

DH-TPC-SD5300

Thermal Network Speed Dome Camera

www.PadVokam.by



- 336x256 VOx uncooled thermal sensor technology
- Athermalized Lens (thermal), Focus-free
- Support Fire detection & alarm
- Max 240°/s pan speed, 360° endless pan rotation
- Up to 300 presets, 5 auto scan, 8 tour, 5 pattern
- 2/1 alarm in/out
- Micro SD memory, IP66, PoE+



System Overview

Featuring a fixed lens speed dome camera, this series provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with Thermal technology, the camera's long range capabilities are able to be utilized even at night.

Functions

Uncooled Vox Technology

Dahua thermal cameras use uncooled Vox sensor technology. Their small size and better performance make them a cost-effective solution for thermal security

High Sensitivity

High thermal sensitivity (<40mK) allows cameras to capture more image details and temperature difference information.

Fire Detection & Alarm

With built-in fire detection functionality, the camera has the ability to detect fires from long range. Because thermal cameras are sensitive to temperature, they provide higher fire detection accuracy than standard cameras, making them particularly fit for applications such as forest fire prevention.

Intelligent Video System (IVS)

IVS is a built-in video analytics algorithm that delivers intelligent functions to monitor a scene for tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Environmental

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for ±15% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6 kV lightning rating provides effective protection for both the camera and its structure against lightning.

Technical Specification

Thermal Camera

Image Sensor	Uncooled VOx Microbolometer
Effective Pixels	336(H)x256(V)
Pixel Size	17um
Thermal Sensitivity(NETD)	<40mK@f/1.0
Spectral Range	7~14um
Image Setting	Brightness/Sharpness/ROI/AGC/FFC/3D DNR
Color Palettes	14(Whitehot/Blackhot/Ironrow/Icefire/ Fusion/Rainbow/Globow/Icnbow1/ Icnbow2 .etc)

Thermal Lens

Lens Type	Fixed	
Focus Control	Athermalized, Focus-free	
Focal Length	13mm	19mm
Angle of View	H: 25° V: 19°	H: 17° V: 13°
Effective Distance ^① Man(1.8m*0.5m)	D ^② : 450m R ^③ : 110m I ^④ : 60m	D: 640m R: 160m I: 80m
Effective Distance Vehicle(2.3m*2.3m)	D: 1300m R: 350m I: 180m	D: 2000m R: 500m I: 250m

PTZ

Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°
Manual Control Speed	Pan: 0.1° ~ 200° /s; Tilt: 0.1° ~ 120° /s
Preset Speed	Pan: 0.1° ~ 240° /s ; Tilt: 0.1° ~ 120° /s
Preset	300
PTZ Mode	5 Auto Scan, 8 Tour, 5 Pattern, Auto Pan
Speed Setup	Human-oriented focal length/speed adaptation
Power Up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset/Scan/Tour/Pattern if there is no command in the specified period
Protocol	DH-SD, Pelco-P/D (Auto recognition)

Video

Compression	H.264/MJPEG
Frame Rate	Main Stream: 1280*1024 (default)/720P @1 ~ 25/30fps Sub Stream: 640*512 (default)/320*256 @1 ~ 25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 640 ~ 8192Kbps

Motion Detetion	Off/On (4 zone, Rectangle)
Region of Interest	Off/On (4 zone)
Electronic Image Stabilization (EIS)	NA
Digital Zoom	16x
Flip	180°
Mirror	Off/On
Privacy Masking	Off/On (4 area, Rectangle)

Audio

Compression	G.711a/G.711Mu/AAC
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Intelligence

IVS	Tripwire, Intrusion, Object Abandon/Missing
Advanced Intelligent Functions	Fire detection & alarm, Auto Tracking
Tracking Trigger Mode	Manual/Auto (alarm triggered)
Tracking Trigger Event	Targeting, Zoom, Tracking, Recording, Snapshot, Alarm and etc.

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF Profile S & G, PSIA, CGI
Streaming Method	Unicast/Multicast
Max. User Access	10 Users/20 Users
Edge Storage	micro SD (128GB) Memory status display (Normal/Error/Active/Formatting/Lock), NAS (Network Attached Storage), Local PC for instant recording
Web Viewer	<IE11, <Chrome45, <Firefox52
Management Software	Smart PSS, DSS
Smart Phone	Android, ios

Certifications

Certification	CE (EN 60950:2000) FCC (FCC Part 15 SubpartB)
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Interface

Video Interface	1.0Vp-p/75Ω, PAL/NTSC (HDCVI Optional)
Audio Interface	Input/Output 1/1
RS485	Support
Alarm	2/1 In/Out

Electrical

Power Supply	24V AC/PoE+
Power Consumption	Max. 17W
Environmental	
Operating Condition	-40°C ~ +60°C (-40°F ~ +140°F)/Less than 95% RH * Start up should be done at above -40°C (-40°F)
Storage Conditions	-40°C ~ +70°C (-40°F ~ +158°F)/Less than 95% RH
Ingress Protection	IP66

Construction

Casing	Metal
Dimensions	Φ186mm x 491mm (Φ7.32" x 13.71")
Net Weight	3.5Kg (7.72 lb)
Gross Weight	5.9Kg (13 lb)

Note:

- ① Effective distance values shown are nominal values and should be used as estimates only. Exact value calculations depend on a wide variety of conditions.
 ② D: Detection Distance
 ③ R: Recognition Distance
 ④ I: Identification Distance

Ordering Information

Type	Part Number	Description
DH-TPC-SD5300	DH-TPC-SD5300P-A13 DH-TPC-SD5300N-A13	Thermal: 336x256 13mm lens
	DH-TPC-SD5300P-A19 DH-TPC-SD5300N-A19	Thermal: 336x256 19mm lens

Accessories

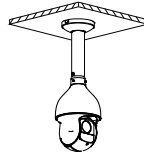
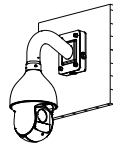
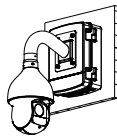
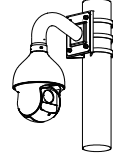
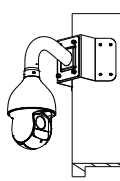
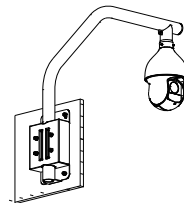
Included:

PFB300S
Wall MountPFA110
Mount AdapterAC24V
Power Supply

Optional:

PFA140
Power boxPFB300C
Ceiling MountPFA120
Junction BoxPFA150
Pole MountPFA151
Corner MountPFB303S
Parapet Mount

Mounting Type

Ceiling Mount	Junction Mount
PFA110 + PFB300C	PFA110 + PFB300S + PFA120
	
Power Box Mount	Pole Mount
PFA110 + PFB300S + PFA140	PFA110 + PFB300S + PFA150
	
Corner Mount	Parapet Mount
PFA110 + PFB300S + PFA151	PFA110 + PFB303S
	

Dimensions(mm)

