

# Stereomicroscope Optics

Product Number	Objective		Working Distance (mm)	Zoom Range		(83330) Eyepiece 10x (f.N. 22) Reticle Diameter 25mm				(83331) Eyepiece 15x (f.N. 16) Reticle Diameter 19mm				(83332) Eyepiece 20x (f.N. 12.5) Reticle Diameter 19mm				(83333) Eyepiece 30x (f.N. 7.0) Reticle Diameter 12mm			
						Magnification		Field Diameter (mm)		Magnification		Field Diameter (mm)		Magnification		Field Diameter (mm)		Magnification		Field Diameter (mm)	
<b>OPTICAL DATA - SMZ-645/660/660V</b>																					
	(Aux.)																				
	None		115	0.8	5.0	8.0	50.0	27.5	4.4	12.0	75.0	20.0	3.2	16.0	100.0	15.6	2.5	24.0	150.0	8.8	1.4
83346	0.29		311	0.2	1.5	2.3	14.5	94.8	15.2	3.5	21.8	69.0	11.0	4.6	29.0	53.9	8.6	7.0	43.5	30.2	4.8
83340	0.5		211	0.4	2.5	4.0	25.0	55.0	8.8	6.0	37.5	40.0	6.4	8.0	50.0	31.3	5.0	12.0	75.0	17.5	2.8
83341	0.70		150	0.6	3.5	5.6	35.0	39.3	6.3	8.4	52.5	28.6	4.6	11.2	70.0	22.3	3.6	16.8	105.0	12.5	2.0
83342	1.5		61	1.2	7.5	12.0	75.0	18.3	2.9	18.0	112.5	13.3	2.1	24.0	150.0	10.4	1.7	36.0	225.0	5.8	0.9
83343	2.0		43.5	1.6	10.0	16.0	100.0	13.8	2.2	24.0	150.0	10.0	1.6	32.0	200.0	7.8	1.3	48.0	300.0	4.4	0.7
(83344	0.77	High Position	102	0.6	3.9	6.2	38.5	35.7	5.7	9.2	57.8	26.0	4.2	12.3	77.0	20.3	3.2	18.5	115.5	11.4	1.8
Ergo Lens)	1.06	Low Position	48	0.8	5.3	8.5	53.0	25.9	4.2	12.7	79.5	18.9	3.0	17.0	106.0	14.7	2.4	25.4	159.0	8.3	1.3
<b>OPTICAL DATA - SMZ-800</b>																					
83470	0.5		123.6	0.5	3.2	5.0	31.5	44.0	7.0	7.5	47.3	32.0	5.1	10.0	63.0	25.0	4.0	15.0	94.5	14.0	2.2
83471	1		70	1.0	6.3	10.0	63.0	22.0	3.5	15.0	94.5	16.0	2.5	20.0	126.0	12.5	2.0	30.0	189.0	7.0	1.1
83472	1.5		44.5	1.5	9.5	15.0	94.5	14.7	2.3	22.5	141.8	10.7	1.7	30.0	189.0	8.3	1.3	45.0	283.5	4.7	0.7
83473	2		32.5	2.0	12.6	20.0	126.0	11.0	1.7	30.0	189.0	8.0	1.3	40.0	252.0	6.3	1.0	60.0	378.0	3.5	0.6
83460	0.5		189	0.5	3.2	5.0	31.5	44.0	7.0	7.5	47.3	32.0	5.1	10.0	63.0	25.0	4.0	15.0	94.5	14.0	2.2
83462	1		78	1.0	6.3	10.0	63.0	22.0	3.5	15.0	94.5	16.0	2.5	20.0	126.0	12.5	2.0	30.0	189.0	7.0	1.1
*83466 ERGO	1		50	1.0	6.3	10.0	63.0	22.0	3.5	15.0	94.5	16.0	2.5	20.0	126.0	12.5	2.0	30.0	189.0	7.0	1.1
83061	0.75		117	0.8	4.7	7.5	47.3	29.3	4.7	11.3	70.9	21.3	3.4	15.0	94.5	16.7	2.6	22.5	141.8	9.3	1.5
<b>OPTICAL DATA - SMZ-1000</b>																					
83470	0.5		123.6	0.4	4.0	4.0	40.0	55.0	5.5	6.0	60.0	40.0	4.0	8.0	80.0	31.3	3.1	12.0	120.0	17.5	1.8
83471	1		70	0.8	8.0	8.0	80.0	27.5	2.8	12.0	120.0	20.0	2.0	16.0	160.0	15.6	1.6	24.0	240.0	8.8	0.9
83472	1.5		44.5	1.2	12.0	12.0	120.0	18.3	1.8	18.0	180.0	13.3	1.3	24.0	240.0	10.4	1.0	36.0	360.0	5.8	0.6
83473	2		32.5	1.6	16.0	16.0	160.0	13.8	1.4	24.0	240.0	10.0	1.0	32.0	320.0	7.8	0.8	48.0	480.0	4.4	0.4
83460	0.5		189	0.4	4.0	4.0	40.0	55.0	5.5	6.0	60.0	40.0	4.0	8.0	80.0	31.3	3.1	12.0	120.0	17.5	1.8
83462	1		78	0.8	8.0	8.0	80.0	27.5	2.8	12.0	120.0	20.0	2.0	16.0	160.0	15.6	1.6	24.0	240.0	8.8	0.9
*83466 ERGO	1		50	0.8	8.0	8.0	80.0	27.5	2.8	12.0	120.0	20.0	2.0	16.0	160.0	15.6	1.6	24.0	240.0	8.8	0.9
83061	0.75		117	0.6	6.0	6.0	60.0	36.7	3.7	9.0	90.0	26.7	2.7	12.0	120.0	20.8	2.1	18.0	180.0	11.7	1.2
<b>OPTICAL DATA - SMZ-1500</b>																					
83480	0.5		136	0.4	5.6	3.8	56.3	58.7	3.9	5.6	84.4	42.7	2.8	7.5	112.5	33.3	2.2	11.3	168.8	18.7	1.2
83481	1		53	0.8	11.3	7.5	112.5	29.3	2.0	11.3	168.8	21.3	1.4	15.0	225.0	16.7	1.1	22.5	337.5	9.3	0.6
83482	1.6		24	1.2	18.0	12.0	180.0	18.3	1.2	18.0	270.0	13.3	0.9	24.0	360.0	10.4	0.7	36.0	540.0	5.8	0.4

\*Vignetting at low magnification when the 83466 ERGO lens is used with the SMZ-800 and the SMZ-1000