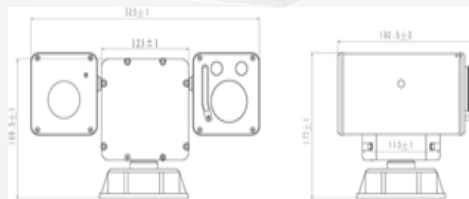


# AT-TSD41

## Bi-spectrum Thermal Mini PTZ

### Feature

- Uncooled Microbolometer sensor with 400(H)x300(V)
- On-board temp-detection algorithm
- NETD Sensitivity  $\leq 40\text{mK}$
- 8 mm motorized lens(15/25mm optional)
- Support 3 temperature measurement rule types (Spot, Line, Area)
- 17 color control
- DVE image enhance
- Reliable temperature-abnormal alarm
- Anti-frozen, IP66



Thermal Lens	Thermal Sensor	Uncooled IRFPA Microbolometer
	Effective Pixel	400(H) X 300(V)
	Pixel size	17 $\mu\text{m}$
	NETD	40mK@F1.0,300K
	Detection Range	8mm: 235(a)/235(b)/722(c)m 15mm: 441(a)/441(b)/1353(c)m 25mm: 735(a)/735(b)/2255(c)m
	Fires 1,1m (a) Humans 1.8,0.5m (b) Vehicles 4,1.5m (c)	
	Focal Length	8mm(15/25mm Optional)
View Angle	8mm H46° xV35°, 15mm H25° xV19°, 25mm H15° xV11°	
F Number	F1.0	
Optical lens	Optical sensor	1/2.8" Sony CMOS
	Resolution	2048(H) X 1536(V)
	Focal length	4.5~135mm
	Optical zoom	30X
	View angle	H 59.8° ~ 23°
	Aperture	F3.1 ~ F6.1
	Shutter speed	1/5 ~ 1/20,000s
Min illumination	Color : 0.01 Lux(F1.5) ; B/W : 0 Lux(F1.5),	
Focus type	Auto /Manual /Semi-Auto /One push button	
Pan / Tilt	Pan/tilt range	Pan : 0°~360° ; Tilt : 90°~ -90°
	Pan/tilt speed	Pan : 0.1°~30°/s ; Tilt : 0.01°~10°/s
	Preset point	400
	Preset accuracy	$\pm 0.1^\circ$
	PTZ Mode	8 Auto Scan, 12 Tour, 6 Track
	Speed Setup	Auto/Manual (0-8)
Protocol	Pelco P / D	
Temperature Measurement	Temperature Detection	3 temperature measurement rule types (20 spots, 2 lines, 16 areas)
	Temperature Alarm	Over temperature alarm, Temperature difference alarm
	Accuracy	$\pm 2^\circ\text{C} / \pm 2\%$
	Response Time	<30ms
	Theory of temperature measurement range	-40° C~150° C
Video & Audio	Frame Rate	Mainstream: Thermal: D1 @25/30fps ; Visible: 1920,1080/1280,720 @25/30fps Sub Stream: Thermal: CIF @25/30fps ; Visible: D1/VGA/640,360/CIF/QCIF/QVGA @25/30fps
	Privacy masking	5 areas
	Bit Rate	Thermal: 100Kbps~6Mbps Visible: mainstream: 500Kbps~12Mbps, sub stream: 100Kbps~6Kbps
	Region of Interest	Off/On (8 Zone, Rectangle)
	Privacy Masking	Off/On (5 Area, Rectangle)
	Defog	Support
	Intelligent video	Perimeter, Single Virtual Fences, Double Virtual Fences, Object Left, Object Removed
	DVE Image Enhance	Support
Network	Network protocol	IPv4/IPv6、HTTP、HTTPS、RTSP/RTP/RTCP、TCP/UDP、DHCP、DNS、PPPOE、SMTP、SIP、802.1x、DDNS、PPPoE、FTP、SNMP、QOS
	Max on-line users	10
	Interoperability	Onvif, CGI, SDK
	Browsers	Linux C /windows/ C&C++、Android, IOS
	IP filter	Support
	Streaming Method	Unicast
Interface	Ethernet	RJ45 10/ 100
	Alarm	1 alarm output
	RS485	Support
	BNC output	Support
	SD slot	Micro SD (Max support up to 128GB)
	Reset Button	Support
General	Power	DC24V
	Power consumption	< 48W
	Working Temperature	-40° C~60° C (-40° F~140° F) ; Humidity: 0~ 90% RH
	Storage	0 ~ 90% RH
	Certificate	CE/FCC
	Ingress Protection	IP66
	Dimensions	323X 192X 177mm (L x W x H)
	Net Weight	6Kg