



Type: Bullet - Thermal Imaging - Camera

Item Code: GD-TI-AT3510T

EAN CODE:

PREMIUM

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

Highlights

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 - behavior analysis based on deep learning algorithm like line crossing, region entrance & exit , intrusion
- Audio Communication & Alarm Input / Output
- PoE 802.3af
- Dual Streaming with 1 infrared channel and 1 optical channel
- WDR (Wide Dynamic Range) for extreme backlight situations
- Picture in Picture - Partial image of infrared channel on the full image of optical channel

Specifications GD-TI-AT3510T

Thermal module

Thermal Sensor:	Vanadium Oxide Uncooled Focal Plane Array
Resolution (Thermal):	640 x 512
IFOV:	1.2 mrad
NETD:	< 20 mk (@25° C, F=1.0)
Detector Pitch:	12 µm
Focal Length (IR):	10 mm
Viewing Angle (IR):	45.1° x 35.7° (HxV)
MOD (Min. Object Distance):	1.5 m

Camera

Image Sensor:	1/2.7" progressive Scan CMOS
Video Resolution:	2688 x 1520
Sensitivity Colour:	0.0089Lux @ F1.6 (AGC ON)
Shutter Speed:	1 ~ 1/100,000 s

Lens

Lens Focal Length:	4.3 mm
Field of View:	83.7° ~ 43° (H x V)

Illuminator

Max. IR Distance:	Up to 30 m
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Video

Wide Dynamic Range:	120 dB
Day/Night Switch:	Color, BW, Auto

Audio

Audio Compression:	G722.1/G711ulaw/G711alaw/G726/MP2L2/PCM
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General

Measurement option:	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)
Object Temperature Range:	- 20°C to 150°C
Accuracy:	± 8°C
DRI Range:	Detection Range, Vehicles 1.4 m x 4.0 m: 1278 m Detection Range, Humans 1.8 m x 0.5 m: 417 m Recognition Range, Vehicles 1.4 m x 4.0 m: 319 m Recognition Range, Humans 1.8 m x 0.5 m: 104 m Identification Range, Vehicles 1.4 m x 4.0 m: 160 m Identification Range, Humans 1.8 m x 0.5 m: 52 m

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.

Smart Function Range:	VCA Range, Vehicles 1.4 m x 4.0 m: 300 m VCA Range, Humans 1.8 m x 0.5 m: 130 m Temperature Measurement, Object 0.2 x 0.2 m: 29 m Temperature Measurement, Object 0.5 x 0.5 m: 72 m Fire Detection, Object 0.2 x 0.2 m: 116 m
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Frame Rate

Main Stream:	Thermal: 25 fps (1280 × 720, 704 × 576, 640 × 512, 352 × 288) Optical: 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub- Stream:	Thermal: 25 fps (704 × 576, 640 × 512, 384 × 288) Optical: 50 Hz: 25 fps (704 × 576, 352 × 288) 60 Hz: 30 fps (704 × 480, 352 × 240)

Network

Video Compression:	H.264, H.265, MJPEG
SD Memory:	Micro SD/SDHC/SDXC card slot with ANR (up to 512G), NAS (Support NFS, SMB/CIFS)
Client software:	C-WERK Viewer, SCMS, IOS App, Android App (SCMS)
Network Protocol:	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SFTP, SNMP, SRTP
Cyber Security:	3 levels of user management: admin, operator, user, AES Encryption for Password Protection, Complicated Password, 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, Signed Firmware, Secure Boot by software check

I/O Interface

Audio Input/Output:	1-ch audio input and 1-ch audio output
Alarm Input/Output:	2, 2
Network Interface:	1x 10, 100 Base T, TX PoE+ (RJ-45)
Serial Interface(s):	1x RS-485

Intelligent Functions

Intrusion Detection:	Enter and loiter in a pre-defined virtual region
Line Crossing:	Cross a pre-defined virtual line
Region Entrance:	Enter a pre-defined virtual region from the outside place
Region Exiting:	Exit from a pre-defined virtual region
Event Source:	Video tampering, network disconnected, IP address conflicted, HDD full, HDD error, illegal login, motion detection
Event Action:	Recording: Pre-event, post-event memory card and/or network storage. Picture upload: FTP, HTTP and NAS. Trigger E-mail notification: HTTP, ISAPI. Alarm output and notification to C-WERK VMS. Events are depending on schedule settings.

Approvals

Protection Rating:	IP67 (IEC 60529-2013), IK10 (IEC 62262:2002), NEMA 4X (NEMA 250-2018)
Standard:	ONVIF (Profile S, Profile G, Profile T, Profile M), SDK/API

Environmental

Operating Temperature:	-40 °C ~ 70 °C (-40 °F ~ 158 °F)
Humidity:	Less than 95%, non condensing

Electrical

Surge Protection:	TVS 4000V Lightning Protection, Surge Protection and Voltage Transient Protection
Supply Voltage:	12 VDC, 24 VAC, PoE (IEEE 802.3af)
Power Consumption:	Max. 13.5 W

Mechanical

Dimensions:	376,1 x 119,1 x 118,1 mm (14,81 x 4,69 x 4,65 inch)
Weight:	1890 g (4.17 lb)

Accessories



GD-CW-VIEWER



GD-CW-FINDER



GD-SW-SCMS



GD-HW-SD-128GB



GD-HW-SD-256GB



GD-BR-AMC03



GD-BR-AML01



GD-BR-AML01AC

Guarantee

All cameras in the "SMART", "PRO" and "PREMIUM" product lines have an extended warranty period of 5 years on electronic parts, mechanical wear and tear on moving parts is not included. Please note our general delivery terms and conditions.