



Ocean HDX Raman Spectrometer



Compact, Affordable Spectrometer for 785 nm Raman Excitation

The Ocean HDX Raman spectrometer is a compact, high-performance spectrometer for 785 nm Raman excitation applications. This small-footprint instrument unlocks Raman response from 150 cm^{-1} to 3400 cm^{-1} , is available with a 25 μm or 50 μm entrance slit, and can be combined with a laser, probe and sample holder to measure solids, powders and liquids. Applications range from authentication of spirits and analysis of cannabinoids, to identification of polymers and characterization of pharmaceutical ingredients.

**APPLIED
SPECTRAL
KNOWLEDGE**

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At a Glance

Detector: Back-thinned CCD

Dimensions: 88.9 x 63.5 x 52.4 mm;
3.5 x 2.5 x 2.1 in

Weight: 400 g; 0.88 lb.

Raman shift: 150 cm^{-1} to 3400 cm^{-1}

Excitation wavelength: 785 nm

Optical resolution: 9 cm^{-1} at midpoint of shift
(w/25 μm slit)

Signal-to-noise ratio: 400:1

Dynamic range: 12000:1

Integration time: 6 ms-10 s

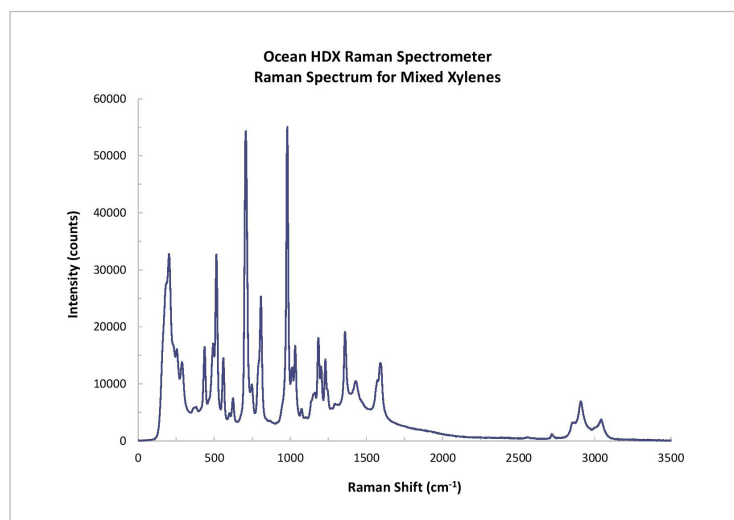
A/D resolution: 16-bit

Input fiber connector: SMA 905

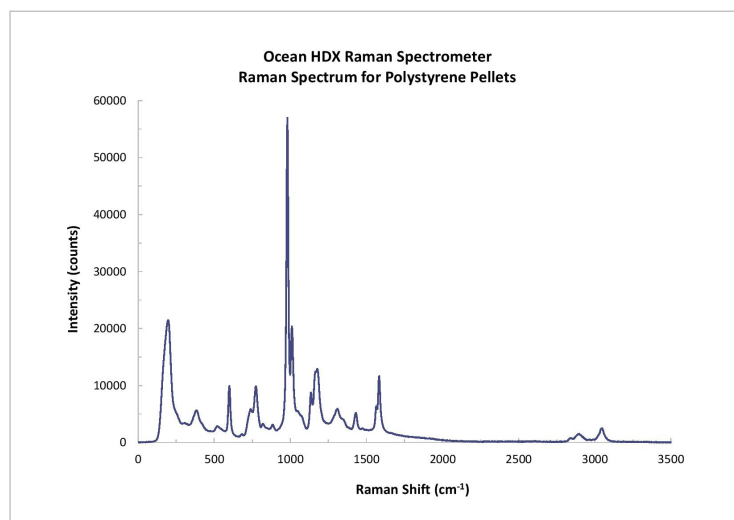
Communication: USB 2.0, Gigabit Ethernet,
RS-232

Making Raman More Accessible

Ocean HDX Raman is an excellent option for your 785 nm Raman spectroscopy needs. Less expensive than traditional scientific-grade Raman instruments yet sacrificing very little in performance, Ocean HDX Raman is within reach to a wider range of users, including university teaching and research labs, budget-limited start-ups, and anyone that appreciates great value. In addition, Ocean HDX Raman is attractive for integration into other products, offering the advantages of small size and light weight, plus thermal stability, and Ethernet connectivity.



Xylene samples were measured using an Ocean HDX Raman with 25 μm slit for good resolution.



Ocean HDX Raman is a good option for measuring hydrocarbon polymers like polystyrene.

For more information on the Ocean HDX Raman, please contact an Ocean Insight Application Scientist today.