

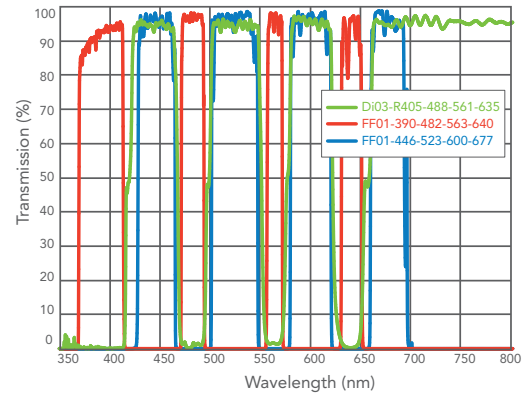
Super-resolution Microscopy Cubes

Product Data Sheet

BrightLine® 1λ RWE Super-resolution & TIRF Laser Microscopy Cubes

Super-resolution Microscopy Cubes set the new standard for laser based microscopes. These cubes are optimized for mounting 1λ RWE 1mm thick super-resolution & TIRF laser dichroic beamsplitters. Maximize SNR and minimize artifacts in TIRF, Confocal, PALM, STORM, SIM, and other super-resolution techniques.

Conventional microscopy cubes can significantly compromise the flatness of the dichroic beamsplitters thereby introducing aberrations. But super-resolution & TIRF imaging systems are highly sensitive to optical wavefront distortion and demand the highest quality components for best instrument sensitivity. Our industry-leading 1λ RWE 1 mm thick laser dichroic beamsplitters minimize focus shift and aberrations in the reflected beam compared to standard dichroic beamsplitters. However, in order to realize their full flatness potential, these dichroic beamsplitters need to be carefully mounted in microscopy cubes. Semrock has developed proprietary methods of installing 1λ RWE super-resolution 1 mm thick dichroic beamsplitters in cubes and guarantee the flatness performance. Offered as standard catalog products, cubes compatible with popular microscopes are available.



BrightLine® multi-band 1λ RWE super-resolution laser filter set, optimized for 405, 488, 561, & 635 nm laser sources

- ▶ Guaranteed 1λ P-V Reflected Wavefront Error (RWE) from cube mounted 1 mm thick dichroic beamsplitters
- ▶ Maximize switching speed, minimize beam deviation, & minimize light scatter in emission
- ▶ Minimal reflected wavefront distortion for even large diameter illumination beams
- ▶ Available for popular laser lines & microscopy cubes (e.g. Nikon TE2000, Olympus U-MF2 & U-FF, Zeiss FL Cube EC P&C)

For additional details visit: www.semrock.com/srmc



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