

DH-TPC-PT8320M

Thermal Mobile Hybrid PTZ



- · 336*256 VOx uncooled thermal sensor technology
- · Athermalized Lens(thermal), Focus-free
- · 1/1.9" 2Megapixel progressive scan Exmor CMOS
- · Powerful 30x optical zoom
- · Support Fire detect&alarm
- · 2/2 alarm in/out
- · Micro SD memory, IP66













System Overview

Featuring a dual lens, Pan/Tilt/Zoom(PTZ) camera, this series provides an all-in-one solution for capturing long distance video surveillance for mobile monitoring applications. Together with Thermal and Starlight Technology, the camera is the perfect solution for dark, long rang monitoring applications. The series combines one thermal camera for monitoring in total darkness and one visible camera with starlight feature and motorized lens for confirming details.

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 +70 °C (-40 °F to +158 °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 environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Protection

Supporting wide range voltage input(DC9V~DC36V), this camera suits even the most unstable conditions for mobile applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of lightning.



Pan/Tilt Range

Manual Control Speed



Technical Specification					Preset Speed	Pan: 0.1° ~90° /s ;Tilt: 0.1° ~60° /s
Thermal Camera					Preset	300
Image Sensor	Uncooled V	Uncooled VOx Microbolometer			PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan
Effective Pixels	336(H)x256	336(H)x256(V)			Speed Setup	Human-oriented focal length/ speed adaptation
Pixel Size	17um				Power up Action	Auto restore to previous PTZ and lens status
Thermal Sensitivity(NETD)	<40mK@f/	<40mK@f/1.0				after power failure
Spectral Range	7~14um	7~14um			Idle Motion	Activate Preset/Scan/Tour/Pattern if there is no command in the specified period
Image Setting	Brightness/	Brightness/Sharpness/ROI/DDE/AGC/FFC/3D DNR			Protocol	DH-SD, Pelco-P/D (Auto recognition)
Color Palettes	Fusion/Rair	14(Whitehot/Blackhot/Ironrow/Icefire/ Fusion/Rainbow/Globow/Iconbow1/ Iconbow2 .etc)			Video	
Thermal Lens					Compression	H.264(Base profile/Main profile/High profile)/ MJPEG
Lens Type	Fixed					Main Stream:
Focus Control	Athermalize	ed,Focus-free			Frame Rate	Thermal: 1280*1024 (default)/ 720P @30fps Visible: 1080P (default)/720P@30fps
Focal Length	19mm	25mm	35mm	50mm		Sub Stream: Thermal: 640*512 (default)/ 320*256 @15fps Visible: CIF(default)/D1@15fps
Angle of View	17°* 13 °	13°* 10°	9.3°* 7.1 °	6.5°* 5.5 °	Bit Rate Control	CBR / VBR
Effective Distance ① Man(1.8m*0.5m)	D②:600m R③: 150m	D:820m R:210m	D:1150m R:280m	D:1500m R: 400m	Bit Rate	H.264: 1280K ~14Mbps
an(IIII Gibin)	I ④: 70m	I : 100m	I: 140m	I : 200m	Day/Night	Auto(ICR) / Color / B/W
Effective Distance Vehicle(2.3m*2.3m)	D:1500m R:400m I : 200m	D:2200m R: 600m I : 300m	D:3000m R: 800m I : 400m	D:4000m R: 1000m I:550m	BLC Mode	BLC / HLC / WDR(120dB)
	1.200111	1.300111	1.400111	1.33011	White Balance	Auto, ATW,Indoor, Outdoor, Manual
	sible Camera			Noise Reduction	Ultral DNR	
Image Sensor		1/1.9" Exmor CMOS			Motion Detetion	Off / On (4 zone, Rectangle)
Effective Pixels		1944(H) x 1092(V), 2 Megapixels			Region of Interest	Off/On (4 zone)
Electronic Shutter Speed Min. Illumination		1/1 ~ 1/30,000s			Electronic Image Stabilization (EIS)	NA
S/N Ratio	More than	Color: 0.001Lux@F1.5; B/W: 0.0001Lux@F1.5;			Defog	Off/On
IR Distance	150m	Joub			Digital Zoom	16x
IR On/Off Control	Auto/Manu	ıal			Flip	180°
IR LEDs	4	iai			Mirror	Off/On
Visible Lens	7				Privacy Masking	Off / On (4 area, Rectangle)
Focal Length	6mm~180n	nm			Audio	
Max Aperture		6mm~180mm			Compression	G.711a/G.711Mu/AAC
wax Aperture	11.5 14.5	F1.5 ~ F4.3			Intelligent Function	
Angle of View	H: 61.2° ~ 2.32°			Auto Tracking	Support	
Optical Zoom	30x	30x				Tripwire, Intrusion, Object
Focus Control	Auto / Man	Auto / Manual			IVS (optional)	Detection(People&Vehicle), Abandon detection, Missing detection, Fire detect& alarm .etc.
Close Focus Distance	100mm~ 10	100mm~ 1000mm (328ft~3280ft)			Tracking Trigger Mode	Manual / Auto (alarm triggered)
PTZ				Tracking Trigger Event	Targeting, Zoom, Tracking, Recording, Snapshot, Alarm and etc.	

Pan: 0° ~ 360° endless;Tilt:-90° ~ 90°

Pan: 0.1° ~60° /s; Tilt: 0.1° ~45° /s



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<="" td=""></ie11,>
Management Software	Smart PSS, DSS
Smart Phone	Android, los

Certifications

Interface

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

Electrical

Power Supply	DC12V/5A (DC9V~36V Wide range input)
Power Consumption	Max. 50W (IR on,Heater on)

Environmental

Operating Condition	-40°C $^{\sim}$ +70°C (-40°F $^{\sim}$ +158°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	341 mm × 262mm× 275mm (13.42" x 10.31" x 10.82") (With bracket)
Net Weight	7.5Kg (16.53 lb)
Gross Weight	11Kg(24.25 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.
- 2D:Detection
 3R: Recognition
 4I: Identification

Ordering Information				
Туре	Part Number	Description		
DH-TPC- PT8320M	DH-TPC-PT8320MP-A19 DH-TPC-PT8320MN-A19	Thermal:336*256 19mm lens Visible:2Mp 30X		
	DH-TPC-PT8320MP-A25 DH-TPC-PT8320MN-A25	Thermal:336*256 25mm lens Visible:2Mp 30X		
	DH-TPC-PT8320MP-A35 DH-TPC-PT8320MN-A35	Thermal:336*256 35mm lens Visible:2Mp 30X		
	DH-TPC-PT8320MP-A50 DH-TPC-PT8320MN-A50	Thermal:336*256 50mm lens Visible:2Mp 30X		

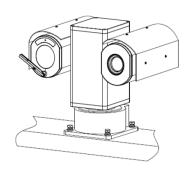
Accessories

Included:



DC12V/5A **Power Supply**

Mounting Type



Dimensions (mm)

