GV-GPTZ4810 AI 4MP H.265 2.3x Zoom Super Low Lux IR IP Mini PTZ

- AI deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/2.7" progressive scan CMOS sensor
- Min. illumination at 0.02 lux
- Triple streams from H.265, H.264 or MJPEG
- Up to 30 fps at 2688 x 1520
- Motorized varifocal lens for remote focus / zoom adjustments
- 2.3x optical zoom
- Intelligent IR
- IR distance up to 20 m (65 ft)
- Day and night function (with removable IR-cut filter)
- Ingress protection (IP67)
- Vandal resistance (IK10 for metal casing)
- Built-in microphone
- Two-way audio capable
- Built-in microSD card slot (SD / SDHC / SDXC) for local storage
- DC 12V, PoE (IEEE 802.3af)
- Pan 355°
- Tilt from 15° to 90°
- Pan and tilt speed of 80°/sec, respectively
- PTZ movement (Preset, Cruise, Smart Tracking)
- PTZ patrol by schedule
- Smart tracking triggered by AI analytics (Line Crossing, Region Entrance, Region Exiting, Region Intrusion)
- Auto focus
- 3D noise reduction
- Motion detection
- Text overlay
- Privacy mask
- 12 languages supported
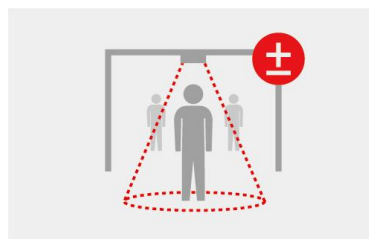- ONVIF (Profile G, S, T) conformant

Introduction

GV-GPTZ4810 is an outdoor mini network PTZ camera that offers 2.3x optical zoom, capable of showing smooth live view with great details. This camera can simultaneously deliver three video streams in resolutions up to 2688 x 1520 at 30 fps. The camera supports H.265 video codec to achieve better compression ratio while maintaining high quality pictures at reduced network bandwidths. It also adheres to IP67 and IK10 standards.

Empowered by deep learning algorithms, AI technology distinguishes human and vehicles from other moving objects. GV-GPTZ4810 supports AI perimeter protection, smart tracking, video exception and more.

Deep Learning Function

AI Perimeter Protection
(Intrusion, Crossing Line, Entering Area, Leaving Area)

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Specifications

Camera		
Image Sensor		1/2.7" progressive scan CMOS
Picture Elements		2688 (H) x 1520 (V)
Optical Zoom		2.3x
Minimum Illumination	Color	0.02 Lux (F1.6, AGC ON)
	IR ON	0 Lux
Electronic Shutter		Auto / Manual (1/30 ~ 1/30000 sec sec)
White Balance		Auto / Manual
AGC control		Auto / Manual
S/N Ratio		52 dB
WDR		WDR
Dynamic Range		108 dB

Optical Lens		
Megapixel		4 MP
Day / Night		Yes (with removable IR-cut filter)
Lens Type		Motorized varifocal lens
Focal Length		3.18 ~ 7.42 mm
Maximum Aperture		F1.6
FOV	Horizontal	44.3° ~ 113.6°
	Vertical	59.6°(W) ~ 24.9°(T)
	Diagonal	137.4°(W) ~ 50.8°(T)
Operation	Focus	Auto / Manual
	Zoom	2.3x
	Iris	Fixed
IR LED Quantity		4 IR LEDs
Max. IR Distance		20 m (65 ft)

DORI		Detect	Observe	Recognize	Identify
Lens	3.18 mm	62.8 m (206.0 ft)	24.9 m (81.6 ft)	12.5 m (41.0 ft)	6.2 m (20.3 ft)
	7.42 mm	148.4 m (486.8 ft)	58.8 m (192.9 ft)	29.6 m (97.1 ft)	14.8 m (48.5 ft)

Video		
Video Compression		H.265, H.265+, H.264, H.264+, MJPEG
Video Streaming		Triple streams
Video Resolution	Main Stream	2688 x 1520 (Default), 2560 x 1440, 2048 × 1536, 1920 x 1080, 1280 x 960, 1280 x 720 (60 / 50 Hz)
	Sub Stream	1280 x 720, 704 x 480, 640 x 480, 640 x 360 (Default), 352 x 240 (60 Hz) 1280 x 720, 704 x 576, 640 x 480, 640 x 360 (Default), 352 x 288 (50 Hz)
	Third Stream	1920 x 1080, 1280 × 960, 1280 x 720, 704 × 480, 640 × 480, 352 × 240 (Default) (60Hz) 1920 x 1080, 1280 × 960, 1280 x 720, 704 x 576, 640 x 480, 352 × 288 (Default) (50Hz)
Frame Rate		30 fps at 2688 x 1520, 2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 640 x 360, 352 × 240 (60 Hz) 25 fps at 2688 x 1520, 2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 640 x 360, 352 × 288 (50 Hz) * The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).
Maximum Throughput		80 Mbps
Maximum Streams *When the total bitrate is within the maximum throughput		10
Video Analytics		Motion Detection, Video Exception (Scene Change Detection, Video Blur Detection, Abnormal Color Detection)
Smart Alarm		Motion Detection, SD Card Error, SD Card Full, IP Address Conflict, Cable Disconnection, Scene Change Detection, Video Blur Detection, Abnormal Color Detection
Image Setting		Brightness, Contrast, Hue, Saturation, WDR, Sharpness, BLC, Flicker-less, 3D Noise Reduction, Image Orientation (Flip, Mirror)

Audio		
Audio Compression		G.711

Audio Support		Two-way audio (external speaker required)		
Deep Learning Function				
AI Analytics		Line Crossing, Region Entrance, Region Exiting, Region Intrusion		
Smart Tracking		Yes		
Network				
Interface		10/100 Base-TX Ethernet		
Protocol		802.1x, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, IGMP, ICMP, IPv4/IPv6, NTP, ONVIF (Profile G, S, T), PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP		
Mechanical				
Connector	Power	DC 12V, PoE (IEEE 802.3af)		
	Ethernet	10M/100 Base-TX, RJ-45 connector		
	Audio	Built-in microphone	Yes	
		External microphone required	Yes (Audio jack, 3.5mm)	
		Built-in speaker	No	
		External speaker required	Yes (Audio jack, 3.5mm)	
		* For devices with microphone or speaker, choose either the built-in or external option.		
		* If equipped with an Audio In port, it only supports microphones with power supply.		
	Local Storage	microSD card slot (SD / SDHC / SDXC), up to 256 GB		
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14") 1 input (dry contact, NO / NC), 1 relay output (30V DC, 1A / 125V AC, 0.3A)		
Operation				
Pan Travel		0° ~ 355°		
Tilt Travel		15°~ 90°		
Manual Speed	Pan	0.5° ~ 80°/s		
	Tilt	0.5° ~ 80°/s		
Preset Speed	Pan	80°/s		
	Tilt	80°/s		
Preset	Max. Number	360		
Cruise	Max. Number	8		
	Max. Actions Allowed	16		
OSD		4		
Privacy Mask		4		
Automatic Function		Preset, Cruise, Smart Tracking		
Mechanical Flip		Yes		
3D Noise Reduction		0 ~ 255		
Alarm Trigger		Alarm output, Smart Tracking, SD card Snapshot, SD card Recording, E-mail notifications, FTP upload		
General				
Operating Temperature		-30°C ~ 60°C (-22°F ~ 140°F)		
Humidity		0% ~ 90% (non-condensing)		
Dimensions		Ø 116.14 x 75 mm (Ø 4.57" x 2.95")		
Weight		0.46 kg (1.02 lb)		
Ingress Protection		IP67		
Vandal Resistance		IK10 for metal casing		
Power Source		DC 12V, PoE (IEEE 802.3af)		
Power Consumption		12 W		
Certification		CE, FCC, RoHS compliant		
Web Interface				
Installation Management		Web-based configuration		
Maintenance		Firmware upgrade through Web Browser or Utility		
Language		Czech, English, French, German, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Traditional Chinese		
Software Applications				
Software Supported		GV-VMS (V17.4.8 / V18.3.5 or later, patch files required / V20.0.0 or later), GV-Control Center (V4.2.1 or later, patch files required), GV-Edge Recording Manager Windows Version (V2.2.8 or later), GV-Recording Server / Video Gateway (V2.1.1 or later)		
Smart Device Access		GV-Eye for iOS and Android		

Live Viewing	Bowser (Edge, Chrome, Firefox), Mobile App

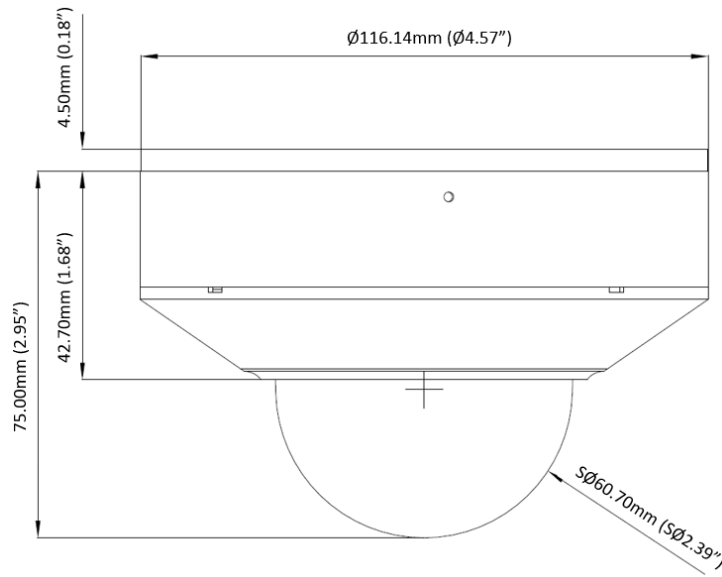**Note:** All specifications are subject to change without notice.

Packing List

1. GV-GPTZ4810 Mini PTZ
2. Screw Kit
3. Drill Template Paster
4. Download Guide

Accessories

Model No.	Name		Details
GV-Mount211-14	Wall Mount Bracket		Dimensions: 202.5 x 131 x 115 mm (7.97 x 5.16 x 4.53 in) Weight: 0.40 kg (0.89 lb)
GV-Mount211-15	Wall Mount Bracket and Junction Box		Dimensions: 253.2 x 115 x 164.8 mm (9.97 x 4.53 x 6.49 in) Weight: 1.05 kg (2.31 lb)
GV-Mount314 (must be used with Mount211-14 or 211-15)	Corner Mount Bracket		Dimensions: 215 x 121.4 x 215 mm (8.46 x 4.78 x 8.46 in) Weight: 2.05 kg (4.52 lb)
GV-Mount470 (must be used with Mount211-15)	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-Mount481 (must be used with Mount211-14)	Pole Mount Bracket		Dimensions: 104 x 19 x 140mm (4.09 x 0.75 x 5.51 in) Weight: 0.16 kg (0.34 lb)
GV-Mount115	Pendant Mount		Dimensions: Ø 115x152.6 mm (Ø 4.53 x 6.01 in) Weight: 0.29 kg (0.64 lb)
GV-Mount515	Junction Box		Dimensions: 117.9 x 143.3 x 39 mm (4.64 x 5.64 x 1.54 in) Weight: 0.24 kg (0.53 lb)
GV-PA191	PoE Adapter		GV-PA191 is a Power over Ethernet (PoE) adapter
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.

Dimensions

Mounting Type

Wall Mount Bracket	Wall Mount Bracket	Corner Mount Bracket	Wall Mount Bracket	Pole Mount Bracket
GV-Mount211-14	GV-Mount211-14	GV-Mount314	GV-Mount211-14	GV-Mount481

Wall Mount Bracket and Junction Box	Wall Mount Bracket and Junction Box	Corner Mount Bracket	Wall Mount Bracket and Junction Box	Pole Mount Bracket
GV-Mount211-15	GV-Mount211-15	GV-Mount314	GV-Mount211-15	GV-Mount470

Pendant Mount	Junction Box
GV-Mount115	GV-Mount515