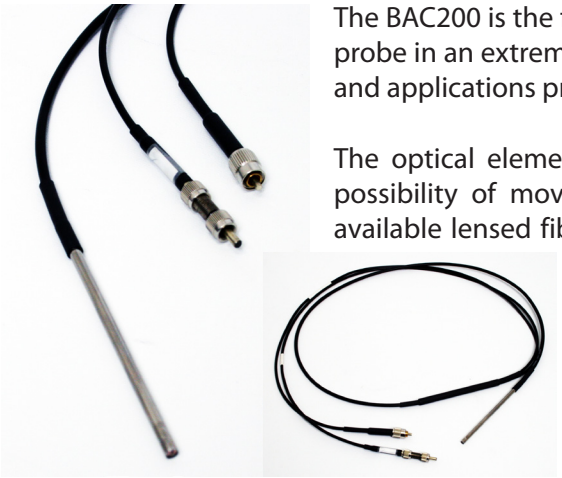
B&W TEK INC.
Your Photonics Partner

SPECTROMETERS | LASERS | TOTAL SOLUTIONS

Raman Accessory

BAC200 Micro Lensed Fiber-Optic Raman Probe

Micro Probe with High Spatial Resolution and Maximum Light Gathering Capabilities



The BAC200 is the first fiber optic probe to deliver the performance of a larger lensed probe in an extremely small diameter. The BAC200's design will allow measurements and applications previously not possible.

The optical elements in this design are permanently fixed in alignment, with no possibility of movement due to impact or vibrations, unlike other commercially available lensed fiber optic probes. The tip is fused silica housed in a stainless steel needle tube. This allows for a scratch resistant, easy to clean probe.

The probe can be used for immersion or direct contact measurements. The working distance from the face of the probe can be designed to achieve distances from 0 to 2.5mm.

Features:

- Standard Diameter: 3.7mm
  Options: smaller / larger diameters
- Standard Tip Length: 10cm
  Options: shorter / longer lengths
- Standard Overall Length: 1.5m
  Options: shorter / longer lengths
- Standard Working Distance: 0.7mm
  Options: 0 to 2.5mm

Optics Options:

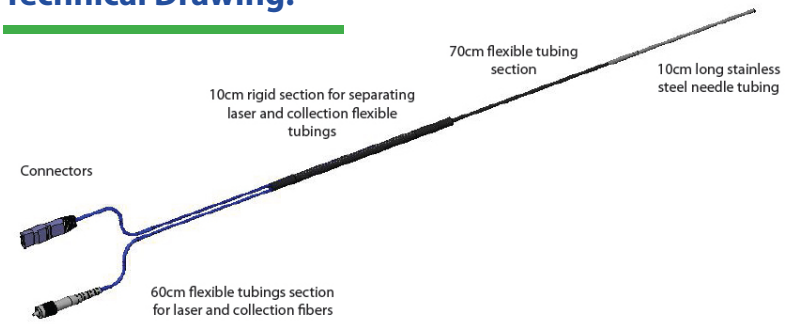
- Raman Probe Wavelengths Available:
  - BAC200-532 (532nm)
  - BAC200-785 (785nm)
  - BAC200-830 (830nm)

  Above models have the standard features
  Custom configurations will be special orders
- Probe Filtering
  Excitation Path: band pass filter
  Collection Path: long pass filter
- Both single mode and multimode excitation fibers are available
- Polarization State options: S, P, or S and P

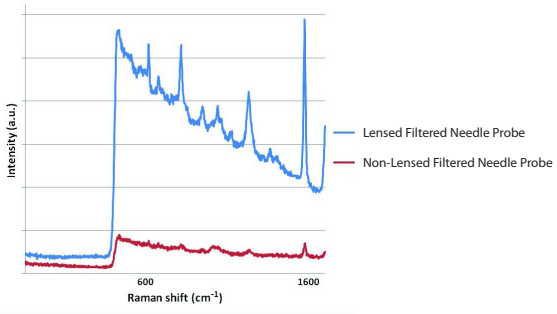
Collection Path Specifications:

- Number of Collection Lens Sub-Assemblies:
  Options: 1 to 4 sub-assemblies
- MTP Multi-Fiber Collection Connector - up to 24 fibers per connector (100 micron core fibers)

Technical Drawing:



Spectra of Polyethylene Terephthalate (PET)



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