

Gain greater working distance and faster focus by integrating a tunable lens focus module with the Navitar Zoom 6000 digital imaging system.

Key Features

- Fast and accurate fine focus adjustment in a compact design
- Extends working distance range of the 6X lens attachments
- Increases depth of field when coupled with infinity corrected microscope objectives
- Maintains image resolution with the integrated Optotune EL 16-40 tunable lens
- Long cycle life of the tunable lens unit and motorized Zoom 6000 system
- Easy to install USB electrical lens driver with software to control the tunable lens



Optotune Module (Navitar 1-64805)
with Zoom 6000 Motorized System

Zoom 6000 with Optotune - Additional Working Distances

Lens Attachment	Optotune Power (Diopters)	Working Distance (mm)	Magnification		Object NA		Resolve Limit (μm)	
			Low Mag	High Mag	Low Mag	High Mag	Low Mag	High Mag
0.25X 1-6044	-2	2260.3	0.026	0.166	0.001	0.003	383.59	146.32
	-1	531.1	0.104	0.673	0.004	0.012	94.91	32.37
	0	288.8	0.183	1.173	0.007	0.021	54.15	20.30
	1	191.3	0.262	1.686	0.009	0.030	37.85	19.26
	2	139.1	0.341	2.202	0.012	0.038	29.06	14.30
	3	106.3	0.421	2.742	0.015	0.047	24.77	11.12
0.5X 1-60110	-2	301.4	0.212	1.348	0.008	0.024	47.14	16.86
	-1	222.9	0.277	1.751	0.010	0.031	36.41	13.60
	0	174.0	0.343	2.168	0.012	0.039	28.84	10.73
	1	140.8	0.409	2.587	0.015	0.046	23.95	10.17
	2	116.8	0.475	3.003	0.017	0.054	20.83	12.33
	3	98.6	0.542	3.441	0.019	0.061	18.46	9.69
0.75X 1-60111	-2	152.8	0.410	2.635	0.015	0.046	24.13	9.26
	-1	128.8	0.470	3.009	0.017	0.053	20.85	7.38
	0	110.1	0.530	3.389	0.019	0.060	18.48	6.42
	1	95.3	0.591	3.760	0.021	0.067	16.76	6.03
	2	83.2	0.651	4.151	0.023	0.073	15.35	8.01
	3	73.1	0.712	4.567	0.026	0.080	14.18	7.81
1.0X None	-2	116.6	0.590	3.803	0.021	0.066	16.63	6.57
	-1	104.4	0.644	4.144	0.023	0.072	15.38	5.36
	0	94.0	0.698	4.503	0.025	0.078	14.19	4.85
	1	85.2	0.752	4.835	0.027	0.085	13.16	4.81
	2	77.5	0.807	5.199	0.029	0.091	12.52	6.01
	3	70.8	0.862	5.590	0.031	0.097	11.96	6.17
1.5X 1-60112	-2	58.1	0.956	6.210	0.034	0.107	10.57	4.24
	-1	53.3	1.004	6.481	0.036	0.112	9.86	3.51
	0	48.9	1.053	6.760	0.038	0.118	9.40	3.22
	1	44.9	1.102	7.047	0.039	0.123	8.90	3.46
	2	41.3	1.151	7.372	0.041	0.129	8.69	4.84
	3	37.9	1.201	7.745	0.043	0.134	8.50	4.30
2X 1-60113	-2	41.1	1.309	8.473	0.047	0.146	7.79	3.28
	-1	38.5	1.347	8.658	0.048	0.150	7.35	2.69
	0	36.0	1.386	8.864	0.050	0.155	7.08	2.45
	1	33.7	1.424	9.084	0.051	0.159	6.95	2.50
	2	31.4	1.463	9.358	0.052	0.163	6.90	3.95
	3	29.3	1.503	9.694	0.054	0.167	7.01	3.82

Zoom 6000 with Optotune and Navitar Objectives - Additional Working Distances

Lens Attachment	Optotune Power (Diopters)	Working Distance (mm)	Magnification		Object NA		Resolve Limit (μm)		Matching Pixel Size	
			Low Mag	High Mag	Low Mag	High Mag	Low Mag	High Mag	Low Mag	High Mag
4X 1-55075	-2	25	1.24	8.07	0.043	0.126	8.29	2.95	5.15	11.91
	-1	22	1.31	8.48	0.046	0.135	7.81	2.56	5.10	10.87
	0	20	1.37	8.86	0.049	0.145	7.45	2.40	5.10	10.64
	1	17	1.43	9.22	0.053	0.155	7.27	2.52	5.21	11.63
	2	15	1.50	9.58	0.056	0.166	7.19	3.26	5.38	15.63
	3	13	1.56	9.96	0.060	0.177	7.05	3.24	5.49	16.13
6X 1-55401	-2	27	2.11	13.88	0.072	0.213	4.88	1.85	5.15	12.82
	-1	26	2.08	13.53	0.213	0.214	4.91	1.64	5.10	11.11
	0	25	2.05	13.17	0.214	0.217	4.99	1.62	5.10	10.64
	1	24	2.01	12.82	0.217	0.219	5.28	1.90	5.32	12.19
	2	23	1.98	12.50	0.219	0.221	5.61	2.35	5.55	14.71
	3	21	1.95	12.22	0.224	0.224	6.04	2.73	5.88	16.67

Zoom 6000 with Optotune System Diagram

