**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 flowsMonitoring 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** InternalsExternals |

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| **Faculty In-charge:** Dr. Basil Kuriachen**Email ID:**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**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.
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| **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 |