

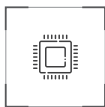
RTD6122C

High-Performance Ceramic Packaged LWIR Sensor

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



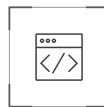
Resolution
640×512



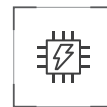
Pixel Size
12 μ m



NETD
<40mk



High-
Performance



Low Power
Consumption



High
Sensitivity

Product Imaging



Specifications

Model	RTD6122C
Sensor Technology	VOx microbolometer
Spectral Range	8-14μm
Pixel Pitch	12μm
Array Format	640×512
Operability	≥99.5%
NETD	<40mK (@f/1.0,50Hz,300K)
Thermal Time Constant	<12ms
Frame Rate	≤60Hz
Power Consumption	<170mW(@50Hz,25°C)
Output Format	14bits
Wide Dynamic Range Mode	Support -40~600°C temperature measurement (@f/1.0)
Read Mode	Rolling shutter mode
Mirroring	X-mirroring, Y- mirroring
Non-uniformity Correction	Non-uniformity correction
Operating Temperature Range	-40°C~+85°C
Package Type	32-pin ceramic
Size	22×22×4.58mm ³ (without pin)
Weight	≤6g

Applications



Outdoor Night Vision



Industrial Temperature Measurement



Safety Monitoring



Fire Prevention

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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