



Nexview™ / Newview™ 8000 / ZeGage™ Objective Chart

Magnification	Standard							
	1.4X	2.75X	5.5X	10X	20X	22X	50X	100X ⁽¹⁾
Design	ZWF	Michelson	Michelson	Mirau	Mirau	Michelson	Mirau	Mirau
NA	0.04	0.08	0.15	0.30	0.40	0.10	0.55	0.85
Working Dist (mm)	4.0	4.5	8.0	7.4	4.7	4.2	3.4	0.5
Optical Res (μm)	7.13	3.56	1.90	0.95	0.71	2.85	0.52	0.34
Slope Limit (deg)	1.85	3.71	7.27	14.53	21.80	4.84	28.13	40.36
Parfocal Dist (mm)	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
Thread	M25	M25	M25	0.8 RMS	0.8 RMS	M25	0.8 RMS	M25
Turret Mountable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ZYGO P/N	6401-0179-01	6401-0100-03	6401-0101-02	6300-0194-01	6300-0595-01 6300-0596-01 (low reflectivity)	6401-0135-02	6300-0597-01	6401-0124-01
Field of View based on Zoom (square mm)								
0.5X ⁽¹⁾	12.09	6.05	3.02	1.68	0.84	0.76	0.34	0.17
1.0X	6.00	3.00	1.50	0.83	0.42	0.38	0.17	0.08
2.0X ⁽¹⁾	3.02	1.51	0.76	0.42	0.21	0.19	0.08	0.04
Spatial Sampling based on Zoom (μm)								
0.5X ⁽¹⁾	11.81	5.91	2.95	1.64	0.82	0.75	0.33	0.16
1.0X	5.86	2.93	1.47	0.82	0.41	0.37	0.17	0.08
2.0X ⁽¹⁾	2.95	1.48	0.74	0.41	0.21	0.19	0.08	0.04

Specifications based on 1024 x 1024 Array

Notes: Optical Resolution is based on Sparrow Criteria $= 0.5\lambda / \text{NA}$, where $\lambda = 570$ nm.

Slope Limit in degrees based on 1X field zoom lens; note that slope values are listed for specular surfaces; rougher surfaces can be measured at much higher slope limits.

Parfocal Dist is the distance from the objective shoulder to objective focal plane; objectives with same distance can be interchanged with little or no refocusing; standard 10X, 20X, and 50X parfocal distance assumes use of included 3.53 mm adapter ring.

Spatial Sampling is the pixel size on the sample. It is derived from the camera pixel size divided by the system magnification.

(1) Not applicable to ZeGage. (2) 0.5X objective requires a 50 mm or longer riser kit.



Specifications subject to change without prior notice.



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Magnification	Long Working Distance (LWD)				Super Long Working Distance (SLWD)			Glass Compensated (GC)		
	1X	2X	5X	10X	0.5X ⁽¹⁾⁽²⁾	1X ⁽¹⁾	5X	2X	5X	10X
Design	Michelson	Michelson	Michelson	Michelson	ZWF	Michelson	Michelson	Michelson	Michelson	Michelson
NA	0.03	0.055	0.14	0.28	0.015	0.03	0.12	0.055	0.14	0.28
Working Dist (mm)	8.0	21.0	21.0	19.0	50.0	40.0	40.0	18.5	19.0	18.0
Optical Res (μm)	9.50	5.18	2.04	1.02	19.00	9.50	2.38	5.18	2.04	1.02
Slope Limit (deg)	1.34	2.66	6.30	13.13	0.67	1.34	5.81	2.66	6.30	13.13
Parfocal Dist (mm)	122.8	120.0	120.0	120.0	284.0	181.5	120.0	120.0	120.0	120.0
Thread	M25	M25	M25	M25	N/A	N/A	M25	M25	M25	M25
Turret Mountable	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes
ZYGO P/N	6300-0318-01 6300-0316-01 (dovetail)	6401-0126-01	6401-0127-02	6401-0128-01	6401-0175-01	6300-0307-01	6401-0131-02	6401-0115-01	6401-0112-01	6401-0106-01
Field of View based on Zoom (square mm)										
0.5X ⁽¹⁾	16.81	8.41	3.36	1.47	33.62	16.81	3.36	8.41	3.36	1.47
1.0X	8.34	4.17	1.67	0.73	16.69	8.34	1.67	4.17	1.67	0.73
2.0X ⁽¹⁾	4.20	2.10	0.84	0.37	8.41	4.20	0.84	2.10	0.84	0.37
Spatial Sampling based on Zoom (μm)										
0.5X ⁽¹⁾	16.42	8.21	3.28	1.44	32.84	16.42	3.28	8.21	3.28	1.44
1.0X	8.15	4.07	1.63	0.71	16.30	8.15	1.63	4.07	1.63	0.72
2.0X ⁽¹⁾	4.10	2.05	0.82	0.36	8.21	4.10	0.82	2.05	0.82	0.36

Specifications based on 1024 x 1024 Array

Notes: Optical Resolution is based on Sparrow Criteria = $0.5\lambda/\text{NA}$, where $\lambda = 570$ nm.

Slope Limit in degrees based on 1X field zoom lens; note that slope values are listed for specular surfaces; rougher surfaces can be measured at much higher slope limits.

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