Uncooled Infrared Detector

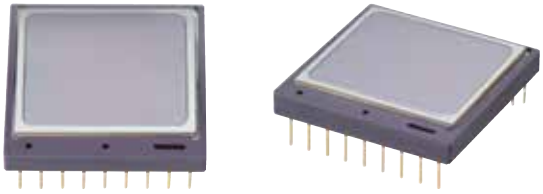
LWIR 1024 x 768 12㎛ DB1024-12C-A

Overview

DB1024-12C-A is the high performance 1024 x 768, 12㎛ micro-bolometer designed for industrial-commercial thermal imagers. Our higher performance uncooled infrared detector helps infrared camera manufacturers to lead the market in thermography, surveillance & security, car night vision and many other commercial markets.

Description

- DB1024-12C-A is an uncooled infrared detector with a reliable, small and lightweight, low input power focal plane array.



Ceramic Package

Main Features

- TECless operation
- Power supply : 5V for analog and digital
- Output dynamic range : 1V to 4V
- Image flip/mirror capability
- 27-lead ceramic vacuum package
- On-chip temperature sensor
- Typical responsivity : 10mV/K
- User defined windowing capability

Applications

- Security-Surveillance
- Night Vision
- Marine Navigation
- Next Generation Rifle
- Health and Medical
- Electrical Machinery Field

Images from the 2D IR detector

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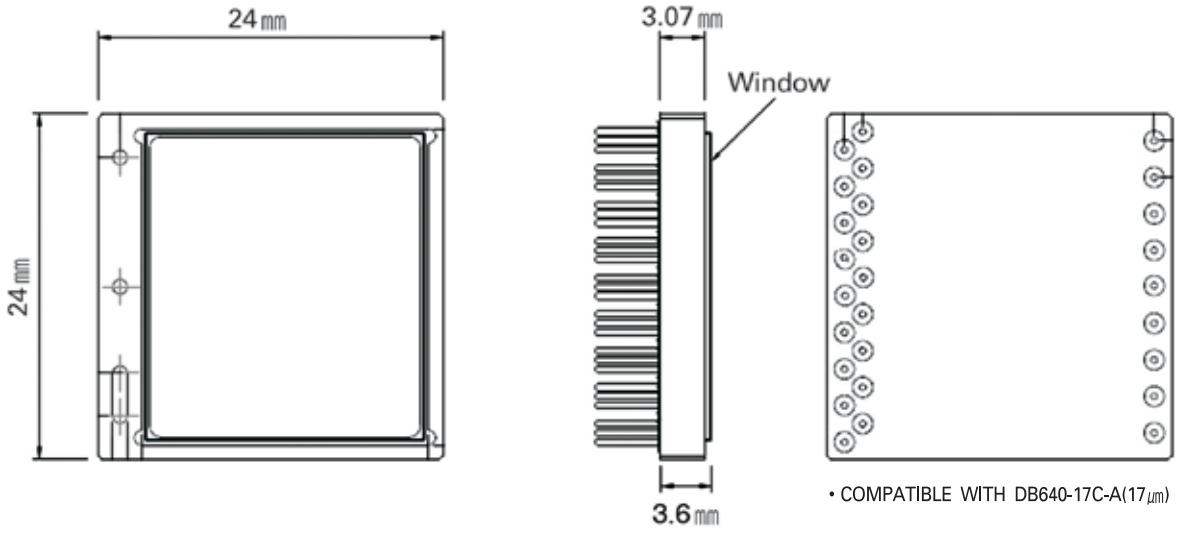
Specifications

Performance	
Detector type	Microbolometer (uncooled)
Array format	1024 x 768
Pixel pitch	12㎛
NETD	≤ 50mK or ≤ 55mK@ F/1, 300K, 30㎐
Operability	≥ 99 %
Frame rate	Max 30㎐
Video output	2ch
Thermal time constant	≤ 15㎳
Operating temperature	-40℃ ~ 65℃
Features	
Wavelength band	LWIR
Spectral range	8 ~ 14㎛
Dimensions	24(W) x 24(H) x 3.6(D)㎣ (Without pin)
Weight	≤ 7g
Windowing	Windowing capability

DB1024-12C-A Dimensions



• COMPATIBLE WITH DB640-17C-A(17㎛)