

GV-GPH2800 AI 2MP H.265 Super Low Lux WDR Pro IP Pinhole Camera



- AI deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/2.8" progressive scan CMOS sensor
- Minimum illumination at 0.05 lux
- Triple streams from H.265, H.264, and MJPEG
- Up to 30 fps at 1920 x 1080
- Day and night function (electronic)
- Built-in microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) for local storage
- Two-way audio capable
- Eight sensor inputs and four alarm outputs
- DC 12V / PoE (IEEE 802.3af)
- Wide Dynamic Range Pro (WDR Pro)
- Defog
- 3D noise reduction
- Motion detection
- AI analytics (Object Abandoned / Missing, Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Face Detection, Heat Map)
- Privacy mask
- Text overlay
- IP address filtering
- 12 languages supported
- ONVIF (Profile G, S, T) conformant

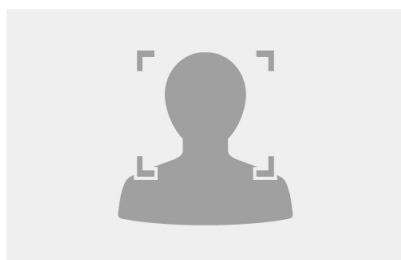
Introduction

GV-GPH2800 is a pinhole camera designed for discreet surveillance applications. The compact camera lens can be installed in surveillance sites with limited space, such as behind the panels of ATMs. The camera is also ideal for locations where discreet surveillance is desirable, such as at banks, hotels, museums, stores, and offices. The camera is equipped with 1/2.8" progressive scan super low lux CMOS, with a day and night electronic lens to provide a clear view at any time of the day.

Empowered by deep learning algorithms, its AI technology distinguishes humans and vehicles from other moving objects. Integrated with GeoVision Video Management Software (VMS), it supports AI perimeter protection, real-time alert, events playback, and more.

Deep Learning Function

Face Detection

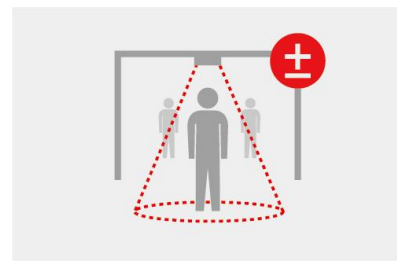


AI Perimeter Protection

(Intrusion, Crossing Line, Entering Area, Leaving Area)

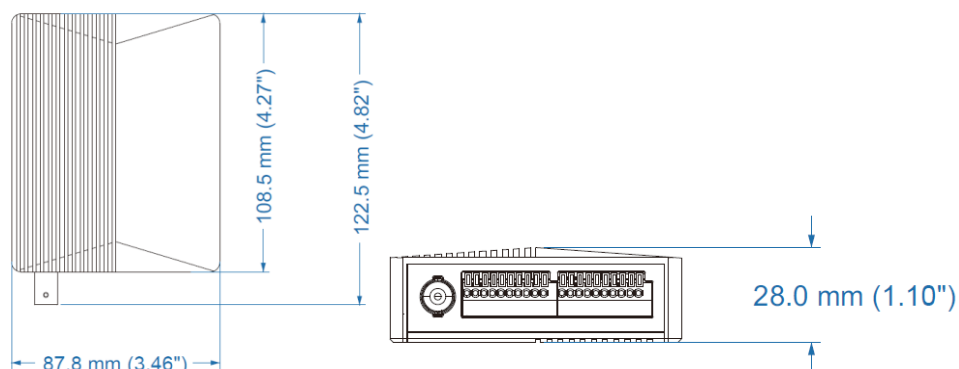


People Counting

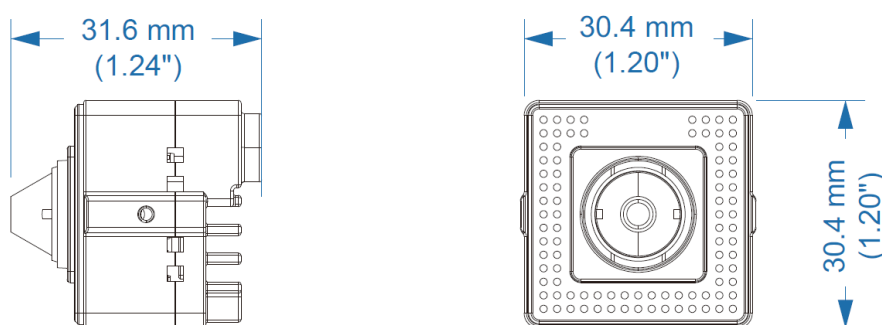


Dimensions

● Main Body



● Camera Lens



Specifications

Camera					
Image Sensor		1/2.8" progressive scan CMOS			
Picture Elements		1920 (H) x 1080 (V)			
Minimum Illumination	Color	0.05 Lux (F2.2, AGC ON)			
	B/W				
Gain Control		Automatic			
S/N Ratio		52 dB			
WDR Pro		Yes			
Dynamic Range		120 dB			
Lens					
Megapixel		2 MP			
Day/Night		Yes (Electronic)			
Iris		Fixed			
Focal Length		2.8 mm			
Maximum Aperture		F/2.2			
Mount		M12			
Image Format		1/2.8"			
FOV	Horizontal	104°			
	Vertical	approx. 59°			
	Diagonal	approx. 117°			
Operation	Focus	Fixed			
	Zoom	Fixed			
	Iris	Fixed			
DORI		Detect	Observe	Recognize	Identify
Lens	2.8 mm	38 m (124.6 ft)	15 m (49.2 ft)	8 m (26.2 ft)	4 m (13.1 ft)

Operation				
Video Compression		H.265, H.265+, H.264, H.264+, MJPEG		
Video Streaming		Triple streams		
Video Resolution	Main Stream	1920 x 1080 (Default), 1280 x 720, 704 x 480		
	Sub Stream	1280 x 720 (Default), 704 x 480, 352 × 240		
	Third Stream	704 x 480 (Default), 480 x 240, 352 × 240		
Frame Rate		- 30 fps at 1920 x 1080, 30 fps at 1280 x 720, 30 fps at 704 x 480, 30 fps at 352 x 240, 30 fps at 480 x 240 (60 Hz) - 25 fps at 1920 x 1080, 25 fps at 1280 x 720, 25 fps at 704 x 576, 25 fps at 352 x 288, 25 fps at 480 x 240 (50 Hz) * The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).		
Video Analytics		Motion Detection, Video Exception Detection (Scene Change, Video Blur and Abnormal Color Detection), Object Abandoned/Missing Detection		
Smart Alarm		Motion Detection, Sensor Alarm, SD Card Error, SD Card Full, IP Address Conflict, Cable Disconnection		
Heat Map		On / Off		
Image Setting		Brightness, Contrast, Saturation, Hue, Sharpness, Image Orientation (Flip, Mirror, 0°, 90°, 180°, 270° - including Corridor format), WDR, Defog, NR		
Audio Compression		G.711		
Audio Support		Two-way audio capable (external speaker and microphone required)		
Digital I/O	Input	8 inputs, dry contact, NO / NC		
	Output	4 relay outputs (24 V DC / 1A 125 V AC)		
Network				
Interface		100 Mbps Ethernet		
Ethernet Protocol		UDP, IPv4, IPv6, DHCP, NTP, R TSP, RTMP, PPPoE, DDNS, SMTP, FTP, SNMP, 802.1X authentication (EAP-MD5), UPnP, HTTPS, HTTP POST, QoS, ONVIF		
Deep Learning Function				
AI Analytics		Face Event: Face Detection Smart Event: - Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Heat Map: Human & Vehicle classification *Face events and smart events cannot be enabled at the same time.		
Mechanical				
Connectors	Power	Main Body	Input: PoE (IEEE 802.3af) / DC 12 V; Output: DC 12 V, 0.5 A (Max. 5.5 W)	
		Camera	DC 12 V, 0.5 ~ 1 A (external power supply required)	
	Ethernet		RJ-45	
	Audio	Built-in microphone		No
		External microphone required		Yes (audio jack, 3.5 mm or 0.14 in)
		Built-in speaker		No
		External speaker required		Yes (audio jack, 3.5 mm or 0.14 in)
		* Choose either the built-in or external option for devices with a microphone or speaker. * The Audio In port only supports microphones with a power supply.		
	Video Input		BNC connector	
Local Storage		microSD card slot (SD / SDHC / SDXC), up to 256 GB		
General				
Environment Temperature		-30 °C ~60 °C (23 °F ~ 122 °F)		
Humidity		0% to 95% (no condensation)		
Power Source		PoE (IEEE 802.3af) / DC 12 V		
Max. Power Consumption		5.5 W		
Dimension	Main Body	108.5 x 87.8 x 28 mm (4.27" x 3.46" x 1.10")		
	Camera	31.6 x 30.4 x 30.4 mm (1.24" x 1.20" x 1.20")		
Weight (with main body mount)		323.8 g (0.71 lb)		
Certification		CE, FCC, RoHS compliant		
Web Interface				
Installation Management		Web-based configuration		
Maintenance		Firmware upgrade through Web Browser or Utility		

Access from Web Browser	Live View, Playback, Video Recording, Image Quality, Bandwidth Control, Image Snapshot, Two-way Audio, Digital Zoom, Text Overlay, Image Masking, Intelligent Mark
Language	Chinese Traditional, Czech, English, French, German, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish
Software Applications	
Software Supported	GV-VMS (V17.4.7 or later, V18.3.2 or later), GV-Edge Recording Manager (Windows Version) V2.2.7 or later, GV-Edge Recording Manager (Mac Version) V1.3.0 or later, GV-Control Center V4.1.1 or later, GV-Recording Server V2.1.0 or later
Smart Device Access	GV-Eye for iOS / Android (V3.1.0 or later)
Live Viewing	Browser (IE, Edge, Chrome, Firefox, Safari)

Note:

1. The product requires a BNC cable, which is not included in the packaging. Please prepare one for use.
2. Specifications are subject to change without notice.

Packing List

- | | |
|--------------------|--------------------------|
| 1. Pinhole Camera | 4. Screw Kit |
| 2. Main Body Mount | 5. Drill Template Paster |
| 3. Analog Mount | 6. Download Guide |

Accessories

Model No.		Details
GV-PA191		GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.
GV-PA301		GV-PA301 is a Gigabit Power over Ethernet (PoE) adapter.
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.