

## Dedicated objectives – expert optics for expert users

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Olympus has developed a range of unique objectives to meet application requirements and to offer best optical performance with advanced applications.

### Silicone Immersion 30x, 40x, 60x and 100x Objectives

Silicone immersion objectives have been designed with higher NA compared to water immersion objectives, increasing image resolution and brightness. The refractive index of silicone oil matches very well to most live biological samples. Using silicone oil immersion medium minimizes spherical aberration caused by refractive index mismatch resulting in brighter images with an improved signal to noise ratio. The properties of silicone oil make it an excellent medium for long-term, stable time-lapse observation.

### Super Corrected - Low Chromatic Aberration 60x Objective

The high NA oil immersion objective minimizes chromatic aberration in the 405 to 650 nm range and delivers unrivaled high degree of correction for both lateral and axial chromatic aberration. The objective also compensates for chromatic aberration in the near infrared up to 850 nm.

### Multiphoton dedicated 10x and 25x Objectives

Olympus offers high NA immersion objectives designed for multiphoton imaging. A correction collar compensates for spherical aberration caused by differences between the refractive indices of the immersion medium and specimens, forming the optimal focal spot even deep in the sample, without loss of energy density. The objectives are designed to collect scattered light over a wide field of view to maximize signal detection. The water immersion 25x objective features a 2mm working distance whereas the SCALEVIEW medium 25x objectives offer outstanding working distances of 4mm and 8mm. The multi-immersion media 10x and the high refractive index immersion 25x objectives both feature an 8 mm working distance.

