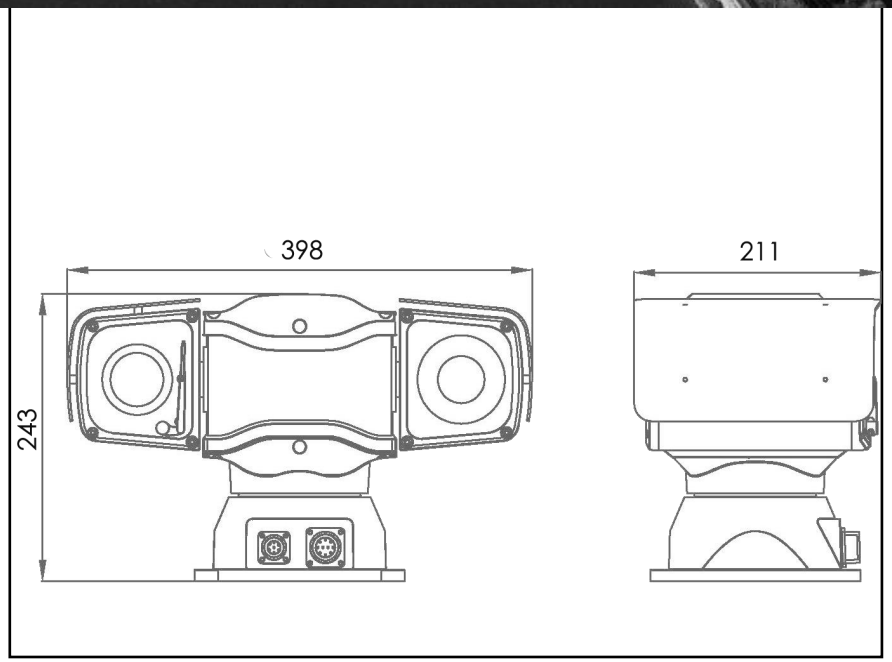
Y Series

Mobile Dual Spectrum PTZ System



Product Features

- High image quality: 12μm thermal sensor, 4MP 1/2.8” CMOS visible sensor;
- Powerful behavior analysis algorithm: Line crossing, intrusion, region entry & exit;
- Advanced AI algorithm: Multiple targets types detection and tracking;
- Excellent image enhancement: AGC, NUC, IDE, HDR, DNR;
- Rugged PTZ: Aluminium alloy material, waterproof aviation interface, anti-salt spray;
- Superior environmental adaptability: Applicable for extreme weather, including darkness, rain, fog, smog and etc.;
- Complete customizability: Laser range finder, laser illuminator, radar in option.



Specifications

Dual Spectrum High Speed PTZ Camera

ThermTec

Thermal Module		Y3		Y6	
Resolution/Pixel pitch		384x288/12μm		640x512/12μm	
Spectral range		8-14μm			
NETD		≤50mK			
Focal Length		50mm	75mm	100mm	25-75mm
FOV	YS3	5.3x4.0	3.5x2.6	2.6x2.0	10.5x7.9~3.5X2.6
	YS6	8.8x6.6	5.9x4.7	4.4x3.5	17.5x14~5.9X4.7
F Number		F1.0			
Optical Zoom		/	/	/	3X
Digital Zoom		1-8x continuous			
Focus Method		Motorized			
Image Sensor		Uncooled FPA			
Color Palette		14 color palettes			

Optical Module		
Focal Length	5.5-180mm	6.5-240mm
FOV	60.5°-2.3°(wide-tele)	70.0°-2.51°(wide-tele)
F-Number	F1.5-F4.0	F1.5-F4.8
Optical Zoom	33X	37X
Digital Zoom	16X	
Focus Method	Motorized	
Image Sensor	1/2.8” CMOS	1/1.8” Progressive Scan CMOS
Resolution	4MP	
Min. Illumination	Color: 0.001 Lux Black: 0.0005 Lux	Color: 0.0005 Lux @(F1.5,AGC ON), Black: 0.0001Lux@(F1.5,AGCON)
Shutter Speed	1/25s ~ 1/100000s	
Optical Defog	Support	

Image Effect	
Thermal image process algorithm	AGC, NUC, IDE, HDR, DNR
Picture in Picture	Support

PTZ	
Pan Range	360° continuous
Tilt Range	180°(-90°~+90°)
Pan Speed	0.1°~30°/s max
Tilt Speed	0.1°~10°/s max
Presets	200
Power Off Memory	Support
Positional Accuracy	±0.1°
Auto Horizontal Scan	Preset patrol / Auto line scanning & etc
Repeatability	±0.1°

Smart Function	
VCA	4 VCA types (motion detection, cross line, intrusion, area entry and exit), max. 10 VCA rules
Temperature Measurement	3 temperature measurement rule types, 30 rules in total (10 points, 10 areas, and 10 lines).
Temperature Range	-20 °C to + 150 °C (-4 °F ~ + 302°F)
Temperature Accuracy	± 8 °C (± 14.4 °F)
Fire Detection	Support
Thermal image smart function	Human, vehicles, vessels, animals detection

Video and Audio	
Main-Stream (Visible)	25fps (2560*1440,1920*1080,1280*720)
Sub-stream (Visible)	25fps (1280*720,768*576,640*480)
Main-Stream (Thermal)	25fps (1280*720,768*576,640*480,384*288,352*288)
Sub-stream (Thermal)	25fps (768*576,640*480,384*288,352*288)
Video Compression	H.265 / H.264
Audio Compression	G.711/G.722.1/G.726

Network	
Protocols	IPv4, HTTP, HTTPS, FTP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, ONVIF
API	SDK, third-party management platform, ONVIF and CGI
Simultaneous Live View	6 users
User/Host level	Up to 10 users, 3 levels: Administrator, Operator, General
Security	Support password protection, bonding MAC ID, IP filtration
Client	Support ThermTec platform, third-party VMS by ONVIF, etc.
Web Browser	Google Kernel Browser, Edge

Interface	
Alarm Input	1ch
Alarm Output	1ch
Audio Input	1ch
Audio Output	1ch
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet interface RS-485 interface

General	
Web Client Language	English
Power Supply	DC 24V/5A
Power Consumption	30W
Work Temperature/Humidity	-20°C~+60°C (-4°F~+140°F), <90%RH
Protection Level	IP66
Dimension	398mmx211mmx243mm
Weight	11.2kg

Optional	
Radar	Optional
Laser Illuminator	Optional
Laser Range Finder	Optional