

Technical Specification:

9	1	High Speed Camera	<ol style="list-style-type: none"> 1. Sensor Type: CMOS (monochromatic) 2. Sensor's Full Resolution: 4 Megapixels or higher 3. Frames per Second at 4MP Resolution: 1000FPS or more 4. Frames per Second at 1MP Resolution: 3500FPS or more 5. Maximum Frames per Sec at Minimum Resolution: It should be possible to use camera at 250000 fps or more 6. Internal Storage: Minimum 36GB or more 7. Recording time: 6 Sec or more in full resolution@1000FPS 8. Pixel Size: 10 μm or higher 9. Bit Depth: 12 Bit or more 10. Mount: C and F and EOS mount (necessary adaptors must be included) 11. Exposure time: 1μSec minimum exposure ar any speed. 12. Connectivity option and speed: Ethernet and speed 8 GB or higher 13. Triggering Modes: Software trigger and trigger via dedicated cable/switch, and Image-Based Auto-Trigger (IBAT) facility should be available. Trigger cable should be included. 14. Operating Temperature: 10 to 50 degrees C 15. Control Software: <ol style="list-style-type: none"> (I) User friendly software need to be included to control the camera & allow to play back the recorded video. (II) The camera control software should display the record parameters like 	
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			<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>16. Suitability for particle imaging velocimetry (PIV): Frames straddle time should be 2 microseconds or lower</p> <p>17. Installation: Installation & commissioning in IIT Madras</p> <p>18. Lenses: Compactible objective lenses for this camera and storage case for camera and accessories should be quoted as optional items.</p> <p>19. This Equipment should have been supplied to at least 2 IIT's, IISER or NIT's. User certificate should be produced.</p> <p>20. One-year warranty is required Onsite.</p> <p>21. Please provide quotation for additional warranty.</p>	
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