

Hudson™ 785 Non-Contact Raman Probe

High-performance sampling for quantitative analysis

Tornado's Hudson™ 785 Raman Probe is a high-performance optical interface which enables even the most demanding process monitoring or lab applications. Its optical design is optimized for compatibility with Tornado's HyperFlux™ PRO Plus analyzer and can be used for the superior representative sampling and measurement reproducibility for liquids, solids, slurries, powders, and heterogeneous mixtures. The interchangeable non-contact optics modules allow for a variety of sample types and containers.



☆ KEY FEATURES

- Probe head optics optimized (étendue-matched) to spectrometer, further boosting the game-changing throughput efficiency of Tornado Raman analyzers
- Interchangeable non-contact optics
- Compact size and shape, fits into constricted spaces
- Uses robust single-core fiber optic cables (instead of fiber bundles) which can run long distances and be connected to a multiplexer

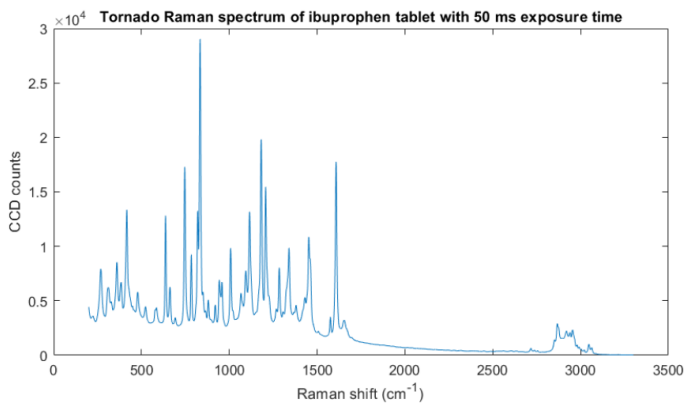
KEY APPLICATIONS:

- Pharmaceutical – solids, feed frame (mounts to most commercial devices, powder blending, tablets (blend uniformity, API content)
- Polymer – pellets and films (composition and property measurement)
- Biotech – liquid samples can be measured through glass containers or site windows

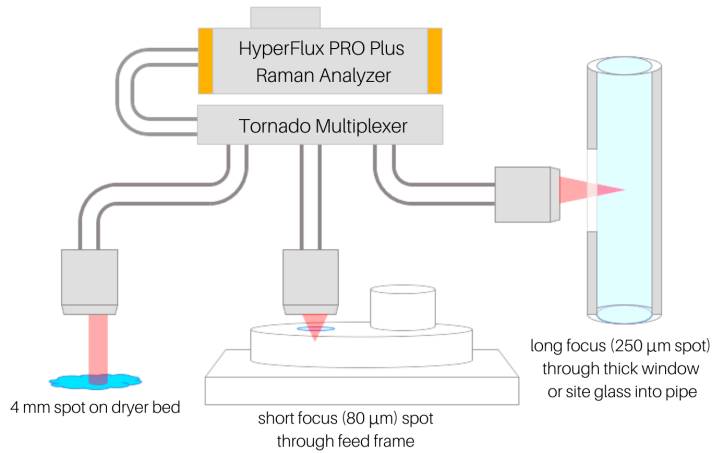


PERFORMANCE

The Hudson™ 785 Raman probe generates high SNR spectra even at short exposure times.



HUDSON™ 785 FLEXIBLE SAMPLING OPTIONS



Device Specifications

SIZE 2.16 x 1.77 x 1.01 in (5.5 x 4.5 x 2.6 cm)

WEIGHT 0.75 lbs (0.34 kg)

EXCITATION WAVELENGTH 785 nm

OPERATING TEMPERATURE 0 to +40 °C

NON-CONTACT OPTIC OPTIONS Three different non-contact optic modules are compatible with each probe head (see table to right)

OPTICAL FIBER CONNECTIONS FC/PC 105 μm NA=0.22 fiber optic cable for excitation
FC/PC 300 μm NA=0.22 fiber optic cable for collection

Available Optics Attachments

	FOCAL LENGTH	SAMPLE DISTANCE	SPOT DIAMETER
SHORT FOCUS OPTIC	8 mm	5.2 mm	80 μm
LONG FOCUS OPTIC	25 mm	22.3 mm	250 μm
LARGE SPOT OPTIC	infinite	5 to 500 mm	4 mm

Users can quickly and easily swap the optics to match their specific needs

