



Type: Positioning System - Thermal Imaging - Camera

Item Code: GD-TI-AT30155K

EAN CODE: 4260573063185

PREMIUM

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

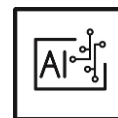
Highlights

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.

Deep Learning



Deep Learning is inspired by the complex structure of the human brain. This innovative method allows processing of information and performing corresponding actions based on analysis.

Features

- Deep Learning - Human and Vehicle Analysis: Self learning human and vehicle classification improves unwanted alarm filtering
- Includes Wiper for front glass
- Smart dual-band camera is based on the latest fifth-generation uncooled infrared technology and high-definition visible light imaging technology, designed for remote day and night monitoring, 24/7 operation
- Dual Streaming with 1 infrared channel and 1 optical channel
- Rugged Metal Design
- Detection: Vehicle 13,000m Human 5,200m Recognition: Vehicle 3,400m Human 1,300m

Specifications GD-TI-AT30155K

Thermal module

Thermal Sensor:	Vanadium Oxide Uncooled Focal Plane Array
Resolution (Thermal):	640 x 512
Frame Rate (TH):	25 fps
IFOV:	0.11 ~ 0.55 mrad
NETD:	< 40 mk (@25° C, F=1.0)
Response Waveband:	7.5 μm to 14 μm
Detector Pitch:	17 μm
Focal Length (IR):	31 ~ 155 mm motorized, 5x continuous zoom
Viewing Angle (IR):	20° x 15° ~ 4° x 3° (HxV)
Lens Control (IR):	- Electric zoom - manual / auto focus, 3A adaptive active focus algorithm, support multiple trigger modes, precise high speed - Optical machine: 3CAM mode and AS+DOE optical machine structure, high infrared transmittance, no virtual focus and high optical axis stability in the zoom process

Image Processing

Image enhancement (IR):	SDE digital image enhancement technology to enhance image details
Pseudo-color polarity:	16 kinds of pseudo-color images, hot black / hot white two polarities
Image parameters:	AGC automatic gain control, brightness, contrast, Pseudo-color polarity: black hot/white hot, Electronic zoom: 2x, 4x, 8x
Electronic zoom:	2x, 4x, synchronous full screen display
NUC correction:	Automatic / manual correction, background correction

Camera

Image Sensor:	1/1.8" progressive Scan CMOS
Video Resolution:	1920 x 1080
Sensitivity Colour:	0.001 Lux @ F1.6 (AGC ON)
Sensitivity B/W:	0.0002 Lux
White Balance:	Auto, manual, indoor, outdoor, Fluorescent lamp, Incandescent lamp, Natural light

Lens

Lens Focal Length:	8 ~ 500 mm motorized, autofocus
Iris F-Number:	F1.6
Lens Drive Type:	Auto Iris (DC)
Focus Adjustment:	Auto, Manual, Semi-automatic

Video

Col/B&W:	Auto, IR-cut filter removable (ICR)
Wide Dynamic Range:	120 dB
Image Enhancement:	BLC, 3D DNR, Defog, EIS, HLC
Day/Night Switch:	Support auto, scheduled

General

Fire Detection:	Supported
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Frame Rate

Main Stream:	Thermal: 30 fps (640 × 512) Optical: 30 fps (1920 × 1080)
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Network

Video Compression:	H.264, H.265
Bit Rate:	32Kbps ~ 16Mbps, adjustable
SD Memory:	Built-in Micro SD, SDHC, SDXC slot
Client software:	C-WERK-Viewer
Network Protocol:	TCP/IP, HTTP, RTP, RTSP, UDP, IPv4/IPv6, NFS
Streaming:	Two Streams, setting of image resolution, frame rate and data flow

Pan Tilt Zoom

Number of Patrols:	6 cruises, 1 apple peel, 1 line sweep
Number of Preset:	5000
Pan Speed:	Configurable from 0.01°/sec to 30°/sec
Tilt Speed:	Configurable from 0.1°/sec to 15°/sec
Range Panning:	360° endless
Range Tilting:	-45° ~ +45°, -20° ~ +60° optional
Proportional Zoom:	Rotation speed can be adjusted automatically according to zoom multiples
Tracking Functions:	Manual Tracking, Auto Tracking

I/O Interface

Network Interface:	1x 10, 100 Base T (Ethernet), TX (RJ-45)
Serial Interface(s):	1x RS-422, 1x RS-485
Pan/Tilt Control:	Pan (Left, Right) , Tilt (Up, Down)

Intelligent Functions

Motion Detection:	On, Off, Area Setting
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
Unattended Baggage:	Objects left over in the pre-defined region such as the baggage, purse, dangerous materials
Loitering:	People stay in a previously defined area for longer than the preset time
Object Removal:	Objects removed from the pre-defined region, such as the exhibits on display
Face Detection:	Human face appears in the image can be detected and trigger event action

Approvals

Protection Rating:	IP66 (IEC 60529-2013)
Regulation:	CE, FCC, RoHS Compliant
Standard:	ONVIF (Profile S), SDK/API

Environmental

Operating Temperature:	-35 °C ~ 60 °C (-31 °F ~ 140 °F)
Humidity:	Less than 90%, non condensing

Electrical

Supply Voltage:	230VAC/24VDC power adapter included
Power Consumption:	100 W

Mechanical

Dimensions:	590 x 620 x 340 mm (23 x 24.4 x 13.4")
Weight:	35000 g (77 lb)

Options

Wiper:	Built-in front glass motorized Wiper
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Accessories



GD-HW-SD-128GB



GD-HW-SD-256GB



GD-KB-AP1420P

Dimensions

