

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 (SDHC / SDXC / UHS-I, Class 10) 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)



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			
Horizontal FOV		44.3° ~ 113.6°			
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 x 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 x 960, 1280 x 720, 704 x 480, 640 x 480, 352 x 240 (Default) (60Hz) 1920 x 1080, 1280 x 960, 1280 x 720, 704 x 576, 640 x 480, 352 x 288 (Default) (50Hz)			
Frame Rate		30 fps at 2688 x 1520, 2560 x 1440, 2048 x 1536, 1920 x 1080, 1280 x 960, 1280 x 720, 704 x 480, 640 x 480, 640 x 360, 352 x 240 (60 Hz) 25 fps at 2688 x 1520, 2560 x 1440, 2048 x 1536, 1920 x 1080, 1280 x 960, 1280 x 720, 704 x 576, 640 x 480, 640 x 360, 352 x 288 (50 Hz)			
* The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).					
Maximum Throughput	AI off	64 Mbps			
	AI on	64 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	Micro SD card slot (SDHC / SDXC / UHS-I, Class 10) *UHS-II card types are not supported.	
	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	
	Max. Number	8	
Cruise	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		∅ 116.14 x 75 mm (∅ 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), GV-Control Center (V4.2.1 or later), 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

Browser (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-PA191	PoE Adapter	 <p>GV-PA191 is a Power over Ethernet (PoE) adapter</p>
GV-PA301	Gigabit PoE Adapter	 <p>GV-PA301 is a Gigabit Power over Ethernet (PoE) adapter.</p>
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

