

Useable Fields-of-View for Zoom 160 w/Coaxial Illumination

FOV-COAX.XLS

Zoom Objective	Camera Format	3/8X TUBE		1/2X TUBE		2/3X TUBE		1X TUBE		1.5X TUBE		2.0X TUBE	
		LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
1.0X WD: 89mm	MAG	.188	3.0	.25	4.0	.33	5.3	.5	8.0	.75	12.0	1.0	16.0
	1/4"	12.8x17.1	0.8x1.1	9.6x12.8	0.6x0.8	7.3x9.7	0.45x0.60	4.8x6.4	0.3x0.4	3.2x4.3	0.2x0.3	2.4x3.2	0.15x0.2
	1/3"	9.6x12.8	1.2x1.6	12.0x16.0	0.9x1.2	10.9x14.5	0.68x0.9	7.2x9.6	0.45x0.6	4.8x6.4	0.3x0.4	3.6x4.8	0.23x0.3
	1/2"	2.8x3.8	1.6x2.1	3.8x5.1	1.2x1.6	7.2x9.6	0.9x1.2	9.6x12.8	0.6x0.8	6.4x8.5	0.4x0.53	4.8x6.4	0.3x0.4
	2/3"	2.7x3.6	2.2x2.9	2.2x2.9	1.65x2.2	3.5x4.7	1.25x1.66	8.8x11.7	0.83x1.1	8.8x11.7	0.55x0.73	6.6x8.8	0.41x0.79
		10		7		4		1					
1.5X WD: 56mm	MAG	.28	4.5	.375	6.0	.5	8.0	.75	12.0	1.13	18.0	1.5	24.0
	1/4"	8.6x11.4	0.5x0.7	6.4x8.5	0.4x0.5	4.8x6.4	0.3x0.4	3.2x4.3	0.2x0.3	2.1x2.8	0.13x0.18	1.6x2.1	0.1x0.13
	1/3"	6.4x8.5	0.8x1.1	9.6x12.8	0.6x0.8	7.2x9.6	0.45x0.6	4.8x6.4	0.3x0.4	3.2x4.2	0.2x0.27	2.4x3.2	0.15x0.2
	1/2"	1.7x2.3	1.1x1.4	4.0x5.3	0.8x1.1	6.0x8.0	0.6x0.8	6.4x8.5	0.4x0.53	4.3x5.7	0.27x0.37	3.2x4.3	0.2x0.27
	2/3"	1.7x2.2	1.5x2.0	1.5x2.0	1.1x1.5	4.4x5.9	0.83x1.1	7.3x9.8	0.55x0.73	5.8x7.8	0.37x0.49	4.4x5.9	0.275x0.37
		11		8		5		2					
2.0X WD: 37mm	MAG	.375	6.0	.5	8.0	.67	10.7	1.0	16.0	1.5	24.0	2.0	32.0
	1/4"	6.4x8.5	0.4x0.5	4.8x6.4	0.3x0.4	3.6x4.8	0.22x0.30	2.4x3.2	0.15x0.2	1.6x2.1	0.1x0.13	1.2x1.6	0.075x0.1
	1/3"	4.0x5.3	0.6x0.8	5.1x6.9	0.45x0.6	5.4x7.2	0.34x0.45	3.6x4.8	0.23x0.3	2.4x3.2	0.15x0.2	1.8x2.4	0.11x0.15
	1/2"	1.3x1.8	0.8x1.1	1.5x2.0	0.6x0.8	2.9x3.8	0.45x0.60	4.8x6.4	0.3x0.4	3.2x4.3	0.2x0.27	2.4x3.2	0.15x0.2
	2/3"	1.2x1.7	1.1x1.5	1.1x1.4	0.83x1.1	1.7x2.2	0.62x0.82	4.4x5.9	0.41x0.79	4.4x5.9	0.275x0.37	3.3x4.4	0.2x0.28
		12		9		6		3					

SHADED AREAS REPRESENT CONDITIONS WHERE ZOOM RANGE IS LIMITED DUE TO VIGNETTING.

Minimum Zoom Setting for Even Illumination

- 1** = 0.5 for 1/4" format
- = 0.5 for 1/3" format
- = 0.5 for 1/2" format
- = 0.75 for 2/3" format
- 2** = 0.5 for 1/4" format
- = 0.5 for 1/3" format
- = 0.5 for 1/2" format
- = 0.6 for 2/3" format
- 3** = 0.5 for 1/4" format
- = 0.5 for 1/3" format
- = 0.5 for 1/2" format
- = 0.75 for 2/3" format
- 4** = 0.5 for 1/4" format
- = 0.5 for 1/3" format
- = 1.0 for 1/2" format
- = 2.8 for 2/3" format

- 5** = 0.5 for 1/4" format
- = 0.5 for 1/3" format
- = 0.8 for 1/2" format
- = 1.5 for 2/3" format
- 6** = 0.5 for 1/4" format
- = 0.5 for 1/3" format
- = 1.25 for 1/2" format
- = 3.0 for 2/3" format
- 7** = 0.5 for 1/4" format
- = 0.6 for 1/3" format
- = 2.5 for 1/2" format
- = 6.0 for 2/3" format
- 8** = 0.5 for 1/4" format
- = 0.5 for 1/3" format
- = 1.6 for 1/2" format
- = 5.9 for 2/3" format

- 9** = 0.5 for 1/4" format
- = 0.7 for 1/3" format
- = 3.2 for 1/2" format
- = 6.2 for 2/3" format
- 10** = 0.5 for 1/4" format
- = 1.0 for 1/3" format
- = 4.5 for 1/2" format
- = 6.5 for 2/3" format
- 11** = 0.5 for 1/4" format
- = 1.0 for 1/3" format
- = 5.0 for 1/2" format
- = 7.0 for 2/3" format
- 12** = 0.5 for 1/4" format
- = 1.2 for 1/3" format
- = 4.75 for 1/2" format
- = 7.0 for 2/3" format

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