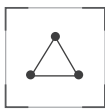




SE5 1280

Uncooled Infrared Thermal Imaging Module

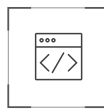
SE5 1280 is a high-resolution (1280×1024) uncooled thermal camera with a self-developed infrared LY300, stable supply, high reliability, and a ceramic package detector for enhanced durability and performance. It features a compact size, low power consumption and long standby time. SE5 1280 offers multiple image modes including edge outlining mode, allowing users to choose the best one for different industry applications. SE5 1280 applies to multiple scenarios, e.g. security, handheld devices, night vision, etc.



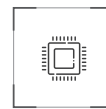
High Reliability



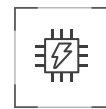
High-Quality Image



Rich in Functions

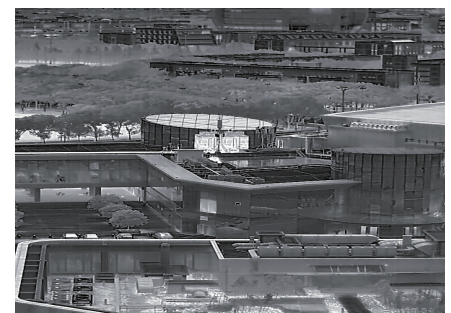


Self-Developed Infrared ISP



Low Power Consumption

Product Imaging



Specifications

Technical specifications	SE5 1280
Main Parameters	
Detector type	Uncooled VOx infrared detector
Resolution	1280×1024
Frame rate	Imaging at 50Hz (temperature measurement at 30hz)
Pixel pitch	12 μm
Spectral range	8~14 μm
NETD	≤40mK@25°C,F#1.0,25Hz
Thermal time constant	<12ms
Image Adjustment	
Non-uniformity correction	Shutter correction/Shutter-Less algorithm correction
Brightness/Contrast	0-100 optional
Polarity/Palette	White -hot/black- hot/Various palettes supported
Mirroring	Vertical/Horizontal/Diagonal
Electrical parameters	
Digital video	DVP/BT1120/ MIPI/USB3.0
Communication interface	UART/I2C
Input supply voltage	5V
Typical power	<1.3W
Physical Characteristics	
Weight (without lens)	<26g
Dimensions (without lens)	≤29×29mm
Temperature measurement	
Temperature measurement range	High quality: -20°C-150°C; wide range: 50°C-600°C
Operating temperature	-40°C~+80°C
Storage temperature	-50°C~+85°C
Humidity	5%-95%, non-condensing
Vibration	6.06 g, random vibration, all axes
Impact	80g @ 4ms, rear peak sawtooth wave, 3 axes and 6 directions

Application Scenarios



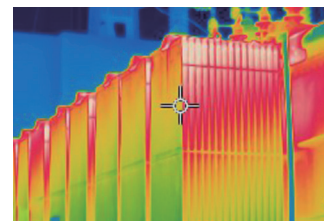
Handheld Devices



Fire Inspection



Safety Monitoring



Industrial Temperature Measurement

Company Profile

Raytron Microelectronics Co., Ltd. is a wholly-owned subsidiary of Raytron Technology Co., Ltd., providing global customers with infrared detectors, core modules, and industry solutions.

Our products are widely used in various fields, including infrared temperature measurement, night vision observation, machine vision, intelligent driving, Commercial Drone, smart industry, security monitoring, Internet of Things, medical epidemic prevention and gas detection.

With the mission of "to create incremental value for customers with technological advancements", we are committed to leaving a name in the history of constantly expanding human perception capabilities.



Official Website



LinkedIn Official Account

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