

Grating Monochromator

BRM-650X Series

The BRM-650X Series is a pre-configured 250mm focal length grating monochromator, covering an ultra-wide spectral range of 200–2200nm. Each monochromator is aligned and calibrated at the factory for this fully assembled, turn-key instrument. BRM-650X featuring an M-type optical path design, it delivers superior optical resolution for precision applications.

Key Features:

- Auto-Grating Switching: Ensures optimal diffraction efficiency
- Modular Expandability: Compatible with filter wheels, and other accessories for advanced applications
- Coaxial Grinding Turret: Supports 1 to 4 gratings

In addition to the pre-configured monochromators, additional customization options include wavelength range, and grating configurations (Wavelength range and Blaze wavelength), to best fit your required application needs.



Features

- Broad Spectral Range: Covers 200~2200nm for versatile applications
- Built-In Electronic Shutter: Supports remote control for automated operation
- Flexible Grating Configuration: Supports 1ea to 4ea gratings
- Intuitive Control Software: Feature-rich functionality & User-friendly interface

Applications

- Photodetector Quantum Efficiency Testing
Accurate spectral responsivity measurement
UV-VIS-NIR characterization
- Advanced Spectroscopy
Fluorescence/Raman spectroscopy
Absorption/Transmission spectral analysis
- Precision Light Calibration
Single-wavelength power calibration
Reference light source verification
- Electrochemical & Biocatalytic Studies
Photoelectrochemical reaction monitoring
Enzyme activity spectral detection

Specifications

Spectrometer	Model	BRM-6501	BRM-6502	BRM-6503		
Optical power meter	Grating Spec.	1200 lines		1200 lines/600 lines		
		Blaze Wavelength: 500nm	Blaze Wavelength: 500nm/800nm	Blaze Wavelength: 500nm/800nm/1800nm		
Wavelength Range	200~1100nm		200~2200nm			
Wavelength Accuracy	$\leq \pm 0.5\text{nm}$		$\leq \pm 1\text{nm}$			
Focus Lens	250mm					
Stray Light	< 0.0002					
Electronic Shutter	Included, remote control supported					
Filter Wheel	Optional, electric control					
Dimension	331×295×167mm					

Dimensions (mm)

