High Performance, High Resolution

Long WD, Wide FOV Objective for Neuroscience

Nikon has added the CFI Apo LWD 25X objective to its series of low refractive index, high numerical aperture (NA) objectives for use in biological applications. Employing Nikon's ultra Nano crystal coat technology, the new objective features high optical performance across the widest spectral wavelength with high chromatic corrections for sharp contrast imaging. This, combined with a high NA, wide field of view and long working distance make it ideal for neuroscience imaging. Neuroscience and other applications require a large field of view for studying samples such as brain slices and blood vessels. In addition, live specimens such as tissue demand a long working distance. Designed and optimized specifically for neuroscience and similar applications, the CFI Apo LWD 25X features a wide 22mm field of view and an working distance of 2.0 mm and also an NA of 1.10. In addition, a 33° approach angle on the lens provides easy access for micromanipulators in electrophysiology applications. An adjustable correction ring, for both non-coverglass and coverglass observations, reduces the effects of light scattering when imaging deep into specimens.

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