

Omni-λ180Di / Omni-λ180D

Omni-λ180Di Subtractive Double Monochromator

An integrated 180 mm double monochromator in subtractive dispersion. Two matched stages suppress stray light for monochromatic excitation and detector-response calibration.

Best suited to: Measurements where a small out-of-band contribution can dominate a weak signal.



Configuration

Choose the output bandwidth and usable wavelength range with the source and detector. This subtractive configuration provides monochromatic output; select an additive double spectrograph when an array spectrum is needed.

Specifications

Published parameters	
Focal length	180 mm
Aperture	f/3.9
Grating	40 × 40 mm
Resolution	0.25 nm
Dispersion	3.7 nm/mm
Wavelength accuracy	±0.2 nm
Repeatability	±0.1 nm
Stray light	$<1 \times 10^{-9}$
Control	USB 2.0

Measurement features

- Integrated dual-stage optical bench.
- Software-controlled wavelength scanning and intermediate slit.
- Dual gratings for configurable UV-visible-NIR coverage.

Configuration note

Optical figures are published for a 1200 lines/mm grating. The source uses both 180Di and 180D names.

Full configuration: www.precisometer.com/spectroscopy/spectral-imaging/omni-180di