



PD4 Series

Dual-Spectrum Speed Dome Camera

PD4T dual-spectrum speed dome camera equipped a 640×512 resolution, $12\mu\text{m}$ pixel pitch thermal detector with motorized lens, and a high-performance 4MP visible light camera. It supports tripwire/intrusion detection with AI human/vehicle classification algorithm. The target can be tracked with the help of PT system. It can be used for perimeter protection in critical facilities.



12 μm Uncooled Infrared Detector

Adopting the latest $12\mu\text{m}$ uncooled infrared detectors, integrated with advanced infrared imaging algorithms for better image quality.



Accurate Temperature Measurement

Measurement range from -20°C to 550°C , accuracy $\pm 2^{\circ}\text{C}$ or 2%.



AI Target Recognition

Smart video content analysis, human/vehicle recognition on thermal channel for crossline/intrusion detection.



Dual-Spectrum Imaging

All-weather, 24/7 security monitoring with dual thermal&visible light imaging.



Long-Range Observation

Supports a 50mm motorized lens for detecting fire points up to 3km away and individuals up to 1km away.



Platform Integration

Support ONVIF, provide SDK&demo for development; provide NVR and VMS software for application.

Specifications

Technical Specifications	PD464T			
	Thermal Module			
Detector Type	VOx, uncooled FPA detector			
Spectral Range	8~14μm			
NETD	≤40mK(@25°C,F#1.0,25Hz)			
Resolution	640×512			
Pixel Pitch	12μm			
Focal Length	9.1mm	13mm	25mm	50mm
	Optical Module			
Sensor	4MP 1/1.8" Progressive Scan CMOS			
Resolution	2560×1440			
Focal Length	6.5~240mm			
IR Distance	200m			
	PTZ			
Pan	360° continuous, 0.1°~200°/s			
Tilt	-27°~+90°, 0.1°~120°/s			
Preset	1024			
Scan Mode	Preset/Pattern Scan/Patrol Scan/ Linear Scan/Panorama Scan			
	Temperature Measurement			
Measurement Range	-20°C~+550°C			
Measurement Accuracy	±2°C or ±2%			
Measurement Rules	Support 4 temperature measurement rules(fullframe, point, line, area)			
	Smart Function			
Fire Detection	Support			
VCA	Support Line Crossing&Intrusion detection with AI human/Vehicle recognition			
Linkage Action	Video/ Snapshot/Email/Alarm output			
	System Interface			
Power	DC 24V±15%			
Network	1×RJ45 10M/100M self-adaptive interface			
Audio Interface	1×input, 1×output			
Alarm Interface	7×input, 2×output			
Storage Interface	Micro SD card (up to 256G)			
RS485 Interface	1×RS485			
	General			
Work Environment	-40°C~+70°C; <95%RH			
Protection	IP66			
Power Consumption	Max.48W			
Dimensions (mm)	Φ250×413			
Weight	8kg			

Application Scenarios



Forest Fire Prevention



Perimeter Protection



River Monitoring



Electric Temperature Measurement

RayThink Technology Co., Ltd.

✉ sales@raythink-tech.com

☎ +86-19806191838

🌐 www.raythink-tech.com

📍 Room 3002, Building 2, No.5 Wanshoushan Road, Fulaishan Street, Yantai Area of China (Shandong) Pilot Free Trade Zone

■ This manual is illustrative only. Technical specifications are subject to change without prior notice.