

XploRA ONE™



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Laser options: Integrated internally - 532nm or 785nm CLS high brightness lasers optimised for micron resolved measurements

Spectral range: 100cm^{-1} to 3500cm^{-1} minimum range in **ONE-shot** operation (depending upon laser)

Spectrograph: Imaging flat field spectrometer for use with large area CCD detector
High throughput/sensitivity

Laser power control: 6 position ND filter module - PC controlled

Detector: 1024x256 TE air-cooled scientific CCD, USB control, no maintenance vacuum, 16 bit and up to 1.48 MHz readout speed. Offering improved sensitivity and fast Raman acquisition.

Microscope: Materials/clinical light microscope. Optimised for stability with high quality optics and ergonomic design. Includes Kohler illumination for transmission and reflection illumination, abbe condenser, 10x and 50x objectives (100x objective optional)

Confocal sampling: Rugged confocal spatial filtering, offering maximum $1\mu\text{m} \times 1\mu\text{m}$ lateral resolution for micron scale Raman analysis and imaging (where 100x objective used).

Computer: Desktop PC with monitor, keyboard and mouse, pre-loaded with Windows 7™ 32-bit and LabSpec 6 spectral software suite

Environment / Dimensions

Weight: 35Kg (77lbs)

Size (WxHxD): 449mm x 626mm x 352mm

Operating temperature: 15°C -28°C optimal environmental temperature range

Voltage: 110/240 VAC standard mains supply

Other: #no water cooling or LN₂ supply required

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