

# RSM Video Raman Microscope

An affordable and versatile accessory for Raman Systems spectrometers



The Raman Systems **RSM Video Raman Microscope** is an upright laboratory microscope that couples to a Raman Systems spectrometer (sold separately). The accessory is supplied with a **Reflected Light, Brightfield Illuminator** and with a **USB Color Video Camera**.

The **RSM Video Raman Microscope** works with the Raman Systems models **PeakSeeker™** and **PeakSeeker Pro™** spectrometers mating to the external fiber optic probe.

The **USB Color Video Camera** facilitates precise sample positioning of the laser spot from the Raman spectrometer onto a solid sample surface.

The **RSM Video Raman Microscope** is supplied with long working distance, infinite plan achromat objectives. The higher magnification objectives provide a smaller laser spot size.

## SPECIFICATIONS

### Eyepiece:

Wide field 10X (22mm) binocular

### Objectives:

Infinity Corrected

Magnification Working Distance

4X 25.4 mm

10X 11 mm

20X 6 mm

40X 3.7 mm

### Sample Stage:

Dimensions: 190 mm x 150 mm

X-Y Range: 75 mm x 50 mm (manual)

### Focusing:

Coaxial coarse & fine adjustment

Fine focusing scale 0.002 mm

### Illumination:

Brightfield Kohler

12V 30W brightness variable

### Camera

- 1.3 MP Color CMOS
- USB2.0
- C-mount
- 1.8 meter long USB cable
- 0.5X image reduction lens
- 0.01mm linewidth stage micrometer
- Software CD

## ORDER CODES

❖ **RSM-785** for spectrometer models  
PEK-785; PRO-785; PRO-785E

❖ **RSM-532** for spectrometer model  
PRO-532

*(spectrometers sold separately)*

Specifications subject to change without notice.  
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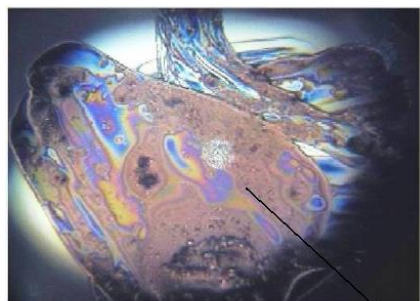
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## APPLICATIONS

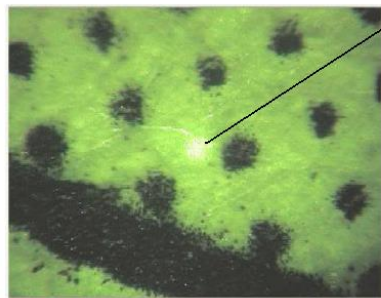
- ❖ Anti-counterfeiting
- ❖ Carbon nanotubes
- ❖ Coatings
- ❖ Forensics
- ❖ Mineralogy
- ❖ Semiconductors
- ❖ Solar Cells
- ❖ SERS

## ANALYZE NON-HOMOGENEOUS SAMPLES

The RSM Video Raman Microscope provides a video image of the laser spot on the sample area of interest.



Ink on Silicon



Paper

20X objective  
White spot is the laser

## ACCEPTS STANDARD MICROSCOPE OBJECTIVES

### Specifications:

- ❖ Infinity corrected
- ❖ 45 mm parfocal distance
- ❖ RMS 20.32mm thread
- ❖ Metallographic (no cover slip)



*PeakSeeker or PeakSeeker Pro spectrometer sold separately.*

\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.