

# 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

Model	BRM-6501	BRM-6502	BRM-6503
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	≤ ±0.5nm		≤ ±1nm
Focus Lens	250mm		
Stray Light	< 0.0002		
Electronic Shutter	Included, remote control supported		
Filter Wheel	Optional, electric control		
Dimension	331×295×167mm		

Dimensions (mm)

