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Find the *Navitar 1-6010* at our website: ***Click HERE***

Unmatched Optical Performance

For high magnification applications, the Zoom 6000 series of lenses is the number one choice around the world. Recognized as the industry standard, our versatile 6.5X zoom lenses are designed to give you the magnification powers of traditional microscopes without the bulk or expense. They are easily integrated, assembled, and configured to your exact application. Compared with the competition, the Navitar Zoom 6000 series offers unmatched optical performance, repeatability and mechanical flexibility.



- Dynamic magnification range of 0.09-393.80X offers incredible versatility
- High contrast images and vivid colors help your equipment perform better
- 0.01-182.72 mm field coverage allows you to view a wide range of parts
- Working distance can be varied from 13 to 390 mm
- Add infinity corrected objective lenses to achieve unmatched edge flatness and clarity
- Body tubes with detents, apertures or motorized are available

Zoom 6000 Field of View Matrix (in mm at nominal W.D.)

Lens Attachment	Working Distance (mm)	Camera Format/ Parameters	.5X Adapter Low - High	.67X Adapter Low - High	1X Adapter Low - High	1.33X Adapter Low - High	2X Adapter Low - High	3.3X Adapter Low - High	5X Adapter Low - High (2)	Resolve Limit (µm) Low-High	Depth of Field (mm) Low-High
0.25X 0.006 - 0.018 NA 1-6044	300 (nominal)	Mag.	0.09X - 0.56X	0.12X - 0.75X	0.18X - 1.13X	0.24X - 1.50X	0.35X - 2.25X	0.59X - 3.73X	0.88X - 5.62X	55.56 - 18.52	13.89 - 1.54
		1/3" Sensor	68.64 - 10.64	51.12 - 8.04	34.32 - 5.32	25.80 - 4.00	17.16 - 2.66	10.40 - 1.61	6.88 - 1.08	55.56 - 18.52	13.89 - 1.54
	220-390 (1) W.D. range	1/2" Sensor	91.36 - 14.16	68.06 - 10.66	45.68 - 7.08	34.34 - 5.32	22.84 - 3.54	13.84 - 2.14	9.12 - 1.44	55.56 - 18.52	13.89 - 1.54
		2/3" Sensor	91.40 - 19.52	93.62 - 14.66	62.84 - 9.76	47.25 - 7.34	31.42 - 4.88	19.04 - 2.96	12.56 - 1.96	55.56 - 18.52	13.89 - 1.54
		1" Sensor (3)	182.72 - 28.32	136.12 - 21.32	91.36 - 14.16	68.68 - 10.64	45.68 - 7.08	27.68 - 4.28	18.24 - 2.88	55.56 - 18.52	13.89 - 1.54
0.5X 0.011 - 0.035 NA 1-60110	175 (nominal)	Mag.	0.18X - 1.13X	0.24X - 1.50X	0.35X - 2.25X	0.46X - 2.99X	0.70X - 4.50X	1.16X - 7.40X	1.75X - 11.25X	30.30 - 9.52	4.13 - 0.41
		1/3" Sensor	34.32 - 5.32	25.56 - 4.00	17.16 - 2.67	12.90 - 2.01	8.58 - 1.33	5.20 - 0.81	3.43 - 0.53	30.30 - 9.52	4.13 - 0.41
	143-187 (1) W.D. range	1/2" Sensor	45.68 - 7.08	34.03 - 5.33	22.85 - 3.56	17.18 - 2.68	11.42 - 1.77	6.92 - 1.08	4.57 - 0.71	30.30 - 9.52	4.13 - 0.41
		2/3" Sensor	45.70 - 9.76	46.81 - 7.33	31.43 - 4.89	23.63 - 3.68	15.71 - 2.44	9.52 - 1.48	6.29 - 0.98	30.30 - 9.52	4.13 - 0.41
		1" Sensor (3)	91.36 - 14.16	68.06 - 10.66	45.70 - 7.12	34.36 - 5.36	22.84 - 3.54	13.84 - 2.16	9.14 - 1.42	30.30 - 9.52	4.13 - 0.41
0.75X 0.017 - 0.053 NA 1-60111	113 (nominal)	Mag.	0.27X - 1.69X	0.35X - 2.25X	0.53X - 3.38X	0.70X - 4.49X	1.05X - 6.75X	1.75X - 11.15X	2.63X - 16.88X	19.60 - 6.28	1.73-0.18
		1/3" Sensor	22.86 - 3.56	17.04 - 2.67	11.43 - 1.78	8.59 - 1.34	5.72 - 0.89	3.46 - 0.54	2.29 - 0.35	19.60 - 6.28	1.73-0.18
	100-119 (1) W.D. range	1/2" Sensor	30.46 - 4.74	22.69 - 3.56	15.23 - 2.37	11.45 - 1.78	7.62 - 1.19	4.62 - 0.72	3.05 - 0.47	19.60 - 6.28	1.73-0.18
		2/3" Sensor	30.50 - 6.52	31.21 - 4.89	20.95 - 3.26	15.75 - 2.45	10.48 - 1.63	6.35 - 0.99	4.19 - 0.65	19.60 - 6.28	1.73-0.18
		1" Sensor (3)	60.92 - 9.48	45.38 - 7.12	30.46 - 4.74	22.90 - 3.56	15.24 - 2.38	9.24 - 1.44	6.10 - 0.94	19.60 - 6.28	1.73-0.18
None 0.023 - 0.071 NA	92 (nominal)	Mag.	0.35X - 2.25X	0.47X - 3.00X	0.70X - 4.50X	0.93X - 5.89X	1.40X - 9.00X	2.31X - 14.85X	3.50X - 22.50X	14.5 - 4.70	0.95 - 0.10
		1/3" Sensor	17.16 - 2.67	12.77 - 2.01	8.58 - 1.33	6.45 - 1.00	4.29 - 0.67	2.60 - 0.40	1.72 - 0.27	14.5 - 4.70	0.95 - 0.10
	81-93 (1) W.D. range	1/2" Sensor	22.85 - 3.56	17.01 - 2.67	11.42 - 1.77	8.59 - 1.33	5.71 - 0.89	3.46 - 0.54	2.28 - 0.36	14.5 - 4.70	0.95 - 0.10
		2/3" Sensor	22.90 - 4.89	23.40 - 3.65	15.71 - 2.44	11.81 - 1.83	7.86 - 1.22	4.76 - 0.74	3.14 - 0.49	14.5 - 4.70	0.95 - 0.10
		1" Sensor (3)	45.70 - 7.12	34.02 - 5.34	22.84 - 3.54	17.18 - 2.66	11.42 - 1.78	6.92 - 1.08	4.56 - 0.72	14.5 - 4.70	0.95 - 0.10
1.5X 0.034 - 0.106 NA 1-60112	51 (nominal)	Mag.	0.53X - 3.38X	0.71X - 4.50X	1.05X - 6.75X	1.40X - 8.98X	2.10X - 13.50X	3.47X - 22.28X	5.25X - 33.75X	9.80 - 3.14	0.43 - 0.04
		1/3" Sensor	11.43 - 1.78	8.52 - 1.33	5.72 - 0.89	4.3 - 0.67	2.86 - 0.44	1.73 - 0.27	1.14 - 0.18	9.80 - 3.14	0.43 - 0.04
	48-52 (1) W.D. range	1/2" Sensor	15.23 - 2.37	11.34 - 1.77	7.62 - 1.19	5.73 - 0.89	3.81 - 0.59	2.31 - 0.36	1.52 - 0.24	9.80 - 3.14	0.43 - 0.04
		2/3" Sensor	15.00 - 3.26	15.60 - 2.44	10.48 - 1.63	7.88 - 1.22	5.24 - 0.81	3.18 - 0.49	2.10 - 0.33	9.80 - 3.14	0.43 - 0.04
		1" Sensor (3)	30.46 - 4.74	22.68 - 3.54	15.24 - 2.38	11.46 - 1.78	7.62 - 1.18	4.62 - 0.72	3.04 - 0.48	9.80 - 3.14	0.43 - 0.04
2.0X 0.040 - 0.142 NA 1-60113	36 (nominal)	Mag.	0.70X - 4.50X	0.94X - 6.00X	1.40X - 9.00X	1.86X - 11.97X	2.80X - 18.00X	4.62X - 29.70X	7.00X - 45.00X	7.24 - 2.34	0.24 - 0.02
		1/3" Sensor	8.58 - 1.33	6.39 - 1.00	4.29 - 0.67	3.22 - 0.50	2.15 - 0.33	1.30 - 0.14	0.86 - 0.13	7.24 - 2.34	0.24 - 0.02
	34-37 (1) W.D. range	1/2" Sensor	11.42 - 1.77	8.51 - 1.33	5.71 - 0.89	4.29 - 0.67	2.86 - 0.44	1.73 - 0.27	1.14 - 0.18	7.24 - 2.34	0.24 - 0.02
		2/3" Sensor	11.40 - 2.44	11.70 - 1.83	7.86 - 1.22	5.91 - 0.92	3.93 - 0.61	2.38 - 0.37	1.57 - 0.24	7.24 - 2.34	0.24 - 0.02
		1" Sensor (3)	22.84 - 3.54	17.02 - 2.66	11.42 - 1.78	8.58 - 1.34	5.72 - 0.88	3.46 - 0.54	2.24 - 0.36	7.24 - 2.34	0.24 - 0.02

The above fields of view are measured diagonally in millimeters (Horizontal = Diagonal x 0.8 and Vertical = Diagonal x 0.6).
(1) Working distance range when using 12 mm fine focus. Field of view will change with shorter or longer working distances.
(2) When using 5X Adapter image quality is greatly reduced. Contact your Navitar sales representative for detailed specifications.
(3) All systems using a 1" sensor should be discussed with a Navitar applications expert.
NA varies depending on system magnification.

Zoom 6000 Performance Specifications

Zoom 6000 Combinations Lens Attachment + Prime Lens + Adapter	Working Distance (mm)	System Magnification Low-High	NA Objective Low-High	Resolve Limit (µm) Low-High	Matching Pixel Size (µm) Low-High	Depth of Field (mm) Low-High
0.25x + 6.5X Zoom + 0.5x	300	0.09 - 0.56	0.006 - 0.018	55.56 - 18.52	2.50 - 5.19	13.89 - 1.54
0.25x + 6.5X Zoom + 0.67x	300	0.12 - 0.75	0.006 - 0.018	55.56 - 18.52	3.33 - 6.95	13.89 - 1.54
0.25x + 6.5X Zoom + 1.0x	300	0.18 - 1.13	0.006 - 0.018	55.56 - 18.52	5.00 - 10.46	13.89 - 1.54
0.25x + 6.5X Zoom + 1.33x	300	0.23 - 1.51	0.006 - 0.018	55.56 - 18.52	6.65 - 13.91	13.89 - 1.54
0.25x + 6.5X Zoom + 2.0x	300	0.35 - 2.25	0.006 - 0.018	55.56 - 18.52	9.72 - 20.84	13.89 - 1.54
0.25x + 6.5X Zoom + 3.3x	300	0.58 - 3.71	0.006 - 0.018	55.56 - 18.52	15.29 - 28.93	13.89 - 1.54
0.25x + 6.5X Zoom + 5.0x	300	0.88 - 5.62	0.006 - 0.018	55.56 - 18.52	24.45 - 52.04	13.89 - 1.54
0.5x + 6.5X Zoom + 0.5x	175	0.18 - 1.13	0.011 - 0.035	30.30 - 9.52	2.73 - 5.38	4.13 - 0.41
0.5x + 6.5X Zoom + 0.67x	175	0.23 - 1.50	0.011 - 0.035	30.30 - 9.52	3.48 - 7.14	4.13 - 0.41
0.5x + 6.5X Zoom + 1.0x	175	0.35 - 2.25	0.011 - 0.035	30.30 - 9.52	5.30 - 10.71	4.13 - 0.41
0.5x + 6.5X Zoom + 1.33x	175	0.47 - 3.03	0.011 - 0.035	30.30 - 9.52	7.05 - 14.24	4.13 - 0.41
0.5x + 6.5X Zoom + 2.0x	175	0.70 - 4.50	0.011 - 0.035	30.30 - 9.52	10.61 - 21.42	4.13 - 0.41
0.5x + 6.5X Zoom + 3.3x	175	1.16 - 7.43	0.011 - 0.035	30.30 - 9.52	15.44 - 39.08	4.13 - 0.41
0.5x + 6.5X Zoom + 5.0x	175	1.75 - 11.25	0.011 - 0.035	30.30 - 9.52	26.51 - 53.55	4.13 - 0.41
0.75x + 6.5X Zoom + 0.5x	113	0.26 - 1.69	0.017 - 0.053	19.62 - 6.28	2.55 - 5.32	1.73 - 0.18
0.75x + 6.5X Zoom + 0.67x	113	0.35 - 2.25	0.017 - 0.053	19.62 - 6.28	3.43 - 7.08	1.73 - 0.18
0.75x + 6.5X Zoom + 1.0x	113	0.53 - 3.38	0.017 - 0.053	19.62 - 6.28	5.20 - 10.63	1.73 - 0.18
0.75x + 6.5X Zoom + 1.33x	113	0.70 - 4.54	0.017 - 0.053	19.62 - 6.28	6.92 - 14.13	1.73 - 0.18
0.75x + 6.5X Zoom + 2.0x	113	1.05 - 6.75	0.017 - 0.053	19.62 - 6.28	10.30 - 21.23	1.73 - 0.18
0.75x + 6.5X Zoom + 3.3x	113	1.73 - 11.14	0.017 - 0.053	19.62 - 6.28	15.36 - 33.31	1.73 - 0.18
0.75x + 6.5X Zoom + 5.0x	113	2.63 - 16.88	0.017 - 0.053	19.62 - 6.28	25.74 - 53.09	1.73 - 0.18
None + 6.5X Zoom + 0.5x	92	0.35 - 2.25	0.023 - 0.071	14.50 - 4.70	2.54 - 5.28	0.95 - 0.10
None + 6.5X Zoom + 0.67x	92	0.47 - 3.00	0.023 - 0.071	14.50 - 4.70	3.41 - 7.04	0.95 - 0.10
None + 6.5X Zoom + 1.0x	92	0.70 - 4.50	0.023 - 0.071	14.50 - 4.70	5.08 - 10.55	0.95 - 0.10
None + 6.5X Zoom + 1.33x	92	0.93 - 6.05	0.023 - 0.071	14.50 - 4.70	6.76 - 14.03	0.95 - 0.10
None + 6.5X Zoom + 2.0x	92	1.40 - 9.00	0.023 - 0.071	14.50 - 4.70	10.15 - 21.11	0.95 - 0.10
None + 6.5X Zoom + 3.3x	92	2.31 - 14.85	0.023 - 0.071	14.50 - 4.70	15.29 - 29.11	0.95 - 0.10
None + 6.5X Zoom + 5.0x	92	3.50 - 22.50	0.023 - 0.071	14.50 - 4.70	25.38 - 52.76	0.95 - 0.10
1.5x + 6.5X Zoom + 0.5x	51	0.53 - 3.38	0.034 - 0.106	9.80 - 3.14	2.60 - 5.32	0.43 - 0.04
1.5x + 6.5X Zoom + 0.67x	51	0.70 - 4.50	0.034 - 0.106	9.80 - 3.14	3.43 - 7.09	0.43 - 0.04
1.5x + 6.5X Zoom + 1.0x	51	1.05 - 6.75	0.034 - 0.106	9.80 - 3.14	5.15 - 10.63	0.43 - 0.04
1.5x + 6.5X Zoom + 1.33	51	1.40 - 9.08	0.034 - 0.106	9.80 - 3.14	6.85 - 14.14	0.43 - 0.04
1.5x + 6.5X Zoom + 2.0x	51	2.10 - 13.50	0.034 - 0.106	9.80 - 3.14	10.29 - 21.26	0.43 - 0.04
1.5x + 6.5X Zoom + 3.3x	51	3.47 - 22.28	0.034 - 0.106	9.80 - 3.14	15.29 - 28.92	0.43 - 0.04
1.5x + 6.5X Zoom + 5.0x	51	5.25 - 33.75	0.034 - 0.106	9.80 - 3.14	25.73 - 53.16	0.43 - 0.04
2.0x + 6.5X Zoom + 0.5x	36	0.70 - 4.50	0.046 - 0.142	7.24 - 2.34	2.54 - 5.29	0.24 - 0.02
2.0x + 6.5X Zoom + 0.67x	36	0.94 - 6.00	0.046 - 0.142	7.24 - 2.34	3.41 - 7.05	0.24 - 0.02
2.0x + 6.5X Zoom + 1.0x	36	1.40 - 9.00	0.046 - 0.142	7.24 - 2.34	5.08 - 10.58	0.24 - 0.02
2.0x + 6.5X Zoom + 1.33	36	1.86 - 12.10	0.046 - 0.142	7.24 - 2.34	6.76 - 14.07	0.24 - 0.02
2.0x + 6.5X Zoom + 2.0x	36	2.80 - 18.00	0.046 - 0.142	7.24 - 2.34	10.15 - 21.15	0.24 - 0.02
2.0x + 6.5X Zoom + 3.3x	36	4.62 - 29.70	0.046 - 0.142	7.24 - 2.34	15.30 - 28.70	0.24 - 0.02
2.0x + 6.5X Zoom + 5.0x	36	7.00 - 45.00	0.046 - 0.142	7.24 - 2.34	25.38 - 52.88	0.24 - 0.02

Assumptions:
1. Minimum resolvable feature size is half of the threshold line pair limit. Calculation = 1/(3000 x Lens NA)
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."

Combine Infinity-Corrected Objectives for Maximum Resolution and Magnification

Navitar's UltraZoom is ideal for semiconductor inspection, flow cytometry, and other high magnification applications. Its advanced design offers high resolution and outstanding contrast. This system incorporates infinity corrected, plan apochromatic objectives providing long working distances and excellent edge flatness and clarity. Resolution varies from 420 to 1,650 lines per mm, depending on the microscope objective used. The UltraZoom is also available with fine focus and/or coaxial illumination.



Zoom 6000 UltraZoom Field of View Matrix
(for part number's 1-60190, 1-60191, 1-60349 and 1-60350 in mm)

Objective Lens Long W.D	Working Distance (mm)	Camera Format/ Parameters	1X Adapter Low - High	1.33X Adapter Low - High	2X Adapter Low - High	3.3X Adapter Low - High
4X 0.20 NA* 1-55341	20	Mag.	1.99X - 9.14X	1.79X - 12.16X	2.78X - 18.29X	4.59X - 30.18X
		1/4" Sensor	2.01 - 0.44	2.24 - 0.33	1.44 - 0.22	0.87 - 0.13
		1/3" Sensor	3.02 - 0.66	3.35 - 0.49	2.16 - 0.33	1.31 - 0.20
		1/2" Sensor	(1) 5.15 - 0.87	4.47 - 0.66	2.87 - 0.44	1.74 - 0.27
		2/3" Sensor	(1) 5.15 - 1.20	6.15 - 0.90	3.95 - 0.60	2.39 - 0.36
5X 0.14 NA* 1-60226	34	Mag.	1.74X - 11.43X	2.30X - 15.00X	3.48X - 22.86X	5.74X - 37.72X
		1/4" Sensor	2.30 - 0.35	1.74 - 0.26	1.15 - 0.17	0.70 - 0.11
		1/3" Sensor	3.45 - 0.52	2.61 - 0.40	1.72 - 0.26	1.04 - 0.16
		1/2" Sensor	(1) 4.05 - 0.70	3.48 - 0.54	2.30 - 0.35	1.39 - 0.21
		2/3" Sensor	(1) 4.02 - 0.96	4.00 - 0.74	3.16 - 0.48	1.92 - 0.29
10X 0.28 NA* 1-60227	33	Mag.	3.48X - 22.86X	4.63X - 29.90X	6.96X - 45.72X	11.48X - 75.44X
		1/4" Sensor	1.15 - 0.17	0.86 - 0.13	0.57 - 0.09	0.35 - 0.05
		1/3" Sensor	1.72 - 0.26	1.30 - 0.20	0.86 - 0.13	0.52 - 0.08
		1/2" Sensor	(1) 2.10 - 0.35	1.73 - 0.27	1.15 - 0.17	0.70 - 0.11
		2/3" Sensor	(1) 2.10 - 0.48	2.10 - 0.37	1.58 - 0.24	0.96 - 0.15
20X 0.42 NA* 1-60228	20	Mag.	6.96X - 45.72X	9.30X - 59.90X	13.92X - 91.40X	22.97X - 150.88X
		1/4" Sensor	0.57 - 0.09	0.43 - 0.07	0.29 - 0.04	0.17 - 0.03
		1/3" Sensor	0.86 - 0.13	0.65 - 0.10	0.43 - 0.07	0.26 - 0.04
		1/2" Sensor	(1) 1.00 - 0.17	0.86 - 0.14	0.57 - 0.09	0.35 - 0.05
		2/3" Sensor	(1) 1.03 - 0.24	1.00 - 0.19	0.79 - 0.12	0.48 - 0.07
50X 0.55 NA* 1-60229	13	Mag.	17.40X - 114.30X	23.00X-150.00X	34.80X - 228.60X	57.42X - 377.19X
		1/4" Sensor	0.23 - 0.03	0.17 - 0.03	0.11 - 0.02	0.07 - 0.011
		1/3" Sensor	0.30 - 0.05	0.26 - 0.04	0.17 - 0.03	0.10 - 0.020
		1/2" Sensor	(1) 0.31 - 0.07	0.30 - 0.05	0.23 - 0.04	0.14 - 0.020
		2/3" Sensor	(1) 0.30 - 0.10	(1) 0.30 - 0.07	(1) 0.30 - 0.05	0.19 - 0.030

NOTE: (1) Entire zoom range is not used. **NA at high mag . NA varies with zoom settings.*

Zoom 6000™ with Co-axial Illumination

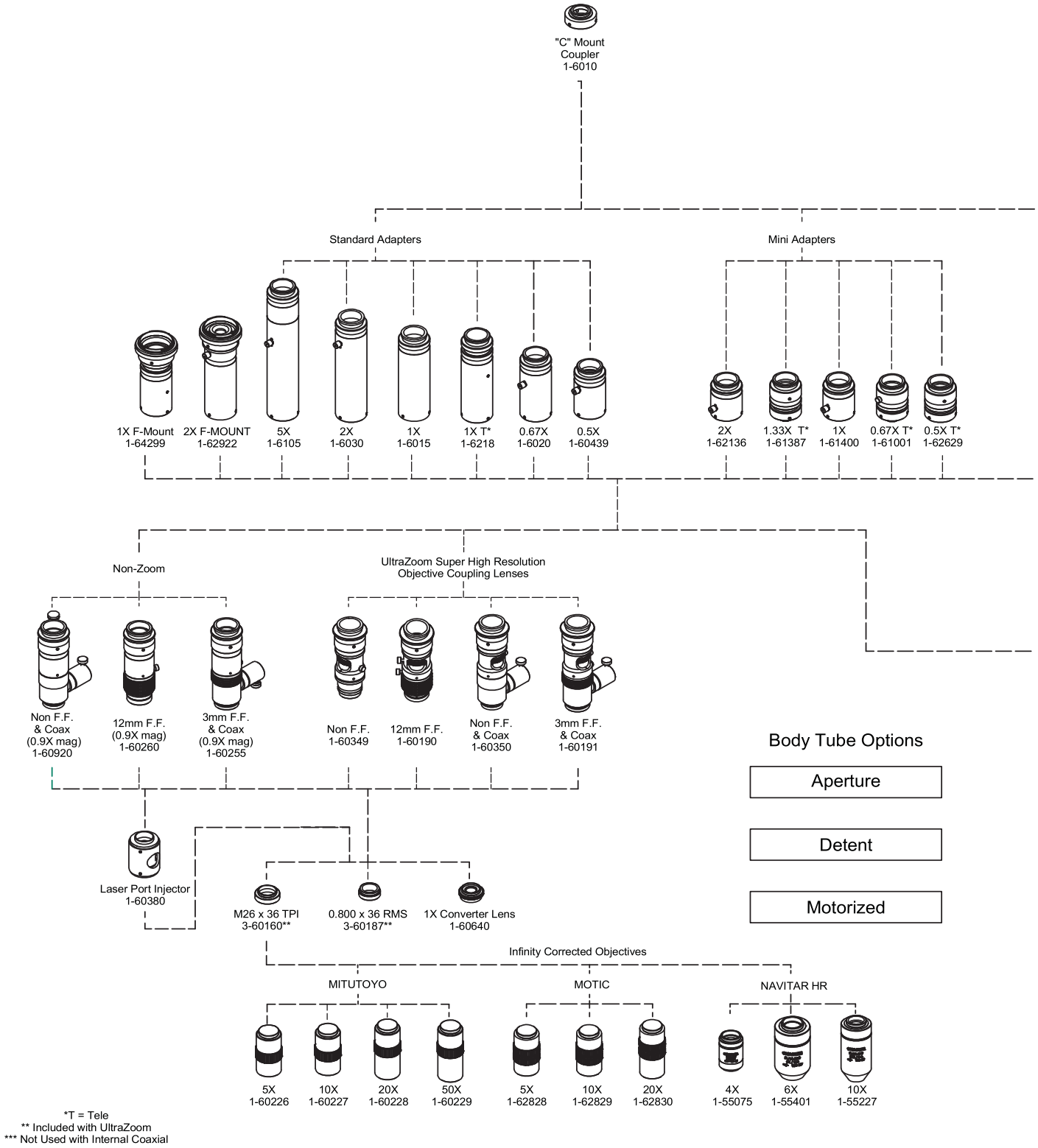
Navitar's Zoom 6000 with Internal Co-axial Illumination (1-60123) is an ideal solution for applications involving highly reflective surfaces, such as wafers, polished samples, and fluids. Designed to provide even illumination for higher magnification applications, coaxial illumination provides extremely detailed resolution, particularly when a high resolution camera is used.

Zoom 6000 with Co-axial Illumination Field of View Matrix 1-60123 (in mm at nominal W.D.)

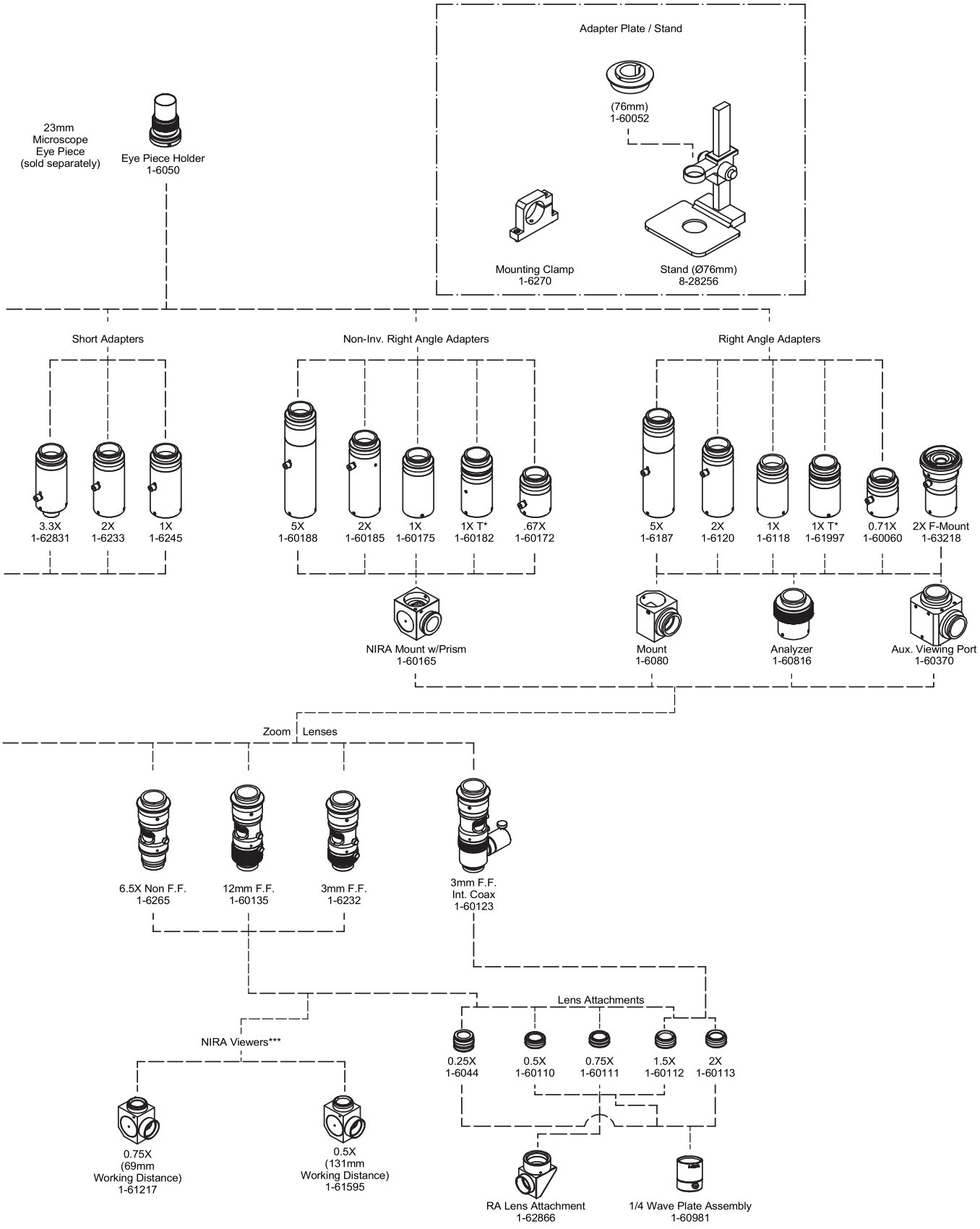
Lens Attachment	W.D. (mm)	Camera Format/ Parameters	.5X Adapter Low - High	.67X Adapter Low - High	1X Adapter Low - High	1.33X Adapter Low - High	2X Adapter Low - High	3.3X Adapter Low - High	5X Adapter Low - High
None 0.023- 0.071 NA	92 (nominal) 90-93 (1) W.D. range	Mag.	0.35X - 2.25X	0.47X - 3.00X	0.70X - 4.50X	0.93X - 6.00X	1.40X - 9.00X	2.45X - 15.75X	3.50X - 22.50X
		1/4" Sensor	11.43 - 1.78	8.51 - 1.33	5.71 - 0.89	4.30X - 0.67	2.86 - 0.45	1.63 - 0.25	1.14 - 0.18
		1/3" Sensor	(2) 11.10 - 2.67	(2) 11.40 - 2.01	8.58 - 1.33	6.45 - 1.00	4.29 - 0.67	2.45 - 0.38	1.72 - 0.27
		1/2" Sensor	(2) 11.20 - 3.56	(2) 11.46 - 2.62	11.42 - 1.77	8.60 - 1.33	5.71 - 0.89	3.27 - 0.51	2.28 - 0.36
		2/3" Sensor	(2) 11.06 - 4.89	(2) 11.54 - 3.60	11.40 - 2.44	11.00 - 1.83	7.86 - 1.22	4.49 - 0.70	3.14 - 0.49
1.5X 0.034- 0.106 NA 1-60112	51 (nominal) 51-53 (1) W.D. range	Mag.	0.53X - 3.38X	0.71X - 4.50X	1.05X - 6.75X	1.40X -9.00X	2.10X - 13.50X	3.70X - 23.60X	5.25X - 33.75X
		1/4" Sensor	7.62 - 1.18	5.67 - 0.89	3.81 - 0.59	2.85 - 0.44	1.91 - 0.30	1.08 - 0.17	0.76 - 0.120
		1/3" Sensor	11.32 - 1.78	8.52 - 1.33	5.72 - 0.89	4.29 - 0.67	2.86 - 0.44	1.62 - 0.25	1.14 - 0.18
		1/2" Sensor	(2) 11.20 - 2.37	11.34 - 1.77	7.62 - 1.19	5.71 - 0.89	3.81 - 0.59	2.16 - 0.34	1.52 - 0.24
		2/3" Sensor	(2) 11.20 - 3.25	(2) 11.20 - 2.44	10.48 - 1.63	7.86 - 1.22	5.24 - 0.81	2.97 - 0.47	2.10 - 0.33
2.0X 0.046- 0.1421 NA 1-60113	36 (nominal) 36-37 (1) W.D. range	Mag.	0.70X - 4.50X	0.94X - 6.00X	1.40X - 9.00X	1.86X-12.00X	2.80X - 18.00X	4.90X-31.50X	7.00X - 45.00X
		1/4" Sensor	5.71 - 0.89	4.26 - 0.67	2.86 - 0.45	2.15 - 0.33	1.43 - 0.23	0.82 - 0.13	0.57 - 0.09
		1/3" Sensor	8.57 - 1.33	6.39 - 1.00	4.29 - 0.67	3.22 - 0.50	2.15 - 0.33	1.22 - 0.19	0.86 - 0.13
		1/2" Sensor	(2) 11.20 - 1.77	8.51 - 1.33	5.71 - 0.89	4.30 - 0.67	2.86 - 0.44	1.63 - 0.25	1.14 - 0.18
		2/3" Sensor	(2) 11.20 - 2.44	(2) 11.70 - 1.83	7.86 - 1.22	5.91 - 0.92	3.93 - 0.61	2.24 - 0.35	1.57 - 0.24

NOTE:
The internal coax will illuminate a circular area of about 11 mm in diameter. Any field of view larger than 11 mm will have darkened corners.
Low power lens attachments can be used but produce increasing vignetting.
(1) Working distance range when using 3 mm fine focus.
(2) Entire zoom range is not used.

ZOOM 6000 SYSTEM DIAGRAM



*T = Tele
** Included with UltraZoom
*** Not Used with Internal Coaxial


Adapter Plate / Stand
(76mm)
1-60052
23mm
Microscope
Eye Piece
(sold separately)
Eye Piece Holder
1-6050
Mounting Clamp
1-6270
Stand (Ø76mm)
8-28256
Short Adapters
Non-Inv. Right Angle Adapters
Right Angle Adapters
3.3X
1-62831
2X
1-6233
1X
1-6245
5X
1-60188
2X
1-60185
1X
1-60175
1X T*
1-60182
.67X
1-60172
5X
1-6187
2X
1-6120
1X
1-6118
1X T*
1-61997
0.71X
1-60060
2X F-Mount
1-63218
NIRA Mount w/Prism
1-60165
Mount
1-6080
Analyzer
1-60816
Aux. Viewing Port
1-60370
Zoom Lenses
6.5X Non F.F.
1-6265
12mm F.F.
1-60135
3mm F.F.
1-6232
3mm F.F.
Int. Coax
1-60123
Lens Attachments
NIRA Viewers***
0.25X
1-6044
0.5X
1-60110
0.75X
1-60111
1.5X
1-60112
2X
1-60113
0.75X
(69mm
Working Distance)
1-61217
0.5X
(131mm
Working Distance)
1-61595
RA Lens Attachment
1-62866
1/4 Wave Plate Assembly
1-60981

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