

uSight™-2000

The new UV-VIS-NIR Microspectroscopy Solution

uSight-2000 Series

The uSight-2000 microspectroscopy system enables user to carry out UV-Vis-NIR measurement at microscopic level. With the 100X objective, the imaging spot diameter can go as small as 1µm. This is ideal for investigating optical transmittance, reflectance or absorbance properties of samples with micron-sized structures. In addition to UV-Vis-NIR microspectroscopy, users can also perform additional imaging modalities such as fluorescence, Raman, dark-field, phase contrast, brightfield, polarization and DIC imaging.



uSight-2000 mounted on a Nikon Ci-L Microscope

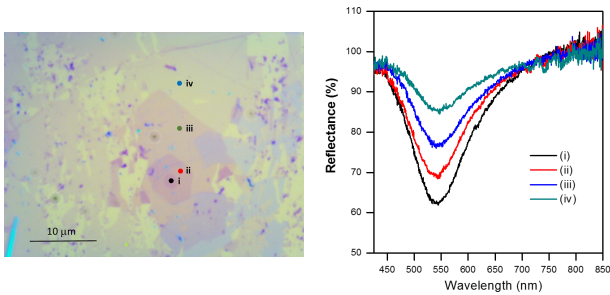
Features

- Affordable and compact
- Multi-imaging methods
- Mapping option

| uSight-2000 | |
|-----------------------------|--|
| Spectral range | 200 -1100 nm |
| Spectral resolution (fixed) | Default @ 1.5 nm; option of 1 nm, 2.5 nm and 5 nm |
| Spatial resolution | Down to <1.0 um with 100X objective |
| Detector | 2048 pixels CCD, 16 Bits |
| Integration time | 1.2 ms - 600 sec |
| Dynamic range | 3,300 (SNR 300:1) |
| Non-linearity | <0.1% |
| Stray noise | <0.1% |
| Measuring spot indicator | Software and Hardware |
| Mapping | Optional |

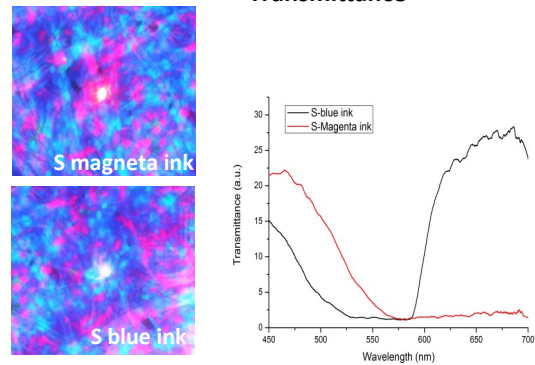
Flexible Microspectroscopy solution ideal For your vast research application

Reflectance



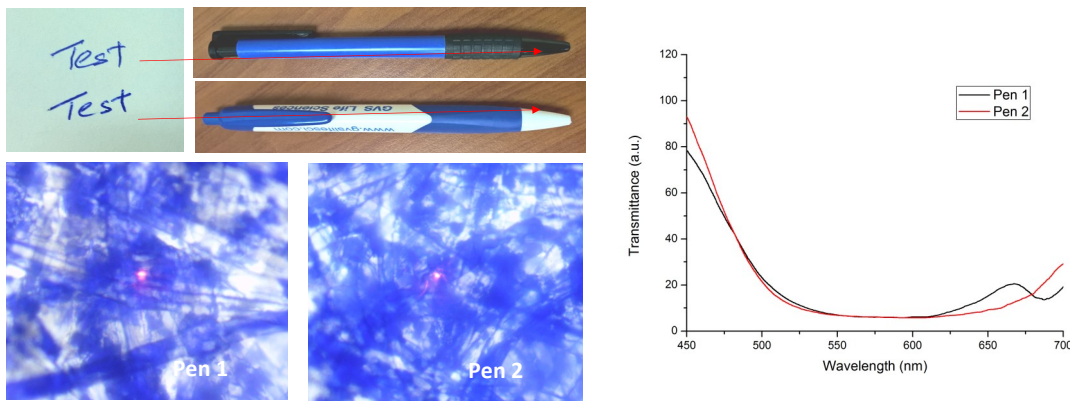
Reflectance measurement of graphene at different layers

Transmittance

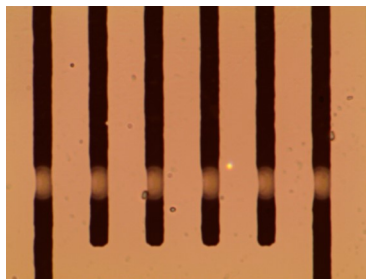


Transmittance spectrum of pigment using 20X objective lens.

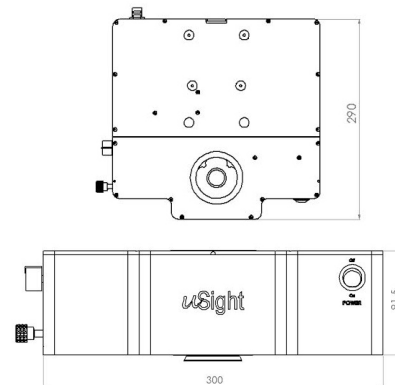
Transmittance



Transmittance spectrum of two different types of pen ink using 20X objective lens.



High precision measurement spot indicated with a LED, with precise dimension dependent on the microscope objective lens and microscope used. Image taken on a micro-meter scale using a 100x Objective Lens on a Nikon microscope.



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Contact us for free sample evaluation today!

Technospex
Decades Experience + Tomorrow's Technology

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