

The image is a composite. On the left, a large, semi-transparent padlock is overlaid on a background of a city skyline at dusk or dawn, viewed through a camera lens. The padlock is metallic and has a keyhole. The city skyline is in the distance, with a bright sun or moon low on the horizon. The foreground shows a metal railing and a curved structure, possibly part of a camera or a building. The overall color palette is dark and blue-toned.

ThermTec

EL Series

Long Distance Dual Spectrum
PTZ Camera

EL Series

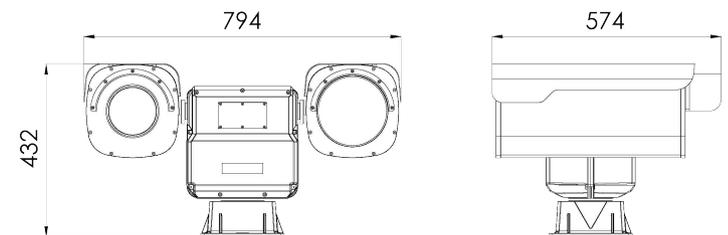
Long Distance Dual Spectrum
PTZ Camera



Product Features

- High image quality: 12μm thermal sensor, 4MP 1/1.8" 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.

Dimension



Thermal Module		EL3		EL6	
Resolution/Pixel pitch		384x288/12μm		640x512/12μm	
Spectral range		8-14μm			
NETD		≤35mK			
Focal Length		30-135mm	30-150mm	30-180mm	25-225mm
FOV	EL3	8.8x6.6 ~ 2.0x1.5	8.8x6.6 ~ 1.8x1.3	8.8x6.6 ~ 1.5x1.1	10.5x7.9 ~ 1.2x0.9
	EL6	14.6x11.7 ~ 3.3x2.6	14.6x11.7 ~ 2.9x2.3	14.6x11.7 ~ 2.4x2.0	17.5x14 ~ 2.0x1.6
F Number		F1.0			
Optical Zoom		4.5X	5X	6X	9X
Digital Zoom		1-8x continuous			
Focus Method		Motorized			
Image Sensor		Uncooled FPA			
Color Palette		14 color palettes			

Optical Module

Focal Length	6.1-317mm, customizable
FOV	65.5°-1.8°(wide- tele)
F-Number	F1.4-F4.7
Optical Zoom	52X
Digital Zoom	16X
Focus Method	Motorized
Image Sensor	1/1.8 inch CMOS
Resolution	4MP
Min. Illumination	Color: 0.0005Lux@(F1.4,AGCON), Black: 0.0001Lux@(F1.4,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	90°(-45°~+45°)
Pan Speed	0.01°~60°/s max
Tilt Speed	0.01°~30°/s max
Presets	200
Power Off Memory	Support
Positional Accuracy	±0.01°
Auto Horizontal Scan	Preset patrol / Auto line scanning & etc
Repeatability	±0.01°
Actuation	Stepper motor

Smart Function

VCA	4 VCA types (motion detection, cross line, intrusion, area entry and exit), max. 10 VCA rules
Fire/SmokeDetection	Support
Thermal image smart function	Human, vehicles, vessels, animals detection
High temp alarm	High-temperature tracking, over-temperature alarm

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.711a/G.711u/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 48V
Power Consumption	150W
Work Temperature/Humidity	-20°C~+60°C (-4°F~+140°F), <90%RH
Wiper	Support
Protection Level	IP66
Dimension	794mmx574mmx432mm
Weight	<35kg
Optional	
Radar	Optional
Laser Illuminator	Optional
Laser Range Finder	Optional