

S.N.	Item Name	Technical Specifications
1.	High-speed camera	<p>I. Specifications for camera</p> <ol style="list-style-type: none"> 1. Sensor Type: CMOS, Monochrome 2. Sensor's Full Resolution: Minimum 1-Mega-pixel 3. Frames per Second at Full Resolution: 7500 fps or more 4. Maximum Frames per Sec at Minimum Resolution: It should be possible to use camera at 700,000 fps or more. 5. Internal Storage: Minimum 72 GB. 6. Recording time: 1 MP @ 7500 fps, 6.5s or more 7. Pixel Size: 20 μm or higher. 8. Bit Depth: 12 Bit 9. Continuously adjustable resolution (CAR): 64 X 8 10. Mount: F mount and C mount 11. Minimum exposure time: 1μs at any fps 12. Control Software: A PC based software program that should interface with the ethernet communication. The graphical user interface (GUI) should provide automatic configuration of camera, session saving for easy configuration and experiment setup reloads. The software should able to control the camera, image capturing, image processing and should also allow playback of the recorded videos. Further, the software should support for multiple devices. The software should able to provide output in standard video and image formats. 13. Connectivity option: Ethernet 14. Triggering Option: Hardware Trigger (BNC - Trigger), Software trigger 15. Operating Temperature: 0 to 50 degrees C or more 16. Weight: A maximum of 2.5 kg for the camera excluding accessories 17. Warranty: Two years from the date of installation. 18. Installation and service: Onsite (IIT Madras) installation and commissioning 19. Data transfer: 10Gb ethernet for fast data download. 20. Network: Network converter, 10GB NBase-T to Thunderbolt 21. Carry case: Portable Hard carry case with wheels. 22. PIV Features: Shutter-off mode with the straddle time of 400ns or lower, Support burst mode. 23. Vendors should provide contact details of reputed academic and/or R&D organizations to whom they have supplied high speed cameras in the last 5 years; feedback from these users may be used for technical evaluation.