

HYB-TERM-PT-2MP-IR



Technical Specification

Thermal Camera	
Image Sensor	Uncooled VOx Microbolometer
Effective Pixels	640(H)x512(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/iconbow1/iconbow2_etc)

Thermal Lens	
Lens Type	Fixed
Focus Control	Athermalized, Focus-free
Focal Length	19mm 25mm 35mm 50mm
Angle of View	H:32°, V:26° H:25°, V:20° H:18°, V:14° H:12.4°, V:9.9°
Effective Distance ^① Man(1.8m*0.5m)	D:2:640m R:3:160m I:4:80m D:1000m R:250m I:125m D:1300m R:320m I:160m D:1700m R:430m I:220m
Effective Distance Vehicle(2.3m*2.3m)	D:2000m R:500m I:250m D:3000m R:720m I:360m D:4000m R:1000m I:500m D:5000m R:1400m I:700m

Visible Camera	
Image Sensor	1/1.9" Sony CMOS
Effective Pixels	1944(H)x1092(V)
Electronic Shutter Speed	1/1 ~ 1/30,000s

Manual Control Speed	Pan: 0.1° ~60° /s; Tilt: 0.1° ~45° /s
Preset Speed	Pan: 0.1° ~90° /s;Tilt: 0.1° ~60° /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: Thermal: 1280x1024(default) / 720P @1~25/30fps Visible: 1080P(default) /720P @1~25/30fps Sub Stream: Thermal: 640x512(default) / 320x256 @1~25/30fps Visible: CIF(default) / D1 @1~25/30fps
Bit Rate Control	CBR / VBR
Bit Rate	H.264: 640 ~8192Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR
White Balance	Auto / ATW / Indoor / Outdoor / Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 zone, Rectangle)
Region of Interest	Off / On (4 zone)

Min. Illumination	0.001Lux@F1.5(Color), 0.0001Lux@F1.5(B/W)
S/N Ratio	More than 55dB
IR Distance	150m (492ft)
IR On/Off Control	Auto / Manual
IR LEDs	4

Visible Lens

Focal Length	4.3 ~ 180mm
Max Aperture	F1.5 ~ F4.3
Angle of View	H: 59° ~ 2.4°
Optical Zoom	30x
Focus Control	Auto / Manual
Close Focus Distance	100mm ~ 1000mm (0.33ft~3.28ft)

PTZ

Pan/Tilt Range	Pan: 0° ~ 360° endless;Tilt: -90° ~ 90°
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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, HD-SDI Optional)
Audio Interface	1/1 In/Out
RS485	Support
Alarm	2/2 In/Out

Electrical

Power Supply	9 ~ 36V DC
Power Consumption	Max. 50W (IR on)

Environmental

Operating Condition	-40°C ~ +70°C (-40°F ~ +158°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	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)

Electronic Image Stabilization (EIS)	NA
Defog	Off / On
Digital Zoom	24x
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 Abandoned/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.

Ordering Information

Type	Part Number	Description
DH-TPC-PT8620M	DH-TPC-PT8620MP-A19 DH-TPC-PT8620MN-A19	Thermal: 640x512 19mm lens Visible: 2MP 30X
	DH-TPC-PT8620MP-A25 DH-TPC-PT8620MN-A25	Thermal: 640x512 25mm lens Visible: 2MP 30X
	DH-TPC-PT8620MP-A35 DH-TPC-PT8620MN-A35	Thermal: 640x512 35mm lens Visible: 2MP 30X
	DH-TPC-PT8620MP-A50 DH-TPC-PT8620MN-A50	Thermal: 640x512 50mm lens Visible: 2MP 30X