



# Nexview™ NX2 / NewView™ 9000 Objective Chart

	Standard							
Magnification	1.4X	2.75X	5.5X	10X	20X	22X	50X	100X
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 w/ inc. adapter	60.0 w/ inc. adapter	60.0	60.0 w/ inc. adapter	60.0
Thread	M25	M25	M25	0.8 RMS M25 w/ inc. adapter	0.8 RMS M25 w/ inc. adapter	M25	0.8 RMS M25 w/ inc. adapter	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 (LR)	6401-0135-02	6300-0597-01	6401-0124-01

## Field of View (mm) based on Zoom and Camera Array Size

1600 x 1200 Full FOV      0.5X Zoom will vignette for full FOV; image stitching is not supported  
 1000 x 1000 Square FOV      All Zoom optics are compatible with 1000 x 1000 FOV

<b>0.5X</b>	---	---	---	---	---	---	---	---
6300-0522-02	12.38 x 12.38	6.30 x 6.30	3.15 x 3.15	1.75 x 1.75	0.87 x 0.87	0.80 x 0.80	0.35 x 0.35	0.17 x 0.17
<b>0.75X</b>	13.12 x 9.84	6.68 x 5.01	3.34 x 2.51	1.86 x 1.39	0.93 x 0.70	0.84 x 0.63	0.37 x 0.28	0.19 x 0.14
6300-0523-02	8.21 x 8.21	4.18 x 4.18	2.09 x 2.09	1.16 x 1.16	0.58 x 0.58	0.53 x 0.53	0.23 x 0.23	0.12 x 0.12
<b>1.0X</b>	9.82 x 7.37	5.00 x 3.75	2.50 x 1.88	1.39 x 1.04	0.69 x 0.52	0.63 x 0.47	0.28 x 0.21	0.14 x 0.10
6300-0524-02	6.15 x 6.15	3.13 x 3.13	1.56 x 1.56	0.87 x 0.87	0.43 x 0.43	0.39 x 0.39	0.17 x 0.17	0.09 x 0.09
<b>1.5X</b>	6.56 x 4.93	3.34 x 2.51	1.67 x 1.25	0.93 x 0.70	0.46 x 0.35	0.42 x 0.32	0.19 x 0.14	0.09 x 0.07
6300-0525-02	4.11 x 4.11	2.09 x 2.09	1.04 x 1.04	0.58 x 0.58	0.29 x 0.29	0.26 x 0.26	0.12 x 0.12	0.06 x 0.06
<b>2.0X</b>	4.95 x 3.71	2.52 x 1.89	1.26 x 0.94	0.70 x 0.82	0.35 x 0.26	0.32 x 0.24	0.14 x 0.10	0.07 x 0.05
6300-0526-02	3.08 x 3.08	1.57 x 1.57	0.79 x 0.79	0.44 x 0.44	0.22 x 0.22	0.20 x 0.20	0.09 x 0.09	0.04 x 0.04

## Spatial Sampling based on Zoom (µm/pixel)

<b>0.5X</b>	12.38	6.30	3.15	1.75	0.87	0.80	0.35	0.18
<b>0.75X</b>	8.21	4.18	2.09	1.16	0.58	0.53	0.23	0.12
<b>1.0X</b>	6.15	3.13	1.56	0.87	0.43	0.40	0.17	0.09
<b>1.5X</b>	4.11	2.09	1.04	0.58	0.29	0.26	0.12	0.06
<b>2.0X</b>	3.08	1.57	0.79	0.44	0.22	0.20	0.09	0.04

Notes: Optical Res is based on Sparrow Criteria =  $0.5\lambda/NA$ , 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; standard 10X, 20X, and 50X parfocal distance assumes use of included 3.53 mm adapter ring.

Specifications subject to change without prior notice.



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# Nexview™ NX2 / NewView™ 9000 Objective Chart

	Long Working Distance (LWD)				Super Long Working Distance (SLWD)		Glass Compensated (GC)		
Magnification	1X	2X	5X	10X	1X	5X	2X	5X	10X
Design	Michelson	Michelson	Michelson	Michelson	Michelson	Michelson	Michelson	Michelson	Michelson
NA	0.03	0.055	0.14	0.28	0.03	0.12	0.055	0.14	0.28
Working Dist (mm)	8.0	21.0	21.0	19.0	40.0	40.0	18.5	19.0	18.0
Optical Res (µm)	9.50	5.18	2.04	1.02	9.50	2.38	5.18	2.04	1.02
Slope Limit (deg)	1.34	2.66	6.30	13.13	1.34	5.81	2.66	6.30	13.13
Parfocal Dist (mm)	122.8	120.0	120.0	120.0	181.5	120.0	120.0	120.0	120.0
Thread	M25	M25	M25	M25	N/A	M25	M25	M25	M25
Turret Mountable	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
ZYGO P/N	6300-0318-01	6401-0126-02	6401-0127-02	6401-0128-02	6300-0307-01	6401-0131-02	6401-0115-01	6401-0112-01	6401-0106-01

## Field of View (mm) based on Zoom and Camera Array Size

1600 x 1200 Full FOV

0.5X Zoom will vignette for full FOV; image stitching is not supported

1000 x 1000 Square FOV

All Zoom optics are compatible with 1000 x 1000 FOV; 1x will be clipped to Ø 22.0 mm

<b>0.5X</b>	---	---	---	---	---	---	---	---	---
6300-0522-02	17.49 x 17.49*	8.75 x 8.75	3.50 x 3.50	1.53 x 1.53	17.49 x 17.49	3.50 x 3.50	8.75 x 8.75	3.50 x 3.50	1.53 x 1.53
<b>0.75X</b>	18.57 x 13.92	9.28 x 6.96	3.71 x 2.78	1.62 x 1.22	18.57 x 13.92	3.71 x 2.78	9.28 x 6.96	3.71 x 2.78	1.62 x 1.22
6300-0523-02	11.60 x 11.60	5.8 x 5.8	2.32 x 2.32	1.01 x 1.01	11.60 x 11.60	2.32 x 2.32	5.8 x 5.8	2.32 x 2.32	1.01 x 1.01
<b>1.0X</b>	13.89 x 10.42	6.95 x 5.21	2.78 x 2.08	1.21 x 0.91	13.89 x 10.42	2.78 x 2.08	6.95 x 5.21	2.78 x 2.08	1.21 x 0.91
6300-0524-02	8.68 x 8.68	4.34 x 4.34	1.74 x 1.74	0.76 x 0.76	8.68 x 8.68	1.74 x 1.74	4.34 x 4.34	1.74 x 1.74	0.76 x 0.76
<b>1.5X</b>	9.28 x 6.96	4.64 x 3.48	1.86 x 1.39	0.81 x 0.61	9.28 x 6.96	1.86 x 1.39	4.64 x 3.48	1.86 x 1.39	0.81 x 0.61
6300-0525-02	5.80 x 5.80	2.90 x 2.90	1.16 x 1.16	0.51 x 0.51	5.80 x 5.80	1.16 x 1.16	2.90 x 2.90	1.16 x 1.16	0.51 x 0.51
<b>2.0X</b>	7.00 x 5.25	3.50 x 2.62	1.40 x 1.05	0.61 x 0.46	7.00 x 5.25	1.40 x 1.05	3.50 x 2.62	1.40 x 1.05	0.61 x 0.46
6300-0526-02	4.37 x 4.37	2.19 x 2.19	0.87 x 0.87	0.38 x 0.38	4.37 x 4.37	0.87 x 0.87	2.19 x 2.19	0.87 x 0.87	0.38 x 0.38

## Spatial Sampling based on Zoom (µm/pixel)

<b>0.5X</b>	17.49	8.75	3.50	1.53	17.49	3.50	8.75	3.50	1.53
<b>0.75X</b>	11.60	5.80	2.32	1.01	11.60	2.32	5.80	2.32	1.01
<b>1.0X</b>	8.68	4.34	1.74	0.76	8.68	1.74	4.34	1.74	0.76
<b>1.5X</b>	5.80	2.90	1.16	0.51	5.80	1.16	2.90	1.16	0.51
<b>2.0X</b>	4.37	2.19	0.87	0.38	4.37	0.87	2.19	0.87	0.38

Notes: Optical Res is based on Sparrow Criteria =  $0.5\lambda/NA$ , 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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