Raythink · sense difference





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

Raythink

Thermal Vision
Product Catalog



About Raythink

Raythink Technology Co., Ltd. is specialized in innovation and development, manufacturing and marketing of intelligent photoelectric sensing technology. We are deeply engaged in the fields of infrared night vision imaging, thermography, gas imaging and laser sensing, providing professional infrared and laser sensing modules, devices, software and smart industry solutions to our global customers. We have also successfully achieved self-development and large-scale production of intelligent multi-dimensional sensing photoelectric products in diverse forms applicable to various fields.

Being a solution provider to public sectors, industries, and commercial markets, we provide a rich portfolio of intelligent photoelectric sensing products, which are widely used in the smart industry, smart robots, optical gas imaging, fire protection and safety, new energy, carbon neutrality, environmental protection, healthcare, etc. Bearing the mission of boosting intelligent photoelectric sensing technology progress, Raythink Technology integrates photoelectricity and smart technology to continuously create incremental value for customers and contribute to building a safe, energy-saving and environmentally friendly society.

R&D Strength

3400+
Intellectual Property

19.9%+
R&D Investment

9
R&D Centers

800+
Master and Phd Holders

51.5%
Percentage of R&D Personnel

1700+
R&D Personnel

Innovative Development History

2009

Founded Raytron Technology Co., Ltd.

2015

Released China's first 17 μm 640 × 512 and 14 μm 1024 × 768 uncooled infrared detector .

2018

Released China's first 12μm 1280×1024 uncooled infrared detector.

2019

Listed on the STAR Market;

Released China's first 10 μm 1280 × 1024 uncooled infrared detector.

2021

Acquired a 56.253% stake in Wuxi Huace to vertically integrate microwave solutions from chips to T/R modules;

Released the world's first 8μm 1920×1080 uncooled infrared detector .

2022

Released InGaAs short-wave detectors, with deep engagement in long-wave, medium-wave and short-wave infrared technologies.

2023

Released satellite comminication chips, components and antenna subarrays;

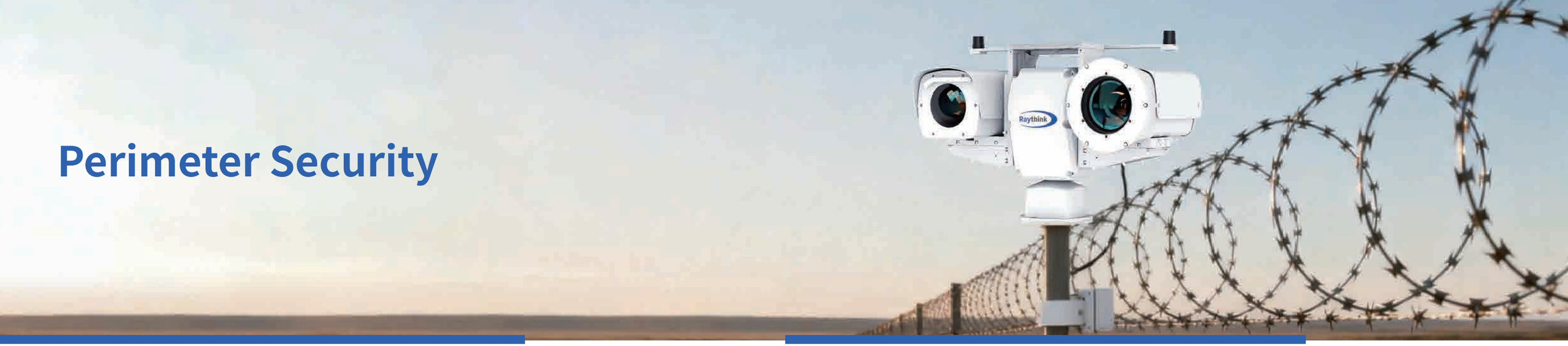
Released Class II superlattice medium-and long-wave detectors.

2024

Released the world's first 6μm 640×512 uncooled infrared detector;

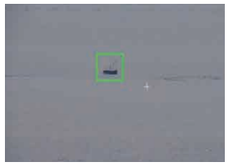
Released the world's first 8-channel and 8-beam analog phased array ABF chip with 64 built-in phase shifters.

Perimeter Security



Long-range Detection

Tracks targets over extended distances, enabling early detection and timely response.

Multi-spectral Imaging

Combine visible, thermal, and laser technologies for accurate target detection in any conditions.




Intelligent AI Recognition

AI-driven recognition enables precise, automated monitoring with rapid alerts, accurately identifying people, vehicles, vessels, and other targets.




Wide-area Coverage

Provides extensive area coverage, maintaining uninterrupted observation and enhanced situational awareness.



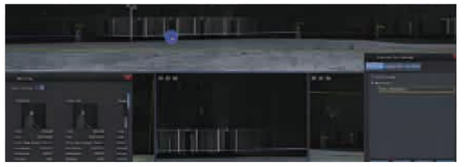
All-weather Operation

Delivers reliable performance in all weather conditions, from rain and snow to fog.




Automatic Target Tracking

Automatically locks onto and follows targets in real time, ensuring accurate and continuous tracking.



Application Scenario

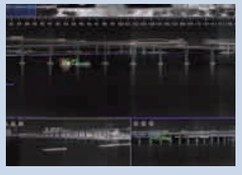
Oil and Gas Monitoring Project

The SilentW-U performs 360° perimeter scans in just 2 seconds, quickly detecting and deterring intrusions across oilfield sites.




Coastal Awareness Project

Deploy dual-spectrum PTZ system along the coast to monitor all vessels and combat smuggling, trafficking, and illegal crossings.

Application Scenario

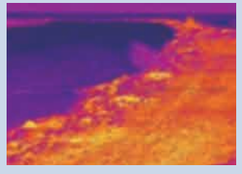
Bird-Strike Prevention Project

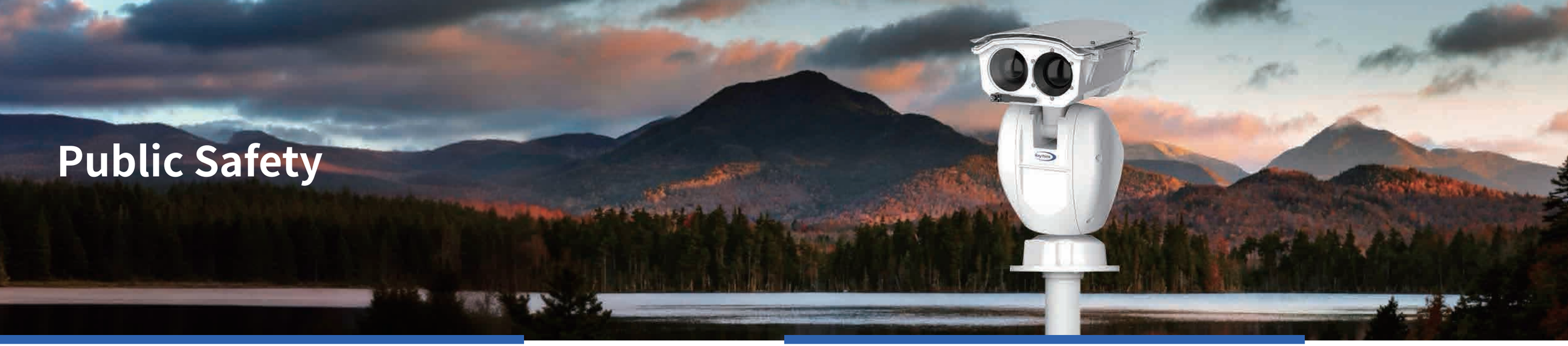
Deploy infrared panoramics near runways to enable early bird detection and support bird-strike prevention, ensuring safe flights.




Aquaculture Theft Prevention Project

The Raythink PC8 provides reliable perimeter protection for aquaculture farms, detecting intrusions and safeguarding farm assets and operations.

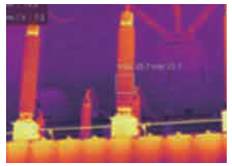





Public Safety

High-Precision Monitoring

Deliver precise temperature measurement and accurate fire point detection.



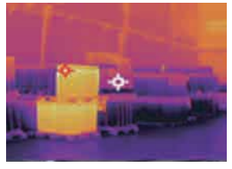
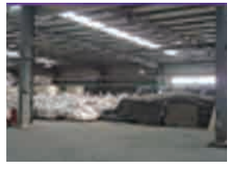

Visualized Analytics

Provide real-time visual imaging and intuitive data analysis for historical playback and operational review.




High-Efficiency Operation

Enable comprehensive area coverage instead of point-based inspection.

Robust and Reliable Operation

Designed for harsh environments, the system resists vibration, dust and water, ensuring long-term stability and consistent performance.




Low False Alarm Rate

Intelligently differentiates true targets from false alarm sources in complex environments. In fire detection, it filters out interference from sunlight, clouds, vehicles, and reflective surfaces.



Non-contact Detection

Allow remote observation in hazardous or hard-to-access areas without exposing personnel to danger. This can be done without the need to shut down equipment or interrupt ongoing operations.



Application Scenario

Forest Fire Prevention Project

Multiple Raythink PC4 cameras were deployed at strategic mountain locations for long-range detection, all integrated into a centralized forest fire management platform.




Solar Plant Inspection System

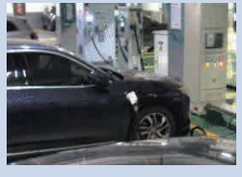
Located in a mountainous area, this solar project faces harsh terrain and high O&M risks. Raythink's PC4 dual-spectrum PTZ cameras provide 24/7 monitoring and early fire and equipment alerts




Application Scenario

EV Charging Station Thermal Safety

Raythink's thermal cameras provide 24/7 monitoring of fast-charging EV stations, detecting hotspots and abnormal temperatures in real time. This early warning helps prevent electrical faults and fire hazards.




Chemical Pipeline Monitoring

Raythink's OGI camera enables real-time gas leak detection of chemical pipelines, with intelligent alerts and post-event analysis.




Contents

Fixed Camera

FC1 Series Dual-Spectrum Turret Camera 10
FC2 Series Dual-Spectrum Bullet Camera 11
FC4 Series Dual-Spectrum Bullet Camera 12
FC4 Series Thermal Bullet Camera 13
FC4 Series Observation Thermal Bullet Camera 14

Speed Dome Camera

PD2 Series Dual-Spectrum Speed Dome Camera 15
PD4 Series Dual-Spectrum Speed Dome Camera 16

PTZ Camera

PC4 Series Dual-Spectrum PTZ Camera 17
PC5 Series Multi-Spectrum PTZ Camera 18
PC6 Series Dual-Spectrum PTZ Camera 19
PC8 Series Multi-Spectrum PTZ Camera 20
PM6 Series Multi-spectrum Positioning System 21
PM7 Series Multi-spectrum Sphere Positioning System 22

Infrared Panoramic Camera

SilentW-U6 Series Infrared Panoramic Camera 23
SilentW-U12 Series Infrared Panoramic Camera 24
SilentW-UM6 Series Mini Infrared Panoramic Camera 25
SI4 Series Panoramic Search and Tracking System 26

Explosion-proof Camera

TE365 Dual-Spectrum Explosion-Proof Bullet Camera 27
TE464T1 Dual-Spectrum Explosion-Proof PTZ Camera 28

Raythink Software Product 29
Industrial Product Overview 30
Operating Distance 31
Global Sales Network 33

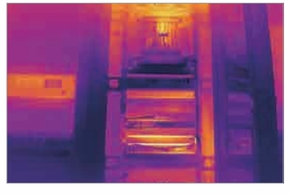


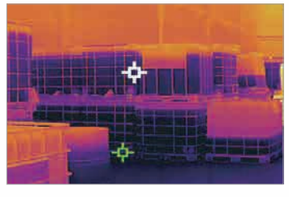
FC1 Series

Dual-Spectrum Turret Camera

- Thermal Imaging & 5MP Visible Light
- Accurate Temperature Measurement
- AI Target Recognition
- Intelligent Alarm with Audio & Visual Alerts









	Technical Specifications	FC125T	
Thermal Module	Detector Type	12μm uncooled VOx FPA detector	
	Spectral Range	8~14μm	
	NETD	⩽40mK (@25°C, F#1.0, 25Hz)	
	Resolution	256×192	
	Focal Length	3.2mm	7mm
Optical Module	Sensor	1/2.7" CMOS	
	Resolution	2560×1920	
	Focal Length	4mm	8mm
	IR Distance	30m	
Temperature Measurement	Measurement Range & Accuracy	-20°C~+550°C (±2°C or ±2%)	
	Measurement Rules	Support 4 temperature measurement rules (fullframe, point, line, area)	
Smart Function	Fire Detection	Support	
	VCA	AI human/Vehicle recognition for Tripwrie & area intrusion detection	
	Linkage Action	Video/Snapshot/Email/Alarm output/Sound and light alarm	
General	Power	DC 12V±25%/POE (802.3af); max. 5W	
	Work Environment	-40°C~+70°C; <95%RH	
	Protection	IP66	
	Weight & Dimensions	⩽0.8kg, Φ129×96mm	
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3	

FC2 Series

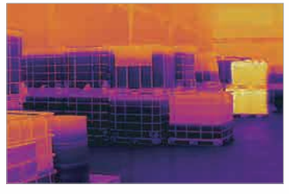
Dual-Spectrum Bullet Camera



- Thermal Imaging & 5MP Visible Light
- Accurate Temperature Measurement
- AI Target Recognition
- Intelligent Alarm with Audio & Visual Alerts









	Technical Specifications	FC225T		
Thermal Module	Detector Type	12μm uncooled VOx FPA detector		
	Spectral Range	8~14μm		
	NETD	⩽40mK (@25°C, F#1.0, 25Hz)		
	Resolution	256×192		
	Focal Length	3.2mm	7mm	10mm
Optical Module	Sensor	1/2.8" CMOS		
	Resolution	2560×1920		
	Focal Length	4mm	8mm	12mm
	IR Distance	30m		
Temperature Measurement	Measurement Range & Accuracy	-20°C~+550°C (±2°C or ±2%)		
	Measurement Rules	Support 4 temperature measurement rules (fullframe, point, line, area)		
Smart Function	Fire Detection	Support		
	VCA	AI human/Vehicle recognition for Tripwrie & area intrusion detection		
	Linkage Action	Video/Snapshot/Email/Alarm output/Sound and light alarm		
General	Power	DC 12V±25%/POE (802.3af); max. 6W		
	Work Environment	-40°C~+70°C; <95%RH		
	Protection	IP66		
	Weight & Dimensions	950g, 265×99×87mm (length can be adjusted to a miminum of 253mm)		
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3		

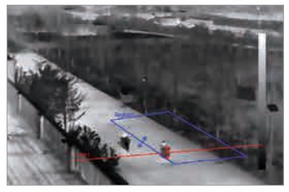
FC4 Series

Dual-Spectrum Bullet Camera

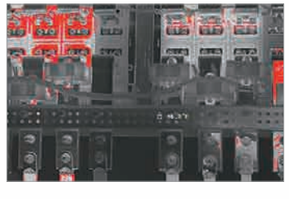


- Thermal Imaging & 5MP Visible Light
- Accurate Temperature Measurement
- Intelligent Video Analysis
- Intelligent Alarm with Audio & Visual Alerts









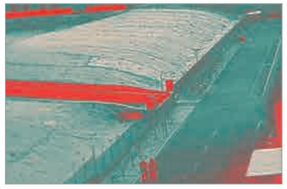
	Technical Specifications	FC465T				
Thermal Module	Detector Type	12μm uncooled VOx FPA detector				
	Spectral Range	8~14μm				
	NETD	⩽40mK (@25°C, F#1.0, 25Hz)				
	Resolution	640×512				
	Focal Length	9.1mm	13mm	19mm	25mm	35mm
Optical Module	Sensor	1/2.8" CMOS				
	Resolution	2560×1920				
	Focal Length	4mm	6mm	6mm	12mm	12mm
	IR Distance	40m				
Dual-Spectrum	Bi-Spectrum Image Fusion	Support				
	Picture in Picture	Support				
Temperature Measurement	Measurement Range & Accuracy	-20°C~+550°C (±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				
	2-Way Audio	Support				
	Linkage Action	Video/Snapshot/Email/Alarm output/Sound and light alarm				
General	Power	DC 12V±25%/POE(802.3at); max. 8W				
	Work Environment	-40°C~+70°C; <95%RH				
	Protection	IP66				
	Weight & Dimensions	⩽1.8kg, 319.5×121.5×103.6mm				
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3				

FC4 Series

Thermal Bullet Camera



- Accurate Temperature Measurement
- Intelligent Video Analysis
- Flexible Focal Length for Optimized Observation
- Smart Smoke & Fire Detection









	Technical Specifications	FC460T			
Thermal Module	Detector Type	12μm uncooled VOx FPA detector			
	Spectral Range	8~14μm			
	NETD	⩽40mK (@25°C, F#1.0, 25Hz)			
	Resolution	640×512			
	Focal Length	9.1mm	13mm	19mm	25mm
Temperature Measurement	Measurement Range & Accuracy	-20°C~+550°C (±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			
	2-Way Audio	Support			
	Linkage Action	Video/Snapshot/Email/Alarm output			
General	Power	DC 12V±25%/POE(802.3at); max. 4W			
	Work Environment	-40°C~+70°C; <95%RH			
	Protection	IP66			
	Weight & Dimensions	⩽1.5kg, 319.5×121.5×103.6mm			
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3			

FC4 Series

Observation Thermal Bullet Camera



- 35mm/55mm/75mm Lens for Long-Range Detection
- Intelligent Video Analysis
- Detects Through Fog, Smoke, Darkness
- Automatic Line & Intrusion Alerts









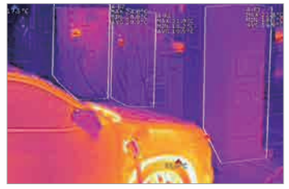
	Technical Specifications	FC460A
Thermal Module	Detector Type	12μm uncooled VOx FPA detector
	Spectral Range	8~14μm
	NETD	⩽40mK (@25°C, F#1.0, 25Hz)
	Resolution	640×512
	Focal Length	35mm/55mm/75mm
Smart Function	Fire Detection	Support
	VCA	Support line crossing & Intrusion detection
	2-Way Audio	Support
	Linkage Action	Video/Snapshot/Email
General	Power	DC 12V±25%/POE(802.3af); max. 4W
	Work Environment	-40°C~+60°C; <95%RH
	Protection	IP66
	Weight & Dimensions	⩽1.5kg, 334.7×121.5×104.4mm
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3

PD2 Series

Dual-Spectrum Speed Dome Camera



- Accurate Temperature Measurement
- Smart Fire & Intrusion Detection with AI Analytics
- 360° PTZ Security & Continuous Scanning
- Standard Integration & Flexibility









Technical Specifications		PD225T	
Thermal Module	Detector Type	12μm uncooled VOx FPA detector	
	Spectral Range	8~14μm	
	NETD	≤40mK (@25°C, F#1.0, 25Hz)	
	Resolution	256×192	
	Focal Length	7mm	10mm
Optical Module	Sensor	1/2.8" CMOS	
	Resolution	2560×1920	
	Focal Length	5.4mm~108mm, 20×	
	IR Distance	50m	
PTZ	Pan & Tilt Range	Pan: 360° continuous, 0.1°~120°/s; Tilt: 0°~+90°, 0.1°~60°/s	
	Scan Mode	Preset/Pattern Scan/Patrol Scan/Linear Scan/Panorama Scan	
Temperature Measurement	Measurement Range & Accuracy	-20°C~+550°C (±2°C or ±2%)	
	Measurement Rules	Support 4 temperature measurement rules (fullframe, point, line, area)	
Smart Function	Fire & Smoke Detection	Support	
	Smart VCA	AI human/Vehicle recognition for Tripwrie & area intrusion detection	
General	Communication Interface	1×RJ45 10M/100M self-adaptive interface	
	Work Environment	-40°C~+70°C; <95%RH	
	Protection	IP66	
	Power	DC 12V±25%/POE(802.3af/at); max.20W	
	Weight & Dimensions	2.48kg, 265×147.5×248.7mm	
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3	

PD4 Series

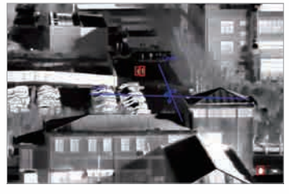
Dual-Spectrum Speed Dome Camera



- Accurate Temperature Measurement
- 50mm Lens for Long-Range Fire Detection
- Flexible PTZ Control & Wide Coverage
- Intelligent Monitoring & Smart Analytics









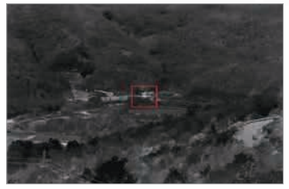
Technical Specifications		PD464T	
Thermal Module	Detector Type	12μm uncooled VOx FPA detector	
	Spectral Range	8~14μm	
	NETD	≤40mK (@25°C, F#1.0, 25Hz)	
	Resolution	640×512	
	Focal Length	9.1mm/13mm/25mm athermal	13mm/25mm/50mm motorized
Optical Module	Sensor	1/1.8" CMOS	
	Resolution	2688×1520	
	Focal Length	6.5~260mm	
	IR Distance	200m	
PTZ	Pan & Tilt Range	Pan: 360° continuous; Tilt: -27°~+90°	
	Scan Mode	Preset/Pattern Scan/Patrol Scan/Linear Scan/Panorama Scan	
Temperature Measurement	Measurement Range & Accuracy	-20°C~+550°C (±2°C or ±2%)	
	Measurement Rules	Support 4 temperature measurement rules (fullframe, point, line, area)	
Smart Function	Fire & Smoke Detection	Support	
	Smart VCA	Support Line Crossing&Intrusion detection with AI human/Vehicle recognition	
General	Communication Interface	1×RJ45 10M/100M self-adaptive interface	
	Work Environment	-40°C~+70°C; <95%RH	
	Protection	IP66	
	Power	DC 24V±15%; max.48W	
	Weight & Dimensions	8kg, Φ250×413mm	
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3	

PC4 Series

Dual-Spectrum PTZ Camera

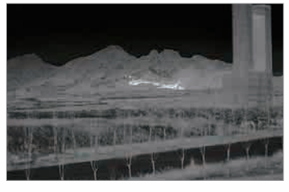


- Multiple Lenses with Continuous Zoom
- Smart Smoke & Fire Detection
- Intelligent Monitoring & Smart Analytics
- High Stability & Performance





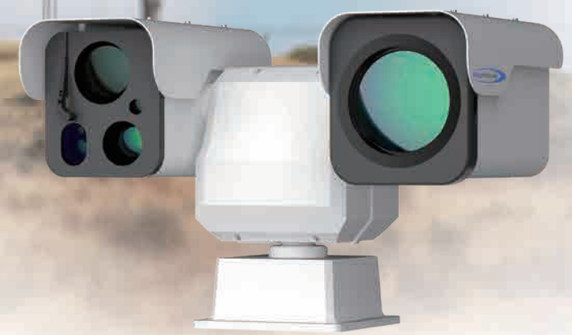




	Technical Specifications	PC464	PC4S4
Thermal Module	Detector Type	12μm uncooled VOx infrared detector	
	Spectral Range	8~14μm	
	NETD	⩽40mK (@25°C, F#1.0, 25Hz)	
	Resolution	640×512	1280×1024
	Focal Length	50mm/75mm/100mm/25~75mm	25~75mm
Optical Module	Sensor	1/1.8'' CMOS	
	Resolution	2688×1520	
	Focal Length	6~360mm 60×	
PTZ	Pan & Tilt Range	Pan: 360° continuous; Tilt: -90°~+40°	
	Scan Mode	Preset point/Patrol inspection group/Pattern/Area scanning/Linear scanning/ Comprehensive patrol	
GNSS (optional)	GNSS	GNSS for positioning & azimuth	
Smart Function	Fire & Smoke Detection	Thermal & Optical	
	Smart VCA	AI human/Vehicle/vessel recognition for Tripwrie & area intrusion detection	
General	Communication Interface	One RJ45 10M/100M adaptive Ethernet port, 1-channel RS485	
	Work Environment	-40°C~+70°C; <90%RH	
	Protection	IP66; TVS 6000V, lightning protection, surge protection, and spike protection	
	Power	DC 24V±15%; max.75W	
	Weight & Dimensions	<20kg, 250×472×360mm	
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3	

PC5 Series

Multi-Spectrum PTZ Camera



- Remote Detection with Long-Range Zoom
- Smart Smoke & Fire Detection
- Multi-Spectrum: Thermal, Visible and Laser
- AI-Powered Video Content Analysis









	Technical Specifications	PC564	PC5S4
Thermal Module	Detector Type	12μm uncooled VOx infrared detector	
	Spectral Range	8~14μm	
	NETD	⩽40mK (@25°C, F#1.0, 25Hz)	
	Resolution	640×512	1280×1024
	Focal Length	100/30-150mm	100/150/30-150mm
Optical Module	Sensor	1/1.8'' CMOS or 1/1.25'' CMOS	
	Resolution	2688×1520	
	Focal Length	6~336mm/10~550mm	
PTZ	Pan & Tilt Range	Pan: 360° continuous; Tilt: -90°~+90°	
	Scan Mode	Preset/Tour/Area Scan/Linear Scan/Pattern Scan/Comprehensive Patrol	
Illuminator (Optional)	Laser Distance	800m/1500m	
LRF (Optional)	LRF Distance	2/3/6km	
Smart Function	Fire & Smoke Detection	Thermal & Optical	
	Smart VCA	AI human/Vehicle/vessel recognition for tripwrie&area intrusion detection; target tracking	
General	Communication Interface	RJ45 self-adaptive 10M/100M Ethernet port	
	Work Environment	-40°C~+70°C; <90%RH	
	Protection	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection	
	Power	DC 48V±15%; max.300W	
	Weight & Dimensions	30kg, 623.6×398.5×350mm	
	Certification	CE,ROHS,CE-EMC Test Report, FIPS 140-3 Level 3	

PC6 Series

Dual-Spectrum PTZ Camera



- HD Dual-Spectrum Imaging for All-Weather Monitoring
- Remote Detection with Long-Range Zoom
- Centimeter-Level Satellite Positioning
- Intelligent Monitoring & Smart Analytics









	Technical Specifications	PC664	PC6S4	PC6F4	PC664
Thermal Module	Detector Type	12μm Uncooled VOx infrared detector			15μm, T2SL cooled infrared detector
	Spectral Range	8~14μm			3.4~5.0μm
	NETD	⩽40mK (@25°C, F#1.0, 25Hz)			⩽20mK (@F4.0, 25°C)
	Resolution	640×512 (12μm)	1280×1024(12μm)	1920×1080(8μm)	640×512
	Focal Length	25~225mm/35~350mm			30~660mm/88~1100mm
Optical Module	Sensor	1/1.8'' CMOS			
	Resolution	2688×1520			
	Focal Length	15~775mm/20~1200mm			
PTZ	Pan & Tilt Range	Pan: 360° continuous, 0.1°～100°/s; Tilt: -90°～+90°, 0.1°～60°/s			
	Scan Mode	Preset/Patrol group/Pattern/Area scanning/Linear scanning/Comprehensive patrol			
GNSS (optional)	GNSS	GNSS for positioning & azimuth			
Smart Function	Fire & Smoke Detection	Thermal & Optical			
	Smart VCA	AI human/Vehicle/vessel recognition for tripwrie&area intrusion detection; target tracking			
General	Communication Interface	RJ45 self-adaptive 10M/100M Ethernet port			
	Work Environment	-40°C~+70°C; <90%RH			
	Protection	IP66, TVS 6000V, lightning protection, surge protection, and spike protection			
	Power	DC 48V±15%; max. 270W			
	Weight & Dimensions	80kg, 805.6×661.5×585.3mm(W×H×L)			
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3			

PC8 Series

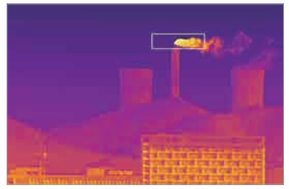
Multi-Spectrum PTZ Camera



- Multi-Spectrum: Thermal, Visible and Laser
- Remote Detection with Long-Range Zoom
- Intelligent Fire Detection with Low False Alarms
- Intelligent Monitoring & Smart Analytics









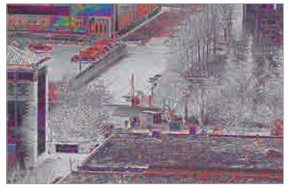
	Technical Specifications	PC864	PC8S4
Thermal Module	Detector Type	12μm uncooled VOx infrared detector	
	Spectral Range	8~14μm	
	NETD	⩽40mK (@25°C, F#1.0)	
	Resolution	640×512	1280×1024
	Focal Length	30~150mm/25~225mm	
Optical Module	Sensor	1/1.8'' CMOS	
	Resolution	2688×1520	
	Focal Length	6~300mm/15~775mm	
PTZ	Pan & Tilt Range	Pan: 360° continuous, 0.01°~60°/s; Tilt: -60°~+60°, 0.01°~15°/s	
	Scan Mode	Preset/Pattern Scan/Patrol Scan/Linear Scan/Panorama Scan	
Illuminator (Optional)	Laser Distance	3000m	
Smart Function	Fire&Smoke Detection	Thermal & Optical	
	VCA	Tripwire & area intrusion detection	
General	Communication Interface	RJ45 self-adaptive 10M/100M Ethernet port	
	Work Environment	-40°C~+70°C; <90%RH	
	Protection	IP66 Standard; TVS 6000V lightning protection, surge protection and voltage transient protection	
	Power	DC 48V±15%; max. 220W	
	Weight & Dimensions	48kg, 645×680.5×550mm	
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3	

PM6 Series

Multi-spectrum Positioning System



- HD Dual-Spectrum Imaging for All-Weather Monitoring
- Long-Range Detection
- Coaxial System for Efficient Tracking
- Intelligent Video Analysis & Alerts









Technical Specifications		PM6	
Thermal Module	Detector Type	12μm uncooled VOx infrared detector	15μm cooled T2SL infrared detector
	Spectral Range	8~14μm	3.4~5μm
	NETD	≤40mK@F1.0	≤20mK@F4.0
	Resolution	640×512	
	Focal Length	25~225mm	30~660mm
Optical Module	Sensor	1/1.8'' CMOS	
	Resolution	2688×1520	
	Focal Length	15~775mm	
PTZ	Pan & Tilt Range	Pan: 360° continuous, 0.1°~100°/s; Tilt: -90°~+90°, 0.01°~100°/s	
	Scan Mode	Preset/Pattern Scan/Patrol Scan/Linear Scan/Panorama Scan	
LRF (Optional)	Laser Distance	Max. 15 km	
Smart Function	Smart VCA	Tripwire detection, line acrossing, regional intrusion, and other intelligent video analysis function	
General	Communication Interface	1 RJ45 self-adaptive 10M/100M Ethernet port	
	Work Environment	-40°C~+70°C; <90%RH	
	Protection	IP66, TVS 6000V, lightning protection, surge protection,and spike protection	
	Power	DC 48V±15%; max.500W	
	Weight & Dimensions	85kg, 826×571×606mm	
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3	

PM7 Series

Multi-spectrum Sphere Positioning System



- HD Dual-Spectrum Imaging for All-Weather Monitoring
- Long-Range Detection
- High-Performance PTZ System
- Intelligent Video Analysis & Alerts









Technical Specifications		PM764	PM7S4
Thermal Module	Detector Type	12μm uncooled VOx FPA detector	
	Spectral Range	8~14μm	
	NETD	≤35mK (@25°C, F#1.0, 25Hz)	
	Resolution	640×512	1280×1024
	Focal Length	25~225mm/35~350mm	
Optical Module	Sensor	1/1.8'' CMOS	
	Resolution	2688×1520	
	Focal Length	15~775mm/20~1200mm	
PTZ	Pan & Tilt Range	Pan: 360° continuous, 0.01°~220°/s; Tilt: -90°~+90°, 0.01°~100°/s	
	Scan Mode	Preset/Pattern Scan/Patrol Scan/Linear Scan/Panorama Scan	
Illuminator (Optional)	Laser Distance	Max. 3 km	
LRF (Optional)	LRF Distance	Max. 15 km	
Smart Function	Fire & Smoke Detection	Support	
	Smart VCA	Tripwire & area detection, human/vehicle/vessel classification by AI	
General	Communication Interface	RJ45 self-adaptive 10M/100M Ethernet port	
	Work Environment	-40°C~+70°C; <90%RH	
	Protection	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection	
	Power	DC 48V±15%; max.600W	
	Weight & Dimensions	125kg, φ600mm×942(±5) mm	
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3	

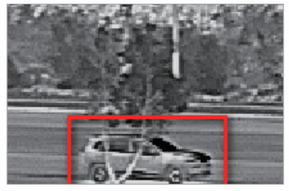
SilentW-U6 Series

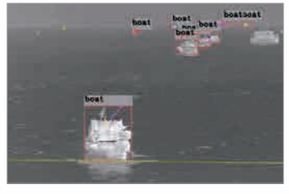
Infrared Panoramic Camera

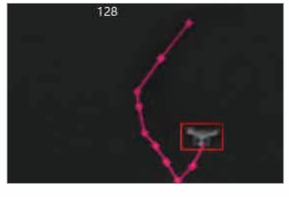


- 360° Panoramic Monitoring
- Multi-Target Detection (256 Targets)
- Link with PTZ Camera
- AI-Powered Target Recognition









	Technical Specifications	SilentW-U655	SilentW-U675
Thermal Module	Detector Type	12μm uncooled VOx infrared detector	
	Resolution	640×512	
	Focal Length	55mm	75mm
	Panoramic Image Resolution	28792×512	39200×512
	Frame Rate	180°/s	133°/s
	Horizontal FOV Range	360°	
	Vertical FOV	6.4°	4.7°
	Tilt Range	-20°~+35°	
General	Protection	IP66	
	Dimension	327×260×377mm	382×260×386mm
	Weight	17kg	20kg
	Work Environment	-40°C~+70°C	
	Power	DC 30V 5A	
	Power Consumption	<30W	

SilentW-U12 Series

Infrared Panoramic Camera



- 360° Panoramic Monitoring
- Multi-Target Detection (256 Targets)
- Link with PTZ Camera
- AI-Powered Target Recognition









	Technical Specifications	SilentW-U1255	SilentW-U1275
Thermal Module	Detector Type	12μm uncooled VOx infrared detector	
	Resolution	1280×1024	
	Focal Length	55mm	75mm
	Panoramic Image Resolution	28792×1024	39200×1024
	Frame Rate	180°/s	164°/s
	Horizontal FOV Range	360°	
	Vertical FOV	12.7°	9.4°
	Tilt Range	-20°~+35°	
General	Protection	IP66	
	Dimension	382×260×386mm	
	Weight	20kg	
	Work Environment	-40°C~+70°C	
	Power	DC 30V 5A	
	Power Consumption	<35W	

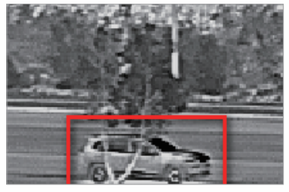
SilentW-UM6 Series

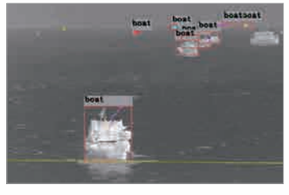
Mini Infrared Panoramic Camera

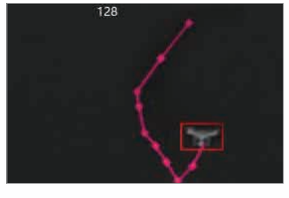


- 360° Panoramic Monitoring
- Multi-Target Detection (256 Targets)
- Link with PTZ Camera
- Lightweight for Rapid Deployment
- AI-Powered Target Recognition









	Technical Specifications	SilentW-UM619	SilentW-UM625
Thermal Module	Detector Type	12μm uncooled VOx infrared detector	
	Resolution	640×512	
	Focal Length	19mm	25mm
	Panoramic Image Resolution	9900×512	13000×512
	360° Scanning Frequency	0.56Hz	0.44Hz
	180° Sector Scanning Frequency	1.11Hz	0.89Hz
	Horizontal FOV Range	360°	
	Vertical FOV	18.4°	14°
	Tilt Range	±5°	
General	Protection	IP66	
	Dimension	108×112×175mm	
	Weight	2.1kg	
	Work Environment	-40°°C~+60°C	
	Power	DC 24V	
	Power Consumption	15W	
	Network	100M/1000M Ethernet port	

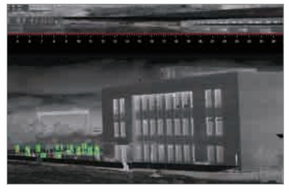
SI4 Series

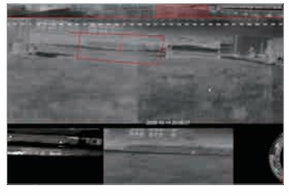
Panoramic Search and Tracking System



- 360° Panoramic Monitoring
- Integrated Search & Tracking Systems
- Intelligent Video Analysis & Alerts
- Robust All-Weather Design









	Technical Specifications	SI4
Panoramic	Sensor Type	12μm uncooled VOx FPA detector
	Resolution	13000×512
	Focal length	25mm
	FOV	360°×14°
	FPS	0.44Hz
Thermal Module	Detector Type	12μm uncooled VOx FPA detector
	Resolution	640×512
	Focal Length	50mm
Optical Module	Sensor	1/1.8'' CMOS
	Resolution	2688×1520
	Focal Length	6.5~260mm
	FOV	57.6°×33.5°~2.9°×1.6°
	IR Distance	Max. 200m
PTZ	Pan	360° continuous, 0.1°~100°/s
	Tilt	-27°~90°, 0.01°~100°/s
	Scan Mode	Preset/Tour/Pattern Scan/Linear Scan/Area Scan
Smart Function	Panoramic Linkage Tracking	Supports manual tracking and event tracking, enabling PTZ linkage for zooming and tracking
	Intelligent Detection	Tripwire & area detection, human/vehicle classification by AI
General	Power	DC 24V±15%; max. 65W
	Network	1 RJ45 self-adaptive 10M/100M Ethernet port
	Work Environment	-40°C~+70°C; <95%RH
	Protection	IP66
	Weight & Dimensions	12Kg, 539.3×249.4×415.2mm
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3

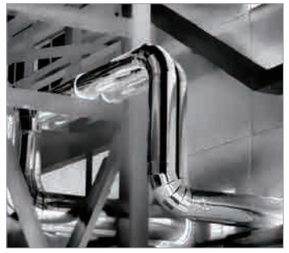
TE365

Dual-Spectrum Explosion-Proof Bullet Camera

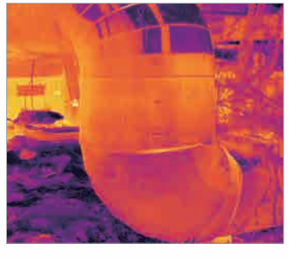




- Dual Explosion-Proof Certification (IP68)
- Chemical-Resistant Housing
- Accurate Temperature Measurement & Fire Detection
- Intelligent Video Analysis & Alerts
- All-in-One Security & Monitoring Solution







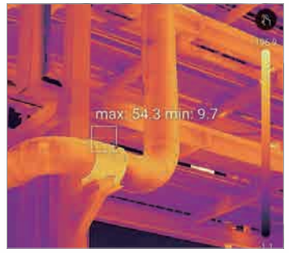
	Technical Specifications	TE365
Thermal Module	Detector Type	12μm uncooled VOx FPA detector
	Spectral Range	8~14μm
	NETD	⩽40mK (@25°C,F#1.0, 25Hz)
	Resolution	640×512
	Focal Length	9.1mm/13mm
Optical Module	Sensor	1/2.8" CMOS
	Resolution	2560×1920
	IR Distance	50m
Dual-Spectrum	Bi-Spectrum Image Fusion	Support
Temperature Measurement	Measurement Range & Accuracy	-20°C~+550°C (±2°C or ±2%)
	Measurement Rules	Suport 4 temperature measurement rules (fullframe, point, line, area)
Smart Function	Fire Detection	Support
	VCA	Line Crossing & Intrusion detection
General	Work Environment	-40°C~+70°C; <95%RH
	Power	100~260V AC, 12V DC (optional)
	Power Consumption	⩽8W
	Protection	IP68
	Explosion Proof	Ex d II C T6 Gb/Ex tD A21 IP68 T80°C
	Weight & Dimensions	13kg, 275.5×186×203mm
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3

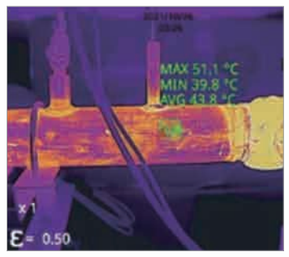
TE464T1

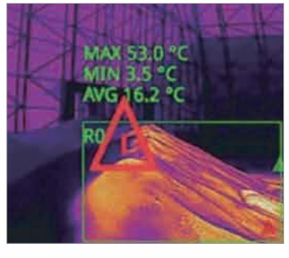
Dual-Spectrum Explosion-Proof PTZ Camera



- Dual Explosion-Proof Certification (IP68)
- Chemical-Resistant Housing
- Accurate Temperature Measurement & Fire Detection
- Intelligent Video Analysis & Alerts
- All-in-One Security & Monitoring Solution







	Technical Specifications	TE464T1
Thermal Module	Detector Type	12μm uncooled VOx FPA detector
	Spectral Range	8~14μm
	NETD	⩽40mK(@25°C, F#1.0, 25 Hz)
	Resolution	640×512
	Focal Length	25mm
Optical Module	Sensor	1/1.8" CMOS
	Resolution	2688×1520
	Focal Length	6.5mm~130mm 20×
PTZ	Pan & Tilt Range	Pan: 360° continuous; Tilt: -90°~+90
	Scan Mode	Preset point/Patrol scan/Pattern scan/Area scanning/Linear scanning
Temperature Measurement	Measurement Range & Accuracy	-20°C~+550°C (±2°C or ±2%)
	Measurement Rules	Suport 4 temperature measurement rules (fullframe, point, line, area)
Smart Function	Fire Detection	Support
	VCA	Line Crossing & Intrusion detection
General	Work Environment	-40°°C~+60°C; <90%RH
	Power	85V~260V AC/24V DC 3A (optional)
	Power Consumption	⩽100W (thermostat activated)
	Protection	IP68
	Explosion Proof	Exd IIC T6 Gb/Ex tD A21 IP68 T80°C
	Weight & Dimensions	27kg, 436×296×406mm
	Certification	CE, ROHS, CE-EMC Test Report, FIPS 140-3 Level 3

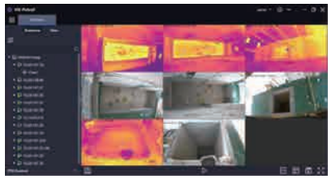
Raythink Software Product

Raythink's VIS software families support client, mobile, and cloud platforms, enabling front-end devices to perform real-time temperature analysis. They provide seamless data integration and interconnectivity across PCs, mobile devices, and cloud services, helping users efficiently monitor and analyze temperature data.

VIS Software

VIS Patrol

VIS Patrol is a PC-based security software for managing visual monitoring devices. It offers device management, video preview and playback, alarm handling, infrared temperature monitoring, electronic maps, and user permissions. Designed for small to medium setups, it ensures easy deployment and simple operation for basic monitoring needs.



Multiple Preview Modes



Multiple Alarm and Linkage Methods



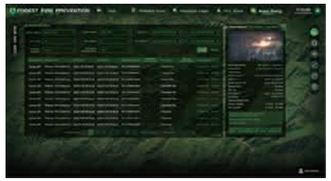
Support temperature data collection and analysis

VIS 3100

The VIS-3100 Platform Software provides a unified system for forest fire prevention, quickly locating fires, assessing severity, and sending alerts to support timely and efficient rescue efforts.



One-Map Fire Management



Fire Incident Data Restoration



Automatic Fire Assessment & Alert

VIS 4100

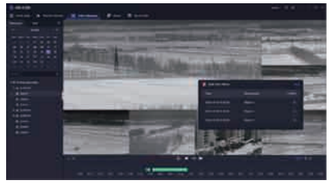
The VIS-4100 Platform is an advanced system for complex security environments, integrating multiple sensors for 360° all-weather monitoring and real-time threat detection.



Diversified Monitoring Perspectives



Close Linkage Tracking



Multi-channel Synchronous Playback

Industrial Product Overview

Handheld Thermal Camera

RT400/630 Series
Expert Thermal Camera

Infrared Resolution: 480×360/640×512
Measurement Range: -20°C~+150°C,
100°C~650°C; optional: 400°C~1500°C



RS1280 Series
Flagship Thermal Camera

Infrared Resolution: 1280×1024
Measurement Rang: -20°C~+150°C,
150°C~800°C, 400°C~2000°C, other ranges



Gas Detection Camera

RG630 Series
OGI Handheld Camera

Infrared Resolution: 640×512
Gases Detectable:Methane, sulfur dioxide, ethanol, Freon (R-134a, R-152a), and other gases; Sulfur hexafluoride, ammonia, methanol, ethylene, propylene and other gases.



TE464G1
Explosion-Proof Gas Imaging PTZ

Infrared Resolution: 640×512
Gases Detectable:
Methane (CH_4), Sulfur Dioxide (SO_2), Freon (R-134a, R-152a) and other gases



Fixed Thermography Camera

AT31/AT61
Motorized Focusing Thermal Camera

Infrared Resolution:
384×288/640×512
Measurement Range:
-20°C~+150°C,0°C~550°C



TN430/TN460
Fixed-mount Thermal Camera

Infrared Resolution:
384×288/640×512
Measurement Range:
-20°C~+150°C, 0°C~650°C



TN460U
Ultra-high Temperature Thermal Camera

Infrared Resolution:
640×512
Measurement Range:
0°C~800°C, 600~2000°C



TN220
Thermographic Cube Camera

Infrared Resolution:
256×192
Measurement Range:
-20°C~+150°C, 100°C~550°C



Operating Distance



• PC5



• SilentW-U6



• FC4T



• PC6





• PC4



• PD4



• PM7



• SilentW-UM6

Target Dimension

- Drone: 0.35×0.35m
- Human: 1.8×0.5m
- Vehicle: 4×1.4m
- Vessel : 8×3m
- Wildfire :1m×1m
- Wildfire :2m×2m

Global Sales Network



Market coverage across **100+** countries and regions

Asia	Europe	North America	South America	Oceania	Africa