

Mid-IR to Deep UV Tunable, Ultrafast Laser System

MDT Staff



Spectra-Physics, a Newport Corporation brand, has introduced Spirit-OPA, an automated optical parametric amplifier (OPA) specifically optimized for use with Spectra-Physics' Spirit high-repetition-rate ultrafast laser. Spirit and Spirit-OPA together create a versatile and high energy, ultrafast laser system that tunes virtually gap-free from the mid-infrared (mid-IR) to the deep ultraviolet (DUV) with user-adjustable repetition rates from tens of kHz up to 1 MHz. The user-friendly system is ideal for high repetition rate, time-resolved spectroscopy applications such as single molecule studies, nonlinear optics and fluorescence lifetime measurements.

Spirit-OPA can be pumped with the Spirit 1040-4 and the recently introduced Spirit 1040-8 laser. Spectra-Physics' Spirit is a high-repetition-rate industrial-grade femtosecond laser. Spectra-Physics is also introducing two other ultrafast lasers. The new femtoTrain is a high-energy, femtosecond oscillator for two-photon polymerization, bioimaging, and medical applications. It delivers a pulse energy of >350 nJ at a high-repetition rate of 10 MHz in the infrared. The new Millennia eV 5, 10, and 15 are compact, cost-effective, continuous wave (CW) DPSS green lasers for pumping ultrafast and single-frequency laser systems and for use in certain critical industrial applications. Both lasers are designed, manufactured, and tested to Spectra-Physics' high standards for reliability.

For more information, visit: www.newport.com/spectra-physics [1].

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