

Mvotem Zoom6000

Field of View Matrix

Zoom lens	WD (mm)	MAG (X)	NA Objective	RES (µm)	DOF (mm)	Vision								
						1/3 "			1/2 "			2/3 "		
						H	V	D	H	V	D	H	V	D
						3.6	4.8	6	4.8	6.4	8	6.6	8.8	11
0.25x + (0.7x-4.5x)Zoom + 0.5x	380 (F)253-360	0.09 - 0.56	0.008-0.022	39.6-15.2	13.8-1.6	40.00	53.33	66.67	53.33	71.11	88.89	73.33	88.89	122.22
						6.43	8.57	10.71	8.57	11.43	14.29	11.79	15.71	19.64
0.25x + (0.7x-4.5x)Zoom + 0.67x	380 (F) 253-360	0.12 - 0.75	0.008-0.022	39.6-15.2	13.8-1.6	30.00	40.00	50.00	40.00	53.33	66.67	55.00	73.33	91.67
						4.80	6.40	8.00	6.40	8.53	10.67	8.80	11.73	14.67
0.25x + (0.7x-4.5x)Zoom + 1.0x	380 (F)253-360	0.18 - 1.13	0.008-0.022	39.6-15.2	13.8-1.6	20.00	26.67	33.33	26.67	35.56	44.44	36.67	48.89	61.11
						3.19	4.25	5.31	4.25	5.66	7.08	5.84	7.79	9.73
0.25x + (0.7x-4.5x) Zoom + 1.5x	380 (F)253-360	0.26 - 1.69	0.008-0.022	39.6-15.2	13.8-1.6	13.85	18.46	23.08	18.46	24.62	30.77	25.38	33.85	42.31
						2.13	2.84	3.55	2.84	3.79	4.73	3.91	5.21	6.51
0.25x + (0.7x-4.5x)Zoom + 2.0x	380 (F)253-360	0.35 - 2.25	0.008-0.022	39.6-15.2	13.8-1.6	10.29	13.71	17.14	13.71	18.29	22.86	18.86	25.14	31.43
						1.60	2.13	2.67	2.13	2.84	3.56	2.93	3.91	4.89
0.25x +(0.7x-4.5x)Zoom + 0.35x	380 (F)253-360	0.06 - 0.39	0.008-0.022	39.6-15.2	13.8-1.6	60.00	80.00	100.00	80.00	106.67	133.33	110.00	146.67	183.33
						9.23	12.31	15.38	12.31	16.41	20.51	16.92	22.56	28.21
0.25x +(0.7x-4.5x)Zoom + 5.0x	380 (F)253-360	0.88 - 5.62	0.008-0.022	39.6-15.2	13.8-1.6	4.09	5.45	6.82	5.45	7.27	9.09	7.50	10.00	12.50
						0.64	0.85	1.07	0.85	1.14	1.42	1.17	1.57	1.96
0.5x +(0.7x-4.5x)Zoom + 0.5x	180 (F)147-180	0.18 - 1.13	0.017-0.043	19.8-7.6	6.7-0.41	20.00	26.67	33.33	26.67	35.56	44.44	36.67	48.89	61.11
						3.19	4.25	5.31	4.25	5.66	7.08	5.84	7.79	9.73
0.5x +(0.7x-4.5x)Zoom + 0.67x	180 (F)147-180	0.23 - 1.50	0.017-0.043	19.8-7.6	6.7-0.41	15.65	20.87	26.09	20.87	27.83	34.78	28.70	38.26	47.83
						2.40	3.20	4.00	3.20	4.27	5.33	4.40	5.87	7.33
0.5x +(0.7x-4.5x)Zoom + 1.0x	180 (F)147-180	0.35 - 2.25	0.017-0.043	19.8-7.6	6.7-0.41	10.29	13.71	17.14	13.71	18.29	22.86	18.86	25.14	31.43
						1.60	2.13	2.67	2.13	2.84	3.56	2.93	3.91	4.89
0.5x +(0.7x-4.5x)Zoom + 0.35x	180 (F)147-180	0.12 - 0.79	0.017-0.043	19.8-7.6	6.7-0.41	30.00	40.00	50.00	40.00	53.33	66.67	55.00	73.33	91.67
						4.56	6.08	7.59	6.08	8.10	10.13	8.35	11.14	13.92
0.5x +(0.7x-4.5x)Zoom + 2.0x	180 (F)147-180	0.70 - 4.50	0.017-0.043	19.8-7.6	6.7-0.41	5.14	6.86	8.57	6.86	9.14	11.43	9.43	12.57	15.71
						0.80	1.07	1.33	1.07	1.42	1.78	1.47	1.96	2.44
0.5x +(0.7x-4.5x)Zoom + 1.5x	180 (F)147-180	0.52 - 3.37	0.017-0.043	19.8-7.6	6.7-0.41	6.92	9.23	11.54	9.23	12.31	15.38	12.69	16.92	21.15
						1.07	1.42	1.78	1.42	1.90	2.37	1.96	2.61	3.26
0.5x +(0.7x-4.5x)Zoom + 5.0x	180 (F)147-180	1.75 - 11.25	0.017-0.043	19.8-7.6	6.7-0.41	2.06	2.74	3.43	2.74	3.66	4.57	3.77	5.03	6.29
						0.32	0.43	0.53	0.43	0.57	0.71	0.59	0.78	0.98
0.75x +(0.7x-4.5x)Zoom + 0.5x	121 (F)114-121	0.26 - 1.69	0.025-0.064	13.2-5.06	3.04-0.18	13.85	18.46	23.08	18.46	24.62	30.77	25.38	33.85	42.31
						2.13	2.84	3.55	2.84	3.79	4.73	3.91	5.21	6.51
0.75x +(0.7x-4.5x)Zoom + 0.67x	121 (F)114-121	0.35 - 2.25	0.025-0.064	13.2-5.06	3.04-0.18	10.29	13.71	17.14	13.71	18.29	22.86	18.86	25.14	31.43
						1.60	2.13	2.67	2.13	2.84	3.56	2.93	3.91	4.89
0.75x +(0.7x-4.5x)Zoom + 1.0x	121 (F)114-121	0.53 - 3.38	0.025-0.064	13.2-5.06	3.04-0.18	6.79	9.06	11.32	9.06	12.08	15.09	12.45	16.60	20.75
						1.07	1.42	1.78	1.42	1.89	2.37	1.95	2.60	3.25
0.75x +(0.7x-4.5x)Zoom + 0.35x	121 (F)114-121	0.18 - 1.18	0.025-0.064	13.2-5.06	3.04-0.18	20.00	26.67	33.33	26.67	35.56	44.44	36.67	48.89	61.11
						3.05	4.07	5.08	4.07	5.42	6.78	5.59	7.46	9.32
0.75x +(0.7x-4.5x)Zoom + 2.0x	121 (F)114-121	1.05 - 6.75	0.025-0.064	13.2-5.06	3.04-0.18	3.43	4.57	5.71	4.57	6.10	7.62	6.29	8.38	10.48
						0.53	0.71	0.89	0.71	0.95	1.19	0.98	1.30	1.63
0.75x +(0.7x-4.5x)Zoom + 1.5x	121 (F)114-121	0.78 - 5.06	0.025-0.064	13.2-5.06	3.04-0.18	4.62	6.15	7.69	6.15	8.21	10.26	8.46	11.28	14.10
						0.71	0.95	1.19	0.95	1.26	1.58	1.30	1.74	2.17
0.75x +(0.7x-4.5x)Zoom + 5.0x	121 (F)114-121	2.63 - 16.88	0.025-0.064	13.2-5.06	3.04-0.18	1.37	1.83	2.28	1.83	2.43	3.04	2.51	3.35	4.18
						0.21	0.28	0.36	0.28	0.38	0.47	0.39	0.52	0.65
None +(0.7x-4.5x)Zoom + 0.5x	94 (F)84-94	0.35 - 2.25	0.033-0.086	9.9-3.8	1.7-0.1	10.29	13.71	17.14	13.71	18.29	22.86	18.86	25.14	31.43
						1.60	2.13	2.67	2.13	2.84	3.56	2.93	3.91	4.89
None +(0.7x-4.5x)Zoom + 0.67x	94 (F)84-94	0.47 - 3.00	0.033-0.086	9.9-3.8	1.7-0.1	7.66	10.21	12.77	10.21	13.62	17.02	14.04	18.72	23.40
						1.20	1.60	2.00	1.60	2.13	2.67	2.20	2.93	3.67
None +(0.7x-4.5x)Zoom + 1.0x	94 (F)84-94	0.70 - 4.50	0.033-0.086	9.9-3.8	1.7-0.1	5.14	6.86	8.57	6.86	9.14	11.43	9.43	12.57	15.71
						0.80	1.07	1.33	1.07	1.42	1.78	1.47	1.96	2.44
None +(0.7x-4.5x)Zoom +0.35x	94 (F)84-94	0.25 - 1.58	0.033-0.086	9.9-3.8	1.7-0.1	14.40	19.20	24.00	19.20	25.60	32.00	26.40	35.20	44.00
						2.28	3.04	3.80	3.04	4.05	5.06	4.18	5.57	6.96
None +(0.7x-4.5x)Zoom + 2.0x	94 (F)84-94	1.40 - 9.00	0.033-0.086	9.9-3.8	1.7-0.1	2.57	3.43	4.29	3.43	4.57	5.71	4.71	6.29	7.86
						0.40	0.53	0.67	0.53	0.71	0.89	0.73	0.98	1.22
None +(0.7x-4.5x)Zoom + 1.5x	94 (F)84-94	1.05 - 6.75	0.033-0.086	9.9-3.8	1.7-0.1	3.43	4.57	5.71	4.57	6.10	7.62	6.29	8.38	10.48
						0.53	0.71	0.89	0.71	0.95	1.19	0.98	1.30	1.63
None +(0.7x-4.5x)Zoom + 5.0x	94 (F)84-94	3.50 - 22.50	0.033-0.086	9.9-3.8	1.7-0.1	1.03	1.37	1.71	1.37	1.83	2.29	1.89	2.51	3.14
						0.16	0.21	0.27	0.21	0.28	0.36	0.29	0.39	0.49
1.5x +(0.7x-4.5x)Zoom + 0.5x	49 (F)45-49	0.53 - 3.38	0.049-0.129	6.6-2.5	0.76-0.047	6.79	9.06	11.32	9.06	12.08	15.09	12.45	16.60	20.75
						1.07	1.42	1.78	1.42	1.89	2.37	1.95	2.60	3.25
1.5x +(0.7x-4.5x)Zoom + 0.67x	49 (F)45-49	0.70 - 4.50	0.049-0.129	6.6-2.5	0.76-0.047	5.14	6.86	8.57	6.86	9.14	11.43	9.43	12.57	15.71
						0.80	1.07	1.33	1.07	1.42	1.78	1.47	1.96	2.44



Mvotem Zoom6000

Field of View Matrix

Zoom lens	WD (mm)	MAG (X)	NA Objective	RES (μ m)	DOF (mm)	Vision								
						1/3 "			1/2 "			2/3 "		
						H	V	D	H	V	D	H	V	D
						3.6	4.8	6	4.8	6.4	8	6.6	8.8	11
1.5x +(0.7x-4.5x)Zoom + 1.0x	49 (F)45-49	1.05 - 6.75	0.049-0.129	6.6-2.5	0.76-0.047	3.43	4.57	5.71	4.57	6.10	7.62	6.29	8.38	10.48
						0.53	0.71	0.89	0.71	0.95	1.19	0.98	1.30	1.63
1.5x +(0.7x-4.5x)Zoom +0.35x	49 (F)45-49	0.37 - 2.36	0.049-0.129	6.6-2.5	0.76-0.047	9.73	12.97	16.22	12.97	17.30	21.62	17.84	23.78	29.73
						1.53	2.03	2.54	2.03	2.71	3.39	2.80	3.73	4.66
1.5x +(0.7x-4.5x)Zoom + 2.0x	49 (F)45-49	2.10 - 13.50	0.049-0.129	6.6-2.5	0.76-0.047	1.71	2.29	2.86	2.29	3.05	3.81	3.14	4.19	5.24
						0.27	0.36	0.44	0.36	0.47	0.59	0.49	0.65	0.81
1.5x +(0.7x-4.5x)Zoom + 1.5x	49 (F)45-49	1.58 - 10.13	0.049-0.129	6.6-2.5	0.76-0.047	2.28	3.04	3.80	3.04	4.05	5.06	4.18	5.57	6.96
						0.36	0.47	0.59	0.47	0.63	0.79	0.65	0.87	1.09
1.5x +(0.7x-4.5x)Zoom + 5.0x	49 (F)45-49	5.25 - 33.75	0.049-0.129	6.6-2.5	0.76-0.047	0.69	0.91	1.14	0.91	1.22	1.52	1.26	1.68	2.10
						0.11	0.14	0.18	0.14	0.19	0.24	0.20	0.26	0.33
2.0x +(0.7x-4.5x)Zoom + 0.5x	43 (F)40-43	0.70 - 4.50	0.066-0.172	4.9-1.9	0.38-0.025	5.14	6.86	8.57	6.86	9.14	11.43	9.43	12.57	15.71
						0.80	1.07	1.33	1.07	1.42	1.78	1.47	1.96	2.44
2.0x +(0.7x-4.5x)Zoom + 0.67x	43 (F)40-43	0.94 - 6.00	0.066-0.172	4.9-1.9	0.38-0.025	3.83	5.11	6.38	5.11	6.81	8.51	7.02	9.36	11.70
						0.60	0.80	1.00	0.80	1.07	1.33	1.10	1.47	1.83
2.0x +(0.7x-4.5x)Zoom + 1.0x	43 (F)40-43	1.40 - 9.00	0.066-0.172	4.9-1.9	0.38-0.025	2.57	3.43	4.29	3.43	4.57	5.71	4.71	6.29	7.86
						0.40	0.53	0.67	0.53	0.71	0.89	0.73	0.98	1.22
2.0x +(0.7x-4.5x)Zoom + 0.35x	43 (F)40-43	0.49 - 3.15	0.066-0.172	4.9-1.9	0.38-0.025	7.35	9.80	12.24	9.80	13.06	16.33	13.47	17.96	22.45
						1.14	1.52	1.90	1.52	2.03	2.54	2.10	2.79	3.49
2.0x +(0.7x-4.5x)Zoom + 2.0x	43 (F)40-43	2.80 - 18.00	0.066-0.172	4.9-1.9	0.38-0.025	1.29	1.71	2.14	1.71	2.29	2.86	2.36	3.14	3.93
						0.20	0.27	0.33	0.27	0.36	0.44	0.37	0.49	0.61
2.0x +(0.7x-4.5x)Zoom + 1.5x	43 (F)40-43	2.10 - 13.50	0.066-0.172	4.9-1.9	0.38-0.025	1.71	2.29	2.86	2.29	3.05	3.81	3.14	4.19	5.24
						0.27	0.36	0.44	0.36	0.47	0.59	0.49	0.65	0.81
2.0x +(0.7x-4.5x)Zoom + 5.0x	43 (F)40-43	7.00 - 45.00	0.066-0.172	4.9-1.9	0.38-0.025	0.51	0.69	0.86	0.69	0.91	1.14	0.94	1.26	1.57
						0.08	0.11	0.13	0.11	0.14	0.18	0.15	0.20	0.24

