

# Uncooled Infrared Detector

LWIR 384 x 288 17  $\mu\text{m}$

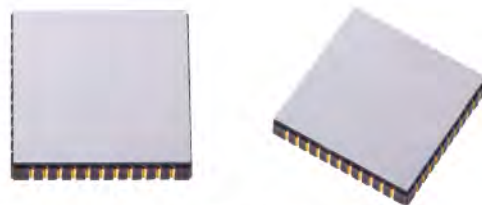
DB384-17C-A

## Overview

DB384-17C-A is the high performance 384x288, 17 $\mu\text{m}$  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

- DB384-17C-A is an uncooled infrared detector with a reliable, small and lightweight, low input power focal plane array.



Ceramic Package

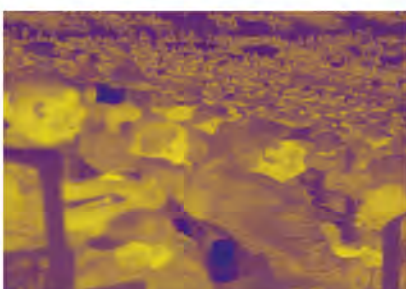
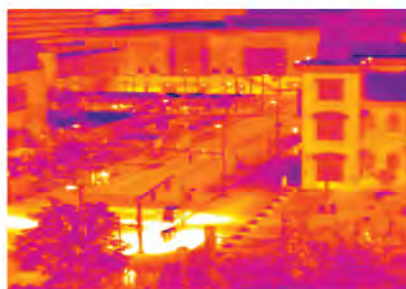
## Main Features

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

## Applications

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

## Images from the 2D IR detector



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## Specifications

Performance	
Detector type	Microbolometer (uncooled)
Array format	384 x 288
Pixel pitch	17 $\mu\text{m}$
NETD	$\leq 50\text{mK @ F/1, 300K, 30Hz}$
Operability	$\geq 99\%$
Frame rate	Max 60Hz
Video output	1ch
Thermal time constant	$\leq 15\text{ms}$
Operating temperature	$-40\text{ }^\circ\text{C} \sim 65\text{ }^\circ\text{C}$
Features	
Wavelength band	LWIR
Spectral range	8 ~ 14 $\mu\text{m}$
Dimensions	16.5(W) x 16.5(H) x 2.9(D) $\text{mm}^3$
Weight	$\leq 4\text{g}$
Windowing	Windowing capability

## DB384-17C-A Dimensions

