

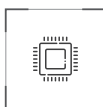
RTDS123C

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.



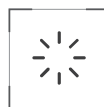
Resolution
 1280×1024



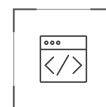
Pixel size
 $12\mu\text{m}$



NETD
<40mk



High
sensitivity



High-performance



High-quality
image

Product imaging



Specifications

Model	RTDS123C
Sensor Technology	VOx microbolometer
Spectral Range	8-14μm
Pixel Pitch	12μm
Array Format	1280×1024
Output Forma	14bits(25/30Hz) 13bits(50Hz)
Read Mode	Rolling shutter mode
Mirroring	X-mirroring, Y- mirroring
Operability	≥99.5%
Non-uniformity Correction	On-chip 6-bit non-uniformity correction
Frame Rate	25/30/50 Hz
Operating Temperature Range	-40~+85°C
Thermal Time Constant	<15 ms
NETD	<40 mK(f/1.0, 30Hz, 300K)
Power Consumption	<300 mW(30Hz, 25°C)
Package Type	56-Pin Ceramic
Size	27×27×4.6 mm ³
Weight	≤10 g

Applications



Outdoor Night Vision



Handheld Devices



Safety Monitoring



Fire Prevention

Company Profile

Raytron Microelectronics Co., Ltd., a subsidiary of Raytron Technology Co., Ltd., has the most comprehensive understanding of infrared thermal sensing technology worldwide.

Raytron has decades of in-house research, development and manufacturing experience in thermal sensors and camera modules.

Together with our global customers and partners, Raytron provides a better future and life for the world.

Get in Touch

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