

GV-SD4834-IR AI 4MP 40x Zoom H.265 Super Low Lux Outdoor IR IP Speed

Dome



- AI deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/2.7" progressive scan CMOS sensor
- Min. illumination at 0.005 lux
- Triple streams from H.265, H.264 or MJPEG
- Up to 30 fps at 2560 x 1440
- Motorized varifocal lens for remote focus / zoom adjustments
- 40x optical zoom
- Intelligent IR
- IR distance up to 350 m (1300 ft)
- Day and night function (with removable IR-cut filter)
- Ingress protection (IP67)
- Vandal resistance (IK10)
- Wide temperature tolerance (-40°C ~ 65°C / -40°F ~ 149°F)
- Two-way audio capable
- Built-in microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) for local storage
- DC 24V / AC 24V / PoE+ (IEEE 802.3at)
- Pan 360° endlessly
- Tilt from -25° to 155°
- Pan and tilt speed of up to 330°/sec and 180°/sec, respectively
- PTZ movement (Preset, Auto Pan and Patrol)
- PTZ patrol by schedule
- AI analytics (Cross Line, Intrusion, Auto Tracking, Enter Area, Leave Area, Face Detection)
- Auto focus
- 3D noise reduction, ROI video optimization reduction
- Motion detection
- Privacy mask 10 layers
- ONVIF (Profile G, S, T, M) conformant ISO/IEC27001:2022, ISO 9001:2015, ISO 14001:2015, CVE/CNA, Compliance NIS2, GDPR AI ACT E Cyber Resilience ACT
- Signed Firmware & Supply Chain Security:
- Installation and update are allowed exclusively for manufacturer-signed firmware. Firmware components are documented through a Software Bill of Materials (SBOM)

EU Certification



Certificazioni CyberSecurity e presso Lab.certificati Accredia

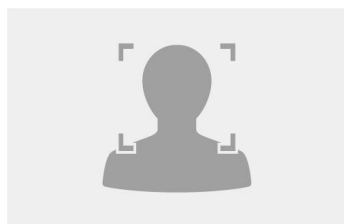
Introduction

The GV-SD4834-IR is an outdoor AI-powered PTZ IP speed dome camera designed for long-range surveillance in large and critical areas. Equipped with a 1/2.7" progressive scan CMOS sensor, a motorized varifocal lens with 40× optical zoom, and H.265 compression, it delivers detailed video at resolutions up to 2560 × 1440 at 30 fps while optimizing bandwidth usage. The camera features high-power intelligent IR illumination up to 350 m, ensuring reliable performance in extremely low-light environments (0.005 lux).

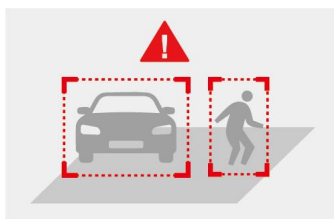
Powered by AI deep learning analytics, the GV-SD4834-IR supports advanced functions such as human and vehicle classification, AI perimeter protection, auto tracking, and face detection. With 360° endless pan, high-speed PTZ movement, IP67 and IK10 protection, wide operating temperature range, and support for PoE+, the camera is ideal for demanding outdoor security applications.

Deep Learning Function

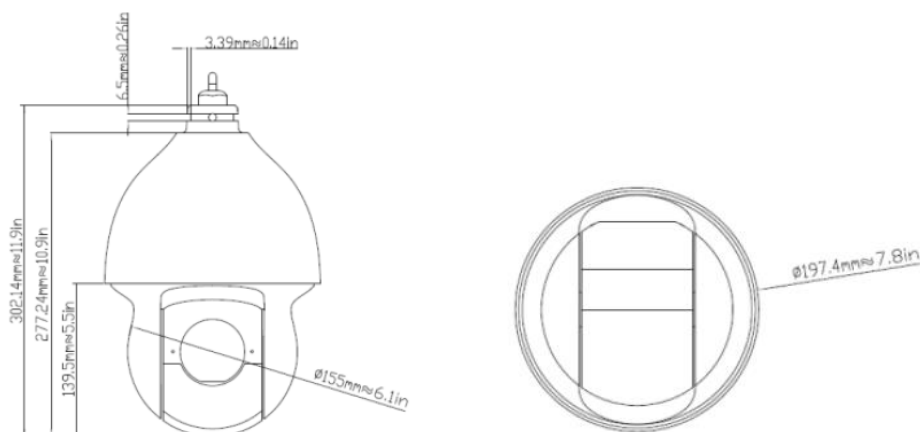
Face Detection



AI Perimeter Protection



Dimensions



Specifications

Camera					
Image Sensor		1/2.7" progressive scan CMOS			
Optical Zoom		40x			
Minimum Illumination	Color	0.005 Lux (F1.2, AGC ON)			
	Black/White	0.001 Lux (F1.2, AGC ON)			
	IR ON	0 Lux			
Electronic Shutter		Auto / Manual (1/30 ~ 1/30000 sec)			
White Balance		Auto / Manual			
Iris control		Auto / Manual			
AGC control		Auto / Manual			
S/N Ratio		52 dB			
WDR		DWDR			
Dynamic Range		Up to 120 dB			
Image Stabilizer		Enable EIS (Digital Image Stabilization).			
DORI		Detect	Observe	Recognize	Identify
Lens	4.5 mm	99.6 m (326.7 ft)	39.5 m (129.5 ft)	19.9 m (65.2 ft)	10 m (32.8 ft)
	180 mm	3600 m (11811.0 ft)	1429 m (4688.3 ft)	720 m (2362.2 ft)	360 m (1181.1 ft)
Optical Lens					
Megapixel		4 MP			
Day / Night		Yes (with removable IR-cut filter)			
Focal Length		4.5 ~ 180 mm			
Lens Type		Motorized varifocal lens			
Maximum Aperture		F1.2			
FOV	Horizontal	59.1° ~ 1.8°			

Operation	Vertical	38.4°~1.1°
	Diagonal	6.9°~2.1°
	Focus	Auto / Manual
	Zoom	40x
	Iris	Auto / Manual
IR LED Quantity		8 IR LEDs
Max. IR Distance		350 m (1300 ft)
Video		
Video Compression		H.265, H.264, MJPEG
Video Streaming		Triple streams from H.265, H.264 or MJPEG
Video Resolution	Main Stream	2560 x 1440 (Default), 1920 x 1080, 1280 x 960, 1280 x 720
	Sub Stream	704 x 576, 704 x 480, 640 x 480, 352 x 288, 352 x 240
	Third Stream	1920 x 1080, 1280 x 960, 1280 x 720, 704 x 576, 704 x 480, 640 x 480, 352 x 288, 352 x 240
Frame Rate		30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 50 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).
Maximum Throughput		16 Mbps
Maximum Streams		* When the total bitrate is within the maximum throughput 16
Storage Recording		Recording Failover, Edge
Video Analytics		Motion Detection, Tampering Alarm
Image Setting		Brightness, Contrast, Saturation, Sharpness, Flicker-less, Image Orientation (Flip, Mirror, 0°, 90°, 180°, 270° - including Corridor format)
Audio		
Audio Compression		G.711
Audio Support		Two-way audio capable
Deep Learning Function		
AI Analytics		Cross Line, Intrusion, Auto Tracking, Enter Area, Leave Area, Face Detection
Network		
Interface		10/100 Ethernet
Protocol		HTTP (digest), HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, P2P, RTMP, ONVIF (Profile G, S, T, M), MQTT, IP Filtering, Password Brute force protection, Sistem Log preserved
Mechanical		
Connectors	Power	DC24V±25%, PoE+ (IEEE 802.3at)
	Ethernet	10/100 Base-TX, Shielded RJ-45 connector
	Audio	1 in (Audio In Wire); 1 out (Audio Out Wire) *The Audio In port only supports microphones with power supply.
	Local Storage	microSD card slot (SD / SDHC / SDXC), up to 512 GB, AES128
	Digital I/O	I/O wires
Operation		
Pan Travel		360° endless
Tilt Travel		-25° ~ 155°
Manual Speed	Pan	0.1° ~ 360°/s
	Tilt	0.1° ~ 210°/s
Preset Speed	Pan	360°/s
	Tilt	210°/s
Presets	Max. Number	360
	Accuracy	0.3°
Patrol	Max. Number	8
	Max. Actions Allowed	16
OSD		15
Privacy Mask		4
Proportional Pan & Tilt		Auto (Pan and tilt speed proportional to zoom ratio)
Automatic Function		Preset, Patrol (Including Auto Pan)

Mechanical Flip		Yes
Digital Slow Shutter		On / Off
Motion Detection		On / Off
Wide Dynamic Range		On / Off
Day/Night: Mechanical IR Cut Filter		On / Off
Image Rotation		Normal, Flip Vertical, Flip Horizontal, 180°, 90° Clockwise, 90° Anti-clockwise
3D Noise Reduction		0 ~ 255
Alarm	Digital I/O	1 Inputs, dry contact, NO / NC
		1 Relay Output (AC 125V 0.5A / DC 30V 1A)
	Reaction	Alarm Output, PTZ to Preset, Trigger Storage

General	
Operating Temperature	-40°C ~ 65°C (-40°F ~ 149°F)
Humidity	0% ~ 90% (non-condensing)
Dimensions	Ø197 x 302 mm (Ø7.8" x 11.9")
Weight	2.8 kg (6.17 lb)
Power Source	AC 24V, DC 24V, PoE+ (IEEE 802.3at)
Power Consumption	24W
Warranty	5 years
Vandal Resistance	IK10
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, Video Recording, Change Video Quality, Bandwidth Control, Image Snapshot, Text Overlay, Image Masking
Language	Czech, English, German, Hungarian, Italian, Japanese, Korean, Portuguese, Polish, Russian, Romanian, Spanish, Spanish (Mexico), Turkish, Traditional Chinese

Security	
Advanced Security Features	- Signed Firmware & Secure Firmware Upgrade - Secure Boot (software-based) - Multi-User Access Management with Role-Based Permissions - Mandatory Password Change at First Login - Digest Authentication - Account Lockout & Automatic IP Blocking after Failed Login Attempts - IP Address Filtering (Whitelist / Blacklist) - Tamper-Resistant System Logs (Preserved After Reset) - HTTPS / TLS Encrypted Communications - Firmware SBOM (Software Bill of Materials) available

Packing List

- GV-GSD4830-IR Speed Dome
- Hex Key
- Waterproof Rubber Set
- Waterproof Guidelines
- Download Guide

Accessories

Model No.	Name	Details
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.	