IRS-PT8 series
Multi-Spectrum Thermal Network PTZ Camera

IRS-PT8 series adopts intelligent thermal imaging, high-definition visible light, laser night vision multi-spectrum detection methods, and multiple methods complement each other to achieve full-time, all-weather, large-scale observation. With the help of thermal image, PT8 is able to capture the object in darkness or in any bad weather condition. PT8 series can be widely used for forest fire prevention, border/coast defense or other long-distance observation applications.

Industry-leading Infrared Detectors

Equipped with new generation InfiRay® 12μm uncooled Vox detector

Multi-Spectrum Image

1280×1024 thermal image；4MP visible image；3km laser light

Long Distance Observation

25~225mm thermal focal length, 15~775mm visible light focal length

Smart Fire Detection

Supports accurate fire detection with thermal image to avoid misreport

Smart Video Analysis

Supports line crossing, intrusion detection on both visible/thermal channel

High Compatibility

Compatible with ONVIF, GB28181 protocols, provides SDK for development

Product specifications

Technical specifications	PT864L	PT8S4L
Thermal		
Detector type	VOx uncooled FPA detector	
Spectral range	8～14μm	
NETD	≤30mK(@25℃,F#1.0,25Hz)	
Resolution	640×512	1280×1024
Pixel size	12μm	
Focal length	30~150mm	25~225mm
Visible light		
Sensor	1/1.8" 4MP CMOS	
Resolution	2688×1520	
Focal length	6mm~300mm	15~775mm
Laser		
Illumination distance	3000m	
PTZ		
Pan range	360° horizontally	
Tilt range	-60° ～ +60° vertically	
Scan mode	Preset/pattern scan/patrol scan/linear scan/panorama scan	
Smart function		
Fire detection	Support	
Smart record	Alarm trigger recording, disconnection trigger recording (continue transmission after connection)	
Smart alarm	Support alarm trigger of network disconnection, IP address conflict, full memory, memory error, illegal access and abnormal detection	
VCA	Line crossing/intrusion detection	
Alarm linkage	Recording/capture/sending mail/PTZ linkage/alarm output	
System interface		
Power	DC48V	
Network	1×RJ45 10M/100M/ self-adaptive interface	
Audio interface	1×audio in, 1×audio out	
Alarm interface	1 ×alarm input, 1 ×alarm output	
Storage interface	Support Micro SD (max. 256G)	
RS485	1×RS485, support Pelco	
General		
Work temperature	-40℃～+70℃；<90%RH	
Protection grade	IP66，TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection Conform to GB/T17626.5 Grade-4 Standard	
Power consumption	≤220W	
Dimensions(mm)	645×680.5×550	
Weight	48kg	

Application fields

Border/coastal surveillance

Forest fire prevetion

River monitoring

Perimeter surveillance

Company profile

InfiRay®, leading manufacturer of uncooled IRFPA

InfiRay® concentrates on developing infrared thermal imaging technologies and manufacturing relevant products, with completely independent intellectual property rights. InfiRay is committed to providing global customers with professional and competitive infrared thermal imaging products and solutions. The main products include infrared detectors, thermal imaging modules, night vision thermal cameras, and thermographic cameras for temperature measurement.

InfiRay® is famous for the unique "Ultra Clear" technology that provides high-definition images and ultra-low power consumption. With 2000+ employees and R&D personnel accounts for 48% of all, 930 intellectual property projects in terms of InfiRay® have been authorized and accepted, including those for integrated circuit chips, MEMS sensors design and manufacture, Matrix III Image Algorithms, and AI-Temp Intelligent Accurate Temperature Measurement Algorithms. InfiRay® products have been applied in various fields, including outdoor night vision, industrial thermography, security and firefighting, epidemic prevention, smartphone, AI, machine vision, and auto-piloting.

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