 1280 x 720, 960 x 540, 640 x 480, 640 x 360 Max. 15 fps (50 & 60 Hz) at 3000 x 3000, 2160 × 2160, 1440 × 1440, 1280 x 720, 1080 x 1080, 960 × 960, 960 x 540, 720 x 720, 640 x 640, 480 × 480, 360 x 360 * The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
Maximum Throughput	AI Off		16 Mbps
	AI On		16 Mbps
Maximum Streams * When the total bitrate is within the maximum throughput			6
Video Analytics			Motion Detection
Smart Alarm			Motion Detection, SD Card Error, SD Card Full, IP Address Conflict, Cable Disconnection
Image Settings			Brightness, Contrast, Hue, Saturation, Sharpness, 3D Noise Reduction, Defog, BLC, Antiflicker, Smart IR, Image Orientation (Flip, Mirror, 0°, 180°)
Stream Mode & Supported Live Preview	1: Fisheye		Fisheye View
	2: Panoramic View		Panoramic View (Ceiling / Desktop: 180° x 2, Wall: 360°)
	3: Fisheye + Panoramic View + 3 PTZ		Fisheye View, Panoramic View (Ceiling / Desktop: 180° x 2, Wall: 360°), Fisheye View + PTZ x 3, Panoramic View (Ceiling / Desktop: 180° x 2, Wall: 360°) + PTZ x 3
	4: Fisheye + 4 PTZ		Fisheye View, PTZ x 4
	5: Fisheye + 4 PTZ Fusion		Fisheye View, 4 PTZ Fusion
Installation Method & Supported Live Preview	Ceiling Mount		Fisheye View, 180° Panoramic View x 2, Fisheye View + PTZ x 3, 180° Panoramic View x 2 + PTZ x 3, PTZ x 4, 4 PTZ Fusion
	Wall Mount		Fisheye View, 360° Panoramic View, Fisheye View + PTZ x 3, 360° Panoramic View + PTZ x 3, PTZ x 4, 4 PTZ Fusion
	Desktop Mount		Fisheye View, 180° Panoramic View x 2, Fisheye View + PTZ x 3, 180° Panoramic View x 2 + PTZ x 3, PTZ x 4, 4 PTZ Fusion
Audio Compression			G.711
Audio Support			Two-way audio (external speaker required)
Digital I/O	Input		1 input, dry contact, NO / NC
	Output		1 relay output (DC 30V, 1A / AC 125V, 0.3A)
Video Resolution			
Hardware (On-Edge) Dewarping	Main Stream (only in Edge IE mode)	Fisheye View	3000 x 3000 (default), 2160 x 2160, 1080 x 1080
		Panoramic View (Ceiling / Desktop: 180° x 2, Wall: 360°)	4000 x 3000 (default), 3840 x 2160, 3200 × 1800, 2560 x 1440
		PTZ	1280 × 720 (default), 960 x 540
		4 PTZ Fusion	2560 × 1440 (default)
	Sub Stream	Fisheye View	1440 x 1440 (default), 720 x 720, 480 × 480
		Panoramic View (Ceiling / Desktop: 180° x 2, Wall: 360°)	1920 x 1080 (default), 960 x 540, 640 x 480
		PTZ	N/A
		4 PTZ Fusion	640 x 360 (default)
	Third Stream	Fisheye View	960 x 960 (default), 640 x 640, 360 x 360
		Panoramic View (Ceiling / Desktop: 180° x 2, Wall: 360°)	1280 x 720 (default), 640 x 360
		PTZ	N/A
		4 PTZ Fusion	640 x 360 (default)

Network			
Interface		10/100 Ethernet	
Protocol		802.1x, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, IPv4, IPv6, NTP, ONVIF (Profile G, S, T, M), PPPoE, QoS, RTCP, RTMP, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP	
Deep Learning Function			
AI Analytics		Only the following configurations of Stream Modes and Installation Methods enable smart detection events. <u>Configuration 1:</u> Modes: 1, 3, 4, 5 Mounting: Ceiling Functions: ➢ <u>Human detection only:</u> Target Counting by Line, Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Crowd Density, Heat Map <u>Configuration 2:</u> Modes: 2, 3 Mounting: Wall or Desktop Functions: ➢ <u>Human and vehicle detection:</u> Target Counting by Line, Line Crossing, Region Entrance, Region Exiting, Region Intrusion ➢ <u>Human detection only:</u> Crowd Density * A maximum of 1 smart detection event is allowed at a time to ensure comprehensive detection results and optimized performance by the camera.	
Mechanical			
Connectors	Power	DC jack	
	Ethernet	RJ-45 connector	
	RS-485	Half-duplex	
	Audio	Built-in microphone	Yes
		External microphone required	Yes (audio jack, 3.5 mm or 0.14 in)
		Built-in speaker	No
		External speaker required	Yes (audio jack, 3.5 mm or 0.14 in)
		* Choose either the built-in or external microphone. * The Audio In port only supports microphones with a power supply.	
	Video Output	CVBS output (BNC connector x 1)	
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14 in)	
Local Storage	microSD card slot (SD / SDHC / SDXC), up to 256 GB		
General			
Operating Temperature		-30°C ~ 60°C (-22°F ~ 140°F)	
Humidity		0% ~ 95% (no condensation)	
Power Source		DC 12V / PoE (IEEE 802.3af)	
Max. Power Consumption		10.5 W	
Dimensions		Ø 130.6 x 46.3 mm (Ø 5.14 x 1.82 in)	
Weight		516.2 g (1.14 lb)	
Ingress Protection		IP67	
Vandal Resistance		IK10	
Certification		CE, FCC, RoHS compliant	
Web Interface			
Installation Management		Web-based configuration	
Maintenance		Firmware upgrade through Web Browser or GV-IP Device Utility	
Access from Web Browser		Live View, Playback, Image Quality, Video Recording (only in Edge IE mode), Image Snapshot, Two-Way Audio (only in Edge IE mode), Digital Zoom, Bandwidth Control, Virtual PTZ, Auto Pan, Text Overlay, Image Masking, Intelligent Mark	
Language		Chinese Traditional, Czech, Dutch, English, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Spanish (Latin America), Turkish	

Applications	
Software Supported	GV-VMS (V17.4.8 / V18.3.5 or later, patch files required), GV-Control Center (V4.2.1.0), GV-Edge Recording Manager for Windows (V2.2.8.0 or later), GV-Recording Server (V2.1.1.0), GV-IP Device Utility (V9.0.3 or later)
Smart Device Access	GV-Eye for iOS and Android (V3.2.0 or later)
Live Viewing	Web Browser (Edge, IE mode in Edge, Chrome, Firefox, Safari), Mobile App

Note:

1. To avoid reflected glare by IR LED, keep a minimum distance of 1 m (3.28 ft) between the camera body and nearby walls.
2. Using a pendant or corner mount with a fisheye camera may cause IR reflection due to the camera's 360° IR illumination.
3. All specifications are subject to change without notice.

Packing List

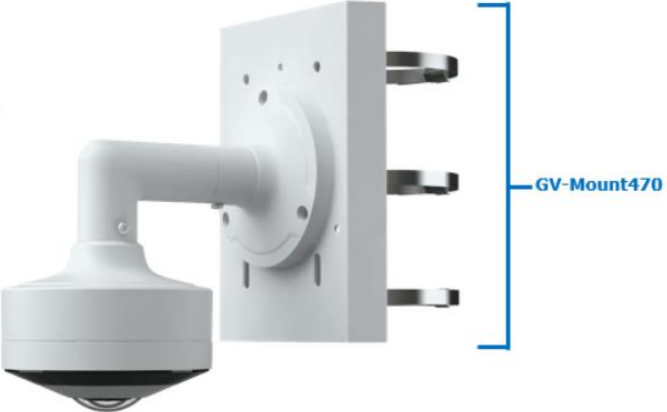
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| 1. GV-GFER12800 | 4. Drill Template Paster |
| 2. Waterproof Rubber Set | 5. Download Guide |
| 3. Screw Kit | |

Accessories

Model No.	Name		Details
GV-Mount112	Pendant Mount		Dimensions: Ø 131.1 x 220.7 mm (Ø 5.16 x 8.69 in) Weight: 0.55 kg (1.21 lb)
GV-Mount211-11	Wall Mount Bracket		Dimensions: 194.7 x 165.6 x 131.1 mm (7.67 x 6.52 x 5.16 in) Weight: 0.57 kg (1.26 lb)
GV-Mount470 (must be used with Mount211-11)	Pole Mount Bracket		Dimensions: 163.3 x 54.5 x 215 mm (6.43 x 2.15 x 8.46 in) Weight: 1.10 kg (2.43 lb)
GV-Mount512	Junction Box		Dimensions: 131.0 x 156.9 x 33.0 mm (5.16 x 6.18 x 1.30 in) Weight: 0.24 kg (0.53 lb)
GV-PA191	PoE Adapter		GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.
GV-PA301	Gigabit PoE Adapter		GV-PA301 is a Gigabit Power over Ethernet (PoE) adapter.
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.
Power Adapter			Contact our sales representatives for the countries and areas supported.

Mounting Type

Pendant Mount	Wall Bracket Mount	Junction Box Mount
GV-Mount112	GV-Mount211-11	GV-Mount512
		

Wall Bracket Mount	Pole Bracket Mount
GV-Mount211-11	GV-Mount470
	

Dimensions

