

# ZOOM 7000-2 MACRO IMAGING SYSTEM

## Setting a New Benchmark for Imaging Optics

Navitar's ZOOM 7000-2 next generation macro imaging system has been redesigned, refined, and optimized for demanding applications in machine vision, industrial imaging, life science and research.

With exceptional optical performance, this versatile, close-focusing lens delivers excellent image quality across various magnification ranges. Its robust construction ensures reliability in challenging environments while delivering excellent value and flexibility.

- 18-111mm focal length with manual zoom
- Working distance 5" to infinity
- Parfocal across entire zoom range
- Image capture of objects larger than 1"  $\phi$
- Compatible with sensors 2/3" or smaller



ZOOM 7000-2

### SPECIFICATIONS

EFL (mm)	18.6~111 (6x)
Image Size (mm)	2/3" ( $\phi$ 11)
F Stop	F2.5~F16 (0.3~infinity)
Focusing Range (m)	0.12 ~0.3 (with close-up lens)
Focus Control	Manual
Iris Control	Manual
Field Angle 2/3 (HxV)	W26.5 x 20 / T4.6 x 3.4
Field Angle 1/2 (HxV)	W19.5 x 14.6 / T3.3 x 2.5
Field Angle 1/3 (HxV)	W14.7 x 11.1 / T2.5 x 1.9
Field Angle 1/4 (HxV)	W9.8 x 7.4 / T1.7 x 1.3
Resolution (Center, Corner)	100 lp/mm, 60lp/mm
Distortion (TV)	W-2.3% / T 1.3%
Back Focus in Air (mm)	25.86
Filter Diameter	M58 x P=0.75
Size (mm)	$\phi$ 67x178.2
Mount	C-Mount
Weight (g)	840

### FIELD OF VIEW MATRIX

W.D. (mm)	2/3"				1/2"				1/3"				1/4"			
	T		W		T		W		T		W		T		W	
	H	V	H	V	H	V	H	V	H	V	H	V	H	V	H	V
127	8.8	6.6	51.0	38.2	6.4	4.8	37.0	27.8	4.8	3.6	27.8	20.8	3.2	2.4	18.5	13.9
152	11.0	8.2	65.4	49.0	8.0	6.0	47.6	35.6	6.0	4.5	35.6	26.8	4.0	3.0	23.8	17.8
177	13.2	9.9	80.0	60.0	9.6	7.2	58.4	43.8	7.2	5.4	43.8	32.8	4.8	3.6	29.2	21.9
202	15.3	11.5	90.7	68.0	11.2	8.4	66.0	49.5	8.4	6.3	49.5	37.2	5.6	4.2	33.0	24.7
227	17.5	13.2	106.0	79.4	12.8	9.6	77.0	57.7	9.6	7.2	57.7	43.3	6.4	4.8	38.5	28.8
252	19.7	14.8	116.0	86.8	14.4	10.8	84.0	63.0	10.8	8.1	63.0	47.3	7.2	5.4	42.0	31.6
277	21.8	16.4	129.0	96.7	16.0	12.0	94.0	70.4	12.0	9.0	70.4	52.8	8.0	6.0	47.0	35.2
302	24.0	18.0	141.0	106.0	17.6	13.2	102.4	76.8	13.2	9.9	76.8	57.6	8.8	6.6	51.2	38.4
Without Close-up Lens																
500	34.6	26.0	249.0	187.0	25.2	18.8	180.0	136.0	18.8	14.1	136.0	102.0	12.6	9.4	90.0	68.0
1000	74.6	56.0	484.0	363.0	54.0	40.4	352.0	264.0	40.4	30.3	264.0	198.0	27.0	20.2	176.0	132.0

# ZOOM 7000-2 SYSTEM DIAGRAM

