



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
 Powai, Mumbai 400076.

Ref No.1000053465

(Rfx No.6100002738)

**Technical Specifications : HIGH SPEED INFRARED THERMAL
 IMAGING CAMERA (Qty : 1)**

Sr. No	Item Description	Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1	<p style="text-align: center;">HIGH SPEED INFRARED THERMAL IMAGING CAMERA Model no: FLIR A6751</p>	<p>Part no: 29440-251 Infrared Detector FLIR A6751 640x512px – 125Hz full frame (400Hz in IWR mode at 320 x 256)- 15µm - InSb – 3- 5.0µm ,Detector type: InSb,Spectral range: 3µm to 5µm Resolution: 640 x 512,Detector Pitch: 15µm NETD:<20mK Operability: >99,8%,Cooling:Stirling cooler Readout Type: Snapshot ,Readout Modes: Asynchronous integrate while read Asynchronous integrate then Read Synchronization Modes: Sync-in, Sync-out Integration Time: 480 ns to full frame,Pixel Clock: 50 MHz Frame Rate (Full Window): Programmable; 0.0015 Hz to 125 Hz Subwindow Mode: Flexible windowing down to 16 x 4(steps of 16 columns, 4 rows),Dynamic Range: 14-bit Radiometric Data Streaming: Gigabit Ethernet (GigE Vision),Standard Temperature Range (with band matched optics): - 20°C to 350°C,Accuracy: ≤ 100°C ±2°C (±1°C typical), > 100°C ±2% of reading (±1% typical) Camera f/Number: f/2.5 17 mm Lens Interface: FLIR HDC (4-tab bayonet),Focus: Manual,Palettes: Selectable Automatic Gain Control: Manual, Linear, Plateau equalization, DDE Overlay: Fixed, can be turned off</p> <p>Lens Part no: 4215423 17mm lens, 3.0-5.0µm, f/2.5 (HDC Bayonet) Band matched lens, Spectral band : 3-5um,f/number: 2.5</p>		

		<p>Average Transmission: 85.90%,Distortion: 3.5% Focus range : 6 cm to Infinity Operating temperature: 0 to +50°C Storage temperature:-20 to +60°C Deg.,Horizontal field of view : 31.5 Deg.,Vertical field of view : 25.5 Interface: 4-Tab HDC Bayonet Lens calibration Part no: CAL-STD-ND0 Calibration 17mm lens 100C to 3500C Extender ring Part no: 4205079 Extender ring set, 0.25",0.5", 0.75" and 1" Software Part no: 4232590 Research Studio software, perpetual USB key FLIR Research Studio features multi-language and multi-platform support (Windows,MacOS, Linux) Fully analyse thermal data in unique and meaningful ways using multiple region-of-interest types, data plotting options, and customizable workspaces Quickly highlight important thermal trends and potential problems using the sophisticated image filters, multiple palette selections, and isotherms Optimize your workflow for unique thermal test captures with custom user calibration support and measurement functions Region of interest types: Spot, box, line (simple), line (multi-segment),ellipse, delta Region of interest options: ROI rotation, on-image statistics, ROI naming, colors, configuration, Speciality ROIs: segmentation, isotherms Filters: Image subtraction, sliding subtraction, image averaging, peak temp hold Statistics Plots: Customizable statistics table: min, max, mean, STD Plot types: Image metadata, temporal plot, line profile, cursor, image information AGC ROI</p>		
2	Warranty	One year		