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

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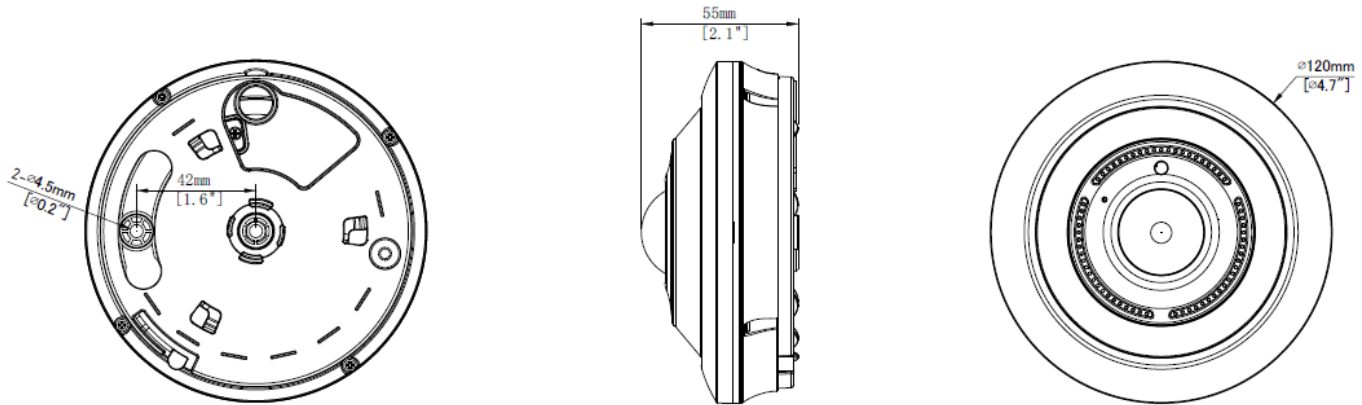- ONVIF (Profile G, S, T, M) conformant

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.

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 or Internet Explorer mode on Microsoft Edge.
3. All specifications are subject to change without notice.

Packing List

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

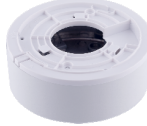## Dimensions

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		Auto / Manual
Gain Control		Auto, Manual
S/N Ratio		39.5 dB
WDR		Yes

Optics Lens		
Megapixel		Yes
Day/Night		Yes (with removable IR-cut filter)
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
IR 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 stream *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 Setting		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, 90°, 180° - 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° panoramic image and 3 PTZ, 360° panoramic image and 6 PTZ, 360° panoramic image and 8PTZ, Fisheye and 3 PTZ, Fisheye and 8 PTZ
	Wall	Fisheye View, Panorama, 4 PTZ, 360° panoramic image and 3 PTZ, 360° panoramic 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° panoramic image and 3 PTZ, 360° panoramic image and 6 PTZ, 360° panoramic image and 8 PTZ
	Tilt	Fisheye View, Panorama, 4 PTZ, 360° panoramic image and 3 PTZ, 360° panoramic 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
	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")
	Local Storage	Micro SD 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	12V DC / PoE (IEEE 802.3af)
Max. Power Consumption	9.6 W
Dimension	Ø 120 x 55 mm (4.7" x 2.1")
Weight	400 g (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
Language	English, German, Spanish, French, Japanese, Italian, Portuguese, Russian, Turkish, Traditional Chinese, Korean, 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:

Accessories

Model No.	Name		Details
GV-Mount108 (must be used with GV-Mount504-1)	Pendant Mount		Dimensions: H=294 mm (11.5") Weight: 0.7 g (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") Weight: 0.5 g (1.1 lb)
GV-Mount213-1	Wall Box Mount		Dimensions: Ø 126 x 48.9 mm (4.9" x 1.9") Weight: 0.25 g (0.55 lb)
GV-Mount311 (must be used with GV-Mount213-1)	Corner Adaptor		Dimensions: 172.8 x 271.4x 200 mm (6.8" x 10.68" x 7.87") Weight: 2.35 kg (5.18 lb)
GV-Mount504-1 (must be used with GV-Mount108 or GV-Mount210-2)	Wall Mount Bracket		Dimension: Ø 126 x 68.9 mm (4.9" x 2.7") 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. 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.