

**TECHNICAL SPECIFICATION FOR HIGH SPEED CAMERA (MONOCHROMATIC)**

S.NO	FEATURES	SPECIFICATION	COMPLIED/NOT COMPLIED	Ref. Page No
1	High Speed Camera	<ol style="list-style-type: none"> <li>1. <b>Sensor Type:</b> CMOS (monochromatic)</li> <li>2. <b>Sensor's Full Resolution:</b> 4 Megapixels or higher</li> <li>3. <b>Frames per Second at 4MP Resolution:</b> 1000FPS or more</li> <li>4. <b>Frames per Second at 1MP Resolution:</b> 3500FPS or more</li> <li>5. <b>Maximum Frames per Sec at Minimum Resolution:</b> It should be possible to use camera at 150000 fps or more</li> <li>6. <b>Internal Storage:</b> Minimum 32GB or more</li> <li>7. <b>Recording time:</b> 5 Sec or more in full resolution@1000FPS</li> <li>8. <b>Pixel Size:</b> 5 µm or higher</li> <li>9. <b>Bit Depth:</b> 12 Bit or more</li> <li>10. <b>Mount:</b> C and F and EOS mount (necessary adaptors must be included)</li> <li>11. <b>Exposure time:</b> 2 µsec or lower at any frame rate.</li> <li>12. <b>Connectivity option and speed:</b> Ethernet and speed 8 GB or higher</li> <li>13. <b>Triggering Modes:</b> Software trigger and trigger via dedicated cable/switch, and Image-Based Auto-Trigger (IBAT) facility should be available. Trigger cable should be included.</li> <li>14. <b>Operating Temperature:</b> 10 to 50 degrees C</li> <li>15. <b>Control Software:</b> <ol style="list-style-type: none"> <li>(I) User friendly software need to be included to control the camera &amp; allow to play back the recorded video.</li> <li>(II) The camera control software should display the record parameters like</li> </ol> </li> </ol>		

		<p>frame rate, resolution, record duration, trigger mode, etc. before recording. mode, etc. before recording.</p> <p>(III) The camera control software should be capable to let the user review/ crop recorded video before saving.</p> <p><b>16. Suitability for particle imaging velocimetry (PIV):</b> Frames straddle time should be 3 microseconds or lower</p> <p><b>17. Installation:</b> Installation &amp; commissioning in IIT Madras</p> <p><b>18. Lenses:</b> Compactible objective lenses for this camera and storage case for camera and accessories should be quoted as optional items.</p> <p><b>19.</b> This Equipment should have been supplied to at least 2 IIT's, IISER or NIT's. User certificate should be produced.</p> <p><b>20.</b> One-year warranty is required onsite.</p> <p><b>21.</b> Please provide quotation for additional warranty.</p>		
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**(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the Above points with document proof as required. Failing which bidders will be technically disqualified)**