28 January 2021

WD30mm with NA0.3(immersion)!

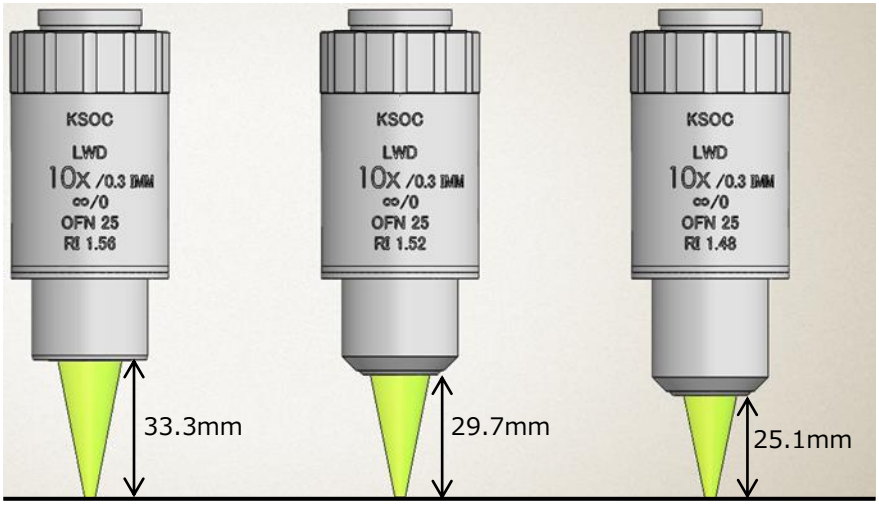
World's 1st
※Our research basis

Long Working Distance Immersion Objective

Patent pending

Features

- ◎ Long working distance **allows for deep observation of large transparent specimens**.
- ◎ **Supports a wide range of refractive indices without a correction ring** due to the unique optical design. (Patent pending)
- ◎ Dedicated design for immersion provides **clear image**.
- ◎ Field curvature is corrected, so **the entire field of view is in focus**.
- ◎ Suitable for use in a **light sheet microscope**.



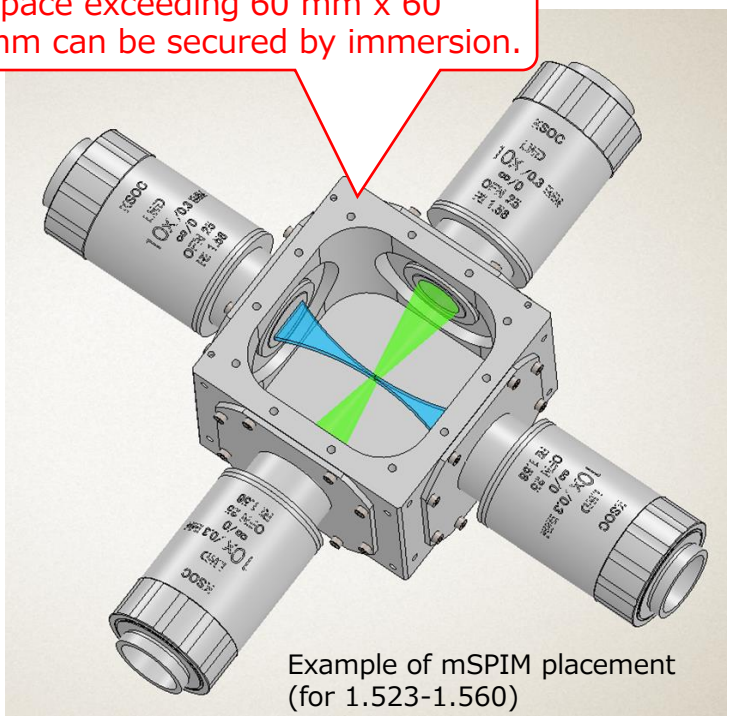
3 types of lenses to match the refractive index of the immersion media

1.523-1.560
1.500-1.536
1.462-1.502

Light sheet observation of large specimens is available.

This arrangement is also available (for 1.523-1.560)

Space exceeding 60 mm x 60 mm can be secured by immersion.



Example of mSPIM placement (for 1.523-1.560)

Optical components, optical systems, lasers

KYOCERA

KYOCERA SOC Corporation

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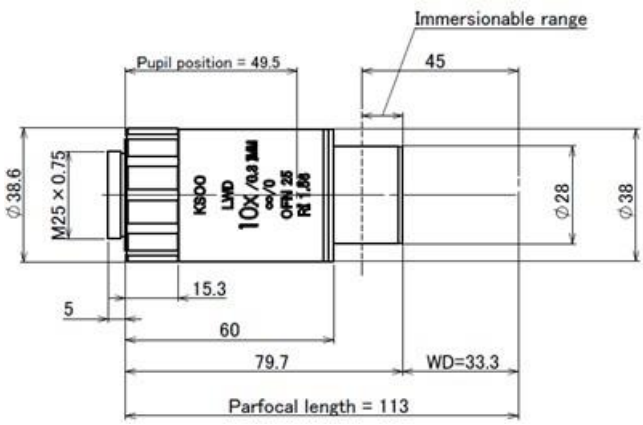
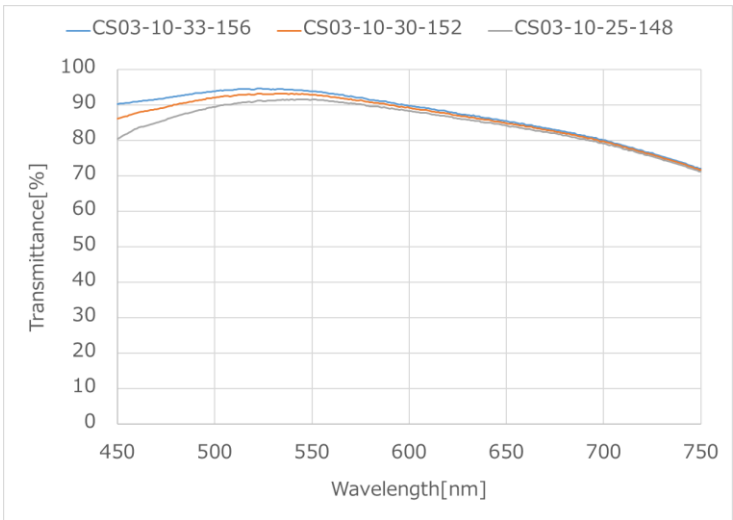
	CS03-10-33-156	CS03-10-30-152	CS03-10-25-148
Numerical aperture	0.3		
Magnification	10*1		
Focal length	18mm		
Working distance*2	33.3mm*3	29.7mm*4	25.1mm*5
Field of view	Φ2.5mm		
Refractive index of immersion media (d-line)	1.523-1.560	1.500-1.536	1.462-1.502
Wavelength(Chromatic aberration and Field curvature Correction)	486-656nm		
Wavelength (Spherical Correction)	450-750nm		
Transmittance	See the figure below		
Correction ring	Non		
Parfocal length	113mm		
Mounting threads	M25×0.75		
Pupil position	49.5mm*6		
Maximum outer diameter	φ39mm		
Mass	460g	465g	480g

*1: Using imaging lens with focal length of 180mm. *2: Differs depends on immersion media refractive index. *3: n_d=1.560 on the d line(587.56nm) *4: n_d=1.540 on he d line(587.56nm) *5: n_d=1.477 on the d line(587.56nm) *6: Distance from mounting position to specimen side.

● Dimensions(CS03-10-33-156)



● Transmittance



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