DH-TPC-SD5300

Thermal Network Dome Camera

- 336*256 VOx uncooled thermal sensor technology
- Athermalized Lens(thermal),Focus-free
- Support Fire detect&alarm
- Max 300°/s pan speed, 360° endless pan rotation
- Up to 255 presets, 5 auto scan, 8 tour, 5 pattern
- 2/1 alarm in/out
- Micro SD memory, IP66,POE+

Pro Series | **40mK** | **Fire Detect** | **Analysis** | **AC24V** | **IP66**

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 is the perfect solution for dark, long rang monitoring applications.

Functions

Uncooled Vox Technology
Dahua thermal cameras use uncooled Vox sensor technology . Because of small size and better performance, it's cost-effective solution for thermal security.

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

Fire Detect&Alarm
With built-in Fire detect function, the camera has the ability to detect fire in a long distance. because thermal camera is sensitive to temperature, so the accuracy of Fire detect will be higher than visible camera. especially useful for forest fire prevention.

Intelligent Video System (IVS)
With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed.

Auto-tracking
The camera supports auto-tracking. The tracking action can be triggered manually or automatically by defined rules. Once rules are 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. For enviorments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Protection
Supporting ±25% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of 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/DDE/AGC/FFC/3D DNR
Color Palettes	14(Whitehot/Blackhot/Ironrow/Icefire/Fusion/Rainbow/Globow/Iconbow1/Iconbow2 .etc)

Thermal Lens

Lens Type	Fixed	
Focus Control	Athermalized,Focus-free	
Focal Length	13mm	19mm
Angle of View	25°* 19 °	17°* 13 °
Effective Distance① Man(1.8m*0.5m)	D②:450m R③:110m I④:60m	D:600m R:150m I :80m
Effective Distance Vehicle(2.3m*2.3m)	D:1300m R:350m I :180m	D:1800m R:450m I :220m

PTZ

Pan/Tilt Range	Pan: 0° ~ 360° endless;Tilt:-20° ~ 90°
Manual Control Speed	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s
Preset Speed	Pan: 0.1° ~240° /s ;Tilt: 0.1° ~200° /s
Preset	255
PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan
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(Base profile/Main profile/High profile)/MJPEG
Frame Rate	Main Stream: 1280*1024 (default)/ 720P @30fps
	Sub Stream: Thermal: 640*512 (default)/ 320*256 @15fps
Bit Rate Control	CBR / VBR
Bit Rate	H.264: 640K ~8Mbps

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

Intelligent Function

Auto Tracking	Support
IVS (optional)	Tripwire, Intrusion, Object Detection(People&Vehicle), Abandon detection, Missing detection, Fire detect& alarm .etc.
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 PSIA CGI
Streaming method	Unicast / Multicast
Max. User Access	20
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, <Chrome44, Firefox
Management Software	Smart PSS, DSS
Smart Phone	Android, Ios

Certifications

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

Intelface

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

Electrical

Power Supply	24V AC ±25%/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)
Strorage 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
③ R: Recognition
④ I : Identification

Ordering Information

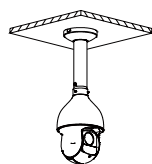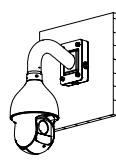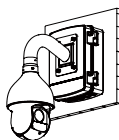| Type	Part Number	Description
DH-TPC-SD5300	DH-TPC-SD5300P-A13 DH-TPC-SD5300N-A13	Thermal:336*256 13mm lens
	DH-TPC-SD5300P-A19 DH-TPC-SD5300N-A19	Thermal:336*256 19mm lens

Accessories
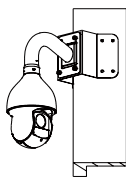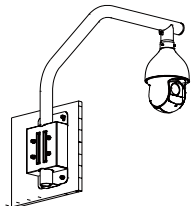
Included:

PFB300S Wall Mount	PFA110 Mount Adapter	AC24V/3A Power Supply

Optional :

PFA140 Power box	PFB300C Ceiling Mount	PFA120 Junction Box
PFA150 Pole Mount	PFA151 Corner Mount	PFB303S 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)