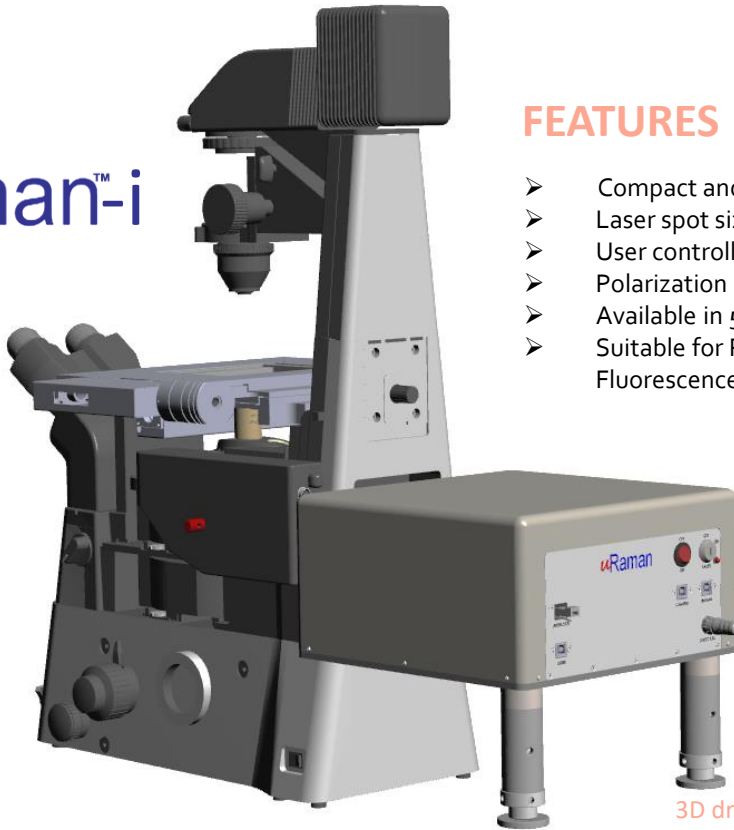


uRaman™-i



3D drawing of uRaman™-i mounted on an Inverted Microscope

FEATURES

- Compact and affordable
- Laser spot size down to 1.0µm
- User controllable laser power
- Polarization (as an add on option)
- Available in 532nm, 633nm, 785nm, 830 nm
- Suitable for Raman, Photoluminescence and Fluorescence

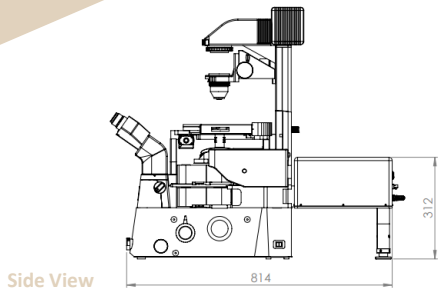
uRaman™-i is mounted directly to the inverted microscope back-port. Deployment will require an additional mirror reflector in the microscope epi-illumination filter turret.

Unlike the uRaman™ module for upright microscope, the uRaman™-i module integrates with a CMOS color camera inside the module for better viewing of exact spot.

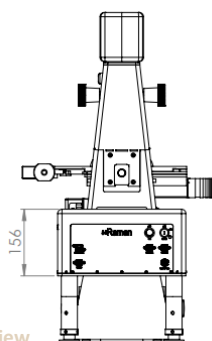
Each module is fully optimized for a specific excitation wavelength and continue the highly robust design tradition for the uRaman™ series with virtually zero re-alignment after installation.

Options for motorized Polarization Raman measurement is also available, with <0.5 deg accuracy.

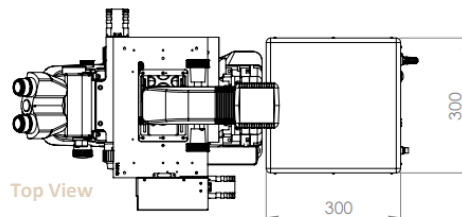
*Measurement resolution is dependent of the laser wavelength and objective used. E.g. 500nm using 532m, laser and 100x oil immersion lens can be easily achieved.



Side View



Back View

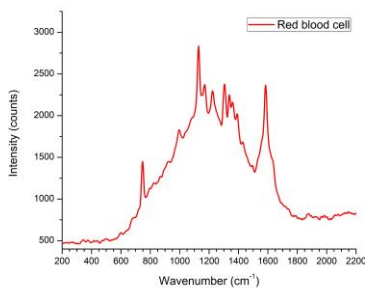


Top View

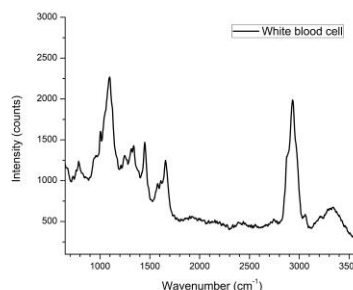
APPLICATION



Blood Cell Image under a Microscope



Spectrum of Red Blood Cell



Spectrum of White Blood Cell

uRaman TM -i Specification				
Laser	532 nm	633 nm	785 nm	830 nm
Laser Type	Single Mode Frequency-Stabilized			
Laser Power	100 mW	70 mW	100 mW	100 mW
Laser FWHM Bandwidth	1 < MHz	<150 KHz	<100 KHz	<100 KHz
Detector	Cooled 2048 pixel CCD array			
Spectral Range/ resolution	95 / 200 - 5400 @10cm ⁻¹ 95 / 200 - 3400 @ 8cm ⁻¹ 95 / 200 - 1900 @ 6cm ⁻¹	80 / 160 - 3800 @ 8cm ⁻¹ 80 / 160 - 2400 @ 6cm ⁻¹	80 / 150 - 3600 @ 9cm ⁻¹ 80 / 150 - 2400 @ 6cm ⁻¹ 80 / 150 - 2400 @ 10cm ⁻¹	150 - 2400 @ 6.5 cm ⁻¹ 150 - 2800 @ 7cm ⁻¹
Integration Time	2 ms to 120 secs			
Software	uSoft			
Power Supply	12 Vdc	5 Vdc		

Disclaimer:

The information of the new product is intended to outline our product direction and it should not be relied on making a purchasing decision.

TECHNOSPEX PTE LTD

Address: 1092 Lower Delta Road #04-01 Singapore 169203

Website: www.technospex.com | Email: sales@technospex.com | Tel: +65 6276 6928