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 micro SD 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 pinhole camera offers an option for clandestine surveillance. The compact camera lens can be installed in surveillance sites with limited space such as behind the panel of ATM machines. 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 anytime of a day.

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, events playback and more.
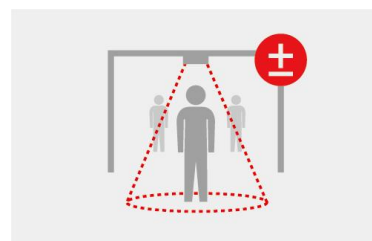
Deep Learning Function
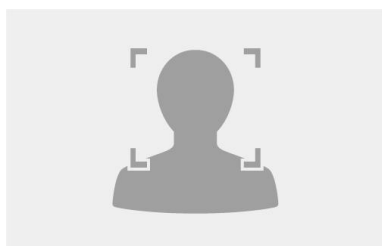
Face Detection	AI Perimeter Protection	People Counting
	(Intrusion, Crossing Line Entering Area, Leaving Area)	

Dimensions

- Main Body

108.5 mm (4.27")
122.5 mm (4.82")
87.8 mm (3.46")
28.0 mm (1.10")

- Camera Lens

31.6 mm (1.24")
30.4 mm (1.20")
30.4 mm (1.20")
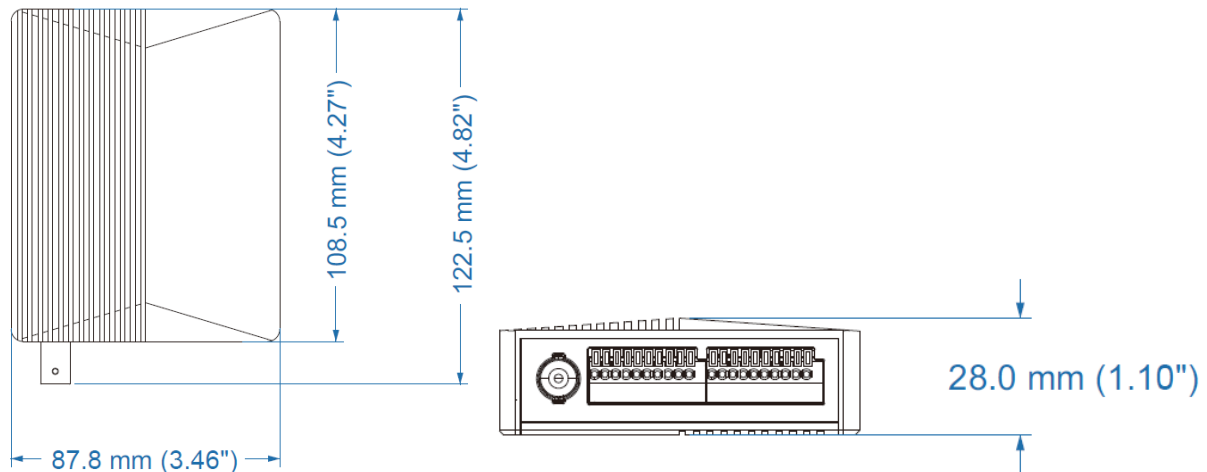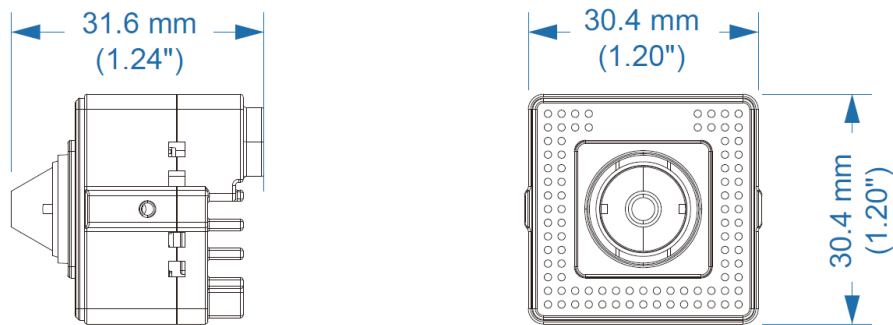
Specifications

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"
Horizontal FOV		104°
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, UPnP, HTTPS, HTTP POST, QoS, ONVIF

Deep Learning Function		
AI Perimeter Protection		-Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Heat Map: Human & Vehicle classification -Face Detection

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		1 In (stereo phone jack, 3.5 mm / 0.14'') 1 Out (stereo phone jack, 3.5 mm / 0.14'')	
	Video Input		BNC connector	
	Local Storage		Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10), max. 256 GB *UHS-II card type is not supported.	

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	Czech, English, French, German, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Traditional Chinese
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
2. Main Body Mount
3. Analog Mount
4. Screw Kit
5. Drill Template Paster
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.