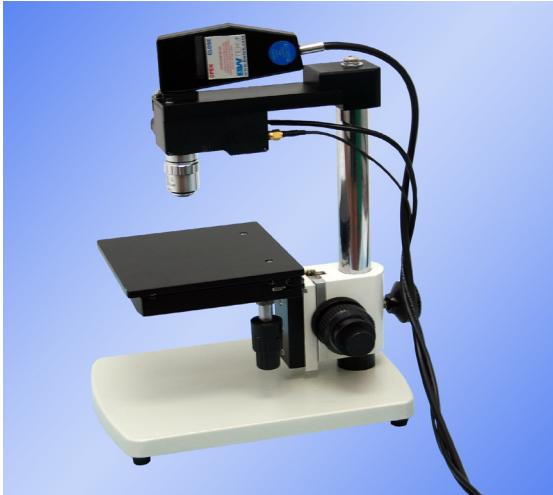


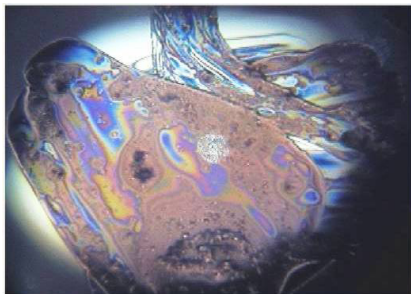
## Video Microscope Sampling System



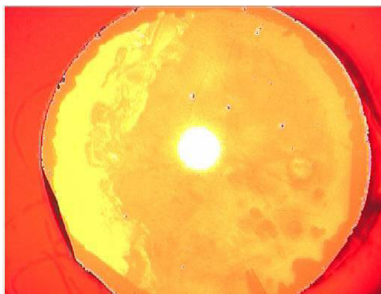
The BAC151 is a video microscope adapter. It uses the BAC150 Precision Raman Probe holder and is compatible with the BAC100 or BAC101 Raman probes. The BAC150 platform provides both coarse and fine adjustments in the XYZ directions. The BAC 151 adds an LED illuminator and a video camera for convenient alignment and viewing of the measurement field. The BAC151 accepts standard microscope objectives.

### Highlights

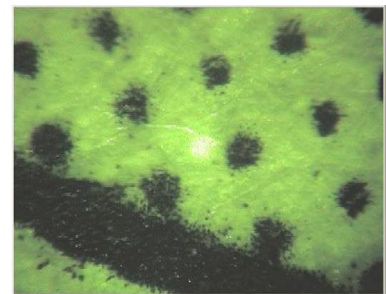
- *Compatible with B&W Tek's lab and industrial Raman probes*
- *Coarse and fine XYZ adjustments*
- *Coaxial LED illuminator for target sample alignment*
- *Video camera for sample viewing*
- *Accepts standard microscope objectives*



Contamination on silicon  
Bright field illumination  
20X magnification  
True color



Diamond window  
Bright field illumination  
5X magnification  
False color



Print on paper  
Dark field illumination  
20X magnification  
False color

# BAC151

## Video Microscope Sampling System

### Typical Specifications

<b>Optics</b>	
Long working distance microscope objective	<b>20X included</b>
Infinite corrected, plan achromatic	<b>5X, 10X, 40X, 50, 80X optional</b>
Working distance	<b>20X 8.7mm (13mm and 20mm optional) 5X 18.3 mm 10X 8.9 mm 40X 3.7 mm 50X 2.02 mm 80X 0.96 mm</b>
Illuminator, 2 types	<b>Bright field, Coaxial, LED, 0.2 watt Dark field, Off-axis, LED, 0.2 watt Interchangeable</b>
<b>Video camera</b>	
Color CCD format	<b>1/4 inch</b>
Resolution, active pixels (HxV)	<b>786 x 494</b>
Viewer display pixels	<b>750 x 480</b>
Shutter speed	<b>Automatic from 1/60 - 1/100,000 second</b>
Power for camera	<b>Through USB (USB cable is included)</b>
Video image display	<b>Through BW-Spec</b>
<b>Mechanics</b>	
Microscope objective threads	<b>Interchangeable international Standard</b>
Coarse and fine adjustment	<b>Coaxial</b>
Vertical travel through boom stand	<b>89.5 mm</b>
Vertical coarse adjustment, travel	<b>52 mm</b>
Vertical fine adjustment, travel	<b>0.5 mm</b>
XY sample stage travel	<b>in x direction: 42 mm In y direction: 33 mm</b>
Interface with Raman probe	<b>3/8 inch shaft diameter for lab probe BAC100 12 mm shaft diameter for immersion or industrial probe BAC101. Need to specify before order</b>
Dimensions & Weight	<b>168 x 236 x 298 mm, 8.8 kg</b>
Power consumption	<b>1.5 W</b>
Power supply required	<b>5V DC, 150 mA (Power cable is included)</b>