



Type: Fixed Dome - IP - Camera

Item Code: GD-CI-AT8537VH

EAN CODE:

## PREMIUM

The PREMIUM product line offers versatile solutions with unique and unparalleled features.

## Highlights

### Ultra Low Light



Designed for unparalleled performance in low-light environments, this camera incorporates advanced image processing and a high-capacity image sensor, ensuring exceptional image quality even in ultra-low light conditions.

### H.265+



H.265pro+ utilizes the standard H.265/High Efficiency Video Coding (HEVC) format, but boasts advanced technologies that enable it to substantially reduce the necessary transmission bandwidth and storage capacity for maximum efficiency.

### Object Classification



This technology employs a highly advanced deep learning algorithm that can discern whether the alarm was triggered by a human, a vehicle or some other object.

## Features

- Deep Learning - Human and Vehicle Analysis: Self learning human and vehicle classification improves unwanted alarm filtering
- Various streams from one camera can be used for recording and display. The benefits here enable, for example, keeping the data rate significantly lower with multiple-image displays
- Audio Communication & Alarm Input / Output
- Built-in microphone
- Built in analytics function: Detection of line crossing, intrusion, region entrance, region exit, object removal, unattended baggage, face and scene change included
- Motorized Varifocal Lens:  $f = 2.8 - 12 \text{ mm}$
- H.265/H.265+, H.264/H.264+ & MJPEG compression modes
- Management platform for 3rd party APPs

## Specifications GD-CI-AT8537VH

## Camera

Image Sensor:	1/1.8" progressive Scan CMOS
Video Resolution:	3840 × 2160
Sensitivity Colour:	0.004 Lux @ F1.4 (AGC ON)
Sensitivity B/W:	0 Lux LED IR on
Shutter Speed:	1/3 ~ 1/100,000 s (Automated Electronic Shutter)
Slow Shutter:	Support
White Balance:	Manual, AWB1, AWB2, Locked WB, Fluorescent lamp, Incandescent lamp, Warm light, Natural light

## Lens

Lens Focal Length:	2.8 ~ 12 mm motorized, autofocus
Optical Zoom Ratio:	4x
Iris F-Number:	F1.4
Lens Drive Type:	P-Iris
Field of View:	112° ~ 41° (horizontal), 58° ~ 23° (vertical), 137° ~ 47° (diagonal)

## Illuminator

Max. IR Distance:	Up to 40 m
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## Video

Col/B&W:	On, Off, Auto, IR-cut filter removable (ICR)
Wide Dynamic Range:	120 dB
Image Enhancement:	BLC, 3D DNR, Defog, HLC
Image Settings:	Rotate mode, Saturation, Brightness, Contrast, Sharpness and white balance adjustable by client software or web browser
S/N Ratio:	>52 dB
Privacy zones:	4 zones, rectangle
Day/Night Switch:	Support auto, scheduled, day, night

## Audio

Audio Compression:	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC
Audio Bit Rate:	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/16 Kbps to 64 Kbps (AAC)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)
Environment Noise Filtering:	yes
Audio Detection:	Sudden audio increase, decrease

## General

DRI Range:	Detection: Wide 87 m Tele 216 m Observation: Wide 34.5 m Tele 85 m Recognition: Wide 17.4 m Tele 43.2m Identification: Wide 8.7 m Tele 21.6m  The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.
Log File Support:	Events, macros, changes, activities per user (not erasable by resetting the camera to factory settings)

**Frame Rate**

Main Stream:	50 Hz: 25 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 24 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)
Sub- Stream:	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
3rd Stream:	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
4th Stream:	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)

**Network**

Number of Clients:	Up to 32, 6 simultaneously Live View
Functions:	One-key reset, anti-flicker, four streams, heartbeat, mirror, password protection, privacy mask, IP-address filter, rotate, flash log, white balance, pixel counter
Video Compression:	Main Stream: H.264, H.264+, H.265, H.265+ Sub-Stream: H.264, H.265, MJPEG Third Stream: H.264, H.265 Fourth Stream: H.264, H.265, MJPEG
Region of Interest:	5 fixed region for main stream and sub-stream
H.264 code profile:	Baseline Profile / Main Profile / High Profile
Bit Rate:	32Kbps ~ 16Mbps, adjustable
Scalable Video Coding (SVC):	supported
SD Memory:	Micro SD/SDHC/SDXC card slot with ANR (up to 512G), NAS (Support NFS, SMB/CIFS)
Web Browser:	Plug-in required live view: IE10/IE11 Non Plug-in live view: Chrome 57+, Mozilla Firefox 52+, EDGE 89+ Local Service: Chrome 57+, Firefox 52+, EDGE 89+
Network Protocol:	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SNMP, SMTP, IGMP, 802.1X, QoS, IPv4/IPv6, UDP, PPPoE, Bonjour, SSL/TLS, SFTP, ARP, WebSocket, WebSockets, SRTP
Cyber Security:	3 levels of user management: admin, operator, user, AES Encryption for Password Protection, Complicated Password, password change prompt at first startup, HTTPS (SSL) Login Authentication, Basic and digest authentication for HTTP/HTTPS, 802.1X authentication (EAP-TLS), 802.1X authentication (EAP-MD5), Watermark, IP Address Filter, WSSE and digest authentication for ONVIF, RTP/RTSP over HTTPS, Control timeout settings, Security audit log, SNMP V2, SNMP V3, TLS 1.1, TLS 1.2, TLS 1.2 with updated cipher suites including AES 256 encryption. Brute Force Delay Protection of 180 s after 5 login attempts, Signed Firmware, Secure Boot by software check
Streaming:	Four streams * fourth & third stream is supported under certain settings

**I/O Interface**

Audio Input/Output:	1 Inputs: line in, or mic in (built-in microphone), 1 Output: line out, mono sound
Alarm Input/Output:	2 inputs, 2 outputs (up to 24 VDC 1 A)
Network Interface:	1x 10, 100 Base T (Ethernet), TX (RJ-45)

**Intelligent Functions**

Motion Detection:	On, Off, Area Setting, Sensitivity
Intrusion Detection:	Enter and loiter in a pre-defined virtual region, up to 4 pre-defined virtual regions supported
Line Crossing:	Cross a pre-defined virtual line, up to 4 pre-defined virtual lines supported
Region Entrance:	Enter a pre-defined virtual region from the outside place
Region Exiting:	Exit from a pre-defined virtual region
Unattended Baggage:	Objects left over in the pre-defined region such as the baggage, purse, dangerous materials

**Intelligent Functions**

Object Removal:	Objects removed from the pre-defined region, such as the exhibits on display
Object Counting:	Entrance and Exit of people number is accounted and shown on screen in real time
Face Detection:	Human face appears in the image can be detected and trigger event action
Tamper Protection:	Detection of scene change, defocus, sudden audio increase/decrease or audio loss.
Event Source:	Video tampering, network disconnected, IP address conflicted, HDD full, HDD error, illegal login, motion detection
Event Source:	A variety of internal or external events can trigger actions such as alarm contacts, motion detection, video analytics parameters etc.
Event Action:	Send E-mail, trigger alarm output, notify surveillance C-WERK, upload to FTP/NAS, trigger SD-card recording and/or image capture.

**Approvals**

Protection Rating:	IP67 (IEC 60529-2013), IK10 (IEC 62262:2002), NEMA 4X (NEMA 250-2018)
Regulation:	CE, FCC, RoHS Compliant
Standard:	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP

**Environmental**

Operating Temperature:	-40 °C ~ 60 °C (-40 °F ~ 140 °F)
Humidity:	Less than 95%, non condensing

**Electrical**

Surge Protection:	TVS 2000V Lightning Protection, Surge Protection and Voltage Transient Protection
Supply Voltage:	12 VDC, 24 VAC, PoE (IEEE 802.3af)
Power Consumption:	Max. 12,9 W

**Mechanical**

Mount:	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°, 3-Axis Adjustment
Dimensions:	Ø 162 x 142 mm (Ø6.4 x 5.5 inch)
Weight:	1450 g (3.2 lb)

**Packaging**

Package Dimensions:	251 x 215 x 189 mm (9.9 x 8.5 x 7.4 inch)
Package Weight:	2100 g (4.6 lbs)
Packaging Unit:	6
Bulk Package Dimensions:	587 x 447 x 270 mm (23.1 x 17.6 x 10.6 inch)
Bulk Package Weight:	13100 g (28.9 lbs)

**Accessories**

GD-CW-VIEWER



GD-CW-FINDER



GD-SW-SCMS



GD-HW-SD-128GB



GD-HW-SD-256GB



GD-BR-AMW01AC



GD-BR-AMC01AC



GD-BR-AMP10AC



GD-BR-AML03AC

## Dimensions

