

Precise Eye Field of View Matrix

Precise Eye Field of View Matrix (in mm at nominal working distance)

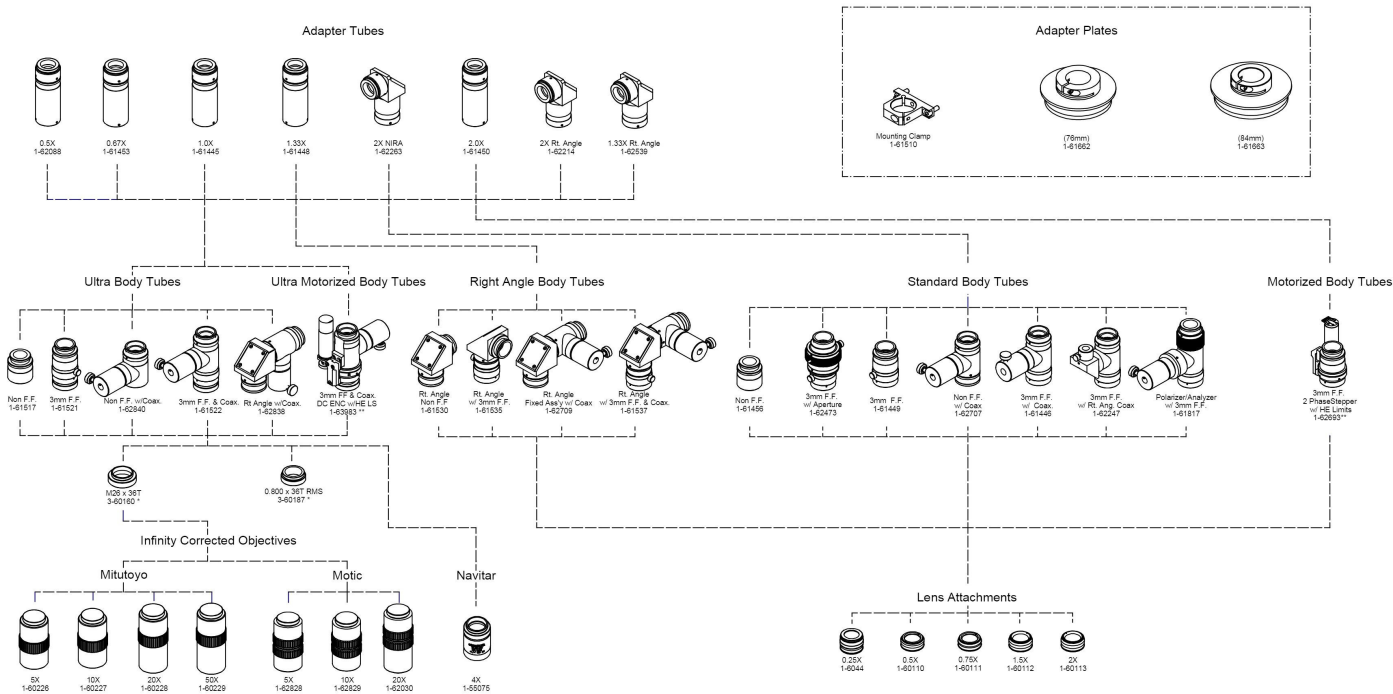
Lens Attachment	W.D. (mm)	Camera Format & Parameters	0.5X Adapter 1-62088 H x V	0.67X Adapter 1-61453 H x V	1.0X Adapter 1-61445 H x V	1.33X Adapter 1-61448 H x V	2.0X Adapter 1-61450 H x V
0.25X 0.018 NA DOF 1.59 mm 1-6044	310 (nominal) 282-351 (1) W.D. Range	Mag.	0.23X	0.30X	0.45X	0.60X	0.90X
		1/4" Sensor	14.2 x 10.7	10.6 x 8.0	7.1 x 5.3	5.3 x 4.0	3.6 x 2.7
		1/3" Sensor	21.3 x 16.0	15.9 x 11.9	10.7 x 8.0	8.0 x 6.0	5.3 x 4.0
		1/2" Sensor	28.4 x 21.3	21.2 x 15.9	14.2 x 10.7	10.7 x 8.0	7.1 x 5.3
		2/3" Sensor	39.1 x 29.3	29.2 x 21.9	19.6 x 14.7	14.7 x 11.0	9.8 x 7.3
0.5X 0.035 NA DOF 0.40 mm 1-60110	175 (nominal) 170-190 (1) W.D. Range	Mag.	0.45X	0.60X	0.90X	1.20X	1.80X
		1/4" Sensor	7.1 x 5.3	5.3 x 4.0	3.6 x 2.7	2.7 x 2.0	1.8 x 1.3
		1/3" Sensor	10.7 x 8.0	8.0 x 6.0	5.3 x 4.0	4.0 x 3.0	2.7 x 2.0
		1/2" Sensor	14.2 x 10.7	10.6 x 8.0	7.1 x 5.3	5.3 x 4.0	3.6 x 2.7
		2/3" Sensor	19.6 x 14.7	14.6 x 10.9	9.8 x 7.3	7.4 x 5.5	4.9 x 3.7
0.75X 0.054 NA DOF 0.18 mm 1-60111	113 (nominal) 110-120 (1) W.D. Range	Mag.	0.68X	0.90X	1.35X	1.80X	2.70X
		1/4" Sensor	4.7 x 3.6	3.5 x 2.7	2.4 x 1.8	1.8 x 1.3	1.2 x 0.9
		1/3" Sensor	7.1 x 5.3	5.3 x 4.0	3.6 x 2.7	2.7 x 2.0	1.8 x 1.3
		1/2" Sensor	9.5 x 7.1	7.1 x 5.3	4.7 x 3.6	3.6 x 2.7	2.4 x 1.8
		2/3" Sensor	13.0 x 9.8	9.7 x 7.3	6.5 x 4.9	4.9 x 3.7	3.3 x 2.4
None 0.070 NA DOF 0.10 mm	92 (nominal) 90-93 (1) W.D. Range	Mag.	0.90X	1.21X	1.80X	2.39X	3.60X
		1/4" Sensor	3.6 x 2.7	2.7 x 2.0	1.8 x 1.3	1.3 x 1.0	0.9 x 0.7
		1/3" Sensor	5.3 x 4.0	4.0 x 3.0	2.7 x 2.0	2.0 x 1.5	1.3 x 1.0
		1/2" Sensor	7.1 x 5.3	5.3 x 4.0	3.6 x 2.7	2.7 x 2.0	1.8 x 1.3
		2/3" Sensor	9.8 x 7.3	7.3 x 5.5	4.9 x 3.7	3.7 x 2.8	2.4 x 1.8
1.5X 0.106 NA DOF 0.04 mm 1-60112	51 (nominal) 49-51 (1) W.D. Range	Mag.	1.35X	1.81X	2.70X	3.59X	5.40X
		1/4" Sensor	2.4 x 1.8	1.8 x 1.3	1.2 x 0.9	0.9 x 0.7	0.6 x 0.4
		1/3" Sensor	3.6 x 2.7	2.7 x 2.0	1.8 x 1.3	1.3 x 1.0	0.9 x 0.7
		1/2" Sensor	4.7 x 3.6	3.5 x 2.7	2.4 x 1.8	1.8 x 1.3	1.2 x 0.9
		2/3" Sensor	6.5 x 4.9	4.9 x 3.6	3.3 x 2.4	2.4 x 1.8	1.6 x 1.2
2.0X 0.142 NA DOF 0.02 mm 1-60113	36 (nominal) 35-36 (1) W.D. Range	Mag.	1.80X	2.41X	3.60X	4.79X	7.20X
		1/4" Sensor	1.8 x 1.3	1.3 x 1.0	0.9 x 0.7	0.7 x 0.5	0.4 x 0.3
		1/3" Sensor	2.7 x 2.0	2.0 x 1.5	1.3 x 1.0	1.0 x 0.8	0.7 x 0.5
		1/2" Sensor	3.6 x 2.7	2.7 x 2.0	1.8 x 1.3	1.3 x 1.0	0.9 x 0.7
		2/3" Sensor	4.9 x 3.7	3.6 x 2.7	2.4 x 1.8	1.8 x 1.4	1.2 x 0.9

NOTE: (1) Working distance range when using 3 mm fine focus. Field of view will change with shorter or longer working distances.



R.J. Wilson, Inc. sales@rjwilson.com **781-335-5500**

Precise Eye
System Diagram



* Included with ULTRA PRECISE EYE
** Items are Special Order (Contact Navitar for Additional Information)