

MagniStar® Bi-Telecentric Lenses

Navitar's new line of MagniStar high resolution bi-telecentric lenses offer the ideal optical solution for imaging and measurement applications where extreme accuracy is required.

These high-resolution, low distortion lenses are designed to work with camera formats of 2/3" and smaller and also support megapixel cameras with 3.5µm pixels. Applications include metrology, flat panel inspection, curved surface inspection, and other imaging applications when greater depth of field is required.

About MagniStar Lenses:

- Lens magnifications from 0.05X to 2.0X
- Standard C-mount
- Compatible with high performance, small pixel cameras 2/3" format and smaller
- Resolve to 3.5µm
- Made in the USA

Key Advantages:

- Bi-telecentric
- Adjustable built-in iris
- Excellent MTF performance
- Less than 0.1% image distortion
- No parallax error



0.128X MagniStar - Part # I-23522

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Part #	Magn.	Telecentricity (degree)	Distortion (%)	FOV 1/3" H x V (mm)	FOV 1/2" H x V (mm)	FOV 1/1.8" H x V (mm)	FOV 2/3" H x V (mm)	Working Distance (mm)	System F#	MTF@ 70 lp/mm (%)	Field Depth (mm)	Length (mm)
Now Available												
I-23522	0.128X	0.05	0.01	37.5 x 28.1	50.0 x 37.5	56.1 x 41.6	68.8 x 51.6	179	F/7	>55	31	283
I-23524	0.528X	0.09	0.035	9.1 x 6.8	12.1 x 9.1	13.6 x 10.1	16.7 x 12.5	45	F/7	>51	2	134
Available December 1, 2013												
I-23723	0.051X	0.03	0.02	94.1 x 70.6	125.5 x 94.1	140.7 x 104.3	172.5 x 129.4	531	F/8	>51	260	630
I-23591	0.243X	0.04	0.02	19.8 x 14.8	26.3 x 19.8	29.5 x 21.9	36.2 x 27.2	104	F/8	>50	11	169
Available February 1, 2014												
TBD	1.0X	0.02	0.02	4.8 x 3.6	6.4 x 4.8	7.2 x 5.3	8.8 x 6.6	63	F/11	>36	1.2	101
TBD	2.0X	0.01	0.02	2.4 x 1.8	3.2 x 2.4	3.6 x 2.7	4.4 x 3.3	57	F/11	>31	0.3	65

Each individual MagniStar lens is delivered with its own test report certifying optical specifications.

Contact your Navitar representative with any questions and for additional information.