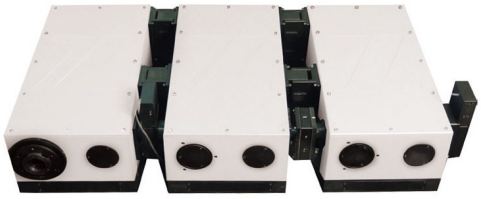
Triple Monochromator for Raman, Subtractive and Additive Dispersion Stages

Model Triple Monochromator · waveqvanta.com/products/triple-monochromator-for-raman

Three-stage monochromator for UV-excited and low-wavenumber Raman measurements.



This triple spectrometer links three finely aligned image-corrected monochromators. The first two stages work in subtractive dispersion to suppress stray light, and the last two work in additive dispersion to increase resolution. With tunable wavelength and an adjustable notch, it is used mainly for demanding Raman measurements such as UV-excited and low-wavenumber Raman, and it can also run as a single, double or triple monochromator.

Key features

- Three image-corrected monochromators in series
- First two stages in subtractive dispersion mode for stray light reduction
- Last two stages in additive dispersion mode for higher spectral resolution
- Selectable single, double or triple monochromator operation
- Tunable wavelength with adjustable notch
- Uses 68 × 68 mm holographic or ruled gratings (datasheet grating table: 50–3600 g/mm)

Specifications

Configuration	Three image-corrected monochromators
Stage Coupling	Stages 1–2 subtractive (stray light); stages 2–3 additive (resolution)
Operating Modes	Single, double or triple monochromator
Notch	Adjustable, with tunable wavelength
Grating Size	68 × 68 mm
Holographic Grating Options	1200–3600 g/mm, blaze 250–700 nm, coverage 180–1200 nm
Ruled Grating Options	50–2400 g/mm, blaze 240 nm–12 µm, coverage 190 nm–22 µm

Typical applications

- UV-excited Raman spectroscopy
- Low-wavenumber Raman spectroscopy
- Weak-signal spectroscopy requiring high stray light rejection
- High-resolution spectral measurements