

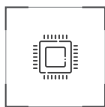
RTDS123C

High-Performance Ceramic Packaged LWIR Sensor

RTDS123C is a ceramic-packaged LWIR sensor (1280×1024 , $12\mu\text{m}$) based on vanadium oxide (VOx) microbolometer with an 8-14 μm wavelength range, high-quality images with high performance and high sensitivity. RTDS123C applies to multiple scenarios, e.g. industrial temperature measurement, outdoor night vision, etc.



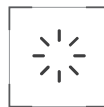
Resolution
 1280×1024



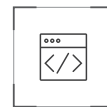
Pixel Size
 $12\mu\text{m}$



NETD
<40mk



High
Sensitivity

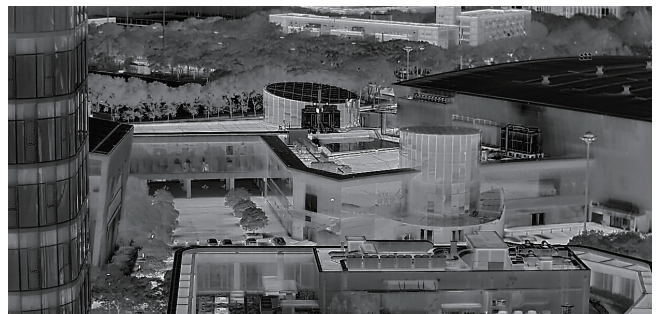


High-
Performance



High-Quality
Image

Product Imaging



Specifications

Product Model	RTDS123C
Sensor Technology	Vanadium oxide microbolometer
Response Band	8-14μm
Pixel Pitch	12μm
Resolution	1280×1024
NETD	<40mK(f/1.0,30Hz,300K)
Frame Rate	25Hz/30Hz/50Hz
Thermal Time Constant	<15ms
Digital Output Bits	14bits(25Hz/30Hz) 、13bits(50Hz)
Readout Mode	Progressive scan
Mirroring	X- and Y-axis mirroring
Non-Uniformity Correction	On-chip 6-bit non-uniformity correction
Power Consumption	<300mW(30Hz,300K)
Packaging Dimensions(Excluding pin size)	27mm×27mm×4.6 mm
Device Weight	≤10g
Packaging Type	56-Pin Ceramic
Output Polarity	White hot
Temperature Measuring Range (f/1. 0)	-40°C~+600°C
Operability Rate	≥99.5%
Input Interface	6-bits parallel input interface
Operating Temperature Range	-40°C~+85°C

Applications



Outdoor Night Vision



Handheld Devices



Safety Monitoring



Fire Prevention

Company Profile

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