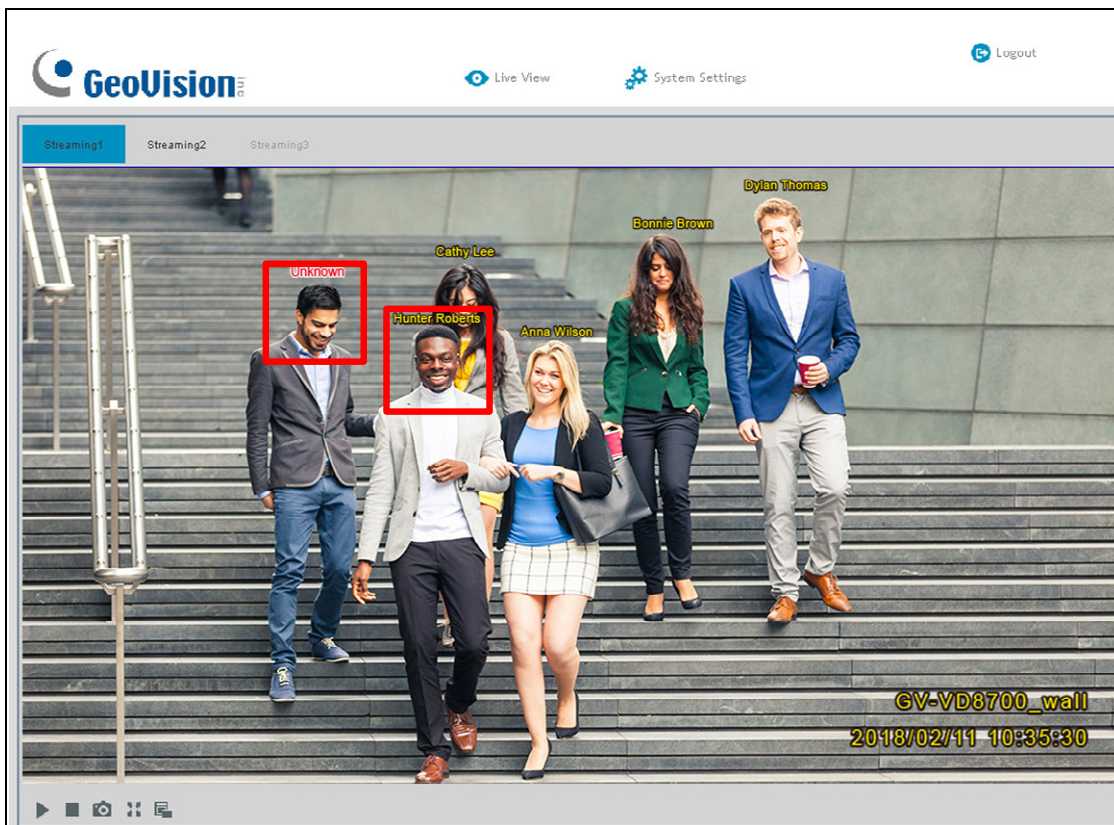# GV-FD8700-FR   8MP H.265 Low Lux WDR IR Fixed IP Dome

- 1/2.5" progressive scan low lux CMOS
- Min. illumination at 0.04 lux
- Triple streams from H.265 and H.264
- Up to 30 fps at 3840 x 2160
- Megapixel varifocal lens
- P-Iris lens for auto Iris control
- Day and Night function (with removable IR-cut filter)
- Intelligent IR
- Wide Dynamic Range (WDR)
- IR distance of up to 40 m (130 ft)
- 3-axis mechanism (pan / tilt / rotate)
- One sensor input and digital output
- Built-in micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) for local storage
- DC 12V / PoE (IEEE 802.3af)
- One-way audio
- Defog
- Motion detection
- Tampering alarm
- Face recognition
- Text overlay
- Privacy mask
- IP address filtering
- Recording assigned by GV-Edge Recording Manager (Windows & Mac)
- Supports iPhone, iPad, Android & 3GPP
- 4 languages on Web interface

* No memory card slot & local storage function for Argentina

Introduction

GV-FD8700-FR Fixed IP Dome camera features cutting-edge face recognition technology that allows users to identify important personnel from its database, on the fly. Up to 10,000 face profiles can be defined in the camera's database, and also categorized to meet various corporate needs, such as facilitating customer service or security management and more. The camera's face recognition mechanism is effective for a distance of up to 4 m (14 ft) while able to identify up to 10 persons simultaneously. With a recognition time of within 2 seconds, it can quickly identify VIP guests and/or potential intruders. When integrated with GV-VMS, the camera's face recognition can be used to trigger alerts according to the predefined rules, thereby providing an improved, reliable security management.

As an indoor camera, GV-FD8700-FR can support H.265 video codec to achieve better compression ratio while maintaining high-quality pictures at reduced network bandwidths. For night operations, the camera is equipped with an IR effective distance of up to 40 m (130 ft). Its WDR and Backlight Compensation allow the camera to detect faces in environments with drastic light contrast.

Real-time Face Recognition on Live View

Retrievable Face Events

Active Tampering Alarm

Tampered	Focus Change	Camera Shift

Dimensions

Hard-Ceiling Mount
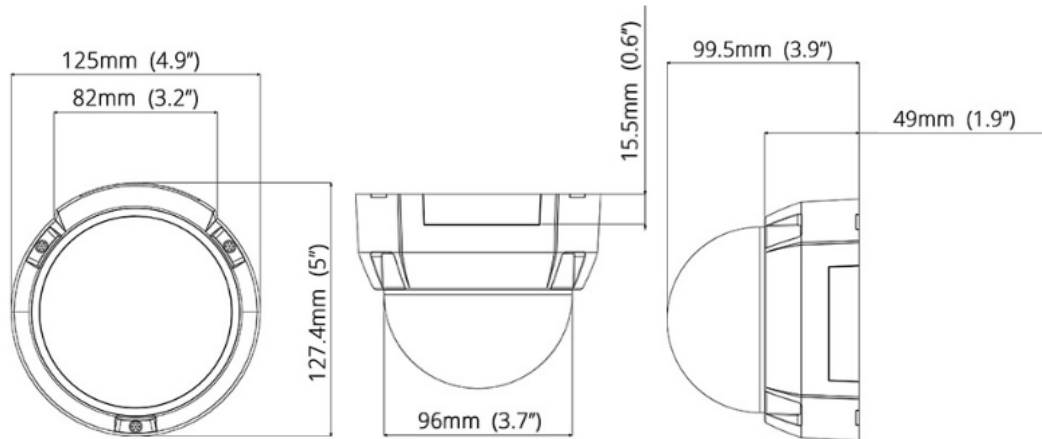
In-Ceiling Mount
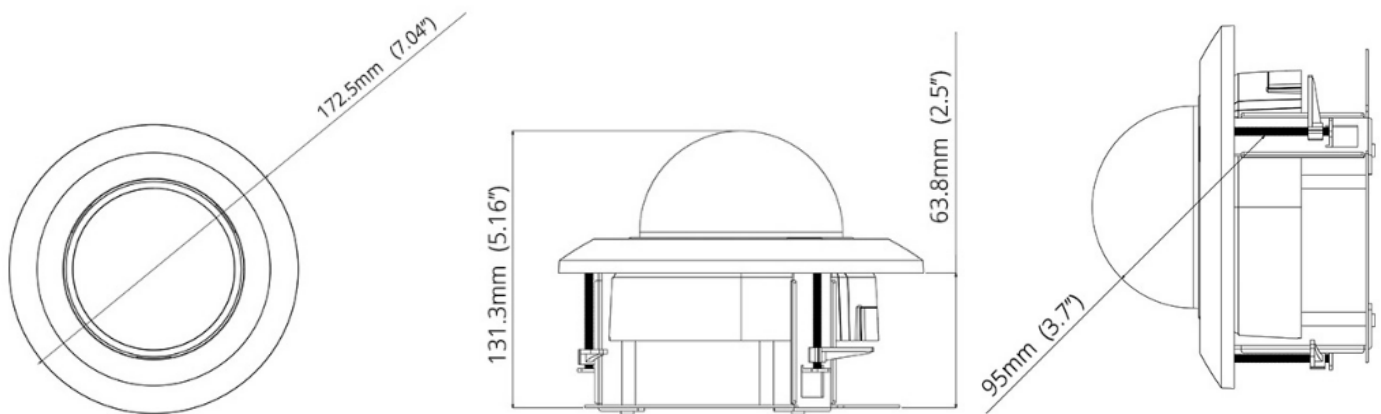
Specifications

Camera		
Image Sensor		1/2.5" progressive scan low lux CMOS
Picture Elements		3840 (H) x 2160 (V)
Minimum Illumination	Color	0.05 Lux
	B/W	0.04 Lux
	IR ON	0 Lux
Shutter Speed		Automatic, Manual (1/30 ~ 1/8000 sec)
White Balance		Automatic, Manual (2800K ~ 8500K)
Gain Control		Automatic
S/N Ratio		56 dB
WDR		Yes
Dynamic Range		Up to 96 dB

Lens		
Megapixel		Yes
Day/Night		Yes (with removable IR-cut filter)
Focal Length		3.3 ~ 12 mm
Lens Type		Varifocal
Maximum Aperture		F/1.4
Mount		Ø14 mm
Horizontal FOV		106° ~ 42°
Image Format		1/2.5"
Operation	Focus	Manual (with lock)
	Zoom	Manual (with lock)
	Iris	P-Iris
Max. Torque (Focus / Zoom Screws)		0.049 N.m
IR LED Quantity		20 IR LEDs
Max. IR Distance		40 m (130 ft)
Face Recognition		
Environment		600 lux
Recognition face angle	Tilt (Up/Down)	± 15°
	Swing (Left/Right)	± 15°
Max. No of Faces		Up to 10
Min. face image pixel requirement		120 x 120
Operation		
Video Compression		H.265, H.264
Video Streaming		Stream 1 from H.265 or H.264 Stream 2 from H.264 Stream 3 from H.264
Frame Rate		30 fps at 3840 x 2160 (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, White Balance, Flicker-less, Image Orientation (Flip, Mirror, 0°, 180°), Shutter Speed, D/N Sensitivity, Backlight Compensation, WDR, Defog
Audio Compression		G.711
Audio Support		One-way Audio (external microphone required)
Sensor Input		1 input (dry contact)
Alarm Output		1 digital output (200mA 5V DC)
Intelligent Video		
Video Analytics		Motion Detection, Tampering Alarm, Face Detection, Face Recognition
Video Resolution		
Main Stream	4:3	2560 x 1920, 2048 x 1536, 1600 x 1200, 1280 x 960
	16:9	3840 x 2160 (Default), 2560 x 1440, 1920 x 1080, 1280 x 720
Sub Stream	4:3	1024 x 768, 640 x 480, 320 x 240
	16:9	1280 x 720, 640 x 360 (Default)
Third Stream	4:3	640 x 480, 320 x 240
	16:9	640 x 360 (Default)
Network		
Interface		10/100 Ethernet
Ethernet Protocol		DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, RTSP, SMTP, TCP, UDP
Mechanical		
Temperature Detector		Yes
Camera Angle Adjustment	Pan	0° ~ 350°
	Tilt	0° ~ 75°
	Rotate	0° ~ 340°
Connectors	Power	2-pin terminal block (DC 12V, 1.25A), PoE
	Ethernet	Ethernet (10/100 Base-T), RJ-45
	Audio	1 In (3.5 mm phone jack for external microphone with power supply) 1 Out (3.5 mm phone jack for speaker) (Currently not functional)
	Digital I/O	I/O wires

	Local Storage	Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.
LED Indicator		2 LEDs: Power, Status

General

Environment Temperature	Start-up	-20°C ~ 50°C (-4°F ~ 122°F)
	Operation	-30°C ~ 50°C (-22°F ~ 122°F)
Humidity		10% to 90% (no condensation)
Power Source		12V DC / PoE (IEEE 802.3af)
Max. Power Consumption		11.04 W
Dimension		Ø 125 x 99.5 mm (4.92" x 3.92")
Weight		470 g (1.04 lb)
Regulatory		CE, FCC, RCM, LVD, RoHS compliant

Power over Ethernet

PoE Standard	PoE (IEEE 802.3af Power over Ethernet / PD)
PoE Power Supply Type	End-Span and Mid-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, Privacy Mask, Text Overlay
Language	English / Japanese / Simplified Chinese / Traditional Chinese

Applications

Software Supported	GV-DVR / NVR (V8.8.0), GV-VMS (V17.1.0.100), GV-Control Center (V3.5.1), GV-Edge Recording Manager (V1.4.0), GV-Recording Server / Video Gateway (V1.4.2), GV-Redundant / Failover Server (V1.1.0.0), GV-Mobile Server (V1.5.0.0) *Face recognition and detection is only supported by GV-VMS.
Smart Device Access	GV-Eye for iOS and Android
Live Viewing	Web browser, Mobile app

Note:

1. It is required to apply patch files to some of the supported software.
2. Specifications are subject to change without prior notice.
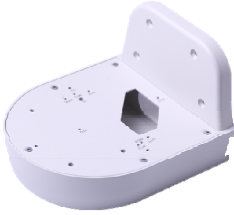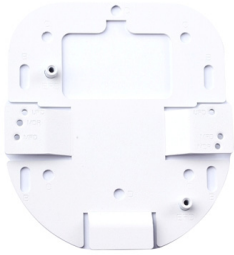
Packing List

1. H.265 Fixed Dome
2. Screw x 3
3. Screw Anchor x 3
4. Torx Wrench
5. I/O Wires
6. Audio Wire x 2
7. Installation Sticker
8. 8 GB Micro SD Card (MLC, SDHC, Class 10)
   (The Micro SD Card is preinstalled and formatted in the camera)
9. Download Guide
10. Warranty Card

Note: Power adapters can be purchased upon request.

Accessories

Model No.	Name		Details
GV-Mount100	Straight Tube and Junction Box Kit		Dimensions: 200 x 170 x 257.5 mm (7.9" x 6.7" x 10.1") Weight: 3.17 kg (6.99 lb)

Model No.	Name		Details
GV-Mount101	Straight Tube Kit		Dimensions: 219 x 125 x 332 mm (8.6" x 4.9" x 13.1") Weight: 1.8 kg (3.97 lb)
GV-Mount200	Wall Pendant Mount		Dimensions: 225 x 140 x 250 mm (8.9" x 5.5" x 9.8") Weight: 900 g (1.98 lb)
GV-Mount203	Wall Mount and Junction Box		Dimensions: 315 x 195.5 x 225 mm (12.4" x 7.7" x 8.9") Weight: 2.95 kg (6.5 lb)
GV-Mount300-1	Convex Corner Adapter Kit		Dimensions: 238.6 x 395.2 x 210 mm (9.4'' x 15.5" x 8.2") Weight: 4.27 kg (9.41 lb)
GV-Mount310-1	Concave Corner Adapter Kit		Dimensions: 111.2 x 369.9 x 210 mm (4.37'' x 14.5" x 8.2") Weight: 2.96 kg (6.53 lb)
GV-Mount400-1	Pole Mount Bracket Kit (Ø 4" ~ 6")		Bracket Dimensions: 68.4 x 240 x 163 mm (2.69" x 9.44'' x 6.41") Weight: 1.70 kg (3.75 lb) Steel Strap Diameter: Ø 4" ~ 6"
GV-Mount410-1	Pole Mount Bracket Kit (Ø 6" ~ 7.5")		Bracket Dimensions: 68.4 x 240 x 163 mm (2.69" x 9.44'' x 6.41") Weight: 1.70 kg (3.75 lb) Steel Strap Diameter: Ø 6" ~ 7.5"

Model No.	Name		Details
GV-Mount702	Extension Tube		**Four** options are available. Dimensions: Ø 5.4 x 10 or 20 or 30 or 50 cm (Ø 2.1" x 3.9" or 7.9" or 11.8" or 19.7") Weight: 180 g or 390 g or 550 g or 800 g (0.4 lb or 0.86 lb or 1.21lb or 1.76 lb)
GV-Mount909	Wall Box Mount		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: Ø 146 x 7.5 mm (Ø 7.04" x 2.5") Weight: 180 g (0.4 lb)
GV-Mount915	In-Ceiling Mounting Kit		Dimensions: Ø 172.5 x 63.8 mm (Ø 7.04" x 2.5") Weight: 424 g (0.93 lb)
GV-Mount917	Dome Housing		Dimensions: Ø 186 x 97.5 mm (Ø 7.3" x 3.8") Weight: 948 g (2.09 lb)
GV-PA191	PoE Adapter		The GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.

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-FWC		GV-FWC can integrate GV-Face Recognition Cameras and GV-AI FR into access control systems by sending access card data, paired to Face IDs, to controllers either through TCP/IP or Wiegand connection.
GV-Relay V2		The GV-Relay V2 is designed to expand the voltage load of GV IP devices. It provides 4 relay outputs, and each can be set as normally open (NO) or normally closed (NC) independently as per your requirement.
Power Adapter		Contact our sales representatives for the countries and areas supported.