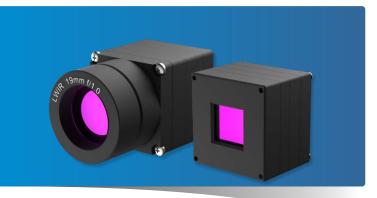




Thermal CORE - 640

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

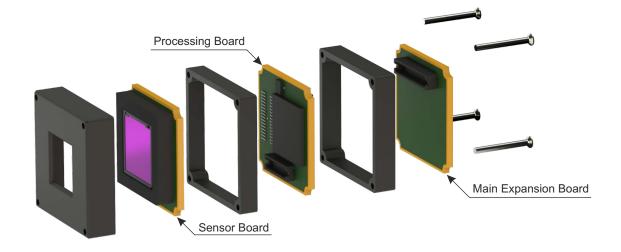


Driving Vision Enhancement



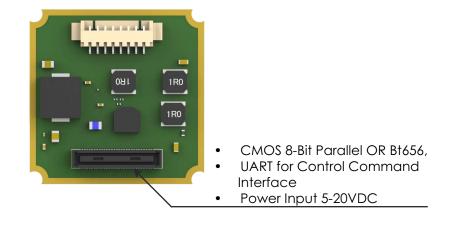
Security & Surveillance

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

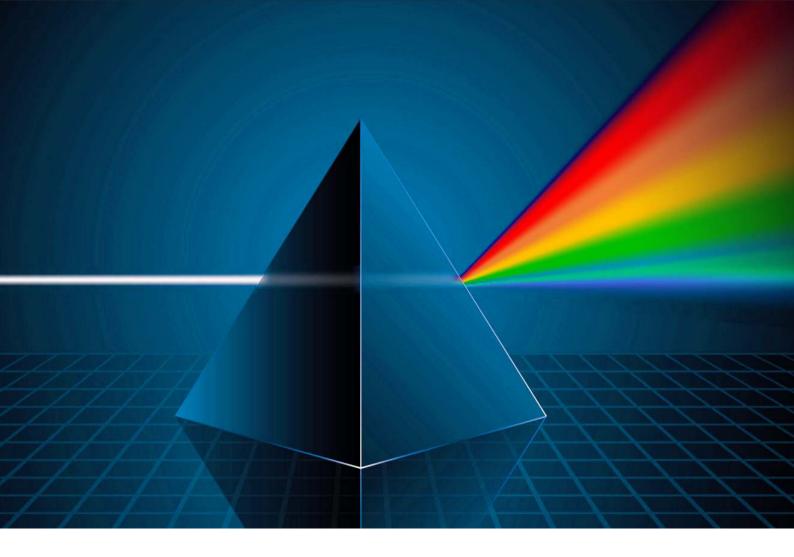
Digital [BT.656, CMOS 8-Bit Parallel] UART

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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