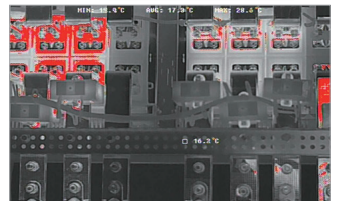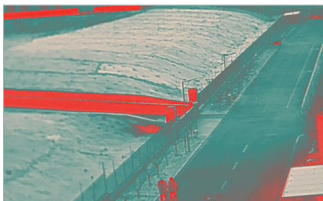# IRS-FB4 series

Dual-Spectrum Thermal Network Camera

IRS-FB4 series dual-spectrum thermal network camera equipped with the advanced thermal detectors and high-resolution visible module. Based on the AI algorithm, the camera is able to detect line crossing, intrusion and region entrance/exit and various measurement rules can be set. FB4 series could be used for perimeter defense, fire prevention in warehouse or gas station, or industrial temperature measurement.

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℃~+550℃ measure range, ±2℃ accuracy with various measurement rules

Smart Video Analysis

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

Smart Alarm
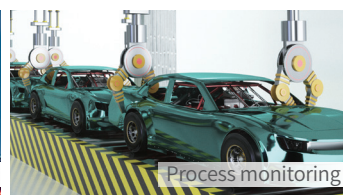
Support event linkage alarm

High Compatibility

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

Product Specifications

Technical Specifications	IRS-FB435-T				IRS-FB465-T				
Thermal									
Detector Type	VOx, uncooled FPA detectors								
Spectral Range	8～14μm								
NETD	≤40mK(@25°C,F#1.0,25Hz)								
Resolution	384×288				640×512				
Pixel size	12μm								
Focal length	9.1mm	13mm	19mm	25mm	9.1mm	13mm	19mm	25mm	35mm
Visible light									
Sensor	5MP 1/2.8" Progressive Scan CMOS								
Focal length	6mm	6mm	12mm	12mm	4mm	6mm	6mm	12mm	12mm
IR distance	Max. 40m								
Dual-spectrum									
Dual-Spectrum Fusion	Display the details of visible channel on thermal channel								
Temperature display	Display the temperature information on the visible light channel								
Temperature measurement									
Range	-20°C ～ +550°C								
Accuracy	±2°C or ±2%								
Measurement rules	Support 3 rule types(point,area,line) and event linkage alarm								
Smart function									
Fire detection	Support fire detection								
VCA	Line Crossing/Intrusion detection								
Alarm action	Record/Snapshot/E-mail/Relay output/Sound&light alarm								
Two-way talk	Support two-way talk								
System interfaces									
Power	DC 12V±25% / PoE(802.3at)								
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×DC 0～5V alarm input								
Alarm output	2×NO relay output								
Edge storage	Support Micro SD (max. 256G)								
Reset button	Support								
General									
Work temperature	-40°C ～ +70°C；<95%RH								
Protection	IP67								
Power consumption	≤8W								
Dimension (mm)	319.5×121.5×103.6								
Weight	≤1.8kg								

Application

Perimeter defense

Fire prevention

Process monitoring

Electrical equipment inspection

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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