

MIR640 THERMAL CAMERA CORE

The MIR640 is the newest uncooled thermal camera core based on BAE Systems' MicroIR™ technology.

It's embedded display drivers and compatibility with third party optics make the MIR640 easy for commercial and military OEM's to integrate into vision systems.

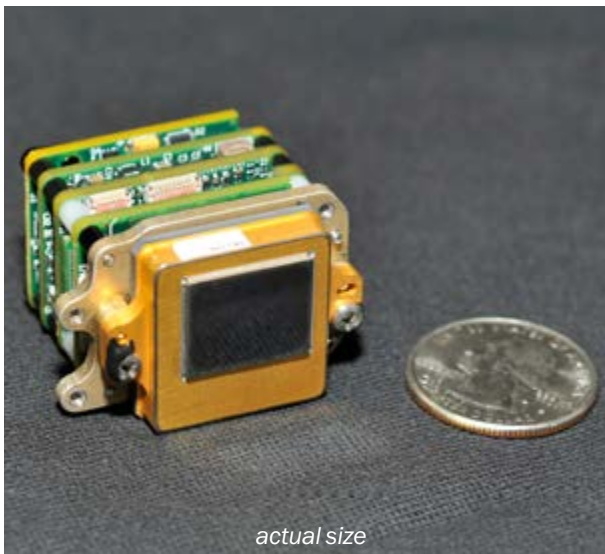
The 17 Micron, 640x480 thermal camera core offers product designers affordable performance in a compact, low-power module that captures fast moving details in dynamic scenes with 60 Hz frame rates.

Applications include:

Security and surveillance
Firefighting
Driving aids
Weapons systems
Commercial thermography

Key features:

Affordable performance
Low-power – 1.1W operation
High speed thermal imagery – 60 Hz
VGA – 640 x 480 resolution
Small form factor



TECHNICAL SPECIFICATIONS

Camera core features

DETECTOR

Detector type	Uncooled VoX microbolometer
NETD	<50 mK
Spectral response region	7.5 μm – 13.5 μm
Array format	640 x 480
Pixel pitch	17 μm
Frame rate	30 Hz, 60 Hz selectable

VIDEO PROCESSING

Standard	AGC, non uniformity correction, histogram equalization, .5X-2X ezoom
Custom	Space available for custom and user programmable features

INTERFACES

Video formats and interface	30p, 60p Parallel digital 1.8V I/O or analog RS170
Communications interface	LVTTTL UART (RS232); I2C LVTTTL (USB 2.0)
Power	1100 mW
Input voltage	2 to 5.5 VDC

OPERATIONAL

Operating temp	-40°C to +65°C
Storage temp	-46°C to +71°C

PHYSICAL

Size	26.2mm x 33.3mm x 33.5mm
Weight	40g

AFFORDABLE THERMAL IMAGING PERFORMANCE IN A COMPACT, LOW-POWER MODULE



MICRO IR™

For more information

BAE Systems
Sensor Solutions
2 Forbes Road
Lexington, MA 02421-7306
Telephone 603 566 1495
www.baesystems.com/sensorsolutions

Cleared for open publication on 03/13

Export of this product is regulated by the U.S. Department of State in accordance with the guidance of "International Traffic in Arms Regulation (ITAR)" per Title 22, Code of Federal Regulations, Parts 120-130.

Disclaimer and copyright

This document gives only a general description of the product(s) and service(s) and, except where expressly provided otherwise, shall not form any part of any contract. From time to time, changes may be made in the products or the conditions of supply.

BAE SYSTEMS is a registered trademark of BAE Systems plc.

©2013 BAE Systems. All rights reserved.

PUBS-12-K14-01 MIR640