

Tunable Light Source (QTH)

BRS-8001

The tunable light source system adopts a modular design, integrating a xenon or tungsten lamp with the BRM-650X series grating monochromator to form a versatile tunable monochromatic light source. It covers a broad tuning range from ultraviolet (UV) to near-infrared (NIR).

This system can be equipped with optional accessories such as filter wheels, optical fibers, shutters, integrating spheres, and power meters. It is ideally suited for a broad range of applications including:

- CMOS/CCD quantum efficiency and spectral response measurements
- Solar cell quantum efficiency testing
- Detector response characterization
- Fluorescence excitation
- Photochemical research

This flexible and high-performance system meets diverse testing requirements across multiple scientific and industrial fields.



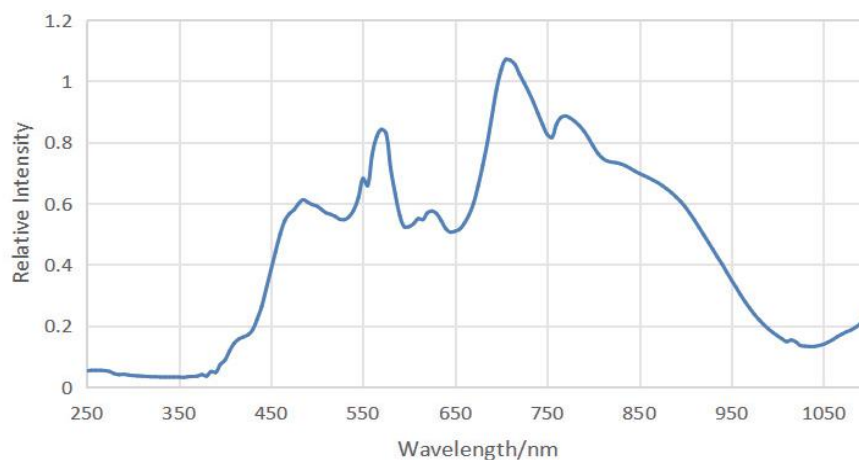
Features

- Wide Continuously Tunable Spectrum: 200-2200nm
- Factory-Installed Multi-Grating System: Pre-configured for customer-specific needs
- Factory-Calibrated Wavelength Output: Ensures high wavelength accuracy
- Flexible Output Options: Fiber optic output, integrating sphere output, free-space output, etc.
- Extensive Optional Accessories: Configurable for diverse applications
- Control and Data Acquisition software: included

Applications

- CMOS/CCD quantum efficiency and spectral response measurements
- Solar cell quantum efficiency testing
- Detector response characterization
- Fluorescence excitation
- Photochemical research

Typical Spectrum



Specifications

Item	Specifications
Tunable Range	250~1800nm
Lamp Type	QTH
Lamp Power	150W
Spot Size	4mm×14mm (After Filter Wheel with 3mm Slit)
Spectral Bandwidth	0.15-10nm
Wavelength accuracy	0.5nm~ 5 nm
Wavelength repeatability	±0.2 nm
Lamp Life	500h
Communication Interface	USB
Size	736×295×170mm
Weight	16kg

Dimensions (mm)

