

GV-RFER12700 12MP H.265 Super Low Lux WDR IR Fisheye IP Camera



Introduction

GV-RFER12700 is a 12 MP outdoor fisheye camera allowing you to monitor all angles of a location and can be installed to the ceiling or the wall. The camera supports H.265 video codec to achieve better compression ratio while maintaining high quality image at reduced network bandwidths. The camera adheres to IP66 standard and can be powered through PoE.

Key Features

- 1/2.3" progressive scan super low lux CMOS sensor
- Min. illumination at 0.01 lux
- Triple streams from H.265, H.264
- Up to 15 fps at 3840 x 3000
- Day/Night functionality (with removable IR-cut filter)
- Intelligent IR
- IR distance up to 10 m (35 ft)
- Ingress protection (IP66)
- Built-in microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) for local storage
- Two-way audio
- Built-in microphone and speaker
- One sensor input and one alarm output
- DC 12V / PoE (IEEE 802.af)
- 360° and 180° panorama view
- Wide Dynamic Range (WDR)
- 3D noise reduction
- Motion detection
- Tampering alarm
- Privacy mask
- Text overlay
- 12 languages supported
- ONVIF (Profile G, S, T, M) conformant

Specifications

Camera		
Image Sensor		1/2.3" progressive scan CMOS
Picture Elements		3840 (H) x 3000 (V)
Minimum Illumination	Color	0.03 Lux (F2.0, AGC ON)
	IR On	0 Lux
Shutter Speed		Auto / Manual (1 ~ 1/30000 sec)
White Balance		Automatic, Manual
Gain Control		Automatic, Manual
S/N Ratio		39.5 dB
WDR Pro		WDR
Day/Night		Yes (with removable IR-cut filter)
Lens		
Megapixel		12 MP
Lens Type		Fixed
Focal Length		1.6 mm
Maximum Aperture		F/2
Mount		M12
Image Format		1/2.3"

Horizontal FOV		180°			
Operation	Focus	Fixed			
	Zoom	Fixed			
	Iris	Fixed			
Smart Illumination	LED Quantity	3 IR LEDs			
	Max. IR Distance	10 m (35 ft)			
DORI		Detect	Observe	Recognize	Identify
Lens	1.6 mm	41.3 m (135.4 ft)	16.5 m (54.1 ft)	8.3 m (27.2 ft)	4.1 m (13.4 ft)
Operation					
Video Compression		H.265, H.264			
Video Streaming		Triple streams from H.265 & H.264			
Frame Rate		25 fps at 3000 x 3000, 2560 x 2560, 2160 x 2160, 1520 x 1520, 480 x 480 (50 / 60 Hz) 15 fps at 3840 x 3000, 1280 x 960, 640 x 480 (50 / 60 Hz) * The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).			
Maximum Throughput		36 Mbps			
Maximum Streams * When the total bitrate is within the maximum throughput		14			
Video Analytics		Motion Detection, Audio Alarm * Tamper detection and audio alarm are only accessible through the camera’s Web interface, which can be used to trigger alerts such as e-mail and FTP.			
Image Settings		Brightness, Contrast, Saturation, Sharpness, IR-CUT Mode, IR CUT Delay, IR-LED Low Beam Light, Angle Trad, White Balance, Shutter, Time Exposure, 3D Noise Reduction, WDR, White Balance, Display Mode, Image Orientation (Flip, Mirror, 0°, 90°, 180°, 270° – including Corridor format).			
Software Dewarping	Ceiling Mount	Fisheye View, Cylinder, 2 PTZ, 4 PTZ, 180° Panorama Image, 360° Panorama Image, 360° Panorama Image and PTZ, 360° Panorama Image and 3 PTZ, 360° Panorama Image and 6 PTZ, 360° Panorama Image and 8PTZ, Fisheye and 3 PTZ, Fisheye and 8 PTZ			
	Wall	Fisheye View, Panorama, 4 PTZ, 360° Panorama Image and 3 PTZ, 360° Panorama Image and 8 PTZ, Fisheye and 3 PTZ, Fisheye and 8 PTZ			
	Desktop	Fisheye View, Cylinder, 4 PTZ, 180° Panorama Image, 360° Panorama Image, 360° Panorama Image and PTZ, 360° Panorama Image and 3 PTZ, 360° Panorama Image and 6 PTZ, 360° Panorama Image and 8 PTZ			
	Tilt	Fisheye View, Panorama, 4 PTZ, 360° Panorama Image and 3 PTZ, 360° Panorama Image and 8 PTZ, Fisheye and 3 PTZ, Fisheye and 8 PTZ			
Audio Compression		G.711			
Audio Support		Two-way audio			
Digital I/O	Input	1 input, dry contact, NO / NC			
	Output	1 relay output (2A 30V DC / 0.5A 125V AC)			
Video Resolution					
Video Resolution	Main Stream	3840 x 3000, 3000 x 3000 (Default), 2560 x 2560, 2160 x 2160, 1520 x 1520			
	Sub Stream	1280 x 960, 1088 x 1088 (Default), 720 x 720, 640 x 480, 480 x 480			
	Third Stream (Closed by Default)	640 x 480, 480 x 480			
Network					
Interface		10/100 Ethernet			
Protocol		802.1x, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, IPv4, IPv6, NTP, ONVIF (Profile G, S, T, M), RTP/RTSP, SMTP, SNMP, TCP, UPnP			
Mechanical					
Connectors	Power	DC jack, PoE			
	Ethernet	RJ-45			
	Audio	1 in (built-in microphone), 1 out (built-in speaker)			
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14 in)			
	Local Storage	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10), up to 256 GB * UHS-II card type is not supported.			
General					
Operating Temperature		-35°C ~ 60°C (-31°F ~ 140°F)			
Humidity		0% ~ 90% (no condensation)			

Power Source	DC 12V / PoE (IEEE 802.3af)
Max. Power Consumption	9.6 W
Dimensions	Ø 120 x 55 mm (Ø 4.7 x 2.1 in)
Weight	0.4 kg (0.88 lb)
Ingress Protection	IP66
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, Video Recording, Change Video Quality, Image Snapshot, Text Overlay, Image Masking
Language	Chinese Traditional, English, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, Turkish, Ukrainian

Applications

Software Supported	GV-VMS (V17.4.7 / V18.3.2, patch files required), GV-Control Center (V4.3, coming soon), GV-Recording Server / Video Gateway (V2.2, coming soon), GV-Edge Recording Manager Win version (V2.3, coming soon)
Smart Device Access	GV-Eye for iOS and Android (V3.2.0, coming soon)
Live Viewing	Browser (IE, 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. Fisheye dewarping is only applicable on Internet Explorer mode on Microsoft Edge.
3. Specifications are subject to change without notice.

Packing List

1. GV-RFER12700
2. Waterproof Rubber Set
3. Screw Kit
4. Drill Template Paster
5. Download Guide

Accessories

Model No.	Name		Details
GV-Mount108 (must be used with GV-Mount504-1)	Pendant Mount		Dimensions: H = 294 mm (11.5 in) Weight: 0.7 kg (1.54 lb)
GV-Mount210-2 (must be used with GV-Mount504-1)	Wall Pendant Mount		Dimensions: 169 x 98 x 180 mm (6.5 x 3.8 x 7 in) Weight: 0.5 kg (1.1 lb)
GV-Mount213-1	Wall Box Mount		Dimensions: Ø 126 x 48.9 mm (Ø 4.9 x 1.9 in) Weight: 0.25 kg (0.55 lb)
GV-Mount311 (must be used with GV-Mount213-1)	Corner Adapter		Dimensions: 172.8 x 271.4 x 200 mm (6.8 x 10.68 x 7.87 in) Weight: 2.35 kg (5.18 lb)

GV-Mount504-1 (must be used with GV-Mount108 or GV-Mount210-2)

Wall Mount Bracket



Dimensions: Ø 126 x 68.9 mm (Ø 4.9 x 2.7 in)
Weight: 0.3 kg (0.66 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.

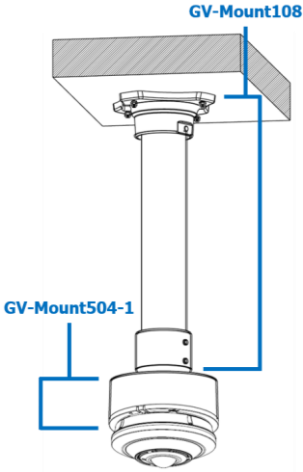
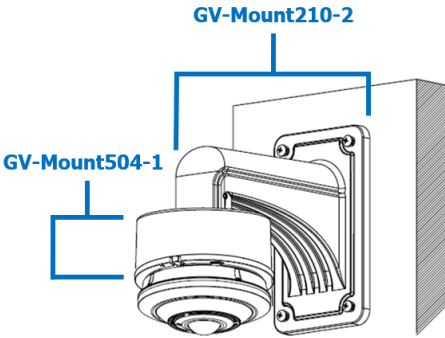
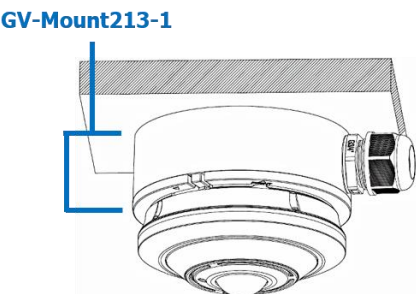
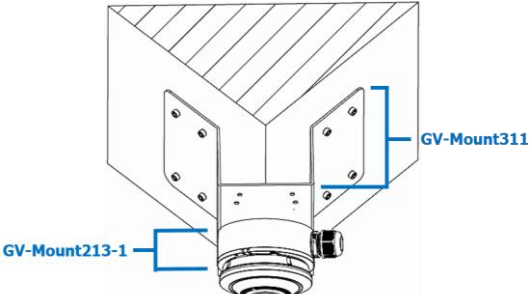
GV-POE Switch

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 Pendant Mount
GV-Mount108 + GV-Mount504-1	GV-Mount210-2 + GV-Mount504-1
	
Wall Box Mount	Corner Mount
GV-Mount213-1	GV-Mount311 + GV-Mount213-1
	

Dimensions

