



# IDRaman micro

## Raman Microscope

The IDRaman micro from Ocean Optics is a Raman microscope optimized for high-sensitivity measurements. With its OneFocus feature, the IDRaman micro collects Raman spectral data from the same focal plane as the image. High quality images are collected with the 3-megapixel imager using epi-illumination. A complete Raman solution, this powerful, compact instrument was built for Raman microscopy and includes sampling for cuvettes and vials.





## At a Glance

**Laser wavelengths:** 785 & 532 nm

**Laser power:**

785 nm: 100 mW (≈80 mW at Sample)

532 nm: 50 mW (≈40 mW at Sample)

**Detector:** 2048 element back-thinned array, NIR enhanced, TEC cooling to -10° C

**Objectives and spot size:**

40X objective: >2 micron spot size [Standard]

100X objective: >1 micron spot size [Optional]

**Imager:** 3 Megapixel; epi-illumination

**Size (l x w x h):**

14 x 4 x 11 in.,  
36 x 10 x 28 cm

**Weight:** 12 lb. (5.4 kg)



Learn more online at  
[www.oceanoptics.com/idraman](http://www.oceanoptics.com/idraman)

Contact an Ocean Optics  
Application Scientist  
for details and pricing

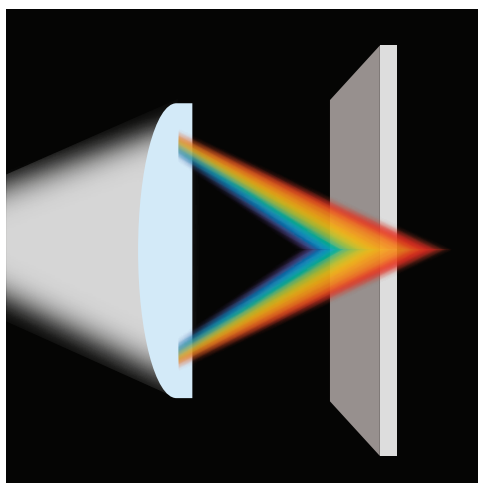
## Optimized for Raman

Most Raman microscopes available today leverage general purpose optical microscopes and bolt on the lasers and detectors needed for measuring Raman spectra. The IDRaman micro was designed for Raman spectroscopy. In fact, the optical design of the system makes the Raman sample the most important part of the light path. Interchangeable objectives allow you to adjust the spot size and optical magnification.

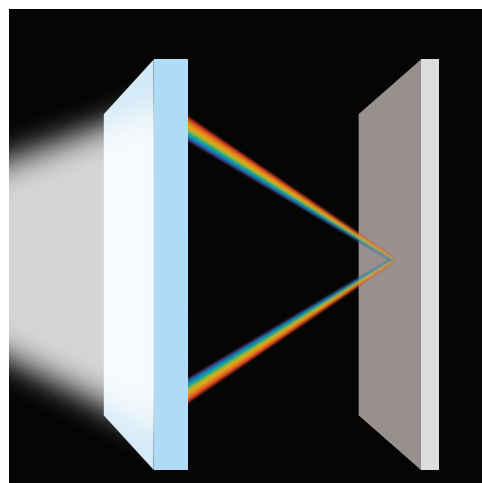
With features like OneFocus, it is possible to get both high quality images along with high-sensitivity Raman measurements. The 3-megapixel imager collects crisp images using epi-illumination. A custom-designed, high-brightness LED provides even illumination and allows clear images of all samples, from opaque to transparent.

## OneFocus Advantage

OneFocus places the Raman signal collection on the exact image plane. As illustrated below, OneFocus allows the highest quality Raman data to be acquired with the confidence of an accurate focus and images.



Without OneFocus Optical System



With OneFocus Optical System

The OneFocus optical configuration overcomes the limitations of some fiber optic-based systems where the focal plane for Raman signal collection is slightly above or below the imaging plane. OneFocus removes doubt and simplifies focus adjustments before collecting data.

## Small. Powerful. Versatile.

The IDRaman micro takes up a fraction of the space of a traditional optical microscope but delivers high-quality data. The combination of superior optical design, centered around Raman spectroscopy, and high-performance electronics results in the most cost-effective Raman system available today.

Ideal for the research or QA/QC lab, the IDRaman micro also includes the ability to measure cuvettes and to make measurements from the bottom or sides of a vial. Simply pull a lever and switch between microscopy and bulk samples. For shared instrument labs, the IDRaman micro brings the most performance and versatility.

Contact an application sales engineer today to find out more.



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