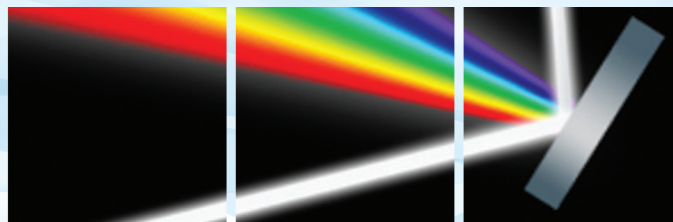




OBB Monochromator

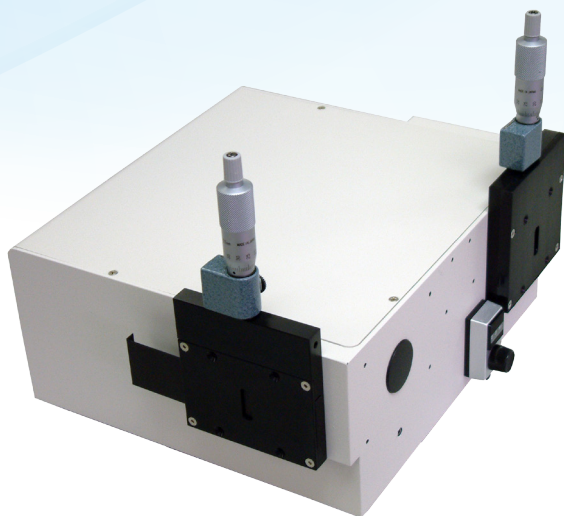
ELEMENTAL ANALYSIS
FLUORESCENCE
GRATINGS & OEM SPECTROMETERS
OPTICAL COMPONENTS
FORENSICS
PARTICLE CHARACTERIZATION
RAMAN
SPECTROSCOPIC ELLIPSONOMETRY
SPR IMAGING

200 mm meter czerny-turner monochromator



OBB's quarter-meter class, Czerny-Turner type monochromators are extremely rugged and versatile, and are available in single and dual-grating versions. They come in four different optical configurations and can be configured for dual inputs and outputs.

Our monochromators feature manual digital wavelength control with a wavelength readout indicator. Motorizing options are available for computer control of wavelength, as well as an optional internal computer controlled shutter.



Applications

Applications for OBB monochromators cover a broad range of scientific, OEM and research applications. These monochromators are used as the tunable, scanning optical elements for a variety of spectroscopy systems.

Monochromator for,

- Fluorometers
- UV /Vis spectrometers
- CD spectrometers
- Stopped-Flow spectrometers
- Tunable illuminators

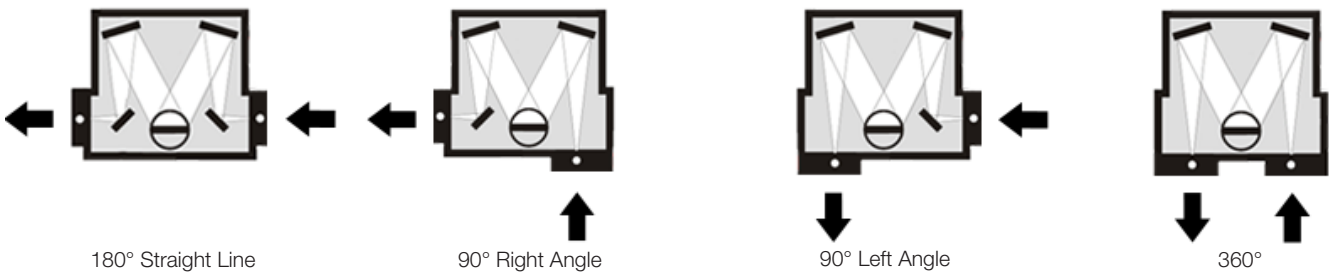
These monochromators are also used for a broad a range of applications almost as diverse as the wavelength range across which they emit.

- Photochemistry
- Photo-activation
- Photobiology
- Photovoltaics
- Spectroscopy
- Optical teaching labs

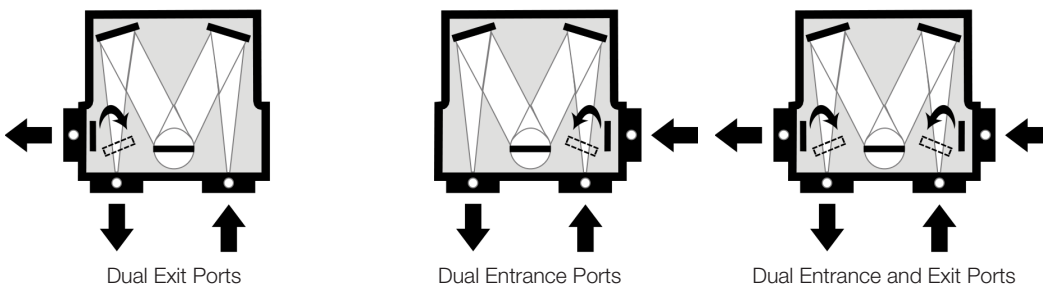
Specifications using standard 1200 line/mm ruled grating

Focal length	200 mm
Aperture ratio	f/4 (calculated using grating width)
Wavelength range	180 nm to 24 microns (grating dependent)
Bandpass	Continuously adjustable from 0 to 25 nm (1,200 g/mm)
Reciprocal linear dispersion at slit	4 nm/mm (1,200 g/mm)
Resolution	0.25 nm (1,200 g/mm)
Throughput	Approximately 60% at 300 nm
Scattered light	0.02% two bandwidths from 365 nm Hg line
Stray Light	10 ⁻⁴ (typical)
Accuracy	+/-1 nm (using manual wavelength control)
Accuracy	+/- 0.25 nm (using motorizing option under computer control)
Reproducibility	+/-0.25 nm
Optical path height	76 mm
Grating size	50 x 50 mm

The OBB Monochromator has four optional ports



You can also elect as an option to have two entrance ports and two exit ports.



OPTICAL BUILDING BLOCKS



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Scientific

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