10.0 StereoZoom Microscope Tables

These tables provide all the data you need to determine the proper optical combination—eyepieces, Power Pod, and supplementary lenses—for your specific application.

Field diameter (the viewing area) is a function of magnification. The lower the magnification, the larger the field size and vice versa. Choice of magnification depends upon the type of material you will be viewing. In general, you need higher magnification for very fine detail, and lower power to view larger areas or for greater depth of focus.

Stereo 1 1X POWER POD

	Without Supplementary Lens	With .3X Lens	With .5X Lens	With .75X Lens	With 1.5 Lens	With 2X Lens
Wide Field Eyepieces	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.
10X	20mm (.78") / 10X / 100mm (4")	66mm (2.6") / 3X / 247mm (9.7")	40mm (1.56") / 5X / 168mm (6.6")	27mm (1.05") / 7.5X / 105mm (4.1")	13mm (.52") / 15X / 44mm (1.7")	10mm (.39") / 20X / 34mm (1.3")
12.5X	17mm (.66") / 12.5X / 100mm (4")	56mm (2.2") / 3.75X / 247mm (9.7")	34mm (1.32") / 6.25X / 168mm (6.6")	22mm (.86") / 9.4X / 105mm (4.1")	11mm (.44") / 18.75X / 44mm (1.7")	8.4mm (.33") / 25X / 34mm (1.3")
15X	17mm (.66") / 15X / 100mm (4")	56mm (2.2") / 4.5X / 247mm (9.7")	34mm (1.32") / 7.5X / 168mm (6.6")	22mm (.86") / 11.25X / 105mm (4.1")	11mm (.44") / 22.5X / 44mm (1.7")	8.4mm (.33") / 30X / 34mm (1.3")
15X Ultra	20mm (.78") / 15X / 100mm (4")	66mm (2.6") / 4.5X / 247mm (9.7")	40mm (1.56") / 7.5X / 168mm (6.6")	27mm (1.05") / 11.25X / 105mm (4.1")	13mm (.52") / 22.5X / 44mm (1.7")	10mm (.39") / 30X / 34mm (1.3")
20X	12mm (.47") / 20X / 100mm (4")	40mm (1.58") / 6X / 247mm (9.7")	24mm (.94") / 10X / 168mm (6.6")	16mm (.63") / 15X / 105mm (4.1")	8mm (.31") / 30X / 44mm (1.7")	6mm (.24") / 40X / 34mm (1.3")
30X	7mm (.29") / 30X / 100mm (4")	24mm (.95") / 9X / 247mm (9.7")	14mm (.57") / 15X / 168mm (6.6")	10mm (.38") / 22.5X / 105mm (4.1")	5mm (.19") / 45X / 44mm (1.7")	3.6mm (.14") / 60X / 34mm (1.3")

Stereo 2 2X POWER POD

	Without Supplementary Lens	With .3X Lens	With .5X Lens	With .75X Lens	With 1.5 Lens	With 2X Lens
Wide Field Eyepieces	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.
10X	10mm (.39") / 20X / 100mm (4")	33mm (1.3") / 6X / 247mm (9.7")	20mm (.78") / 10X / 168mm (6.6")	13mm (.52") / 15X / 105mm (4.1")	6.7mm (.26") / 30X / 44mm (1.7")	5mm (.20") / 40X / 34mm (1.3")
12.5X	8.4mm (.33") / 25X / 100mm (4")	28mm (1.1") / 7.5X / 247mm (9.7")	17mm (.66") / 12.5X / 168mm (6.6")	11mm (.44") / 18.75X / 105mm (4.1")	5.6mm (.22") / 37.5X / 44mm (1.7")	4.2mm (.16") / 50X / 34mm (1.3")
15X	8.4mm (.33") / 30X / 100mm (4")	28mm (1.1") / 9X / 247mm (9.7")	17mm (.66") / 15X / 168mm (6.6")	11mm (.44") / 22.5X / 105mm (4.1")	5.6mm (.22") / 45X / 44mm (1.7")	4.2mm (.16") / 60X / 34mm (1.3")
15X Ultra	10mm (.39") / 30X / 100mm (4")	33mm (1.3") / 9X / 247mm (9.7")	20mm (.78") / 15X / 168mm (6.6")	13mm (.52") / 22.5X / 105mm (4.1")	6.7mm (.26") / 45X / 44mm (1.7")	5mm (.20") / 60X / 34mm (1.3")
20X	6mm (.24") / 40X / 100mm (4")	20mm (.78") / 12X / 247mm (9.7")	12mm (.47") / 20X / 168mm (6.6")	8mm (.31") / 30X / 105mm (4.1")	4mm (.15") / 60X / 44mm (1.7")	3mm (.12") / 80X / 34mm (1.3")
30X	3.6mm (.14") / 60X / 100mm (4")	12mm (.48") / 18X / 247mm (9.7")	7mm (.29") / 30X / 168mm (6.6")	5mm (.19") / 11.25X / 105mm (4.1")	2.4mm (.10") / 90X / 44mm (1.7")	1.8mm (.07") / 120X / 34mm (1.3")

StereoZoom 3 1X to 2.5X POWER POD

	Without Supplementary Lens	With .3X Lens	With .5X Lens	With .75X Lens	With 1.5 Lens	With 2X Lens
Wide Field Eyepieces	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.
10X	20mm (.78") / 10X / 100mm (4") to 8mm (.31") / to / 25X	66mm (2.6") / 3X / 247mm (9.7") to 26mm (1.0") / to / 7.5X	40mm (1.56") / 5X / 168mm (6.6") to 16mm (.62") / to / 12.5X	27mm (1.05") / 7.5X / 105mm (4.1") to 11mm (.42") / to / 18.75X	13mm (.52") / 15X / 44mm (1.7") to 5.2mm (.20") / to / 37.5X	10mm (.39") / 20X / 34mm (1.3") to 4mm (.15") / to / 50X
12.5X	17mm (.66") / 12.5X / 100mm (4") to 7mm (.26") / to / 31.25X	56mm (2.2") / 3.75X / 247mm (9.7") to 22mm (.88") / to / 9.4X	34mm (1.32") / 6.25X / 168mm (6.6") to 13mm (.53") / to / 15.6X	22mm (.86") / 9.4X / 105mm (4.1") to 9mm (.35") / to / 23.4X	11mm (.44") / 18.75X / 44mm (1.7") to 4.4mm (.17") / to / 46.9X	8.4mm (.33") / 25X / 34mm (1.3") to 3.3mm (.13") / to / 62.5X
15X	17mm (.66") / 15X / 100mm (4") to 7mm (.26") / to / 37.5X	56mm (2.2") / 4.5X / 247mm (9.7") to 22mm (.86") / to / 11.25X	34mm (1.32") / 7.5X / 168mm (6.6") to 13mm (.53") / to / 18.25X	22mm (.88") / 11.25X / 105mm (4.1") to 9mm (.35") / to / 28.1X	11mm (.44") / 22.5X / 44mm (1.7") to 4.4mm (.17") / to / 56.25X	8.4mm (.33") / 30X / 34mm (1.3") to 3.3mm (.13") / to / 75X
15X Ultra	20mm (.78") / 15X / 100mm (4") to 8mm (.31") / to / 37.5X	66mm (2.6") / 4.5X / 247mm (9.7") to 26mm (1.0") / to / 11.25X	40mm (1.56") / 7.5X / 168mm (6.6") to 16mm (.62") / to / 18.25X	27mm (1.05") / 11.25X / 105mm (4.1") to 11mm (.42") / to / 28.1X	13mm (.52") / 22.5X / 44mm (1.7") to 5.2mm (.20") / to / 56.25X	10mm (.39") / 30X / 34mm (1.3") to 4mm (.15") / to / 75X
20X	12mm (.47") / 20X / 100mm (4") to 5mm (.20") / to / 50X	40mm (1.56") / 6X / 247mm (9.7") to 16mm (.63") / to / 15X	24mm (.94") / 10X / 168mm (6.6") to 10mm (.38") / to / 25X	16mm (.63") / 15X / 105mm (4.1") to 6.4mm (.25") / to / 37.5X	8mm (.31") / 30X / 44mm (1.7") to 3.2mm (.13") / to / 75X	6mm (.24") / 40X / 34mm (1.3") to 2.5mm (.10") / to / 100X
30X	7mm (.29") / 30X / 100mm (4") to 3mm (.11") / to / 75X	24mm (.95") / 9X / 247mm (9.7") to 10mm (.38") / to / 22.5X	15mm (.58") / 15X / 168mm (6.6") to 6mm (.23") / to / 37.5X	10mm (.38") / 22.5X / 105mm (4.1") to 4mm (.15") / to / 56.25X	5mm (.19") / 45X / 44mm (1.7") to 2mm (.08") / to / 112.5X	3.7mm (.14") / 60X / 34mm (1.3") to 1.5mm (.059") / to / 150X

StereoZoom 4 .7X to 3X POWER POD

	Without Supplementary Lens	With .3X Lens	With .5X Lens	With .75X Lens	With 1.5 Lens	With 2X Lens
Wide Field Eyepieces	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.
10X	28mm (1.1") / 7X / 100mm (4") to 6.6mm (.26") / to / 30X	93mm (3.7") / 2.1X / 247mm (9.7") to 22mm (.87") / to / 9X	56mm (2.2") / 3.5X / 168mm (6.6") to 13mm (.52") / to / 15X	38mm (1.5") / 5.25X / 105mm (4.1") to 9mm (.35") / to / 22.5X	19mm (.75") / 10.5X / 44mm (1.7") to 4.4mm (.17") / to / 45X	14mm (.56") / 14X / 34mm (1.3") to 3.3mm (.13") / to / 60X
12.5X	24mm (.94") / 8.75X / 100mm (4") to 5.6mm (.22") / to / 37.5X	80mm (3.1") / 2.6X / 247mm (9.7") to 19mm (.73") / to / 11.25X	48mm (1.9") / 4.4X / 168mm (6.6") to 11mm (.44") / to / 18.75X	32mm (1.26") / 6.6X / 105mm (4.1") to 7.5mm (.29") / to / 28.1X	16mm (.63") / 13X / 44mm (1.7") to 3.7mm (.15") / to / 56X	12mm (.47") / 17.5X / 34mm (1.3") to 2.2mm (.11") / to / 75X
15X	24mm (.94") / 10.5X / 100mm (4") to 5.6mm (.22") / to / 45X	93mm (3.7") / 3.15X / 247mm (9.7") to 22mm (.87") / to / 13.5X	48mm (1.9") / 5.25X / 168mm (6.6") to 11mm (.44") / to / 22.5X	32mm (1.26") / 7.9X / 105mm (4.1") to 7.5mm (.29") / to / 34X	16mm (.63") / 16X / 44mm (1.7") to 3.7mm (.15") / to / 67.5X	12mm (.47") / 21X / 34mm (1.3") to 2.2mm (.11") / to / 90X
15X Ultra	28mm (1.11") / 10.5X / 100mm (4") to 6.6mm (.26") / to / 45X	93mm (3.7") / 3.15X / 247mm (9.7") to 22mm (.87") / to / 13.5X	56mm (2.2") / 5.25X / 168mm (6.6") to 13mm (.52") / to / 22.5X	38mm (1.5") / 7.9X / 105mm (4.1") to 9mm (.35") / to / 34X	19mm (.75") / 16X / 44mm (1.7") to 4.4mm (.17") / to / 67.5X	14mm (.56") / 21X / 34mm (1.3") to 3.3mm (.13") / to / 90X
20X	17mm (.67") / 14X / 100mm (4") to 4mm (.16") / to / 60X	57mm (2.2") / 4.2X / 247mm (9.7") to 13mm (.53") / to / 18X	34mm (1.3") / 7X / 168mm (6.6") to 8mm (.31") / to / 30X	23mm (.90") / 10.5X / 105mm (4.1") to 5.3mm (.21") / to / 45X	11mm (.45") / 21X / 44mm (1.7") to 2.7mm (.106") / to / 90X	9mm (.34") / 28X / 34mm (1.3") to 2mm (.08") / to / 120X
30X	10.5mm (.41") / 21X / 100mm (4") to 2.4mm (.10") / to / 90X	35mm (1.4") / 6.3X / 247mm (9.7") to 8mm (.32") / to / 27X	21mm (.82") / 10.5X / 168mm (6.6") to 5mm (.19") / to / 45X	14mm (.55") / 16X / 105mm (4.1") to 3.2mm (.13") / to / 67.5X	7mm (.27") / 31.5X / 44mm (1.7") to 1.6mm (.06") / to / 135X	5.2mm (.21") / 42X / 34mm (1.3") to 1.2mm (.05") / to / 180X

StereoZoom 5 .8X to 4X POWER POD

	Without Supplementary Lens	With .3X Lens	With .5X Lens	With .75X Lens	With 1.5 Lens	With 2X Lens
Wide Field Eyepieces	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.
10X	25mm (.98") / 8X / 100mm (4") to 5mm (.20") / to / 40X	93mm (3.65") / 2.4X / 247mm (9.7") to 16mm (.65") / to / 12X	56mm (1.96") / 4X / 168mm (6.6") to 10mm (.39") / to / 20X	33mm (1.31") / 6X / 105mm (4.1") to 7mm (.26") / to / 30X	17mm (.66") / 12X / 44mm (1.7") to 3.3mm (.13") / to / 60X	12.5mm (.49") / 16X / 34mm (1.3") to 2.5mm (.10") / to / 80X
12.5X	21mm (.83") / 10X / 100mm (4") to 4.2mm (.16") / to / 50X	69mm (2.75") / 3X / 247mm (9.7") to 14mm (.55") / to / 15X	42mm (1.66") / 5X / 168mm (6.6") to 8.4mm (.33") / to / 25X	28mm (1.10") / 7.5X / 105mm (4.1") to 5.6mm (.22") / to / 37.5X	14mm (.55") / 15X / 44mm (1.7") to 2.8mm (.11") / to / 75X	10.5mm (.41") / 20X / 34mm (1.3") to 2.1mm (.09") / to / 100X
15X	21mm (.83") / 12X / 100mm (4") to 4.2mm (.16") / to / 60X	69mm (2.75") / 3.6X / 247mm (9.7") to 14mm (.55") / to / 18X	42mm (1.65") / 6X / 168mm (6.6") to 8.4mm (.33") / to / 30X	28mm (1.10") / 9X / 105mm (4.1") to 5.6mm (.22") / to / 45X	14mm (.55") / 18X / 44mm (1.7") to 2.8mm (.11") / to / 90X	10.5mm (.41") / 24X / 34mm (1.3") to 2.1mm (.08") / to / 120X
15X Ultra	25mm (.98") / 12X / 100mm (4") to 5mm (.20") / to / 60X	83mm (3.25") / 3.6X / 247mm (9.7") to 18mm (.65") / to / 18X	50mm (1.96") / 6X / 168mm (6.6") to 10mm (.39") / to / 30X	33mm (1.31") / 9X / 105mm (4.1") to 7mm (.26") / to / 45X	17mm (.66") / 18X / 44mm (1.7") to 3.3mm (.13") / to / 90X	12.5mm (.49") / 24X / 34mm (1.3") to 2.5mm (.10") / to / 120X
20X	15mm (.59") / 16X / 100mm (4") to 3mm (.12") / to / 80X	50mm (1.97") / 4.8X / 247mm (9.7") to 10mm (.39") / to / 24X	30mm (1.18") / 8X / 168mm (6.6") to 6mm (.24") / to / 40X	20mm (.79") / 12X / 105mm (4.1") to 4mm (.16") / to / 60X	10mm (.39") / 24X / 44mm (1.7") to 2mm (.08") / to / 120X	7.5mm (.30") / 32X / 34mm (1.3") to 1.5mm (.06") / to / 160X
30X	9mm (.36") / 24X / 100mm (4") to 1.8mm (.07") / to / 120X	30mm (1.18") / 7.2X / 247mm (9.7") to 6mm (.24") / to / 36X	18mm (.72") / 12X / 168mm (6.6") to 3.7mm (.14") / to / 60X	12mm (.48") / 18X / 105mm (4.1") to 2.4mm (.10") / to / 90X	6mm (.24") / 36X / 44mm (1.7") to 1.2mm (.05") / to / 180X	4.5mm (.18") / 48X / 34mm (1.3") to 0.9mm (.04") / to / 240X

StereoZoom 7 1X to 7X POWER POD

	Without Supplementary Lens	With .25X Lens	With .5X Lens	With 1.5 Lens	With 2X Lens
Wide Field Eyepieces	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.	Field Diam. / Total Work Dist. / Mag.
10X	20mm (.79") / 10X / 76mm (3") to 2.8mm (.11") / to / 70X	80mm (3.15") / 2.5X / 266mm (10.5") to 11mm (.45") / to / 17.5X	40mm (1.6") / 5X / 127mm (5") to 5.7mm (.22") / to / 35X	13mm (.52") / 15X / 32mm (1.25") to 1.9mm (.07") / to / 105X	10mm (.39") / 20X / 14mm (.56") to 1.4mm (.056") / to / 140X
12.5X	16.5mm (.66") / 12.5X / 76mm (3") to 2.4mm (.09") / to / 87.5X	67mm (2.65") / 3.1X / 266mm (10.5") to 9.5mm (.38") / to / 22X	34mm (1.3") / 6.25X / 127mm (5") to 4.8mm (.19") / to / 43.75X	11mm (.44") / 19X / 32mm (1.25") to 1.6mm (.06") / to / 131X	8.4mm (.33") / 25X / 14mm (.56") to 1.2mm (.05") / to / 175X
15X	14mm (.55") / 15X / 76mm (3") to 2.8mm (.11") / to / 105X	56mm (2.2") / 3.75X / 266mm (10.5") to 8mm (.32") / to / 26.25X	28mm (1.1") / 7.5X / 127mm (5") to 4mm (.16") / to / 52.5X	9.3mm (.37") / 22.5X / 32mm (1.25") to 1.3mm (.05") / to / 157.5X	7mm (.28") / 30X / 14mm (.56") to 1mm (.04") / to / 210X
15X Ultra	20mm (.79") / 15X / 76mm (3") to 2.8mm (.11") / to / 105X	80mm (3.15") / 3.75X / 266mm (10.5") to 11mm (.45") / to / 26.25X	40mm (1.6") / 7.5X / 127mm (5") to 5.7mm (.22") / to / 52.5X	13mm (.52") / 22.5X / 32mm (1.25") to 1.9mm (.07") / to / 157.5X	10mm (.39") / 30X / 14mm (.56") to 1.4mm (.056") / to / 210X
20X	12mm (.47") / 20X / 76mm (3") to 1.7mm (.07") / to / 140X	48mm (1.9") / 5X / 266mm (10.5") to 7mm (.27") / to / 35X	24mm (.94") / 10X / 127mm (5") to 3.4mm (.13") / to / 70X	8mm (.31") / 30X / 32mm (1.25") to 1.1mm (.04") / to / 210X	6mm (.24") / 40X / 14mm (.56") to 0.9mm (.04") / to / 280X
30X	7.3mm (.29") / 30X / 76mm (3") to 1.0mm (.04") / to / 210X	29mm (1.1") / 7.5X / 266mm (10.5") to 4.2mm (.16") / to / 52.5X	15mm (.58") / 15X / 127mm (5") to 2.1mm (.08") / to / 105X	5mm (.19") / 45X / 32mm (1.25") to .7mm (.03") / to / 315X	3.7mm (.14") / 60X / 14mm (.56") to .5mm (.02") / to / 420X