



FOR IMMEDIATE RELEASE

Vacuum Ultraviolet Spectroscopy Workstation

McPherson is pleased to announce the availability of two new deep UV spectroscopy workstation's intending to facilitate teaching and experimentation in vacuum and ultraviolet physics. The workstations are ideal for spectroscopy experiments in the vacuum ultraviolet regime, potentially advancing quantum information science and engineering. Spectroscopy was central to the development of quantum mechanics, including blackbody radiation and Einstein's photoelectric effect.

There are two experimental kits available, diagnostic and analytical. The diagnostic system equips the spectrometer with a sensitive CCD detector. Use it to measure spectral emission of laser interaction, high harmonic generation, plasma formation, luminescence, fluorescence and so on. The analytical system comes with a tunable deep UV light source, rather than the CCD detector, and is ready to explore one of the earliest predictions of quantum physics, Einstein's photoelectric effect. The configuration is also good for measuring transmission, photocathode response, and reflection.

Key features of these workstations include a versatile and easy to use spectrometer, filters, open concept high-vacuum sample chamber with built in optical breadboard, and easy to use vacuum pumping system. Systems may also have a deep UV light source and/or sensitive CCD detector. Students and experienced experimentalists will have more time to consider setups and interpret results when using these systems. In addition to optical characterization, perform basic physics experiments that explore the field of quantum behaviors useful for very practical technologies like quantum cryptography. More science means more engagement while also learning the fundamentals of laboratory setups.

The McPherson spectroscopy workstations allow users to assemble a complete system and design interesting experiments. Very complex systems can be constructed by blending diagnostic and analytical system components or by adding parts of your own design. System flanges are compatible with a range of commercial and readily available parts. These systems may be optionally mounted on tables and shipped turnkey, ready for your experiments.

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McPherson, Inc. (Chelmsford, MA USA) manufactures a variety of optical instruments that measure and tune specific wavelengths of light for many disciplines of spectroscopy. The company delivers instrumentation to domestic and international laboratories for fundamental research in optics, metrology, physics, and chemistry. To learn more about our instruments and manufacturing capabilities, visit McPhersonInc.com or call 1-978-256-4512 today.