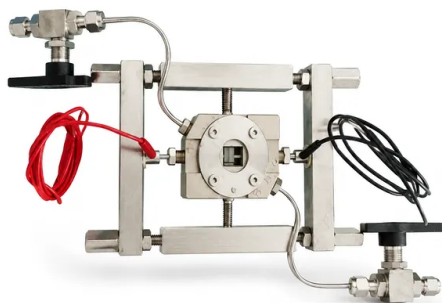


Optical Testing Solid State Battery Device For Microscopy Raman And Infrared Cross Section Analysis

Item Number: BE11



Introduction

Optical testing solid state battery device with compact fixtures for microscope, Raman, and infrared cross section analysis, including venting configuration for advanced battery research. Supports precise laboratory characterization, flexible sample dimensions, and controlled access for materials science and cell development.

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Application	Description	Key Benefit
Solid-State Battery Cross-Section Testing	Position solid-state battery samples for direct examination of cross-sectional structures using laboratory optical methods.	Supports practical inspection of internal battery features during research and development.
Optical Microscopy	Use the fixture with an optical microscope to observe prepared battery cross sections and visible material interfaces.	Provides a dedicated holding solution for small battery samples during microscopic observation.
Raman Cross-Section Analysis	Apply Raman testing to solid-state battery cross sections for laboratory investigation of material regions and interfaces.	Enables the same sample fixture concept to support vibrational spectroscopy workflows.
Infrared Cross-Section Analysis	Integrate the equipment into infrared testing procedures for cross-sectional analysis of solid-state battery samples.	Broadens characterization options without requiring a separate sample-holding approach for each optical method.
Venting Optical Testing	Select the venting configuration when optical microscopy, Raman, or infrared cross-section testing requires gas access.	Supports test procedures that require a venting-compatible fixture arrangement.
Battery Materials Research	Use the equipment in advanced materials laboratories studying solid-state cell components and their cross-sectional characteristics.	Combines defined sample capacity with compatibility across multiple optical techniques.
Academic Cell Development	Support university and research-institute experiments involving small-format solid-state batteries and optical characterization.	Offers two fixture configurations to match different sample dimensions and experimental setups.

Specification	BE11 Standard Optical Testing Configuration	BE11 Venting Optical Testing Configuration
Configuration	Optical testing solid state battery device	Venting optical testing solid state battery device
Maximum battery inner diameter	≤10 mm	≤12 mm
Maximum battery thickness	≤3 mm	≤6 mm
Fixture length	115 mm	188 mm
Fixture height	28 mm	17.5 mm
Fixture width	60 mm	110 mm
Optical microscope cross-section testing	Available	Available with venting configuration
Raman cross-section testing	Available	Available with venting configuration
Infrared cross-section testing	Available	Available with venting configuration
Gas access	Not specified for this configuration	Venting type