

EFFECTIVE APRIL 1ST, 1980

**The Quantum Series
FOUR, SIX, AND EIGHT**

PRICE CATALOG

**EXCELLENCE IN
OPTICAL INSTRUMENTATION...**

**...QUANTUM MAKSTOV
CASSEGRAIN TELESCOPES**



THE QUANTUM FOUR.....

a complete 4-inch aperture, f/15, Maksutov Cassegrain Telescope

Price \$1395.00

Price of the Quantum Four includes optical tube assembly with built-in star diagonal and 1.75x Barlow lens, 16-mm. F. L. Brandon eyepiece (95x - 166x) of 50° apparent field, 6 x 30-mm. right angle finder, and enhanced silver coated optics; single arm fork mount with setting circles, slow motion controls, electric clock drive, lens cap, carrying case, and instruction booklet.

Weight: approximately 15 pounds.

THE QUANTUM FOUR - Optical Tube Assembly (only)

Price \$995.00

Price of Optical Tube Assembly includes built-in star diagonal and 1.75x Barlow lens, 24-mm. F.L. Brandon eyepiece (63x - 111x) of 50° apparent field, 6 x 30-mm. right angle finder, enhanced silver coated optics, lens cap, carrying case, and instruction booklet. (The Optical Tube Assembly should be tripod-mounted for use and requires the Optical Barrel Tripod Adapter).

Weight: approximately 6 pounds.

QUANTUM FOUR ACCESSORIES

Dew Cap \$36.50
Self-storing

Legs and Base Leg Adapter \$25.00
For table-top equatorial mounting - latitude adjustment 30° to 45°.

Oculars (1-1/4" O.D.)

Brandon - 8 mm., 12 mm., 16 mm., 24 mm.,
32 mm., \$65.00 each
Clave Plossl - 8 mm., 10 mm., 12 mm., 16 mm.,
20 mm., and 25 mm., \$80.30 each
30 mm., \$105.60
35 mm., \$115.50

Tripods

Davis & Sanford Model B with Rising Center Post
and MH-3 Pan Head with Quantum Adapter... \$228.50
Photo-Barlow Lens, 2x \$48.00
Solar Filter, Full Aperture \$187.50



THE QUANTUM FOUR

Variable Frequency Drive Corrector
DOAA/O.T.I. Professional \$150.00
DC Declination Drive System ***
(Requires DOAA/O.T.I. Drive Corrector)
T-Mount Swivel Camera Coupling \$65.00
T-Mount Camera Ring Adapters
Universal Thread (for all cameras with
Praktica thread-type lens mount) \$30.00 each
Nikon F, Minolta, Canon, Olympus OM, and
Konica Autoreflex..... \$30.00 each
Exakta-Topcon C & D, Miranda \$15.00 each
Filter Holder (Series Six)..... \$30.00
Photographic Filters (Series Six)
Nos. 3N5, 8, 12, 15, 21, 23A, 47, 56, 80A, 82A,
85 \$11.50 each
Polarizer \$12.00
Illuminated Reticle Eyepiece
16-mm. F. L. (1-1/4" O.D.) ***
Piggyback Camera Mount ***
Counterweight Assembly ***
Optical Barrel Tripod Adapter..... \$27.50
1-1/4" Accessory Adapter \$28.50
(For use with Swivel Camera Coupling)
Porro-Prism..... \$40.00
(For terrestrial on-axis viewing - requires 1-1/4"
Accessory Adapter above)

***Price and Availability to be announced

THE QUANTUM SIX.....

a complete 6-inch aperture, f/15, Maksutov Cassegrain Telescope

Price..... \$2595.00

Price of the Quantum Six includes optical tube assembly with built-in star diagonal and 1.75x Barlow lens, 16-mm. F. L. Brandon eyepiece (140x - 250x) of 50° apparent field, 8 x 50-mm. right angle finder, and enhanced silver coated optics; single arm 'fork mount with setting circles, slow motion controls, electric clock drive, lens cap, carrying case, and instruction booklet.

Weight: approximately 35 pounds.

THE QUANTUM SIX—

Optical Tube Assembly (only)

Price..... \$1750.00

Price of Optical Tube Assembly includes built-in star diagonal and 1.75x Barlow lens, 24-mm. F. L. Brandon eyepiece (95x - 166x) of 50° apparent field, 8 x 50-mm. right angle finder, enhanced silver coated optics, lens cap, carrying case, and instruction booklet. (The Optical Tube Assembly should be tripod-mounted for use and requires the Optical Barrel Tripod Adapter).

Weight: approximately 12.5 pounds.

QUANTUM SIX ACCESSORIES

Dew Cap \$58.00
Self-storing

Legs and Base Leg Adapter \$47.00
For table-top equatorial mounting – latitude adjustment 30° to 45°.

Oculars (1-1/4" O.D.)
Brandon - 8 mm., 12 mm., 16 mm., 24 mm., 32 mm., \$65.00 each
Clave Plossl - 8 mm., 10 mm., 12 mm., 16 mm., 20 mm., and 25 mm., \$80.30 each
30 mm., \$105.60
35 mm., \$115.50

Oculars (2" O.D.)
Brandon – 40 mm. F. L. Erfle, 75° apparent field \$165.00
Clave Plossl – 40 mm. F. L., 48° apparent field, with adapter \$205.00

Tripods
Folding Tripod and Wedge Assembly, latitude adjustment 12° to 58° \$520.00
Portable Pedestal and Wedge Assembly, latitude adjustment 12° to 58° \$368.00



THE QUANTUM SIX

Wedge Assembly (only) \$100.00
Photo-Barlow Lens, 2x \$48.00
Solar Filter, Full Aperture \$395.00
Variable Frequency Drive Corrector
DOAA/O.T.I. Professional \$150.00
DC Declination Drive System ***
(Requires DOAA/O.T.I. Drive Corrector)
T-Mount Swivel Camera Coupling \$65.00
T-Mount Camera Ring Adapters
Universal Thread (for all cameras with Praktica thread-type lens mount) \$30.00
Nikon F, Minolta, Canon, Olympus OM, and Konica Autoreflex \$30.00 each
Exakta-Topcon C & D, Miranda \$15.00 each
Filter Holder (Series Six) \$30.00
Photographic Filters (Series Six)
Nos. 3N5, 8, 12, 15, 21, 23A, 47, 56, 80A, 82A, 85 \$11.50 each
Polarizer \$12.00
Illuminated Reticle Eyepiece
16 mm. F. L. (1-1/4" O.D.) ***
Piggyback Camera Mount ***
Counterweight Assembly ***
Optical Barrel Tripod Adapter \$35.00
1-1/4" Accessory Adapter \$28.50
(For use with Swivel Camera Coupling)
Porro-Prism \$40.00
(For terrestrial on-axis viewing – requires 1-1/4" Accessory Adapter above)

***Price and Availability to be announced

THE QUANTUM EIGHT –

Optical Tube Assembly (only)

Price **\$3080.00**

Price of the Optical Tube Assembly includes built-in star diagonal and 1.75x Barlow lens, 16 mm. F. L. Brandon eyepiece (190x - 333x) of 50° apparent field, 8 x 50 mm. right angle finder, enhanced silver coated optics, lens cap, and instruction booklet.

Weight: approximately **28** pounds.

Equatorial Mount

Contact factory for information on equatorial mounts for Quantum Eight.

QUANTUM EIGHT ACCESSORIES

Carrying Case **\$350.00**

Heavy-duty case for barrel assembly only.

Oculars (1-1/4" O.D.)

Brandon - 8mm., 12mm., 16mm., 24mm., and 32 mm., **\$65.00 each**

Clave Plossl - 8 mm., 10 mm., 12 mm., 16 mm., 20 mm., and 25 mm., **\$80.30 each**

30 mm., **\$105.60**

35 mm., **\$115.50**

Oculars (2" O.D.)

Brandon - 40 mm. F.L. Erfle, 75° apparent field. **\$165.00**

Clave Plossl - 40 mm. F. L., 48° apparent field, with adapter **\$205.00**

Dew Cap **\$85.00**

Self-storing

Solar Filter, Full Aperture *******

Photo-Barlow Lens, 2x **\$48.00**

T-Mount Swivel Camera Coupling **\$65.00**

T-Mount Camera Ring Adapters

Universal Thread (for all cameras with Praktica thread-type lens mount) **\$30.00 each**

Nikon F, Minolta, Canon, Olympus OM, and Konica Autoreflex **\$30.00 each**

Exakta-Topcon C & D, and Miranda ... **\$15.00 each**

Filter Holder (Series Six) **\$30.00**

Photographic Filters (Series Six)

Nos. 3N5, 8, 12, 15, 21, 23A, 47, 56, 80A, 82A, and 85 **\$11.50 each**

Polarizer **\$12.00**

1-1/4" Accessory Adapter **\$28.50**

(For use with Swivel Camera Coupling)

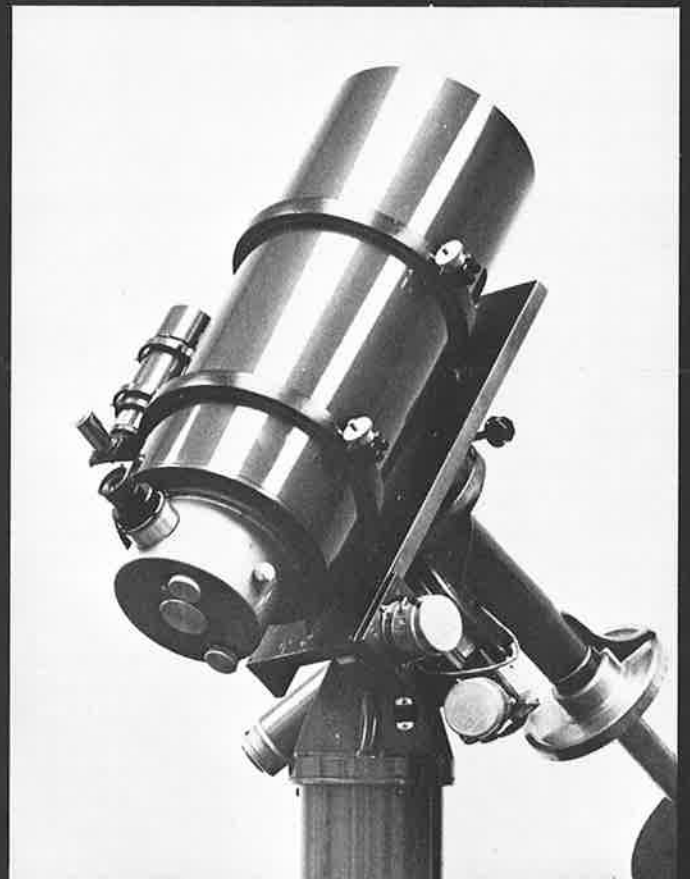
Porro-Prism **\$40.00**

(For terrestrial on-axis viewing – requires 1-1/4" Accessory Adapter above)

***Price and Availability to be announced.



**QUANTUM SIX SHOWN ON FOLDING
TRIPOD AND WEDGE ASSEMBLY**



**QUANTUM EIGHT BARREL ASSEMBLY
ON GERMAN EQUATORIAL MOUNT.**

QUANTUM SPECIFICATIONS*

ITEM	QUANTUM FOUR	QUANTUM SIX	QUANTUM EIGHT
Clear Aperture	4"	6"	8"
Focal Length	60", f/15	90", f/15	120", f/15
Resolving Power	1.14 arc sec.	.76 arc sec.	.57 arc sec.
Diffraction-Limited Field	9 mm. dia.	12 mm. dia.	15 mm. dia.
Central Obstruction	33 mm. (33% diam., 10% area)	50 mm. (33% diam., 10% area)	67 mm. (33% diam., 10% area)
Baffle System	Double (Primary & Secondary)	Double (Primary & Secondary)	Double (Primary & Secondary)
Unvignetted Field	23 mm. dia.	35 mm. dia.	40 mm. dia.
Photographic Field of View	.94° per inch	.58° per inch	.47° per inch
Limiting Magnitude	13.4	14.3	14.8
Near Focus	15'	30'	60'
Primary Mirror	Pyrex, 4.45" dia., f/2.5	Pyrex, 6.65" dia., f/2.5	Pyrex, 8.85" dia., f/2.5
Corrector Lens	BK-7, 4.18" dia.	BK-7, 6.25" dia.	BK-7, 8.35" dia.
Coatings			
Reflective Surfaces	Enhanced Silver	Enhanced Silver	Enhanced Silver
Corrective Lens	AR-MgF ₂	AR-MgF ₂	AR-MgF ₂
Barlow Lens	1.75x	1.75x	1.75x
Eyepiece holder	1.25" I.D.	2" I.D. with 1.25" adapter	2" I.D. with 1.25" adapter
Ocular	16 mm. F.L. 1.25" O.D.	16 mm. F.L. 1.25" O.D.	16 mm. F.L. 1.25" O.D.
Power	95x and 166x	140x and 250x	190x and 333x
Finder (Right Angle)	6x30	8x50	8x50
Mount Type	Single-Strut Fork	Single-Strut Fork	N.A.
Dec. Thrust Bearing	3.0" dia.	4.125" dia.	N.A.
Dec. Circle	3.0" dia. - 2° divisions	4.125" dia. - 2° divisions	N.A.
R. A. Thrust Bearing	3.63" dia.	5" dia.	N.A.
R. A. Circle	6.5" dia., - 1° divisions	8.25" dia. - 1° divisions	N.A.
R. A. Gear	4" dia.	6" dia.	N.A.
Drive Motor	Synchronous	Synchronous	N.A.
	110 V, 60Hz, 2.7 watts	110 V, 60Hz, 2.7 watts	N.A.
Height (Upright)	17.5"	25.5"	N.A.
Weight	15 pounds (approx.)	35 pounds (approx.)	N.A.

O.T.I. instruments are guaranteed for a period of 10 years against defects in material and workmanship, except for manual drives. Drives wear in accordance with use and will be replaced at cost of time and material. Special coatings are guaranteed for a period of 5 years.

*Prices and specifications subject to change without notice.



OPTICAL TECHNIQUES, INC.

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