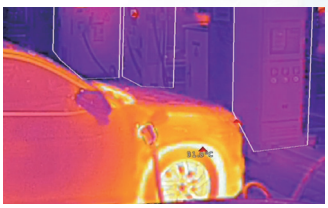
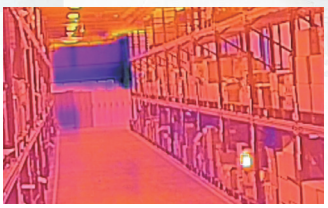
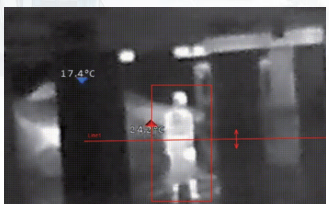
SD2 Series
Dual-spectrum Speed Dome Camera

IRS-SD2 series dual-spectrum speed dome camera is equipped with 256×192 thermal imaging and 5MP high-definition visible light. Built-in industrial temperature measurement and analysis algorithms, 360° circular scanning cruise temperature measurement (-20 ~ +550 °C), and can be independently set for the preset point temperature measurement area. Based on smoke and fire detection algorithm and intelligent intrusion detection algorithm, it can detect fire hazards, intrusion targets in real time, and link the sound and light alarm to achieve all-weather, all-round security monitoring and fire warning.







12μm VOx Uncooled Detector

Equipped with new generation InfiRay® 12μm uncooled Vox detector to provide advanced thermal image quality

Dual-Spectrum Image

Visible light image & thermal image for 24-hours surveillance

High Accuracy

20°C~+550°C measure range, ±2°C accuracy with various measurement rules

Smart Video Analysis

Support Line Crossing, Intrusion on both visible/thermal channel, support fire point detection

Smart Alarm

360° panoramic surveillance, thermal imaging target detection with linked visible light zoom tracking, support multi-event linkage alarm and audible-visible alarm

High Compatibility

Provides NVR and VMS client, support ONVIF, provides SDK for development

Product Specifications

Technical Specifications	IRS-SD225-T	
	Thermal	
Detector type	VOx, uncooled FPA detectors	
Spectral range	8~14μm	
NETD	⩽40mK(@25°C,F#1.0,25Hz)	
Resolution	256×192	
Pixel size	12μm	
Focal length	7mm	10mm
	Visible Light	
Sensor	5MP 1/2.8"CMOS	
Max. resolution	2560×1920	
Focal length	5.4~108mm	
IR illuminator	Max. supplement light range: 50m	
	Temperature Measurement	
Range	-20°C ~ +550°C	
Accuracy	±2°C or ±2% (The larger value shall prevail)	
Temperature measurement analysis	Support temperature measurement tools such as full frame/ point/ line/ region and linkage alarm	
	Smart Function	
Fire detection	Support fire detection	
Smart detecting	Support smart event analysis such as human-vehicle recognition, cross-border, region intrusion	
Alarm linkage	Video recording/Snapshot/alarm output/ sending mail/ PTZ linkage/Audible and visual alarm	
	System Interfaces	
Power supply	DC 12V±25% / PoE(802.3af/at)	
Network	1×RJ45 10M/100M self-adaptive interface	
RS485	1×RS485, support Pelco	
Audio input	1×audio in	
Audio output	1×audio out, 1×built-in Speaker	
Alarm input	2×alarm input	
Alarm output	2×alarm output	
Storage interface	Support Micro SD (max. 256G)	
Reset button	Support	
	General	
Work temperature	-40°C~+70°C；<95%RH	
Protection	IP66	
Power consumption	⩽20W	
Dimension (mm)	265×147.5×248.7	
Weight	2480g	

Application


Perimeter surveillance


River monitoring


Electrical equipment monitoring


Fire prevention

About Iraytek

IRay Technology concentrates on developing infrared thermal imaging technologies and manufacturing relevant products, with completely independent intellectual property rights. IRay is committed to providing global customers with professional and competitive infrared thermal imaging products and solutions. The main products include IRFPA detectors, thermal imaging modules, and terminal thermal cameras and imagers.

With R&D personnel accounts for 48% of all employees, 930 intellectual property projects in terms of IRay have been authorized and accepted: 718 patented technologies authorized and accepted in China (including those for integrated circuit chips, MEMS sensors design and manufacture, Matrix III image algorithms and intelligent precise temperature measurement algorithms, etc.); 22 patented technologies authorized and accepted overseas; 147 software copyrights; and 43 integrated circuit layout designs.

IRay products have been applied in various fields, including industrial thermography, night vision observation, AI, machine vision, automatic driving, security and fire control, Internet of Things, and epidemic prevention and control.

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