



# OHLE 3123

## Uncooled Infrared Focal Plane Detector

Size comparison



The OHLE 3123 is a super-wafer-level-packaged (SWLP) long-wave infrared sensor (384×288, 12μm) based on vanadium oxide (VOx) microbolometer. Its innovative window design overcomes integration environment limitations. Compatible with SMT<sup>1</sup> mounting technology, it enables rapid mass production. It features with an ultra-compact size, an ultra-lightweight design, high-quality imaging and ease of integration. OHLE 3123 applies to multiple scenarios, e.g. outdoor night vision, industrial temperature measurement, security monitoring etc.



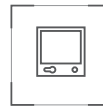
Ultra-Compact Size



Ultra-Lightweight Design



Ease of Integration

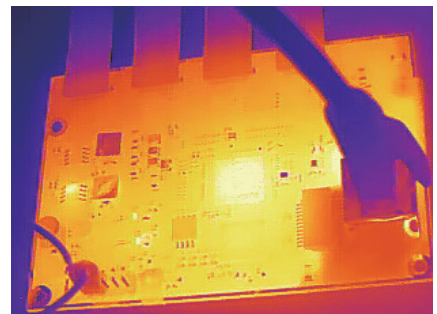
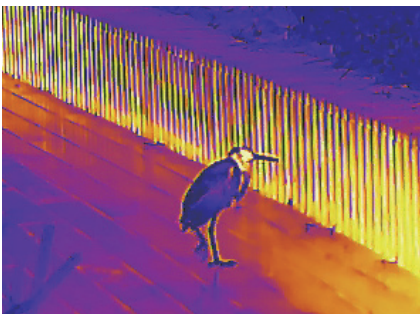


Innovative Window Design



High-Quality Image

### Product Imaging



Note: 1. SMT: surface mount technology 2. 5G SIM card: Nano-SIM card (4FF)

## Specifications

Technical Specifications	OHLE 3123
Sensor Technology	Vanadium oxide microbolometer
Resolution	384×288
Spectral Range	8~14μm
Pixel Pitch	12μm
NETD (f/1.0, 25Hz, 300K)	<40mK
Frame Rate	≤60Hz
Thermal Time Constant	<15ms
Digital Output Bits	14bits
Read Mode	Rolling shutter mode
Mirroring	X- mirroring, Y-mirroring
Non-uniformity Correction	Non-uniformity correction
Power Consumption (25Hz, 300K)	<65mW
Dimensions	10.4×10.4×4.3mm3
Package Weight	<0.6g
Package Type	36-Pin SWLP
Output Polarity	Black hot
Temperature Measurement Range	-40~600 C
Operability Rate	≥99.5%
Input Interface	I2C interface (MODE0)
	2bits parallel input interface (MODE1)
Operating Temperature Range	-40°C~+85°C

■ This information is for reference only. Images and technical specifications are subject to change without notice.

## Applications



## 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

Raytron Microelectronics Co., Ltd.  
 Phone: 400-998-9038  
 Email: marketing@raytrontek.com  
 Website: www.raytron-microelectronics.com  
 Version: PL202510V1