

Press Release - For Immediate Worldwide Release

TriVista Triple Raman Spectrometer

The Princeton Instruments and Acton Research Corporation TriVista offers the highest spectral resolution and extreme stray light rejection required for UV, resonance Raman and photoluminescence applications. Its unique optical design allows easy switching between additive and subtractive modes and it can be easily reconfigured to handle a multitude of fluorescence applications. Further accessories like a Micro-Raman setup and a universal sample chamber are available. A wide range of ratings selections allows wavelength coverage from 200nm up to 2.2 μ m.

With performance that is unmatched, the TriVista offers the highest spectral resolution of ultimate stray light rejection, allowing you to capture Raman spectra as close as 3 cm^{-1} from the Rayleigh line. A TriVista consists of three imaging corrected spectrometers in three different configurations; three 500mm focal length at each stage, two 500mm focal length in the first two stages plus one 750mm focal length in the final stage, or three 750 mm focal lengths at each stage. The critical intermediate slits between the stages are motorized. All systems include the fully automated function of changing from additive to subtractive modes within the software, which optimizes for either single point or CCD detection. The TriVista application team will calculate the best grating combination of the system according to your demands, and combine them all together.

The enormous flexibility of the TriVista system allows upgrades and changes easily. As every spectrometer includes a triple grating, interchangeable turret, up to nine gratings can be calibrated into the spectrometers, and selected by the TriVista system software. The basic system includes one manual entrance slit, the two motorized intermediate slits, and the adjustable CCD adapter flange at each stage. The TriVista is well suited for use with Princeton Instruments PIXIS and Spec-10 line of CCD cameras, which features detectors of up to 2048 x 512 pixels, either liquid nitrogen cooled to -120°C or thermoelectrically cooled to 100°C . For NIR applications, the OMA-V line of InGaAs photodiode arrays is available and for time-resolved measurements, the PI-MAX line of gated intensified CCD cameras can be used.

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