



Questar Mirror Substrates

The Zerodur® mirror substrate is a glass ceramic “semi-alloy” combining rigidity with thermal stability, and unlike Pyrex® and other super-cooled fluids, Zerodur® has a crystalline matrix with boundaries smaller than the wavelength of visible light. Thus, over a long span of time, there is a resistance to the “flow” commonly noted with glass, and the figure remains stable with time. As all optical systems must adjust to the ambient temperature before images are truly their sharpest, it will be found that Zerodur® will perform better than Pyrex® where thermal variations are particularly pronounced. At low temperatures especially, Zerodur® will stabilize its figure faster than Pyrex®.

Questar Broad-Band & Low Reflection Coatings

The Questar broad-band and low reflection coatings consist of an enhanced protected silver film on the primary mirror and highly efficient antireflection coatings applied to both surfaces of the corrector lens. Because they increase light grasp by about 22% and optimize photo-visual contrast discrimination, they are considered very meaningful additions to precision optical systems. With reasonable care, the special coatings should endure well beyond their present guarantee, particularly if the instrument is stored away from dampness.

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<u>Eyepiece</u>	<u>3.5" Questar Finder Magnification & Field of View</u>	<u>3.5" Questar Main Optical System Magnifications* & Field of View</u>
32 mm.	3x / 14°	40 – 60x / 1° 7.5' – 45'
24 mm.	4x / 12°	50 – 80x / 55' – 34'
16 mm.	6x / 10°	80 – 130x / 34' – 21'
12 mm.	8x / 8°	100 – 160x / 27' – 17'
8 mm.	12x / 6°	160 – 260x / 18' – 10'

Birding Finder Powers for 3.5" Questar:

<u>Eyepiece</u>	<u>10x Finder</u>
32 mm.	8x
24 mm.	10x
16 mm.	16x
12 mm.	20x
8 mm.	32x

<u>Eyepiece</u>	<u>Questar Seven Finder Magnification & Field of View</u>	<u>Questar Seven Main Optical System Magnifications* & Field of View</u>
32 mm.	6x / 7°30'	80 – 160x / 34' – 17'
24 mm.	8x / 5°38'	106 – 212x / 25' – 13'
16 mm.	12x / 3°45'	160 – 320x / 17' – 8'
12 mm.	15x / 3°	212 – 424x / 13' – 6'
8 mm.	23x / 1°58'	318 – 636x / 9' – 4'

* Apparent Field of Eyepieces is 45°

' Denotes Minutes of Arc