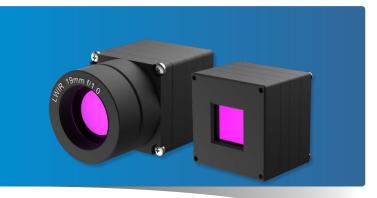




# **Thermal CORE - 640**

Long Wavelength Ultra Compact Infrared Uncooled Thermal Core Module



We present the breakthrough long-wave infrared (LWIR) module, the Thermal Core 640, which sets a new benchmark for performance & reliability with low size and weight, while being completely shutterless. With the thermal sensitivity of ≥50 mK and an automated gain control (AGC) filter, this cutting-edge technology, which is proudly built in India, ensures good picture contrast and sharpness in all situations.

The Thermal Core 640 can cement its place as the go-to thermal camera module for defence, industrial, and commercial integrators with an optimised  $12 \mu m 640 \times 480$  focal plane array (FPA) with easy-to-access interface options.

## **Typical Applications**





Airborne Systems

**Defence EO Systems** 

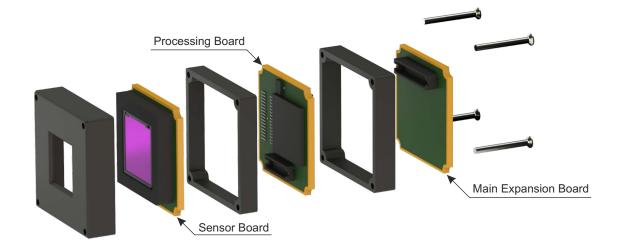


**Driving Vision Enhancement** 



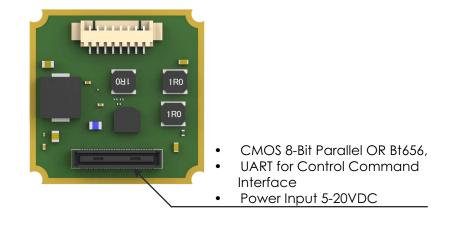
Security & Surveillance

### **EXPLODED VIEW**



### **EXPANSION DETAILS**

#### **Main Expansion Board**



#### **Thermal CORE**

#### **TECHNICAL DATA**

#### Detector

Detector type
Resolution
Pixel pitch
NETD
Spectral range
Refresh rate

## Video Processing

AGC
Bad pixel correction
Offset correction
Color Palette

#### Interfaces

Video output Communication interface

### Physical

Size Weight Power supply Mounting holes

## Operational

Operating Temperature Storage Temperature

### Optics

Lens Options

www.accuopt.com

Amorphous Silicon Microbolometer
640 x 480
12 µm
< 50 mk
8 -14 µm
50 Hz

Yes
Manual list based
Fully shutterless
4 Palettes

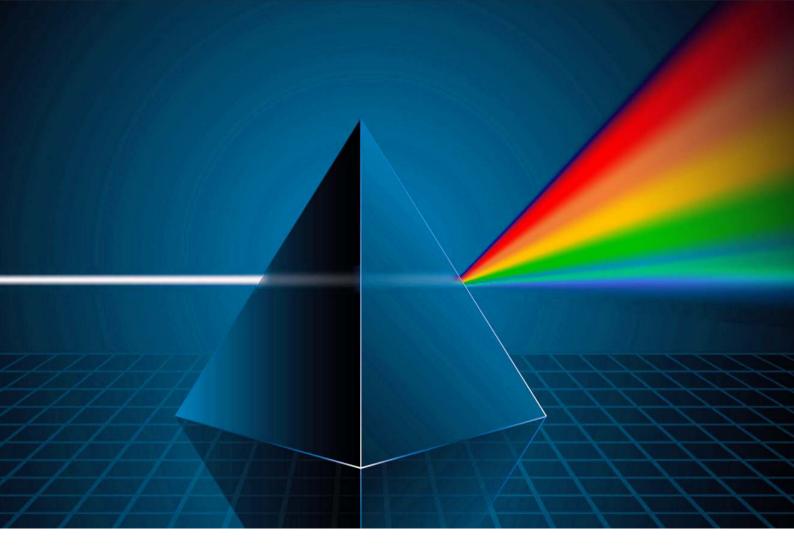
Digital [BT.656, CMOS 8-Bit Parallel] UART

30 mm x 30 mm x 26 mm (Without Lens) ~ 40 g (without Lens) 5 to 20 VDC 4 x M2 (front) (without Lens) 2 x M3 (4 side faces) (with Lens)

-40°C to +60°C -50°C to +70°C

Available





#### **ABOUT ACCURATE OPTOELECTRONICS**

AccuOpt – Accurate Optoelectronics Pvt Ltd. is a worldleading manufacturer of thermal imaging camera and solution. Based on technological innovations, AccuOPT Technology offers parts or end-to-end solutions for Industrial, Defense, Surveillance and Medical fields.

Specifications are subject to change without notice. Not responsible for errors or omissions. Accurate Optoelectronics Private Limited.



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