

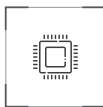
RTD6122C

High-Performance Ceramic Packaged LWIR Sensor

RTD6122C is a ceramic-packaged LWIR sensor (640×512, 12μm) based on vanadium oxide (VOx) microbolometer with an 8-14 μm wavelength range, high performance, low power consumption and high sensitivity. RTD6122C applies to multiple scenarios, e.g. outdoor night vision, fire prevention, etc.



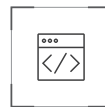
Resolution
640×512



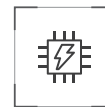
Pixel Size
12μm



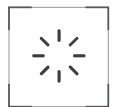
NETD
<40mk



High-
Performance



Low Power
Consumption



High
Sensitivity

Product Imaging



Specifications

Product Model	RTD6122C
Sensor Technology	Vanadium oxide microbolometer
Response Band	8-14μm
Pixel Pitch	12μm
Resolution	640×512
NETD	<40mK (f/1.0,50Hz,300K)
Frame Rate	≤60Hz
Thermal Time Constant	<12ms
Digital Output Bits	14bits
Readout Mode	Progressive scan
Mirroring	X- and Y-axis mirroring
Non-Uniformity Correction	On-chip 6-bit non-uniformity correction
Power Consumption	<170mW(50Hz,300K)
Packaging Dimensions(Excluding pin size)	22mm×22mm×4.58mm
Device Weight	≤6g
Packaging Type	32-Pin Ceramic
Output Polarity	White hot
Temperature Measuring Range (f/1. 0)	-40°C~+600°C
Operability Rate	≥99.5%
Input Interface	2-bits parallel input interface
Operating Temperature Range	-40°C~+85°C

Applications



Outdoor Night Vision



Industrial Temperature Measurement



Safety Monitoring



Fire Prevention

Company Profile

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Official Website



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