

Multi-wavelength Coupling Unit for alpha300 and alpha500 Series

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WITec
focus innovations

Excitation Wavelength Selection with a Flick of the Thumb

The new WITec multi-wavelength excitation-laser coupling unit further advances the ease-of-use of the alpha300 and alpha500 microscope series. Switching between various laser sources is performed by simply rotating the integrated filter

wheel. The alignment and calibration of the laser beam path is perfectly maintained for the most accurate and flexible Raman imaging. Each excitation wavelength features a high-quality and wavelength-optimized filter set, enabling

the highest throughput and greatly contributes to the exceptional speed and sensitivity of WITec's systems. Experiments specifically requiring a variety of lasers, for example, to eliminate fluorescence can benefit from such a multi-laser setup.

Specifications and Features

- Up to three standard laser wavelengths (355nm, 488nm, 532nm, 633nm, 785nm) available (others on request).

- Equipped with up to three Raman Filter Sets (filter assembly with laser bandpass filter, dichroic beam splitter and Raman edge filter for each laser wavelength).

- Four-position turret with one open position for unblocked white-light microscopy.

- Extendable for laser-power measurements and polarization experiments.

Benefits

- Maximum ease-of-use and simplicity provided by the integrated filter wheel for switching between lasers by a simple rotation.

- Flexible and versatile beam delivery via single mode fiber: Lasers can be mounted as stand-alone units, preventing thermal or vibrational effects from influencing the measurements.

- Highest optical throughput due to usage of wavelength optimized filters and beam-splitters.

- Ensures long-term stability of calibration and beam path alignment.

- Compatibility with all existing WITec microscopes guaranteed.

