

Infinite Optical System

Infinity optical systems are used in a variety of imaging or laser focusing applications. Infinity optical systems are microscope objectives that focus at infinity. Infinity optical systems offer long working distances, along with the ability to place optical components such as optical lenses or optical filters into the optical path. When used in imaging applications, Infinity optical systems require a secondary lens to be placed in the optical path to focus the collected light from the specimen onto the sensor. In laser applications, a secondary lens is not needed.

Plan achromatic objective.(f'=200mm) Focal Plane=45mm



Magnification	NA	WD(mm)	f'(mm)	R(μm)	DF(μm))	on object (mm)	on image (mm)	screw
5X	0.12	23.6	40	2.8	42.9	5	25	4/5 X 1/36"
10X	0.25	17.8	20	1.34	10.1	2.2	25	4/5 X 1/36"
20X	0.40	10.4	10	0.8	3.5	1.25	25	4/5 X 1/36"
50X	0.55	7.0	4	0.61	1.4	0.5	25	4/5 X 1/36"
100X	0.8	3.2	2	0.41	0.6	0.25	25	4/5 X 1/36"

Plan achromatic objective.(f'=180mm) Focal Plane=45mm



Magnification	NA	WD(mm)	f'(mm)	R(μm)	DF(μm))	on object (mm)	on image (mm)	screw
2.5X	0.08	11.2	72	4.1	114.3	9	22.5	4/5 X 1/36"
5X	0.12	21.5	36	2.8	42.9	4.5	22.5	4/5 X 1/36"
10X	0.25	15.8	18	1.34	10.1	2.2	22.5	4/5 X 1/36"
20X	0.40	9.3	9	0.8	3.5	1.1	22.5	4/5 X 1/36"
50X	0.55	6.3	3.6	0.61	1.4	0.45	22.5	4/5 X 1/36"
100X	0.8	2.9	1.8	0.41	0.6	0.22	22.5	4/5 X 1/36"



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Plan achromatic objective.(f'=200mm) Focal Plane=95mm



Magnification	NA	WD(mm)	f'(mm)	R(μm)	DF(μm))	on object (mm)	on image (mm)	screw
2X	0.055	34	100	6.1	220	12.5	25	M26X1/36"
5X	0.14	34	40	2.4	34	5	25	M26X1/36"
10X	0.28	34	20	1.2	8.6	2.5	25	M26X1/36"
20X	0.34	32	10	0.9	4.4	1.2	25	M26X1/36"
50X	0.5	21.4	4	0.7	1.8	0.5	25	M26X1/36"
100X	0.7	7.9	2	0.5	0.7	0.25	25	M26X1/36"

Plan achromatic objective.(f'=200mm) Focal Plane=60mm



Magnification	NA	WD(mm)	f'(mm)	R(μm)	DF(μm))	on object (mm)	on image (mm)	screw
2.5X	0.075	6.2	80	4.5	125	10	25	M26X1/36"
5X	0.12	23.6	39	2.7	42.9	5	25	M26X1/36"
10X	0.25	17.7	20	1.3	10.1	2.2	25	M26X1/36"
20X	0.4	19.7	10	0.8	3.5	1.2	25	M26X1/36"
50X	0.6	11.8	4	0.5	1.2	0.5	25	M26X1/36"
100X	0.7	5.5	2	0.5	0.7	0.25	25	M26X1/36"

