



OHLE 3123

Uncooled Infrared Focal Plane Detector

Size comparison



5G SIM card²



OHLE 3123

The OHLE 3123 is a super-wafer-level-packaged (SWLP) long-wave infrared sensor (384×288 , $12\mu\text{m}$) based on vanadium oxide (VOx) microbolometer. Its innovative window design overcomes integration environment limitations. Compatible with SMT¹ 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.



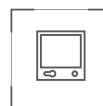
Ultra-Compact
Size



Ultra-Lightweight
Design



Ease of
Integration

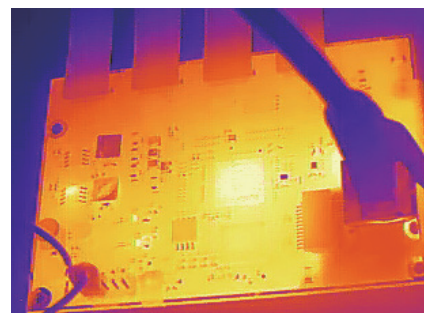
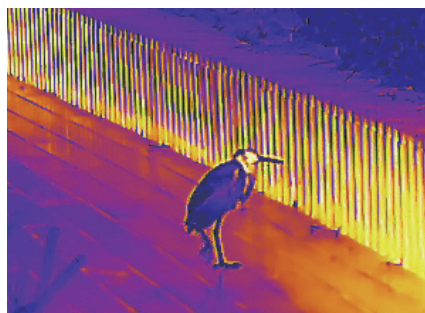


Innovative Window
Design



High-Quality
Image

Product Imaging



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

Specifications

Product Model	OHLE3123	
Sensor Technology	Vanadium oxide microbolometer	
Response Band	8-14μm	
Pixel Pitch	12μm	
Resolution	384×288	
NETD	<40mK(f/1.0,25Hz,300K)	
Frame Rate	≤60Hz	
Thermal Time Constant	<15ms	
Digital Output Bits	14bits	
Readout Mode	Progressive scan	
Mirroring	X- and Y-axis mirroring	
Non-Uniformity Correction	On-chip 9-bit non-uniformity correction	
Power Consumption	<60mW(25Hz,300K)	
Packaging Dimensions(Excluding pin size)	10.4mm×10.4mm×4.3mm	
Device Weight	≤0.6g	
Packaging Type	36-Pin SWLP	
Output Polarity	Black hot	
Temperature Measuring Range (f/1. 0)	-40°C~+600°C	
Operability Rate	≥99.5%	
Input Interface	I2C interface (MODE0) 2-bits parallel input interface (MODE1)	
Operating Temperature Range	-40°C~+85°C	

Applications



Outdoor Night Vision



Industrial Temperature Measurement



Security Monitoring



Civilian UAVs

Company Profile

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