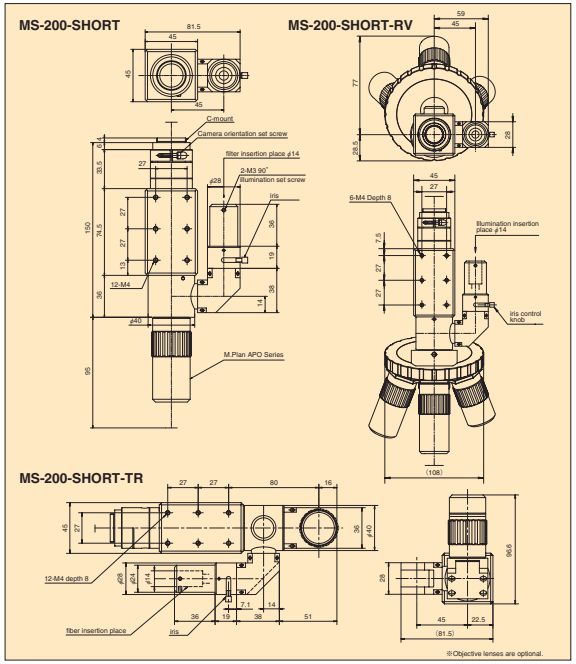
MS-200-SHORT

F=200 Coaxial tube

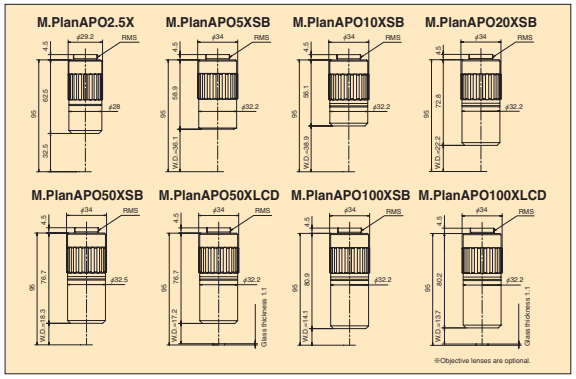
Compact designed tube lens of infinity f=200mm . high resolution , long working distance bright field M.Plan APO lenses are available for this tube lens.



M.Plan APO series

Objective Lens

High resolution , long working distance, bright field M.Plan APO objective lens.
Equivalent for to PS888 series microscope and MS-200-SHORT tube lens.



■ Specification

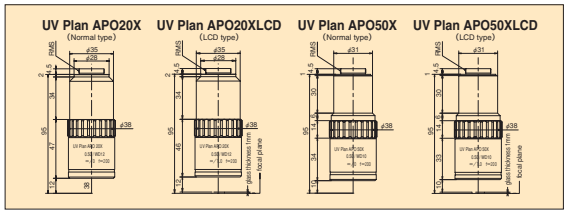
Model#	M.Plan APO2.5×	M.Plan APO5×SB	M.Plan APO10×SB	M.Plan APO20×SB	M.Plan APO50×SB	M.Plan APO100×SB	M.Plan APO50XLCD	M.Plan APO100XLCD
Magnification	2.5×	5×	10×	20×	50×	100×	50×	100×
Working distance	32.5mm	36.1mm	38.9mm	22.2mm	18.3mm	14.1mm	17.2mm	13.7mm
Focal distance (f)	80.0mm	40.0mm	20.0mm	10.0mm	4.0mm	2.0mm	4.0mm	2.0mm
N.A	0.06	0.16	0.23	0.35	0.40	0.52	0.40	0.52
Resolution	5.6μm	2.1μm	1.5μm	1.0μm	0.8μm	0.6μm	0.8μm	0.6μm
Focal Depth (±D.F)	76.4μm	10.7μm	5.2μm	2.2μm	1.7μm	1.0μm	1.7μm	1.0μm
Weight	232g	238g	215g	289g	321g	340g	321g	340g

LCD Type lens is for lens through glass thickness of 1.1mm or 0.7mm. Resolution of objective lens is calculated based wavelength of (λ= 0.55μm) R=0.61X0.55/NA Focal depth ±D (μm) = λ/2 (NA)².

UV PlanAPO 20X・50X

Super long working distance, near ultraviolet objective lens

Bright field super-long working distance objective lens.
The focal plane is corrected for both Bright Field and Near UV (355nm), meaning both wavelengths will be in focus. System is optimized for high transmission at 355nm, such that a microscope fitted with a yag laser can be used for repair of semiconductor and LCD circuits.



■ Specification

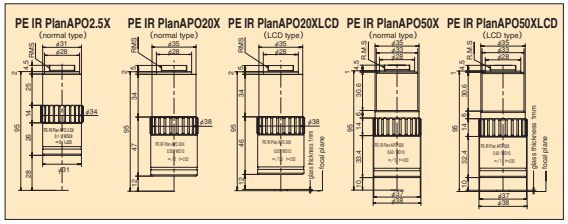
Model#	UV PlanAPO 20X	UV PlanAPO 50X
Magnification	20X	50X
Working distance	12mm	10mm
Focal length	10mm	4mm
N.A	0.5	0.5
Resolution	0.6μm	0.6μm
Depth of focus	1.1μm	1.1μm
Wavelength	345-1064nm	
Transmission	55%<(355nm) 60%<(540nm)	50%<(355nm) 70%<(540nm)
Maximum allowable laser energy	0.1J/cm²@532nm Pulse width 10nsec 0.047J/cm²@355nm Pulse width 10nsec	0.1J/cm²@532nm Pulse width 10nsec 0.028J/cm²@355nm Pulse width 10nsec
Glass correction	—/1.0mm (LCD)	—/1.0mm (LCD)
Weight	435g	510g

Note : Resolution and focal depth of objective lens is calculated using the wavelength of (λ=0.55nm). R=0.61x0.55/N.A Focal depth ±D (μm) =λ/2 (N.A)²

PE IR PlanAPO 2.5X・20X・50X

Near IR lens for Photo emission application

PE IR Plan APO lenses focus on a specific range of 800nm-1600nm with long working distance and high resolution. PE IR Plan APO is precisely color-corrected with 0 focal shift between these two wavelengths.
Available in a 2.5X, 20X and 50X magnifications to suit all your needs.
Note : LCD and Silicon Corrected lens also available.



■ Specification

Model#	PE IR PlanAPO 2.5X	PE IR PlanAPO 20X	PE IR PlanAPO 50X
Magnification	2.5X	20X	50X
Working Distance	30mm	12mm	10mm
Focal length	80mm	10mm	4mm
N.A	0.1	0.5	0.6
Resolution	3.3μm	0.6μm	0.5μm
Depth of focus	27.5μm	1.1μm	0.7μm
Wave length	800-1600nm	400-1600nm	
Transmission	80%<(400-1800nm)	70%<(540nm) 70%<(1300nm)	70%<(540nm) 70%<(1300nm)
Glass correction	—	—/1.0mm (LCD)	—/1.0mm (LCD)
Weight	300g	424g	493g

Note : Resolution and focal depth of objective lens is calculated using the wavelength of (λ=0.55nm). R=0.61x0.55/N.A Focal depth ±D (μm) =λ/2 (N.A)²

Interference objective lens

Double beam interference objective lens, Linnik Interference objective lens are available as custom made.