

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.

Fluorite Semi-Apochromat Objectives. ($f'=180\text{mm}$)

Magnification	NA	WD(mm)	Screw
4X	0.13	17.15	4/5 X 1/36"
10X	0.30	7.68	4/5 X 1/36"
20X	0.50	1.96	4/5 X 1/36"
40X	0.75	0.78	4/5 X 1/36"
100X	1.30	0.15	4/5 X 1/36"



Long Working Distance Plan Achromatic Objectives (phase contract 1.5) $f'=200\text{mm}$

Magnification	NA	WD(mm)	Screw
10X	0.25	16.78	4/5 X 1/36"
20X	0.40	5.32	4/5 X 1/36"
40X	0.55	5.38	4/5 X 1/36"
60X	0.79	2.98	4/5 X 1/36"



Plan achromatic objectives. ($f'=180\text{mm}$)

Magnification	NA	WD(mm)
4X	0.1	19.37
10X	0.25	15.86
20X	0.40	1.04
40X	0.65	0.67
60X	0.80	0.50
100X	1.25	0.25



Achromatic objectives. ($f'=180\text{mm}$)

Magnification	NA	WD(mm)
4X	0.1	43.07
10X	0.25	6.78
20X	0.40	2.67
40X	0.65	0.65
60X	0.80	0.30
100X	1.25	0.19

