

Model	Zoom Range	Auxiliary Lens	Working Distance (mm)	SWF10X Eyepieces		SWF12.5X Eyepieces		SWF15X Eyepieces		SWF20X Eyepieces		SWF30X Eyepieces	
				Total Mag.	Field (mm)	Total Mag.	Field Diameter (mm)	Total Mag.	Field Diameter (mm)	Total Mag.	Field Diameter (mm)	Total Mag.	Field Diameter (mm)
EMZ-1	1X-3X	none	93	10X ~ 30X	23 ~ 7.7	12.5X ~ 37.5x	20 ~ 6.6	15X ~ 45X	15.4 ~ 5.1	20X ~ 60X	11.5 ~ 3.8	30X ~ 90X	7.7 ~ 2.5
		0.3X	251	3X ~ 9X	76 ~ 25.6	3.75X ~ 11.25X	66 ~ 22	4.5X ~ 13.5X	51.3 ~ 17	6X ~ 18X	38 ~ 12.6	9X ~ 27X	25.5 ~ 8.3
		0.44X	181	4.4X ~ 13.2X	52 ~ 17.5	5.5X ~ 16.5X	45 ~ 15	6.6X ~ 19.8X	35 ~ 11.5	8.8X ~ 26.4X	26 ~ 8.6	13.2X ~ 39.6X	17.5 ~ 5.6
		0.5X	150	5X ~ 15X	46 ~ 15.3	6.25X ~ 18.75X	40 ~ 13.2	7.5X ~ 22.5X	30.6 ~ 10.2	10X ~ 30X	23 ~ 7.6	15X ~ 45X	15.4 ~ 5
		0.75X	97	7.5X ~ 22.5X	30.6 ~ 10.2	9.37X ~ 28.1X	26.6 ~ 8.8	11.25X ~ 33.75X	20.5 ~ 6.8	15 ~ 45X	15 ~ 5.0	22.5X ~ 67.5X	10.2 ~ 3.3
		1.5X	49	15X ~ 45X	15.3 ~ 5.1	18.75X ~ 56.25X	13.3 ~ 4.4	22.5X ~ 67.5X	10.2 ~ 3.4	30X ~ 90X	7.7 ~ 2.5	45X ~ 135X	5.1 ~ 1.6
		2.0X	34	20X ~ 60X	11.5 ~ 3.8	25X ~ 75X	10 ~ 3.3	30X ~ 90X	7.7 ~ 2.6	40X ~ 120X	5.7 ~ 1.9	60X ~ 180X	3.8 ~ 1.2
EMZ-2 EMZ-2TR EMZ-5 EMZ-5TR EMZ-9	0.7X~4.5X	none	93	7X ~ 45X	32.8 ~ 5.1	8.75X ~ 56.25X	28.5 ~ 4.4	10.5X ~ 67.5X	22 ~ 3.4	14X ~ 90X	16.4 ~ 2.5	21X ~ 135X	11 ~ 1.7
		0.3X	251	2.1X ~ 13.5X	109 ~ 17	2.62X ~ 16.87X	95 ~ 14.6	3.15X ~ 20.25X	73 ~ 11.4	4.2X ~ 27X	54.7 ~ 8.5	6.3X ~ 40.5X	36.6 ~ 5.7
		0.44X	171	3.08X ~ 19.8X	74.5 ~ 11.5	3.85X ~ 24.75X	64.7 ~ 10	4.62X ~ 29.7X	50 ~ 7.7	6.16X ~ 39.6X	37.2 ~ 5.9	9.24X ~ 59.4X	25 ~ 3.8
		0.5X	148	3.5X ~ 22.5X	65.7 ~ 10.2	4.37X ~ 28.12X	57 ~ 8.8	5.25X ~ 33.75X	44 ~ 6.8	7X ~ 45X	32.8 ~ 5.1	10.5X ~ 67.5X	22 ~ 3.4
		0.75X	97	5.25X ~ 33.75X	43.8 ~ 6.8	6.56X ~ 42.18X	38 ~ 5.8	7.87X ~ 50.62X	29.3 ~ 4.5	10.5X ~ 67.5X	21.9 ~ 3.4	15.75X ~ 101.25X	14.6 ~ 2.2
		1.5X	49	10.5X ~ 67.5X	21.9 ~ 3.4	13.12X ~ 84.37X	19 ~ 2.9	15.75X ~ 101.25X	14.6 ~ 2.2	21X ~ 135X	10.9 ~ 1.7	31.5X ~ 202.5X	7.3 ~ 1.1
		2.0X	33	14X ~ 90X	16.4 ~ 2.5	17.5x ~ 112.5X	14.2 ~ 2.2	21X ~ 135X	11 ~ 1.7	28X ~ 180X	8.2 ~ 1.2	42X ~ 270X	5.5 ~ 0.8
EMZ-6	0.62X~4.2X	none	108	6.5X ~ 42X	35 ~ 5.4	8.12X ~ 52.5X	30.7 ~ 4.7	9.75X ~ 63X	23.7 ~ 3.6	13x ~ 84X	17.7 ~ 2.7	19.5X ~ 126X	11.8 ~ 1.8
		0.5X	180	3.25X ~ 21X	70 ~ 10.8	4.0X ~ 26.2X	61.4 ~ 9.4	4.87X ~ 31.5X	47.4 ~ 7.2	6.5X ~ 42X	35.4 ~ 5.4	9.75X ~ 63X	23.6 ~ 3.6
Model	Zoom Range	Auxiliary Lens	Working Distance (mm)	SWF10X Eyepieces		SWF12.5X Eyepieces		SWF15X Eyepieces		SWF20X Eyepieces		SWF30X Eyepieces	
				Total Mag.	Field Diameter (mm)	Total Mag.	Field Diameter (mm)	Total Mag.	Field Diameter (mm)	Total Mag.	Field Diameter (mm)	Total Mag.	Field Diameter (mm)
EMZ-10 Z-7100	0.7X~4.5X	none	110	7X ~ 45X	32.8 ~ 5.1	8.75X ~ 56.25X	28.5 ~ 4.4	10.5X ~ 67.5X	22 ~ 3.4	14X ~ 90X	16.4 ~ 2.6	21X ~ 135X	11 ~ 1.7
		0.3X	326	2.1X ~ 13.5X	109 ~ 17	2.62X ~ 16.87X	95 ~ 14.6	3.15X ~ 20.25X	73 ~ 11.3	4.2X ~ 27X	54.6 ~ 8.6	6.3X ~ 40.5X	36.6 ~ 5.7
		0.44X	247	3.08X ~ 19.8X	74.5 ~ 11.5	3.85X ~ 24.75X	64.7 ~ 10	4.62X ~ 29.7X	50 ~ 7.7	6.16X ~ 39.6X	37.2 ~ 5.9	9.24X ~ 59.4X	25 ~ 3.8
		0.5X	194	3.5X ~ 22.5X	65.6 ~ 10.2	4.37X ~ 28.12X	57 ~ 8.8	5.25X ~ 33.75X	44 ~ 6.8	7X ~ 45X	32.8 ~ 5.1	10.5X ~ 67.5X	22 ~ 3.4
		0.75X	127	5.25X ~ 33.75X	43.8 ~ 6.8	6.56X ~ 42.18X	38 ~ 5.8	7.87X ~ 50.62X	29.3 ~ 4.5	10.5X ~ 67.5X	21.8 ~ 3.4	15.75X ~ 101.25X	14.6 ~ 2.2
		1.5X	64	10.5X ~ 67.5X	21.8 ~ 3.4	13.12X ~ 84.37X	19 ~ 2.9	15.75X ~ 101.25X	14.6 ~ 2.2	21X ~ 135X	10.9 ~ 1.7	31.5X ~ 202.5X	7.3 ~ 1.1
		2.0X	44	14X ~ 90X	16.4 ~ 2.5	17.5X ~ 112.5X	14.2 ~ 2.2	21X ~ 135X	11 ~ 1.7	28X ~ 180X	8.2 ~ 1.2	42X ~ 270X	5.5 ~ 0.8
EMZ-12 EMZ-12TR	0.4X~2.5X	none	185	4X ~ 25X	57 ~ 9.2	5X ~ 31.2X	50 ~ 8	6X ~ 37.5X	38.5 ~ 6.1	8X ~ 50X	28.7 ~ 4.6	12X ~ 75X	19.2 ~ 3
		0.7X	233	2.8X ~ 17.5X	82.1 ~ 13.1	3.5X ~ 21.8X	71.4 ~ 11.4	4.2X ~ 26.2X	55 ~ 8.8	5.6X ~ 35X	41 ~ 6.5	8.4X ~ 46.2X	27.5 ~ 4.4
EMZ-13 EMZ-13TR EMZ-13VX	1X~7.0X	none	90	10X ~ 70X	22.0 ~ 3.14	12.5X ~ 87.5X	17.6 ~ 2.51	15X ~ 105X	14.66 ~ 2.09	20X ~ 140X	11.0 ~ 1.57	30X ~ 210X	7.33 ~ 1.04
		0.3X	230	3X ~ 21X	73.33 ~ 10.47	3.75X ~ 26.25X	58.6 ~ 8.38	4.5X ~ 31.5X	48.88 ~ 6.98	6.0X ~ 42.0X	36.6 ~ 5.23	9.0X ~ 63.0X	24.4 ~ 3.49
		0.44X	167	4.4X ~ 30.8X	50.0 ~ 7.13	5.5X ~ 38.5X	40 ~ 4.5	6.6X ~ 46.2X	33.1 ~ 4.5	8.8X ~ 61.6	25.0 ~ 3.5	13.2X ~ 92.4X	16.5 ~ 2.3
		0.5X	139	5X ~ 35X	44.0 ~ 6.28	6.25X ~ 43.75X	35.2 ~ 5.02	7.5X ~ 52.5X	29.3 ~ 4.19	10X ~ 70X	22.0 ~ 3.14	15X ~ 105X	14.6 ~ 2.09
		0.75X	92	7.5X ~ 52.5X	29.3 ~ 4.19	9.37X ~ 65.62X	23.47 ~ 3.35	11.25X ~ 78.75X	19.55 ~ 2.79	15X ~ 105X	14.66 ~ 2.09	22.5X ~ 157.5X	9.77 ~ 1.39
		1.5X	48	15X ~ 105X	14.6 ~ 2.09	18.75X ~ 131.25X	11.73 ~ 1.67	22.5X ~ 157.5X	9.77 ~ 1.39	30X ~ 210X	7.33 ~ 1.04	45X ~ 315X	4.88 ~ 0.69
		2.0X	32	20X ~ 140X	11.0 ~ 1.57	25X ~ 175X	8.8 ~ 1.25	30X ~ 210X	7.33 ~ 1.04	40x ~ 280x	5.5 ~ 0.78	60X ~ 420X	3.66 ~ 0.52
Model	Zoom Range	Auxiliary Lens	Working Distance (mm)	SWF10X Eyepieces		SWF12.5X Eyepieces		SWF15X Eyepieces		SWF20X Eyepieces		SWF30X Eyepieces	
				Total Mag.	Field Diameter (mm)	Total Mag.	Field Diameter (mm)	Total Mag.	Field Diameter (mm)	Total Mag.	Field Diameter (mm)	Total Mag.	Field Diameter (mm)
EMZ-8TR EMZ-8TRD EMZ-8U EMZ-8UD EMZ-8	0.7X~4.5X	none	104	7X ~ 45X	32.8 ~ 5.1	8.75X ~ 56.25X	28.5 ~ 4.4	10.5X ~ 67.5X	22 ~ 3.4	14X ~ 90X	16.4 ~ 2.6	21X ~ 135X	11 ~ 1.7
		0.28X	300	1.96X ~ 12.6X	112.3 ~ 17.4	2.45X ~ 15.75X	97.5 ~ 15.3	2.94X ~ 18.9X	78.1 ~ 12.2	3.92X ~ 25.2X	55.6 ~ 8.7	5.88X ~ 37.8X	34 ~ 5.5
		0.35X	250	2.45X ~ 15.75X	93.7 ~ 14.5	3.06X ~ 19.68X	81.4 ~ 12.5	3.67X ~ 23.62X	62.8 ~ 9.7	4.9X ~ 31.5X	46.8 ~ 7.4	7.35X ~ 47.25X	31.4 ~ 4.8
		0.5X	174	3.5X ~ 22.5X	65.6 ~ 10.2	4.37X ~ 28.12X	57 ~ 8.8	5.25X ~ 33.75X	44 ~ 6.8	7X ~ 45X	32.8 ~ 5.1	10.5X ~ 67.5X	22 ~ 3.4
		1.5X	57	10.5X ~ 67.5X	21.8 ~ 3.4	13.12X ~ 84.37X	19 ~ 2.9	15.75X ~ 101.25X	14.6 ~ 2.2	21X ~ 135X	10.9 ~ 1.7	31.5X ~ 202.5X	7.3 ~ 1.1