

i-Raman® Series for Art & Archeology Applications

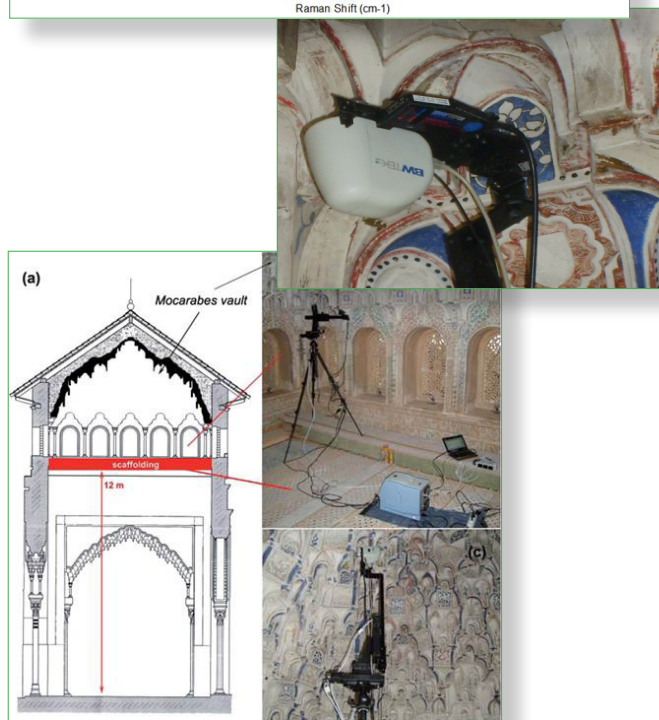
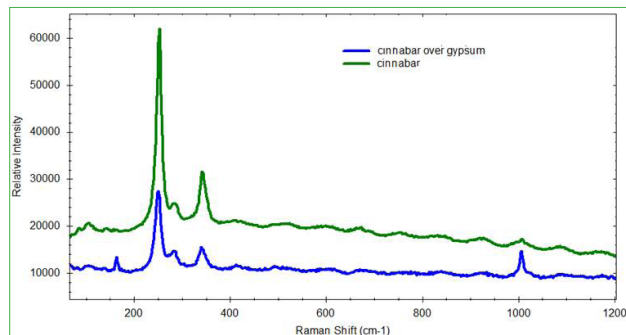
Portable Raman Spectroscopy is widely used for the analysis of paintings, ceramics, statues (surface coatings), and other artifacts. The flexibility of fiber optics in conjunction with the non-destructive and non-contact nature of Raman spectroscopy allows measurements to be made in-situ.

Our lightweight rugged design, various laser excitation and battery options allow you to carry these high performance systems into the field, thus allowing you to maintain the integrity of important heritage sites, and is in line with requirements of conservationists and archaeologists. Our i-Raman series has been widely implemented in the fields of art, archeology and geology for applications such as:

- Analysis of pigments on the ceilings of cathedrals using a tripod mounted video microscope for precision alignment
- Analysis of organics and inorganics in ancient paintings
- Analysis of environmental effects such as corrosion, oxidation and degradation of artwork
- Identification of pigments in archeological artifacts

Key Advantages of the i-Raman Series:

- Laser power adjustable down to 1%
- Small size, light weight, fiber-optic probe system for on-site analysis
- Battery option for in-field use
- Detachable microscope head; customized tripod to hold camera head
- BWID software with optional libraries for pigments and dyes, minerals, and inorganic materials
- GemRam system also available with gemstone library with spectra and images of > 400 gemstones
- Proven track record evidenced by published research which uses i-Raman series of instruments



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i-Raman® Series Set-Up for Applications in Art & Archeology



To perform high quality measurements for these applications, you will need:

- i-Raman Plus 785/532 S with E-grade Probe Upgrade to Extend Range to 65cm^{-1} (BWS465)
- Battery Pack (EBP106)
- Video Microscope with Detachable Camera Head (BAC151B)
- Adaptor to Connect Tripod to BAC151B Video Microscope (BAC151A-TRI)
- B&W Tek's Identification Software (BWID)
- Raman Signature Libraries for Easy Identification (dyes, pigments, minerals and inorganic materials)
- Optional BWIQ Quantitative Analysis Software

Contact your local B&W Tek representative today or visit us at bwtek.com