

CHAPTER 4 OPTICS & MATERIALS

MICROSCOPE OBJECTIVES

Standard



Model	Magnification	N.A.	Focal Length	Objective Length
BMO04	4X	0.10	28.5mm	25.0mm
BMO10	10X	0.25	15.8mm	34.0mm
BMO20	20X	0.40	8.5mm	38.9mm
BMO40	40X	0.65	4.7mm	39.6mm
BMO60	60X	0.85	2.9mm	40.8mm

LONG WORKING DISTANCE

- High quality plan apochromat design
- Good color reproducibility
- Long working distance for bright field inspection



	BMO02A	BMO05A	BMO10A	BMO20A	BMO50A	BMO100A
Numerical Aperture, NA	0.055	0.14	0.28	0.42	0.55	0.70
Working Dist, W.D.(mm)	34.0	34.0	33.5	20.0	13.0	6.0
Focal Length(mm)	100	40	20.0	10	4	2
Resolution Power(μm)	5.0	2.0	10	0.7	0.5	0.4
Depth of Focus(μm)	91	14.0	0.7	1.6	0.9	0.6
Field of View-Dia(mm)						
Eyepiece, 24 Dia. Field	12	4.8	1.2	1.2	0.48	0.24
Eyepiece, 18 Dia. Field	9	3.6	0.9	0.9	0.36	0.18
Field of View L x W (mm)						
2/3 CCD Camera	3.3x4.4	1.32x1.8	0.66x0.88	0.33x0.44	0.13x0.18	0.07x0.09
1/2 CCD Camera	2.4x3.2	0.96x1.28	0.48x0.64	0.24x0.32	0.10x0.13	0.05x0.06