

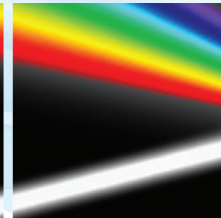
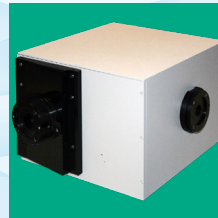


Triax Series

Short Focal Length Imaging Spectrometers

ELEMENTAL ANALYSIS
FLUORESCENCE
GRATINGS & OEM SPECTROMETERS
OPTICAL COMPONENTS
CUSTOM SOLUTIONS
PARTICLE CHARACTERIZATION
RAMAN / AFM-RAMAN / TERS
SPECTROSCOPIC ELLIPSOMETRY
SPR IMAGING

TRIAx imaging spectrographs, the best choice for your spectroscopic measurements



The TRIAX series use special corrective optics that maintain an excellent image quality and resolution along the length of the slit as well as along the dispersion axis in the exit focal plane. Thus, a point source on the entrance slit is re-imaged as a point for every occurrence of its wavelength in the focal plane. This makes TRIAX instruments the ideal spectrographs for a wide application range of high resolution multichannel spectroscopy.

All TRIAX spectrographs have been optically optimized by using toroidal mirrors and an asymmetric optical path for superb exit imaging quality with the lowest re-entrant and stray light. TRIAXs are also equipped with larger focusing mirrors for a maximized non-vignetted and maximum optical throughput.

Each spectrometer in the TRIAX series can be provided with up to three gratings mounted in a single turret. This allows for tremendous flexibility in the choice of the

gratings for optimum resolution and desired spectral range.

The turret in the TRIAX series is the result of our latest technology. Our unique patented on axis triple grating turret, allows the TRIAX to maintain on-axis grating rotation during scanning, keeping a constant f number and image quality whatever the working grating and its position. A high-speed drive and precise motorized slits fully automate the adjustments on the TRIAX.

Several options are available such as automated port selection on the both entrance and exit, filter wheel drive capability, microstep motor, 2 or 7 mm, maximum slit aperture, dual array capability, tiltable flange accommodating to most array detectors, and single channel detectors as PMT, solid state detectors. A comprehensive range of accessories such as light sources, sample compartments, fibers, detectors, software can be supplied with our TRIAX.

Features and Benefits

- Low cost triple grating spectrometer
- Patented grating turret design
- Good image quality
- Monochromator or imaging spectrograph
- Optional second exit port (Triax 190)
- USB interface



Specifications

Focal Length	0.19 meters
Entrance Aperture Ratio	f/3.9
Grating Size	50 mm × 50 mm
Image magnification at the exit	1.00
Scanning range with 1200 gr/mm grating	0–1400 nm
Multichannel coverage (over 30 mm)	106 nm with 1200 gr/mm grating
Focal plane	30 mm wide × 12 mm high
Spectral dispersion with 1200 gr/mm grating	3.53 nm/mm
Spectral resolution as a scanning monochromator with 1200 gr/mm grating	0.3 nm
Wavelength positioning accuracy	± 0.3 nm
Wavelength repeatability	± 0.06 nm
Wavelength drive step size for 1200 gr/mm grating	0.06 nm
Dimensions	10.5" (L) x 9.25" (W) x 7.35" (H) 26.7 cm (L) x 23.5 cm (W) x 18.7 cm (H)
Weight (approx.)	25.4 lbs (11.5 kg)

*All specifications with 1200 gr/mm grating, array with 26 micron pixels

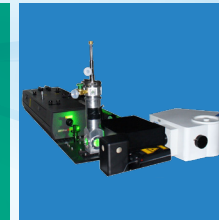
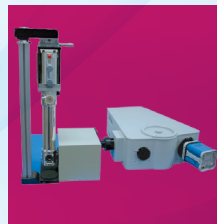
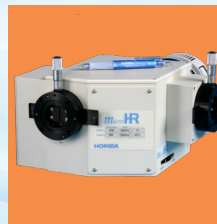
** 400 nm

Specifications subject to change without notice.

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