

The QM 100 combines the compactness and ease of use of the QM 1 with the relative aperture and resolution of the larger microscopes.

For applications requiring high magnification and resolution, and which allow the user to work from distances of 15 cm. to 35 cm., the QM 100 is uncontested in performance and flexibility.



QM 100

Questar Long-Distance Microscope

Datasheet



Technical data

Type	Maksutov Cassegrain Catadioptric		
Working range	15 cm to 35 cm, subject plane to front element		
Numerical Aperture	Working Distance	N.A.	f/no
	33.5 cm	.083	6.0
	25.4 cm	.115	4.3
	15 cm	.142	3.5
Resolution	1.1 microns at 15 cm		
Magnification	To 34 times at image plane		
Format	Diffraction Limited Field 12 mm		

Optics

Corrector lens	BK7, Magnesium Fluoride Coated, 63 mm diameter
Primary Mirror	Pyrex, Aluminum Coated, SiO overcoated 104 mm diameter
Secondary Mirror	R1 Surface of Corrector, Aluminum Coated, 16 mm diameter
Baffling	Helical in central tube, all interior surfaces anti-reflection coated

Mechanical

Barrel	Aluminum, machined from seamless stock, threaded lens cell black anodized. Length 32 cm, outside diameter 11.4 cm, weight 2.27 kg
Rear Closure Plate	Aluminum with stainless steel main tube holder plate, adjustable centering
Focusing Mechanism	Mirror thimble integral with stainless steel sliding tube. Slides on fixed, stainless steel light baffle tube (centerless ground). Conical s.s. spring loaded Focus rod s.s. 303, precision ground, 24 TPI; integrated inside control box.
Control Box	Machined aluminum, selectable axial or 90° port. Internal beamsplitter standard flickknob controlled
Knobs	Aluminum, 24S-T4, corrosion resistant, stainless steel shafts and levers
Mount	Full barrel length, 1/4" - 20 and 3/8" - 16 mounting holes

*Specifications subject to change without notice

QM100 Field of View (2/3" CCD)

