

ZOOM 7000-2 VIS-SWIR - MACRO ZOOM LENS

Full Spectrum, Zero Compromise_



ZOOM 7000-2 VIS-SWIR_

Navitar's ZOOM 7000-2 VIS-SWIR macro imaging system represents the next evolution in precision optics, engineered specifically for high-performance imaging across the visible and short-wave infrared spectrum.

With a robust mechanical design and superior optical coatings, the ZOOM 7000-2 VIS-SWIR ensures reliable performance in challenging environments while supporting a wide range of magnification needs. Whether you're inspecting materials, analyzing biological samples, or conducting multispectral research, this lens sets a new standard for VIS-SWIR imaging.

Applications:

- Material Sorting & Inspection
- Semiconductor Inspection
- Quality Control
- Food Grading & Sorting
- Tissue Imaging
- Pharmaceutical Inspection

AT-A-GLANCE

Product_

ZOOM 7000-2 VIS SWIR

Product Category_

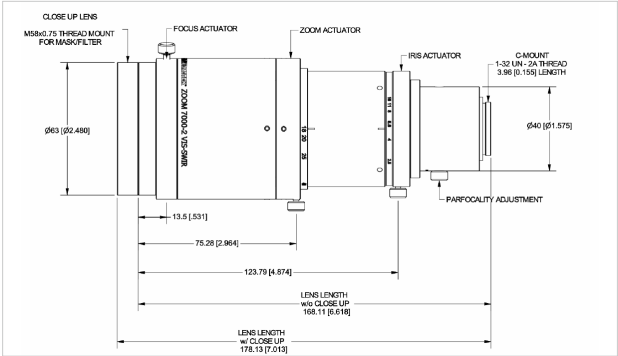
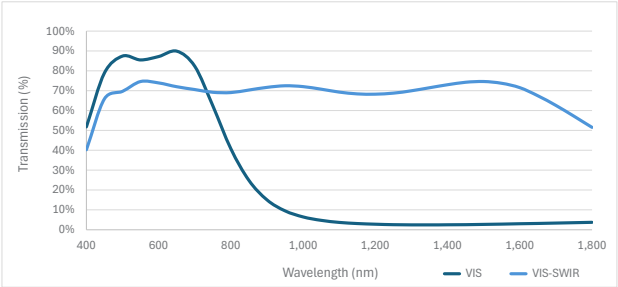
Macro Zoom Lenses

Markets_

- Machine Vision
- Industrial Inspection
- Life Sciences
- Advanced Research

Technical Specifications_

Lens Specifications	
Part Number	ZOOM 7000-2 VIS-SWIR
Focal Length (mm)	18.6 – 111 (6X)
Aperture (f/#)	f/2.5 - 16
Sensor Format Size	2/3"
Working Distance (mm)	127 - infinity
MTF	100 lp/mm Center, 60 lp/mm Edge
Transmission (nm)	450 – 1,800
Filter Size	M58.0 x 0.75
Weight (g)	840
Camera Mount	C-Mount



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



Learn more

Scan the QR code for more product details, brochures, specs, application notes and more.

Speak with an expert

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