

ICC-TA640-150CZ

In order to propose one of the **Longest Range Uncooled Thermal Imaging Modules** to its OEM customers in Europe, Acal BFi is proposing the FLIR® Tau 2, 640 fitted with an outstanding yet affordable 150mm 6x Zoom Lens.



System Features:

THERMAL CAMERA MODULE (TCM)
 Detector Technology: Uncooled VOx Microbolometer
 Array Size: 640 x 480 pixels
 Pixel Pitch: 17 µm
 Spectral Band: 8-14 µm
 Sensitivity: <30 mK @ F/1.0 (grade I)
 Dimensions: 44 x 44 x 30mm

THERMAL LENS
 Focal Length: from 25mm to 150mm (9x continuous Zoom)
 Aperture: F/1.4
 Field Of View (FOV): from 25°x19° (Wide) to 4°x3° (Narrow)
 Focus & Zoom: motorized via RS422 interface
 Focus Time: < 8 sec
 Zoom Time: < 8 sec (from WFOV to NFOV)
 Dimensions: 133mm (L) x 141mm (Diameter)
 Weight: 1.9kg

VIDEO FORMAT
 Frame Rates: 30 fps or 9 fps
 Video: Analog (PAL) and Digital (14-bit/8-bit LVDS or CMOS)
 Automatic Gain and Level
 Digital Zoom and Pan: Region of Interest, E-zoom from 1X - 4X
 Non-Uniformity Correction: 1-point with shutter or through lens
 Time to First Image: < 5 seconds

POWER:
 Input Voltage: 12 VDC
 Power Dissipation (average): 6.2 W (1.2 for TCM, 5 for Zoom Lens)

FEATURES
 Available Command Protocols: RS232 (TCM) / RS422 (Zoom Lens)
 Digital Detail Enhancement (DDE)
 Color: 24-bit RGB False colors
 Polarity: White Hot / Black Hot
 Orientation: Invert / Revert
 Symbology: User selectable, including Zoom, Polarity and Shutter Notification

ENVIRONMENTAL
 Operating Temp Range: -40°C to +80°C
 Lens: Hard Carbon Coating, IP 67(front element only)

Product Description

Tau 2 640 with F/B, 25-150mm 6x continuous Zoom F/1.4 25° to 4° HFOV, 9Hz video

Part Number

ICC-TA640-150CZ-002

Tau 2 640 with F/B, 25-150mm 6x continuous Zoom F/1.4 25° to 4° HFOV, 30Hz video

ICC-TA640-150CZ-001

Range Performance :

Man - Detection/Recognition = 4000m/1200m (in NFOV)
 Man - Detection/Recognition = 900m/230m (in WFOV)
(These D/R values are valid in favorable conditions and should be used as estimates only.)

Highlights :

- Resolution 640 x 480 pixels
- 17 µm pixel pitch technology
- 6x motorized Continuous Zoom 25mm to 150mm Focal Germanium Lens
- Field of View from 25°x19° (Wide) to 4°x3° (Narrow)
- Analog and digital video outputs
- Integrated shutter for flat field correction

Nota Bene:

Specifications subject to change without notice.
 The commodities described herein may require U.S. Government authorization prior to export or re-export.