



Measurements you can trust

SuperFlux™

Raman Analyzer

FIT-FOR-PURPOSE RAMAN ANALYZER

Tornado's SuperFlux™ (SFx) lab-scale analyzer is the ideal Raman Analyzer for lab-scale applications and for those who require lower spectral resolutions. The SFx is built on the same platform as our most robust and powerful analyzers, with HTVS™ technology, for which Tornado analyzers are known for.



HIGHER RAMAN SENSITIVITY THAN EVER BEFORE POSSIBLE

Sensitivity, Speed and Safety

FEATURES & BENEFITS



COMPACT DESKTOP SIZE RAMAN ANALYZER



EMBEDDED CPU - NO EXTERNAL LAPTOP NEEDED



FIT-FOR-PURPOSE LAB-SCALE RAMAN ANALYZER



REAL-TIME NON-DESTRUCTIVE MONITORING AND ANALYSIS

OPC UA CLIENT FOR REMOTE CONTROL

EASY INSTALLATION AND OPERATION

HIGH THROUGHPUT VIRTUAL SLIT (HTVS™)

Tornado's proprietary HTVS™ design eliminates spectrometer slit losses while maintaining high spectral resolution. This allows for the best possible combination of signal strength and spectral resolution in a dispersive spectrometer and results in an order of magnitude improvement in sensitivity.



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APPLICATIONS:

- ACADEMIC LABS
- AGRICULTURAL
- CELL CULTURE
- ENVIRONMENTAL
- FOOD
- POLYMERS



Technical Specifications

LASER	785 nm wavelength, Configurable power output from 5 to 495 mW
FIBER OPTIC INTERCONNECT	LC Duplex (excitation/collection) Fiber break detection Dual interlock optional expansion
FIBER LENGTH	2 m standard - Different lengths available upon request
X-AXIS	Spectral Range: 200-3300 cm^{-1} Wavenumber Stability: $\pm 0.1 \text{ cm}^{-1}$
Y-AXIS	Dynamic Range: 20,000 counts (pre-calibration)
COMMUNICATIONS	LAN (Gigabit Ethernet) OPC UA Modbus TCP
STANDALONE PREDICTION	SIMCA .usp PEAXACT .pxm
USB EXPANSION ACCESSORIES	HDMI (external display) Triple USB (keyboard, mouse, or accessory)
ELECTRICAL	100 V to 240 V AC line power; 45 W
DIMENSIONS	15.8 x 11.3 x 5.4 in (40.1 x 28.8 x 13.6 cm)
WEIGHT	12 lbs (5.4kg)



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