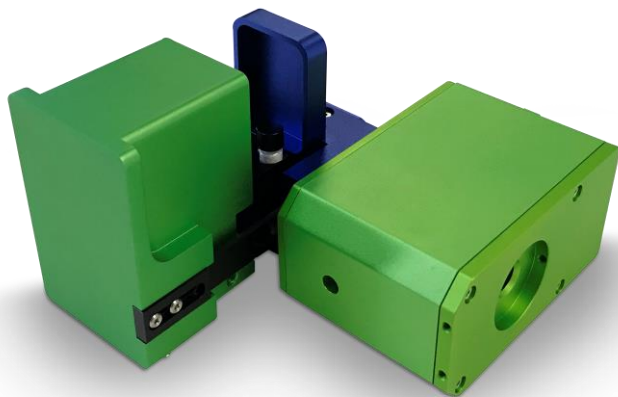


THz-Raman® FloodLight™ Sampling Accessory



FloodLight™ Sample Accessory Mounted to vial adapter

FEATURES

- Expands a 20 μm collection and illumination focus to a time-averaged 2 mm focus.
- Mounts directly to the TR-PROBE or to the side port of the Ondax Microscope Adapter using Ondax's universal dovetail mount.
- Simple operation: plug in 12V power supply and turn on power switch.
- Easily extendable with other sample holders using Ondax's universal dovetail mount. Shown above with a vial adapter.

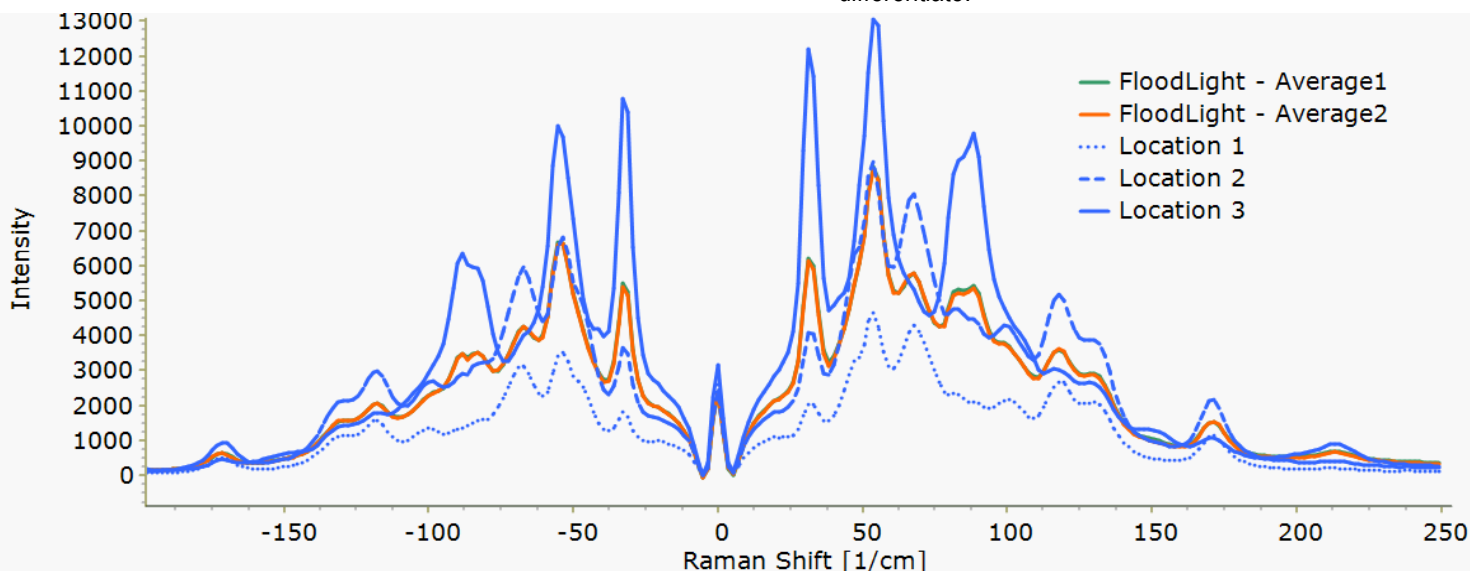
The new Ondax **FloodLight™** module expands the sampling options for our THz-Raman® sample accessories. Used in conjunction with the **TR-PROBE**, it effectively expands the excitation laser focus to 2 mm from 20 μm (when using a 15 mm focal length objective)

This expansion can be very beneficial when multiple components are present and affect backscatter measurements, particularly with pharmaceutical tablets or pills, as in the example below.

The accessory can be easily removed from the probe and swapped with other TR-PROBE accessories via the dovetail mount on the front of the probe (see reverse side).

Compatible with all TR-PROBE models: 532nm, 785nm, 808nm, 976nm and 1064nm.

Comparison of backscatter measurements on an Excedrin® tablet: The backscatter Raman spectra from different locations on the tablet (blue solid, dotted and dashed), were measured by pulsing the FloodLight accessory and waiting for it to stop at pseudo-random positions on a tablet. The spectra, in blue, differ in shape and/or peak intensity and it is clear that they originate from different chemical entities. Setting the FloodLight accessory to continually spin, effectively increases the laser focus spot size from 20 μm diameter, to a time-averaged spot of 20 mm diameter (green and orange traces). Note these are so similar that they are difficult to differentiate.

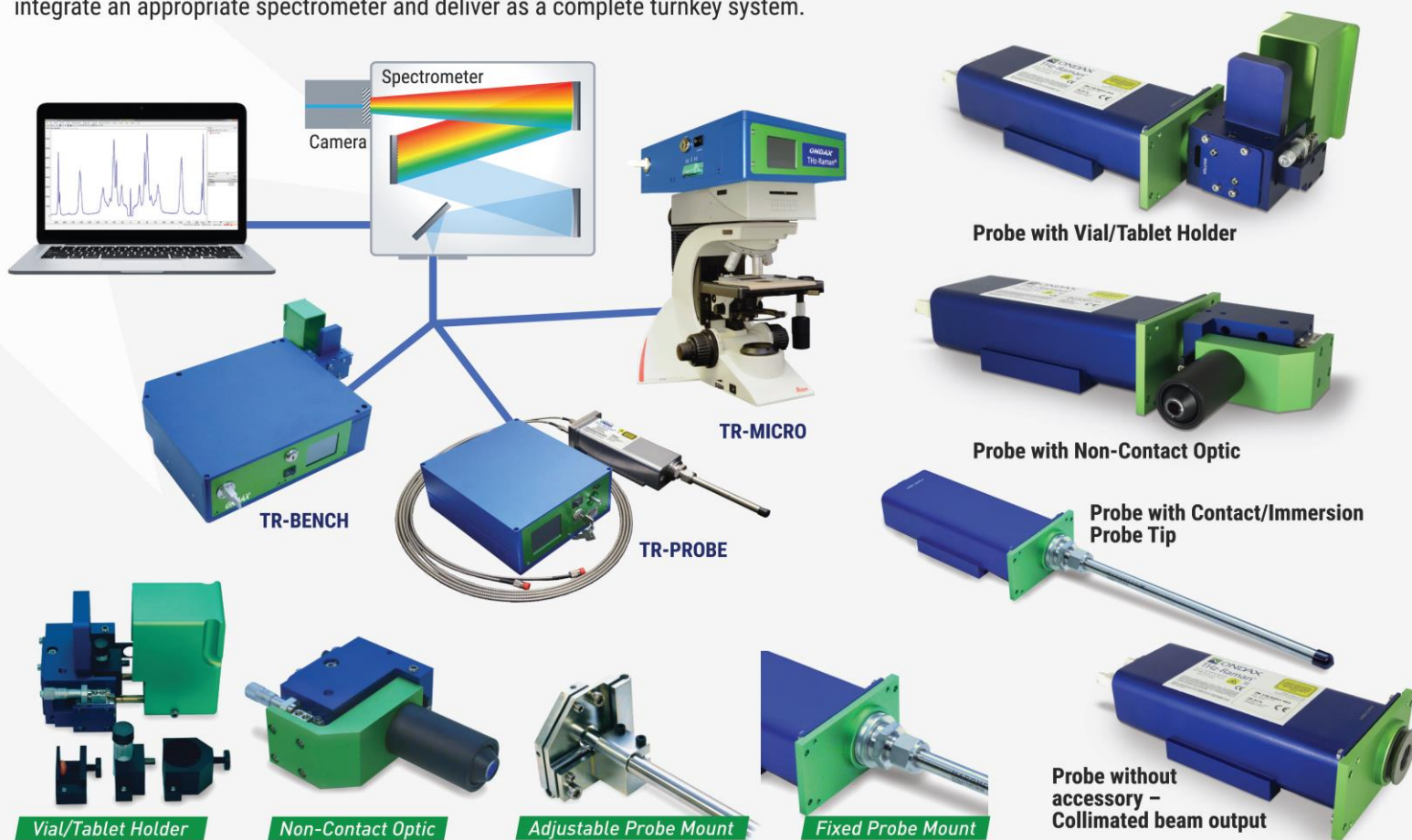


THz-Raman PLUS fingerprint region measurement with the same system

All **TR-Series** THz-Raman[®] modules are ultra-compact and simple to connect via fiber to almost any spectrometer or Raman system. A high-power, wavelength-stabilized, single-frequency laser source is precisely matched to the ultra narrow-band ASE, beamsplitter and notch filters to assure maximum throughput and exceptional attenuation (>OD 9) of the excitation source. Systems are available in 532nm, 633nm, 785nm, 850nm, 976nm and 1064nm excitation wavelengths.

The new **TR-PROBE** is a compact, robust THz-Raman[®] probe that enables in-situ reaction or process monitoring. The TR-PROBE can be configured with a variety of sample interface accessories, including immersion or contact probe tips, a convenient vial/tablet holder, or a steerable non-contact optic (see options below). A separate CleanLine™ laser provides ASE-free excitation via a multimode fiber, enabling the probe to operate in harsher environments where electrical connections are not permitted.

Ondax THz-Raman[®] modules are compatible with virtually any commercial Raman system or spectrometer, and Ondax can recommend or integrate an appropriate spectrometer and deliver as a complete turnkey system.



A variety of sample interface accessories enable the TR-PROBE and TR-BENCH to be easily configured to match a broad range of applications. Immersion or contact probe tips may be mounted with either a fixed SwageLok mount, or for longer probes that may need alignment, an adjustable tip/tilt probe mount. The Vial/Tablet Sample Holder incorporates an adjustable steering mirror, interchangeable focusing lens, and safety shutter. And the Steerable Non-contact Optic Mount allows for projection and steering of the output beam with precision alignment and interchangeable focusing optics, for applications requiring long-range collection paths. Additionally, the accessories may be rotated around the dovetail mount to accomplish any angle of incidence.

ONDAX[®]

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For more information about Ondax products and the name of a local representative or distributor, visit www.ondax.com, email sales@ondax.com, or call 626.357.9600

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