

Zoom 6000

Performance Specifications

Zoom 6000 Combinations Lens Attachment + Prime Lens + Adapter	W.D.	System Magnification		N.A. -obj-		Feature Size (microns)		Pixel Size (microns)		Depth of Field (mm)	
		Low Mag.	High Mag.	Low Mag.	High Mag.	Low Mag.	High Mag.	Low Mag.	High Mag.	Low Mag.	High Mag.
0.25x + 6.5X Zoom + 0.5x	356	0.09	0.56	0.010	0.020	28.38	9.32	1.24	2.62	14.50	1.56
0.25x + 6.5X Zoom + 0.67x	356	0.12	0.75	0.010	0.020	28.38	9.32	1.66	3.51	14.50	1.56
0.25x + 6.5X Zoom + 1.0x	356	0.18	1.13	0.010	0.020	28.38	9.32	2.48	5.24	14.50	1.56
0.25x + 6.5X Zoom + 2.0x	356	0.35	2.25	0.010	0.020	28.38	9.32	4.97	10.49	14.50	1.56
0.25x + 6.5X Zoom + 5.0x	356	0.88	5.62	0.010	0.020	28.38	9.32	12.42	26.22	14.50	1.56
0.5x + 6.5X Zoom + 0.5x	175	0.18	1.13	0.010	0.040	14.25	4.70	1.25	2.65	3.66	0.40
0.5x + 6.5X Zoom + 0.67x	175	0.23	1.50	0.010	0.040	14.25	4.70	1.67	3.55	3.66	0.40
0.5x + 6.5X Zoom + 1.0x	175	0.35	2.25	0.010	0.040	14.25	4.70	2.49	5.29	3.66	0.40
0.5x + 6.5X Zoom + 2.0x	175	0.70	4.50	0.010	0.040	14.25	4.70	4.99	10.58	3.66	0.40
0.5x + 6.5X Zoom + 5.0x	175	1.75	11.25	0.010	0.040	14.23	4.69	12.45	26.41	3.65	0.40
0.75x + 6.5X Zoom + 0.5x	113	0.26	1.69	0.020	0.050	9.41	3.11	1.24	2.62	1.59	0.17
0.75x + 6.5X Zoom + 0.67x	113	0.35	2.25	0.020	0.050	9.41	3.11	1.66	3.51	1.59	0.17
0.75x + 6.5X Zoom + 1.0x	113	0.53	3.38	0.020	0.050	9.41	3.11	2.47	5.24	1.59	0.17
0.75x + 6.5X Zoom + 2.0x	113	1.05	6.75	0.020	0.050	9.41	3.11	4.94	10.49	1.59	0.17
0.75x + 6.5X Zoom + 5.0x	113	2.63	16.88	0.020	0.050	9.41	3.11	12.35	26.22	1.59	0.17
None + 6.5X Zoom + 0.5x	92	0.35	2.25	0.020	0.070	7.13	2.36	1.25	2.65	0.91	0.10
None + 6.5X Zoom + 0.67x	92	0.47	3.00	0.020	0.070	7.13	2.36	1.67	3.55	0.91	0.10
None + 6.5X Zoom + 1.0x	92	0.70	4.50	0.020	0.070	7.13	2.36	2.49	5.30	0.91	0.10
None + 6.5X Zoom + 2.0x	92	1.40	9.00	0.020	0.070	7.13	2.36	4.99	10.60	0.91	0.10
None + 6.5X Zoom + 5.0x	92	3.50	22.50	0.020	0.070	7.13	2.36	12.47	26.50	0.91	0.10
1.5x + 6.5X Zoom + 0.5x	51	0.53	3.38	0.030	0.100	4.87	1.61	1.28	2.72	0.43	0.05
1.5x + 6.5X Zoom + 0.67x	51	0.70	4.50	0.030	0.100	4.87	1.61	1.71	3.64	0.43	0.05
1.5x + 6.5X Zoom + 1.0x	51	1.05	6.75	0.030	0.100	4.87	1.61	2.56	5.43	0.43	0.05
1.5x + 6.5X Zoom + 2.0x	51	2.10	13.50	0.030	0.100	4.87	1.61	5.11	10.86	0.43	0.05
1.5x + 6.5X Zoom + 5.0x	51	5.25	33.75	0.030	0.100	4.87	1.61	12.78	27.15	0.43	0.05
2.0x + 6.5X Zoom + 0.5x	36	0.70	4.50	0.050	0.140	3.57	1.18	1.25	2.66	0.23	0.03
2.0x + 6.5X Zoom + 0.67x	36	0.94	6.00	0.050	0.140	3.57	1.18	1.68	3.56	0.23	0.03
2.0x + 6.5X Zoom + 1.0x	36	1.40	9.00	0.050	0.140	3.57	1.18	2.50	5.32	0.23	0.03
2.0x + 6.5X Zoom + 2.0x	36	2.80	18.00	0.050	0.140	3.57	1.18	5.00	10.64	0.23	0.03
2.0x + 6.5X Zoom + 5.0x	36	7.00	45.00	0.050	0.140	3.57	1.18	12.51	26.60	0.23	0.03

Assumptions:

1. Minimum resolvable feature size is half of the threshold line pair limit. Calculation = 1/2(3000 x Object N.A.)
2. Matching pixel size is that which will permit the minimum feature size to overlap two pixels. Calculation = 1/2(Feature Size x System Magnification)
3. If the matching pixel size is greater than the camera pixel size, the system is "lens limited."
4. If the matching pixel size is less than the camera pixel size, the system is "camera limited."



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