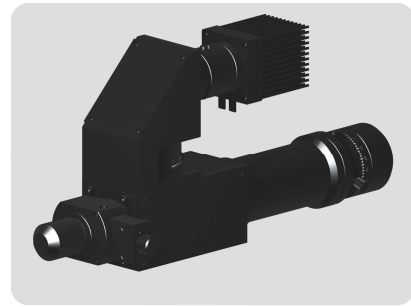


# SOD-180-27M42-DIC

## Super Optical Device



Drawing No.A24425

### Spec of imaging tube lens

レンズ形式	Lens Type	Tube Lens for Infinity-Corrected Objective Lens
対応対物レンズ	Available objective lens	MPLFLN10X and MPLFLN5X (Olympus)
焦点距離 (mm)	Focal Length	179.95
有効Fno	Effective Fno	15.00
使用波長域 (nm)	Wavelength range used	400~700
レンズバック (mm)	Lens Back	55.18
前側/後側主点位置 (mm)	Front/Rear Principal Position	-101.41 / -125.69
入射/出射瞳位置 (mm)	Entrance/Exit Pupil Position	-146.50 / -185.85
入射/出射瞳径 (mm)	Entrance/Exit Pupil Diameter	11.99 / 16.00
光学ディストーション (%)	Optical Distortion	0.033(1.2Inch) 0.051(IF23mm) 0.075(IF26.5mm)
周辺光量比 (%)	Relative Illumination	99.29(1.2Inch) 98.96(IF23mm) 98.59(IF26.5mm)
質量 (g)	Weight	1560.0
マウント	Mount	M42x1
イメージサークル径 (mm)	Image Circle	φ26.5

### Spec with objective lens MPLFLN 10x

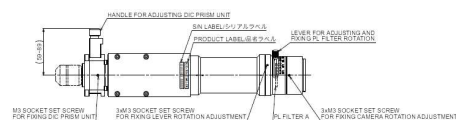
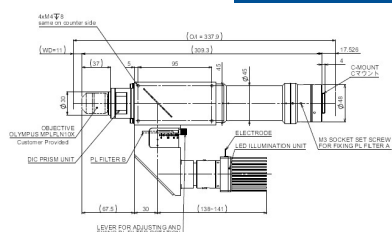
光学倍率	Magnification	10.00
NA	Numerical Aperture	0.300
WD (mm)	Working Distance	11.0
O/I (mm)	Object to Image Distance	337.90
被写界深度 (mm)	DOF @PCoC φ0.02mm	0.006
分解能 (μm) *	Resolution @λ=550nm	1.1

### Spec with objective lens MPLFLN5X

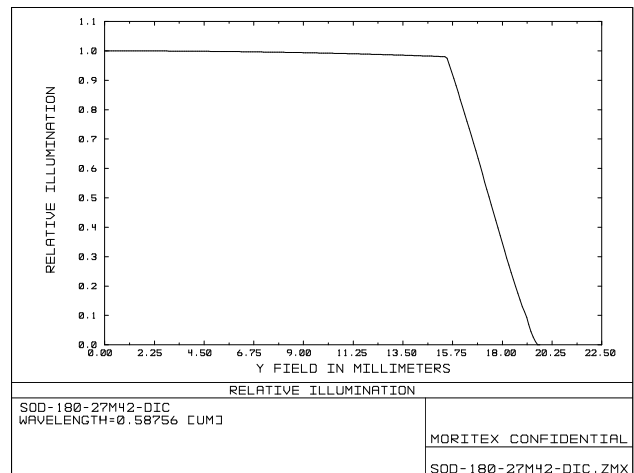
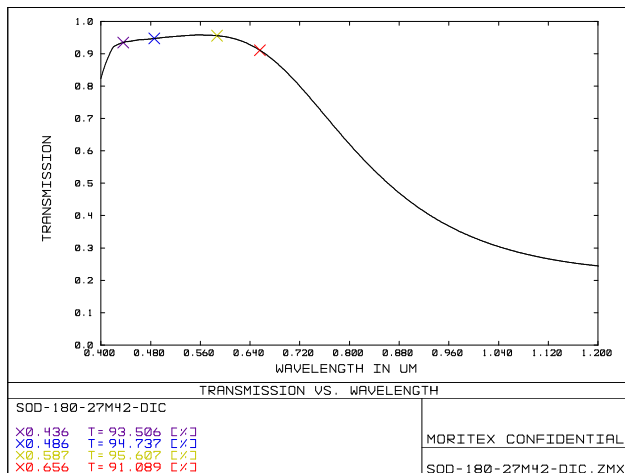
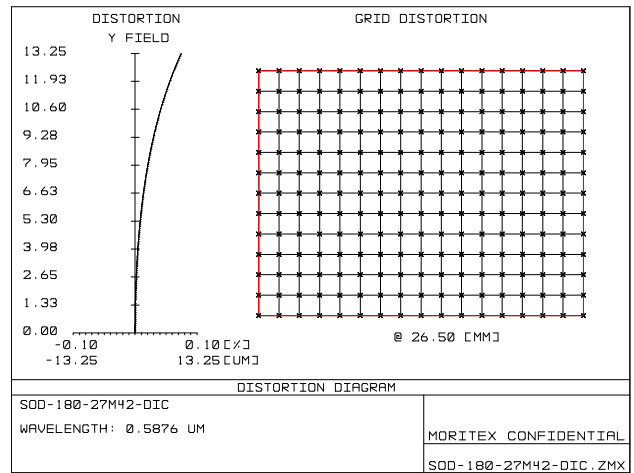
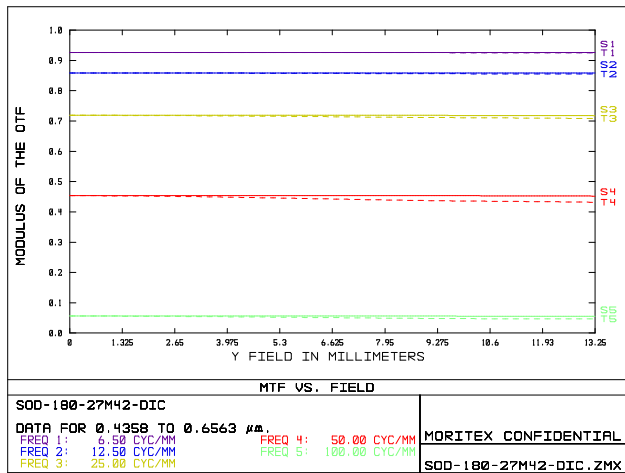
光学倍率	Magnification	5.00
NA	Numerical Aperture	0.150
WD (mm)	Working Distance	20.0
O/I (mm)	Object to Image Distance	337.90
被写界深度 (mm)	DOF @PCoC φ0.02mm	0.026
分解能 (μm) *	Resolution @λ=550nm	2.2

\* Resolution without differential interference contrast. 微分干渉コントラストの影響を無視した時の分解能

### SOD-180-27M42-DIC



# Spec with MPLFLN 10x (✕Objective lens = ideal)



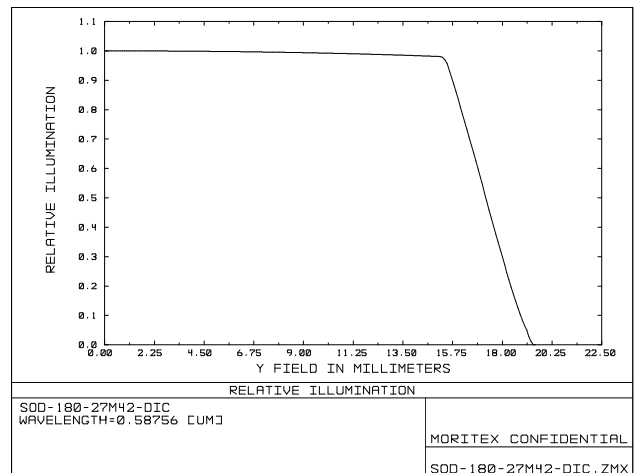
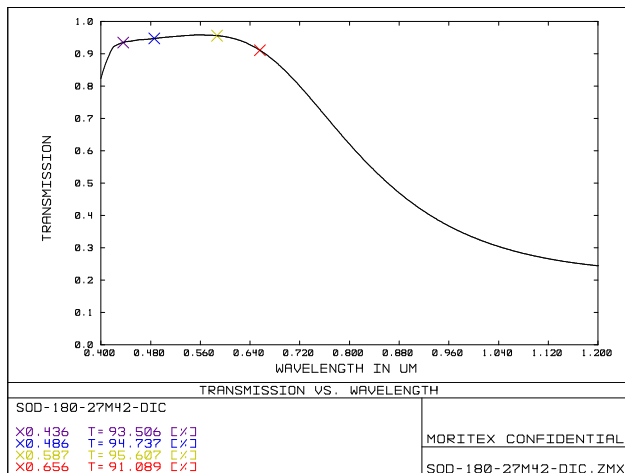
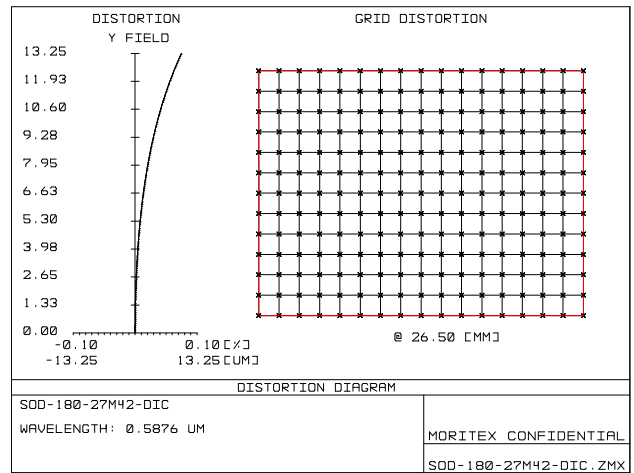
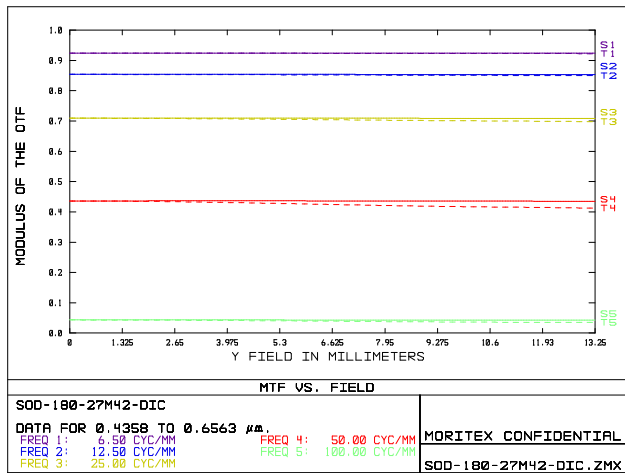
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株式会社 **モリテックス** MORITEX Corporation

Technology center Lens design & Development technology  
 moritex.mvs@moritex.com  
 www.moritex.com



# Spec with MPLFLN 5x (※Objective lens = ideal)



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