**Booking Details**

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| https://lh7-rt.googleusercontent.com/docsz/AD_4nXciqfGKXPJTAmCyCaFQ3wsqWRUOKpvuILfnUvfz7U758U5TB9MI0fHPuM1WpeH6GTkmg9PPt5CfoYT6p_DVvo44y5Krl2jkvKOZqVNyFp27KF1zZfTjODloXHDo6Bkl8VnunTmJkfrFHNgKhnF0dA?key=bDITG1O0nM0XU-e-RLAucQ  **HIGH-SPEED CAMERA** | **Name of the equipment:**  HIGH-SPEED CAMERA  **Make & Model:**  PHANTOM- MIRO LAB110  **I-Stem Registration ID-**  **3224896**  **Category of Instrument**  Characterization and Testing  **Types of Analysis / Testing**  High speed motion  **Application:**  studying liquid splashes, bubble formation, turbulent flows  Monitoring fast assembly lines, welding, laser cutting, and material testing.  **Description of Instrument**  Phantom Miro Lab 110 is a high-speed camera designed for capturing fast-moving events with exceptional clarity. Its compact size, high resolution, and fast frame rates make it suitable for a variety of scientific, industrial, and research applications. |

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| **Book through I-STEM:**  <https://www.istem.gov.in/>  **Slot Booking Link**  [I-STEM Slot Booking link for External User](https://www.istem.gov.in/equipment-info/24896/High-Speed-Camera) | **Booking available for**  Internal and External Both  **Requisition form for**  Internals  Externals |

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| **Faculty In-charge:**  Dr. Basil Kuriachen  **Email ID:**  [bk@nitc.ac.in](mailto:bk@nitc.ac.in)  **Phone number:**  +91-9947187133 | **Contact Details**  **Technical Staff:**  Mr. Unni Krishnan(TA )  kishan@nitc.ac.in | **Department-** MED  **Office Email ID**  [medoffice@nitc.ac.in](mailto:medoffice@nitc.ac.in)  **Location**  FIST LAB, CAD/CAM CENTRE, Department of Mechanical Engineering  **Lab Phone No**  0495 228 6476 |

**Features, Working Principle and Specifications**

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| **Features of the equipment**   * High Resolution: Up to 1280 × 800 pixels at 1,480 fps. * High-Speed Capture: Up to 148,000 fps at reduced resolutions. * Compact & Lightweight: Ideal for lab and field use. | **Unique features/Measurement capabilities, if any**   * Global Shutter: Eliminates motion blur for crisp images. * Triggering & Synchronization: Works with external devices for precise timing. |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**   * Maximum Resolution -1280 X 800 * FPS at maximum resolution 1600 fps   Max. speed at a low resolution 128 X 8  up  to 400000 fps | **Measurement/Sample specifications:** |

**Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions**

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| * Quantity: * Sample Type: Any sample * Pre-preparation: * Maximum No. of Samples Accepted at a Time- 2 * Minimum No of Days Required for Analysis – 1 |

**User Charges Rs. (GST Extra)**

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| **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 150/hour | 300/hour+18% GST | 300/hour+18% GST | 300/hour+18% GST |