

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 × 150 mm

X-Y Range: 75 mm × 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.

PeakSeeker, PeakSeeker Pro are trademarks of Agiltron.

©2021 All rights reserved U.S. Patents 5982484, 6897951

Raman Systems MII, an Agiltron fully owned business unit
15 Presidential Way, Woburn, MA 01801 • Tel 781-935-1200 • www.ramansystems.com

RSM Video Raman Microscope

An affordable and versatile accessory for Raman Systems spectrometers

APPLICATIONS

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

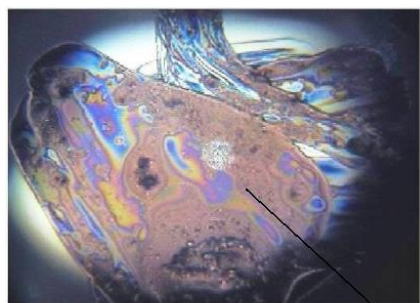
ACCEPTS STANDARD MICROSCOPE OBJECTIVES

Specifications:

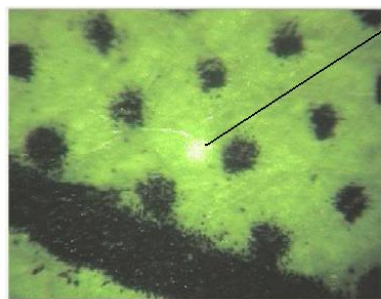
- ❖ Infinity corrected
- ❖ 45 mm parfocal distance
- ❖ RMS 20.32mm thread
- ❖ Metallographic (no cover slip)

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



PeakSeeker or PeakSeeker Pro spectrometer sold separately.

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

Raman Systems MII, an Agiltron wholly owned business unit
15 Presidential Way, Woburn, MA 01801 • Tel 781-935-1200 • www.ramansystems.com