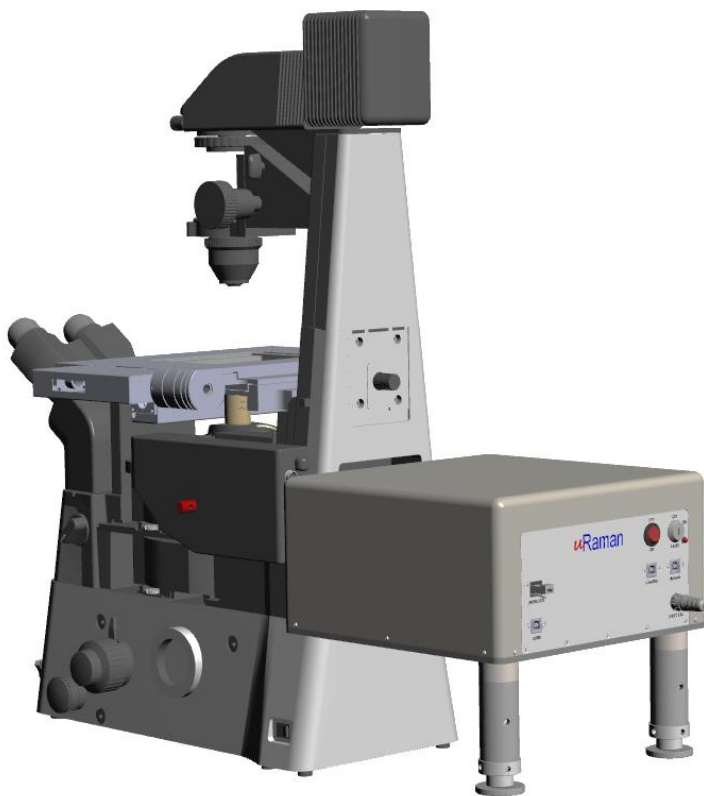


## Introducing the **new** uRaman™-i series of modular microRaman upgrade for Inverted microscopes

Continuing from the highly popular uRaman™ module for upright microscopes, Technospex is proud to introduce the uRaman™-i module for Inverted Microscopes, for Biological or Meteorological applications.

Label free imaging and accurate identification of biological samples at the micron level are gaining interest world-wide. With the non-destructive and no sample preparation feature of Raman spectroscopy, microRaman or Confocal Raman on biological samples has proven to be an attractive technique to further Life Science research.



Application spanning from identifying bacteria, fungus infection to cancer research on live cells has been reported in the recent years.

Coupled with our UPG-iMAP option which includes a motorized XY stage and our uSoft-Map software suite, researchers will be able to perform Raman mapping and correlate the results with traditional techniques such as Fluorescence, DIC, Phase Contrast, etc imaging, to ID the samples down to 500nm\* resolution.

### uRaman™-i

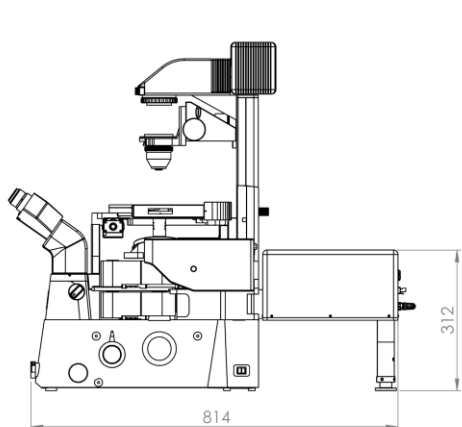
Mounts directly to the inverted microscope back-port. Deployment will require an additional mirror reflector in the microscope epi-illumination filter turret.

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

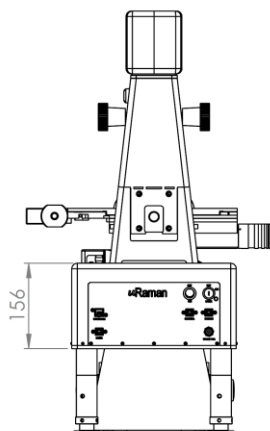
Each module is fully optimized for a specific excitation wavelength, and continues the highly robust design tradition for the uRaman™ series with virtually zero re-alignment after installation.

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

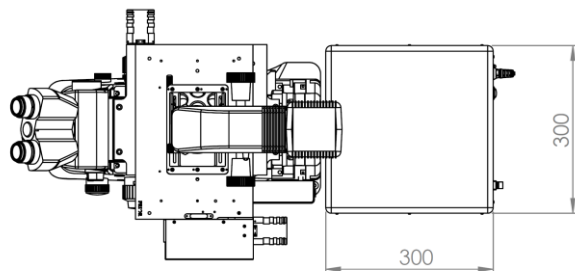
*\*Measurement resolution is dependent on the Laser wavelength and objective lens used. 500nm using 532nm laser and 100x oil immersion lens can be easily achieved*



Side view



Back view

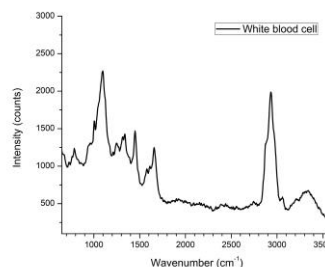
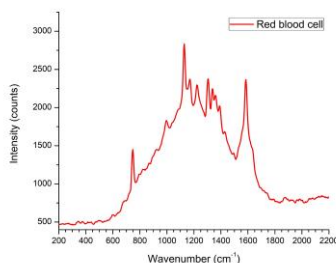
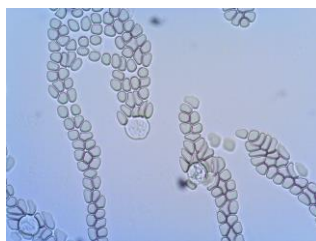


Top view

\* Dimensions are in mm

# uRaman™-i

## Blood Cell results:



## Specification

Laser	532 nm	633 nm	785nm
Laser Type	Single Mode Frequency-Stabilized		
Laser Power	100 mW	70 mW	100 mW
Laser FWHM Bandwidth	<1 MHz	<150 MHz	<105 MHz
Detector	Cooled or Non-Cooled 2048 pixel CCD array		
Spectral Range / Resolution	95 or 200 – 5400 @ 10cm <sup>-1</sup> 95 or 200 – 3400 @ 7cm <sup>-1</sup> 95 or 200 – 1900 @ 5cm <sup>-1</sup>	80 or 160 – 3800 @ 7cm <sup>-1</sup> 80 or 160 – 2400 @ 5cm <sup>-1</sup>	80 or 150 – 3600 @ 8cm <sup>-1</sup> 80 or 150 – 2400 @ 4.5cm <sup>-1</sup> 80 or 150 – 2400 @ 9cm <sup>-1</sup>
Integration Time	2 ms to 120 secs		
Software	uSoft or uSoft-Map		
Power Supply	12 Vdc	5 Vdc	5 Vdc

### Disclaimer

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