GV-TDR8805 AI 8MP H.265 Super Low Lux WDR Pro IR Mini Fixed Rugged IP Dome

- AI deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/2.7" progressive scan CMOS sensor
- Triple streams from H.265, H.264 or MJPEG
- Min. illumination at 0.003 lux
- Up to 20 fps at 3840 x 2160
- Wide Dynamic Range Pro (WDR Pro)
- Day and night function (with removable IR-cut filter)
- Intelligent IR
- IR distance up to 30 m (100 ft)
- Built-in micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10) for local storage
- 3-axis mechanism (pan / tilt / rotate)
- Ingress protection (IP67)
- Vandal Resistance (IK10 for metal casing)
- DC 12V / PoE (IEEE 802.3af)
- Built-in microphone
- Two-way audio capable
- Defog
- 3D noise deduction
- AI analytics (Intrusion, Cross Line, Enter Area, Leave Area, Face Detection, People Flow Counting, Crowd Density Monitoring)
- Motion detection
- Tampering alarm
- Text overlay
- Privacy mask
- 12 languages supported
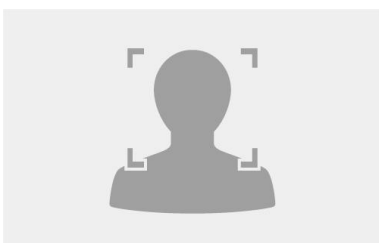- ONVIF (Profile G, S, T) conformant

Introduction

GV-TDR8805 is an outdoor, fixed, network camera equipped with an automatic IR-cut filter and an IR LED for day and night surveillance. The camera supports H.265 video codec to achieve better compression ratio while maintaining high quality pictures at reduced network bandwidths. The camera adheres to IP67 and IK10 standards, and can be powered through PoE.

Empowered by deep learning algorithms, AI technology distinguishes human and vehicles from other moving objects. Integrated with GeoVision Video Management Software (VMS), it supports AI perimeter protection, real time alert, playback and more.
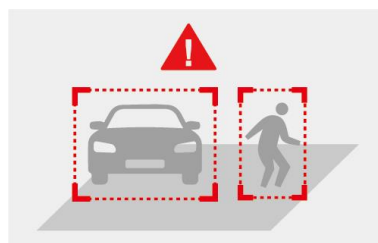
Deep Learning Function
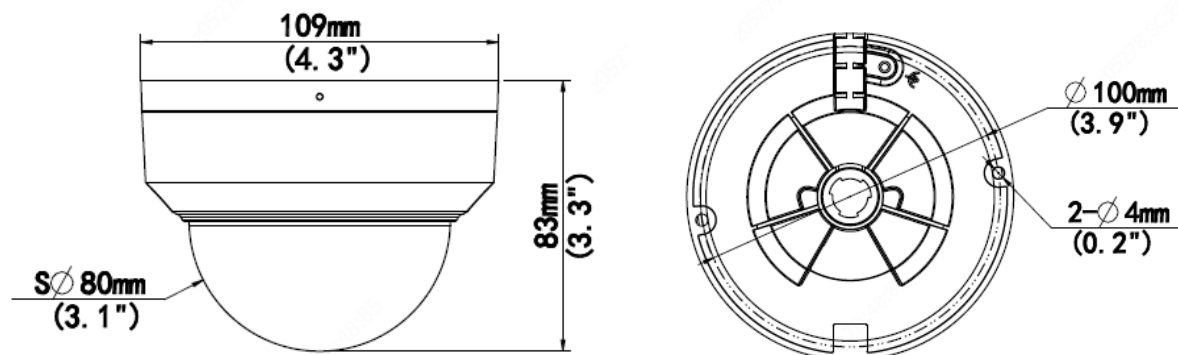
Face Detection	AI Perimeter Protection (Intrusion, Crossing Line Entering Area, Leaving Area)	People Flow Counting

Dimensions

Specifications

Camera		
Image Sensor		1/2.7" progressive scan CMOS
Picture Elements		3840 (H) x 2160 (V)
Minimum Illumination	Color	0.003 Lux (F1.6, AGC ON)
	IR ON	0 Lux
Shutter Speed		Auto / Manual (1 ~ 1/100000 sec)
White Balance		Automatic, Manual
Gain Control		Automatic, Manual
S/N Ratio		56 dB
WDR Pro		Yes
Dynamic Range		120 dB

Lens		
Megapixel		8 MP
Day / Night		Yes (with removable IR-cut filter)
Lens Type		Fixed
Focal Length		2.8 mm
Maximum Aperture		F/1.6
Mount		M12
Horizontal FOV		112.9°
Operation	Focus	Fixed
	Zoom	Fixed
	Iris	Fixed
IR LED Quantity		1 IR LED
Max. IR Distance		30 m (100 ft)

DORI		Detect	Observe	Recognize	Identify
Lens	2.8 mm	84 m (275.6 ft)	33.6 m (110.2 ft)	16.8 m (55.1 ft)	8.4 m (27.6 ft)

Operation		
Video Compression		H.265, H.264, MJPEG
Video Streaming		Triple streams from H.265, H.264 or MJPEG
Frame Rate		20 fps at 3840 x 2160, 30 fps at 3072 x 1728, 30 fps at 2560 x 1440, 30 fps at 1920 x 1080 (60 / 50 Hz) * The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).
Video Analytics		Motion Detection, Tampering Alarm, Audio Detection *Tampering alarm and audio detection 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, Flicker-less, Image Orientation (Flip, Mirror, 0°, 90°, 180°, 270°-including Corridor format)
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

Face Detection		
Environment		100 lux
Detectable face angle	Tilt (Up/Down)	≤ 10°
	Swing (Left/Right)	≤ 30°
Max. number of faces		Up to 40
Min. face image pixel requirement		80 pixels

Deep Learning Function	
AI Analytics	Intrusion, Cross Line, Enter Area, Face Detection, Leave Area (Human & Vehicle classification), People Flow Counting, Crowd Density Monitoring

Network	
Interface	10/100 Ethernet
Protocol	802.1x, ARP, DHCP, DDNS, DNS, DynDNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP, UDP, UPnP, ONVIF (Profile G, S, T)

Video Resolution	
Main Stream	3840 x 2160 (Default), 3072 x 1728, 2560 x 1440, 1920 x 1080, 1280 x 720
Sub Stream	1920 x 1080, 1280 x 720, 720 x 576, 704 x 288, 640 x 480, 640 x 360 (Default), 352 x 288
Third Stream (Closed by Default)	640 x 360, 352 x 288

Mechanical		
Temperature Detector		No
Camera Angle Adjustment	Pan	3° ~ 360°
	Tilt	0° ~ 68°
	Rotate	3° ~ 360°
Connectors	Power	DC Jack (DC 12V, 1.25A), PoE
	Ethernet	RJ-45 connector
	Audio	1 In (built-in or external microphone with power supply) 1 Out (Audio Out Wire) *The Audio In port only support microphones with power supply.
	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.

General	
Operating Temperature	-30°C ~ 60°C (-22°F ~ 140°F)
Humidity	0% ~ 95% (no condensation)
Power Source	12V DC / PoE (IEEE802.3af)
Max. Power Consumption	6W
Dimensions	Ø 109 x 83 mm (Ø 4.3" x 3.3")
Weight	0.43 kg (0.95 lb)
Ingress Protection	IP67
Vandal Resistant	IK10 for metal casing
Certification	FCC, CE, RoHS, UL 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, Bandwidth Control, Image Snapshot, Defog, Text Overlay, Image Masking
Language	Czech, English, French, German, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Traditional Chinese

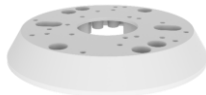| Software Applications	
Software Supported	GV-DVR / NVR (V8.9.1), GV-VMS (V17.4.4 / V18.2.1), GV-Control Center (V3.8.0 / V4.0.1), GV-Edge Recording Manager Windows Version (V2.1.0), GV-Recording Server / Video Gateway (V2.0.1), GV-Redundant / Failover Server (V1.2.0), GV-Mobile Server (V1.5.1), GV-AI Guard (V1.0.0)
Live Viewing	Browser (IE, Edge, Chrome, Firefox, Safari), Mobile APP

Note:

1. Patch files are required for some supported software.
2. Do not use clothes or any ordinary material to clean the camera cover since they may result in scratches.
3. Specifications are subject to change without notice.

Packing List

1. GV-TDR8805 Mini Dome
2. Waterproof Rubber Set
3. Screw Kit
4. Drill Template Paster
5. Torx Wrench
6. Download Guide

Accessories

Model No.	Name		Details
GV-Mount107 (must be used with GV-Mount213)	Pendant Bracket		Dimensions: Ø 120 x 334 mm (Ø 4.72" x 13.15") Weight: 0.74 kg (1.63 lb)
GV-Mount211P	Wall Mount and Junction Box		Dimensions: Ø 233 x 125 x 125 mm (Ø 9.2" x 4.9" x 4.9") Weight: 1 kg (2.2 lb)
GV-Mount213	Wall / Ceiling Box Mount		Dimensions: Ø 109 x 39 mm (Ø 4.3" x 1.5") Weight: 0.2 kg (0.44 lb)
GV-Mount300-2	Convex Corner Mount		Dimensions: 137 x 233 x 160 mm (5.4" x 9.17" x 6.3") Weight: 1.65 kg (3.64 lb)
GV-Mount310-2	Concave Corner Mount		Dimensions: 111.2 x 369.9 x 210 mm (2.6" x 11.4" x 6.6") Weight: 1.65 kg (3.64 lb)
GV-Mount420 (must be used with GV-Mount211P)	Pole Mount Bracket		Dimensions: Ø 120 x 120 x 53.4 mm (Ø 4.7" x 4.7" x 2.1") Weight: 0.45 kg (0.99 lb) Steel Strap Diameter: Ø 67 ~ 127 mm (Ø 2.6" ~ 5")
GV-Mount704 (must be used with GV-Mount107)	Extension Tube		Dimensions: Ø 3.5 x 10 or 20 or 30 or 50 cm (Ø 1.38 x 3.9 or 7.9 or 11.8 or 19.7") Weight: 225g or 360g or 500g or 780g (0.5 lb or 0.79 lb or 1.1 lb or 1.72 lb)
GV-Mount924 (for standard US single and double gang boxes only)	Power Box Mount Bracket		Dimensions: Ø 128 x 18.5 mm (Ø 5" x 0.7") Weight: 0.15 kg (0.33 lb)
GV-PA191	Power over Ethernet (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.
Power Adapter			Contact our sales representatives for the countries and areas supported.