

QUESTAR

INSTRUMENTS
ACCESSORIES



All models available with Pyrex[®] or Cer-Vit[®] mirrors

QUESTAR[®]

for the astronomer

Questar, a miniaturization of the classical astronomical telescope is the finest, most versatile small telescope in the world, and the ultimate in convenience. The need to cope with heavy, unwieldy instruments was forever eliminated when the catadioptric, or mixed, system of lens and mirrors was invented, permitting Questar to bring to the world more than 20 years ago a fully mounted, truly portable telescope.

Questar's incredibly sharp resolution is illustrated in our booklet with large-scale photographs of moon craters, planets, sunspot detail and deep-sky objects, as well as "impossible" terrestrial views, all by Questar owners. When we first published such pictures taken with only 3½ inches of aperture, it astonished astronomers the world over. But consistent quality and performance over the years has established Questar's world-wide reputation.

The Questar Seven, adhering to the same high standards, delivers twice the resolution with four times the light grasp, while retaining the convenience and versatility of the smaller Questar.

THE STANDARD QUESTAR IS FULLY MOUNTED (Price List, page 6)

The luxury of having a 7-pound optical masterpiece, with all the vital controls of a great observatory instrument—slow motions as smooth as velvet turning in continuous 360° rotation, built-in electric drive, setting circles, high powers from 80 to 130x without changing eyepieces—as well as Questar's completely safe distortionless solar filter, is described in great detail in our booklet. It is shown at the top of the page, a complete astronomical observatory in less than one cubic foot of carrying case that contains legs for polar equatorial position, totally safe solar filter, a second eyepiece, and cord for the built-in electric drive.

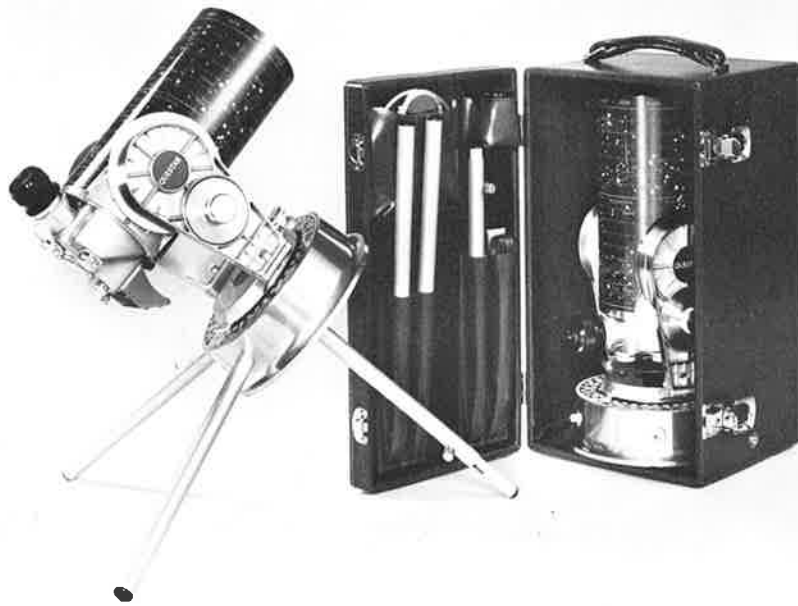
FAR LEFT. Standard Questar in its polar equatorial position with its anodized starchart-dewcap removed to reveal the moon map beneath. Also is shown the connection for its synchronous electric drive.

LEFT. Standard Questar shown in another mode, in polar equatorial position as it would be used on the pan head of a tripod.

BELOW, LEFT. The Olympus Camera is attached to the control box of the Standard Questar for sky photography. (We describe this superb camera on page 5.)

BELOW, CENTER. Questar Solar Filter. In the more than 300 years that men have tried to study the surface of the sun, no one thought to keep the excessive heat from entering the telescope where it distorted optics and endangered the eye. It remained for Questar to invent an external filter which passes only 17 millionths of the sun's light and keeps harmful rays outside the telescope. Shown in its walnut case and on the telescope is the full-aperture filter—5 times brighter for high-power work than the 1.5" filter included with the telescope, with more than double the resolving power. Incredible parallelism is required of these glass disks to pass our resolution test before coating. 3.5" aperture filter is standard equipment with fully-mounted Seven, and a full-aperture filter is available also.

LOWER RIGHT. The Questar Piggy-Back Mount, an accessory that adds another dimension to the telescope, making it possible to take long time exposures of deep-sky objects with a camera mounted on the barrel, while using Questar as the guide 'scope.



THE QUESTAR SEVEN (Price List, page 6)

Questar's commitment to quality which has built its world-wide reputation, is immediately apparent in the superb resolution of the Questar Seven and its mechanical perfection. Those who want more aperture than the 3½-inch Questar provides, marvel at the performance of the Seven which easily doubles that of its smaller parent.

The Seven, like the Standard 3½, is a fully-mounted astronomical telescope that is completely portable. You can use it on a table with its own polar equatorial support, or with Questar's Folding Pier.

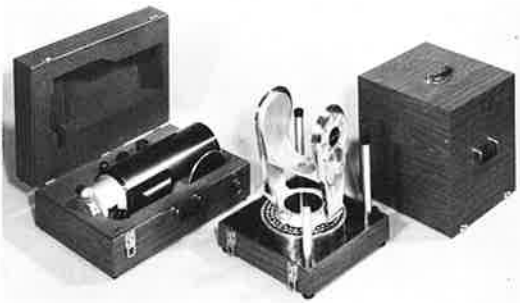
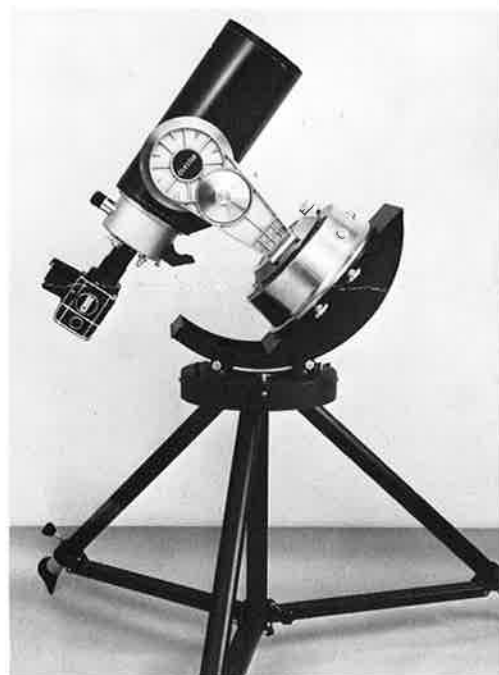
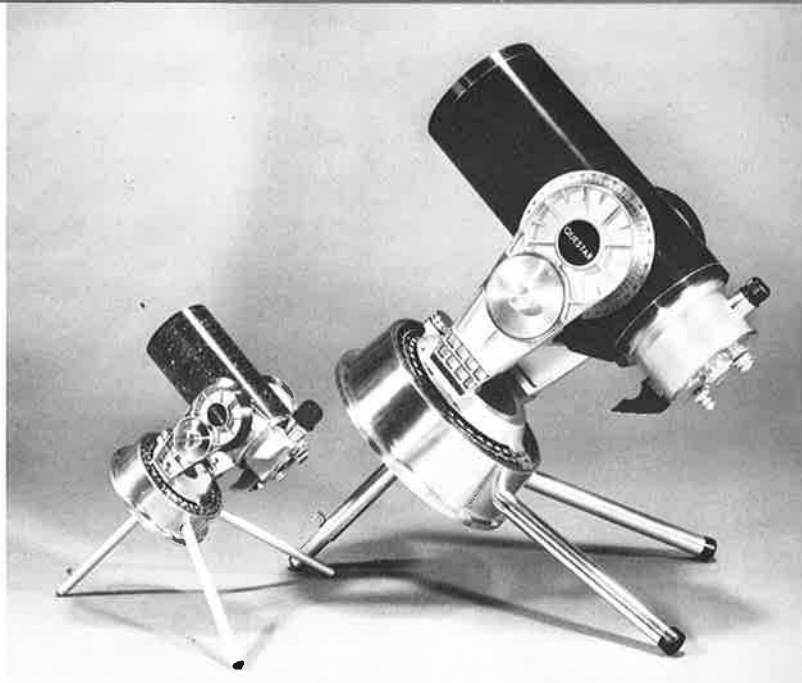
Questar Folding Pier (Price List, page 6)

The Folding Pier is the most luxurious support ever devised for a telescope of large aperture, and is usable from either seated or standing position. Its weight is only 37 pounds complete with the supporting cradle that holds the telescope, regardless of your latitude, so that the center of gravity is always over the center of the tripod.

Photograph at top right shows the relative sizes of the world-famous Questars—the 3½ and the Seven. The latter is twice as large, with double the performance. It separates into two components (just as the Duplex Questar does, which is shown on page 4) and each is carried in a separate case, as shown below.

CENTER. Questar Folding Pier in its lowest position for seated observing, and, AT BOTTOM, folded for carrying. Its extendable legs raise the telescope to standing eye level.

CENTER RIGHT. Folding Pier with the Questar Seven mounted on the polar equatorial cradle which glides smoothly to adjust to any latitude. A larger format camera, the Rollei SL66, is attached to the control box, although the 35mm. SLR camera is also completely suitable for the Seven.

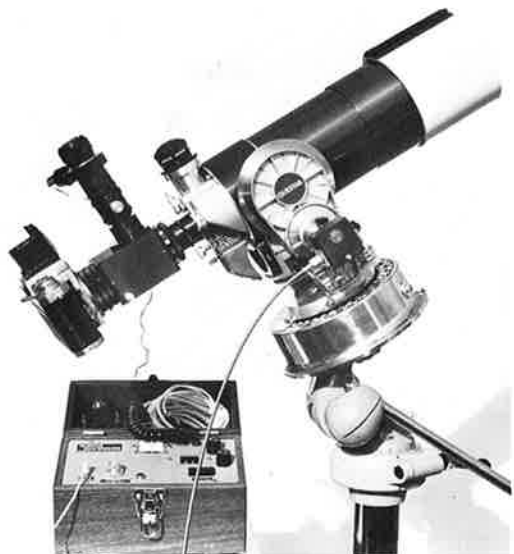


Questar Powerguide and Questar Starguide (Price List, page 6)

The Questar Powerguide, which operates on house current or from any 12-volt DC power source, enables the Questar user to select sidereal or lunar driving rates by merely pushing a switch. A 12-foot cord plugs into automobile cigarette lighter receptacle, for use in the field, or into standard 110 volt AC socket.

A hand-held control cylinder permits the operator to stop the Questar drive or to speed it beyond sidereal rate, a practical necessity for deep-sky photography. An important convenience is the controllable power source to illuminate the separately available cross-hair Reticle Eyepiece.

The Questar Starguide is an auxiliary guiding system specifically for deep-sky photography. It comprises an Off-axis Tracker and Declination Vernier Drive. The Tracker consists of a prism which intercepts a small portion of the ray bundle and directs it to a guiding eyepiece. Its built-in shutter can be closed instantly when corrections are needed and opened when back on target. For easier acquisition of a guide star and comfort in guiding, the eyepiece can be swiveled 360° and is completely independent of the camera position. The Vernier Drive is a compact gear box which is easily adaptable to the Questar Declination Drive, permitting corrections on a 10 to 1 ratio over the already extremely accurate drive. Its flexible cable permits operation from any position.



QUESTAR

for general observing

THE STANDARD QUESTAR—self-supporting on a sturdy table or tripod mounted, as you prefer (Price List, page 6)

At the left is the Standard Questar in its altazimuth mounting for general observing. It slips out of its handsome case all in one piece, ready to use from any handy flat surface. From a comfortable, seated position, using its built-in power changes, you can observe far-distant objects not visible to the unaided eye, or familiar things as close as eight feet, which no other telescope can do. A wealth of entertainment awaits you—in your travels, in your garden, or indoors, where the most commonplace object seen in such sharp detail becomes a source of fascination. No matter *where* you look, you see more with a Questar.

LEFT. Questar Carpod. Another convenient Questar accessory, brought to you at the prodding of Dr. R. C. Ashley who invented this stable platform for mounting telescope and camera in his car. He sits comfortably to take those beautiful bird and flower photographs that we publish. This ruggedly constructed, black-anodized aluminum shelf, with adjustable supporting arm, is designed to fit all makes and models of cars. Contact points are vinyl covered, to protect car finish. (Price List, page 6)

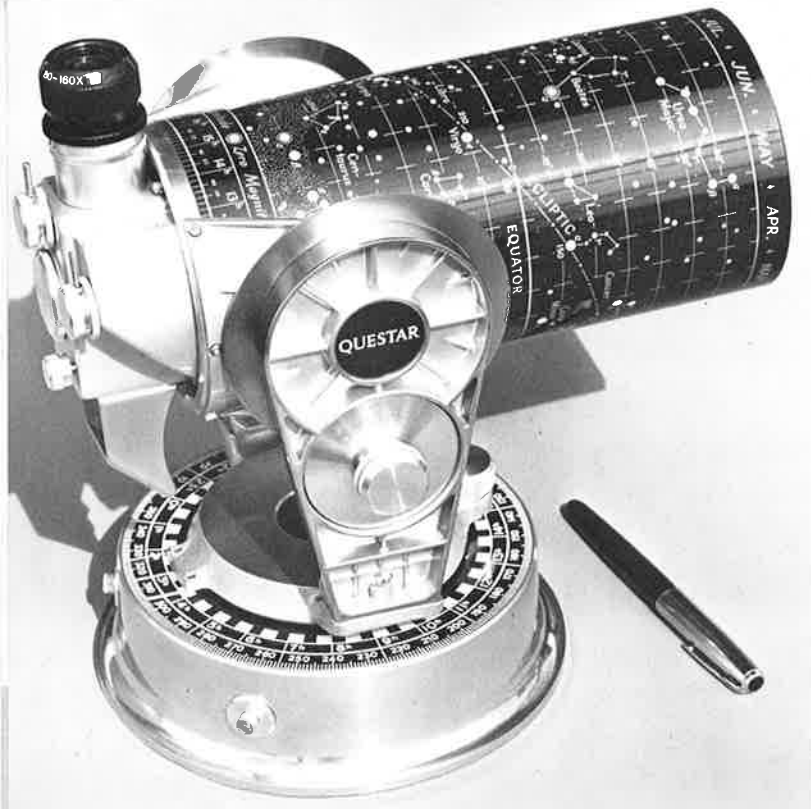
BELOW, CENTER. Indoor Comfort with Questar. Time was when trying to see through a window-pane with a fine telescope would have been out of the question because of the distortion of ordinary glass. But today's plate glass is so remarkably plane parallel that anyone can have a comfortable observing corner like this.

THE FIELD MODEL QUESTAR—designed expressly for terrestrial observation and photography (Price List, page 6)

The Field Model offers a new experience to the photographer. Here is the world's sharpest lens of 89 mm. aperture, weighing less than 3 pounds, with a low-power finder view to locate distant objects rapidly. The general scene can first be viewed in the eyepiece through the finder, then the specific object of interest can be brought into focus at high power for closer study or focused on the groundglass of the camera.

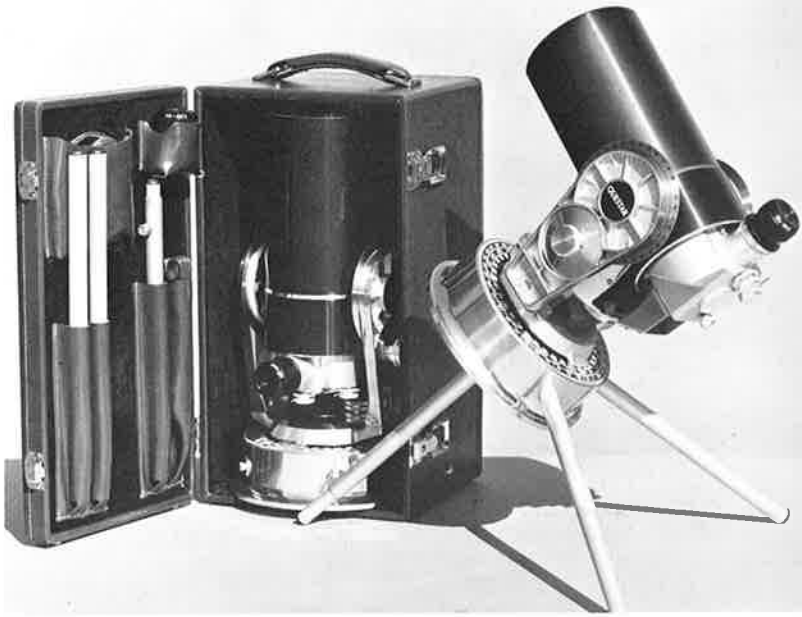
The Field Model is also available with the Questar Fast Focus for instant focusing on a moving target. See photograph at bottom left, page 4, and page 5 for more details.

BELOW. The Field Model is shown on the pan head of the Gitzo tripod with the 35 mm. Olympus camera. Although primarily for terrestrial use, the Field Model, with a pan head to orient it, can be used celestially for casual observation. It is possible, also, to observe terrestrial views by placing the eyepiece in the axial opening where the camera is normally attached. This is a comfortable way to observe when seated at a tripod.



THE DUPLEX QUESTAR (Price List, page 6)

We keep trying to please Questar customers by finding even more convenient forms for this superfine portable telescope. Our photographer friends wanted an unmounted barrel—a minimum instrument that they could carry easily into the field, and this led to the development of the Field Model. The astronomers want the fully-mounted equatorial Standard Questar with its smooth controls and built-in synchronous drive. But sometimes they wish they also had the lighter Field Model just to carry with them for terrestrial observation and photography. So here is everything in one instrument—a fully-mounted telescope, yet it separates into two parts with the turn of a knurled knob. This provides the all-round hobbyist with the lighter Field Model for terrestrial observation and photography, but permits him to have a complete, portable observatory when he wishes it. When both parts are joined together, the Duplex operates with the rock-like steadiness of the Standard Questar, and weighs only slightly more. It travels in a beautifully designed leather case, and the Field Model case is available separately, if desired.



About Tripods (Price List, page 7)

It is impossible to overemphasize the importance of a stiff, tremorless support for both visual and photographic work with a highpower telescope. Photography with such a lens is much like sharpshooting with a rifle. The marksman has to hold his heavy target rifle with its leather thong taut, hard and true on target. So must we support our great long-focus lens; it must be truly motionless during the period of exposure.

We continually survey the tripod market in an effort to supply our customers with the best buys in the field. The Gitzo, a great name in tripods, receives our wholehearted endorsement for its quality, rigidity, and special features.

A small tripod made by Davis and Sanford is also part of our group of selected accessories. It is small and light in weight, yet surprisingly stable; eminently suited to carrying in the field for terrestrial observing and photography.



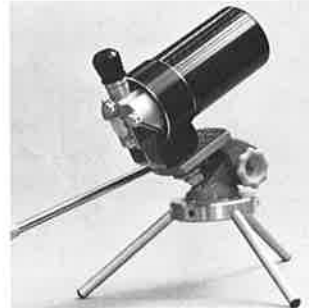
TOP OF PAGE. The Duplex Questar shown both in its outfitted case and in its polar equatorial position. **NEXT BELOW.** It is separated into its two components: barrel with control box, and mounting. The barrel alone, which is the Questar Field Model, attaches to a pan head as shown on the opposite page.

The Gitzo Tele-studex Compact, BELOW RIGHT, is complete with rising center post and pan head, and is one of the best-engineered tripods we have seen. Its height range is from 24 to 70 inches, and although it weighs only 16¼ pounds complete, it is extremely rigid.

Davis and Sanford with special Questar modification, BELOW, CENTER. Only 10 pounds, it is extremely rigid used at its folded height of 28 inches. Total height 58 inches. Includes pan head and rising center post.

ABOVE, RIGHT. Porro Prism provides a completely erected image in cases when the normal reversed left-to-right image interferes with reading type or similar requirements. Eyepiece alone can also be used axially, a comfortable way to observe when seated at a tripod. (Price List, page 6)

RIGHT. Table Tripod. An easy way to support your Questar on any surface. Light in weight and easy to carry, it can be used on the trunk of your car or on rough terrain. The base of the Standard Questar fits directly on the Table Tripod, but with the Field Model you will require the Gitzo or Davis and Sanford pan head. (Price List, page 6.)



QUESTAR

and the photographer

The Questar-Modified Olympus OM-1-MD (Price List, page 7)

This remarkable new, light weight, compact camera possesses all the attributes necessary for successful telephotography and functions superbly with Questar. It has a smooth, nearly vibrationless focal plane shutter and a Questar-modified independent double-acting mirror lock. It features interchangeable focusing screens and is furnished with a special screen to insure sharply focused images with Questar's 56-inch focal length.

For critical assessment at the groundglass image, the Varimaghi finder is provided with the camera. This invaluable accessory has a helically focusing eyepiece and yields 1.2x and 2.5x magnification through the camera viewing system. Finally, the OM-1's CdS through-the-lens metering system gives you rapid and accurate exposure data.

The Questar-Modified Nikon (Price List, page 7)

The Questar-modified Nikon F is one of the most satisfactory cameras we have discovered for securing sharp negatives at all shutter speeds with your Questar. The secret is in its wonderfully light titanium foil ball-bearing shutter, which opens so smoothly it does not move the sharply focused cones of rays on negative during exposure, and in the Questar modification, which permits you to release the mirror before exposure, thus eliminating all mirror-slap vibration.

THE QUESTAR CINEMA MODEL (Price List, page 6)

The focusing mechanism of this world-renowned telescope has been redesigned especially for the professional cameraman. Now this lens system, the only one in the world of 1400 mm. focal length that can focus from 8 feet to infinity, permits the cinematographer to adjust his focus from an extreme telephoto situation to a macro-closeup within the same film take. This precisely engineered system, all mounted on a supporting platform, is light in weight and to attach it to the Arriflex 35 mm., as shown, takes only the time required to mount a conventional lens.

Other platforms for cameras with different profiles are available, and it can be used successfully with 16 mm. reflex cameras.

Questar Fast Focus (Price List, page 6)

The Fast Focus, which is the focusing mechanism of the Cinema Model, is also adaptable to the Questar Field Model so that still cameras can have the advantage of instant focus, at whatever the target distance from your Questar. The Fast Focus Field Model is shown in the photograph at lower left with the Questar-modified Olympus camera attached, and in the center photograph with the Beaulieu Super 8.

Beaulieu Super 8 (Prices on request)

Lighter in weight than most 35 mm. cameras, the Beaulieu attaches to Questar with the Questar C-mount adapter and no additional support. It is a completely automated camera with interchangeable lenses, smooth ultra-slow and accelerated motions, a wide range of filming speeds made possible with its variable shutter, a reflex view finder, behind-the-lens meter, and an Angenieux zoom lens.



Questar's Special Coatings

To further increase the efficiency of the Questar system, special coatings are available that will enhance both mirror and lens. A broad-band dielectric coating can be applied to the mirror which increases its reflectivity to 99%.

To both sides of the front lens, a low reflection coating is then applied which reduces the light loss at each surface to less than 1/10 of 1%. It transmits all frequencies of the visible spectrum and improves total light grasp by approximately 22%.

This new phenomenal light-gathering ability of Questar will come as welcome news to the serious amateur astronomer, and to research and industrial users. The photographer will be astonished at the new visibility within shadows, and the sharper contrasts he can obtain for more sparkling pictures.

Questar Counterweight (Price List, page 6)

For smoothest electric driving during celestial photography, the camera load must be balanced. Questar's ingenious lead-filled vinyl collar weighs 1 pound, wraps around star chart and is held by Velcro fasteners. It is soft and cannot scratch. The guide stick, also Velcro faced, holds the collar wherever you position it.

Basic Camera Coupling Set (Price List, page 6)

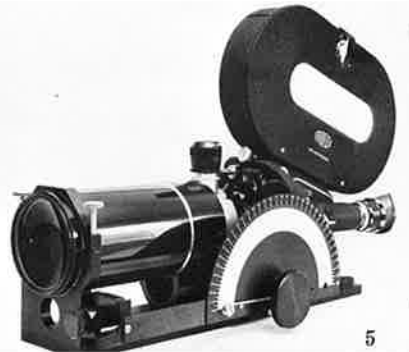
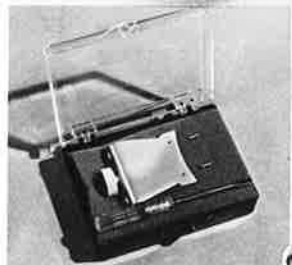
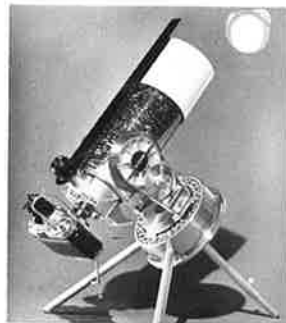
Questar's basic coupling must be used with all cameras. It also supports the eyepiece above the control box, as shown in the cutaway, for powers of 300 or more. The coupling has Praktica threads which fit the largest number of SLR camera bodies. Certain others need an additional adapter with a female Praktica thread to attach to the basic coupling. Consult Price List, page 8, for specific requirements.

Photographic Barlow Lens (Price List, page 6)

A superfine negative Barlow lens for axial visual and photographic use, fits between the control box of telescope and the camera coupling, which swivels to permit positioning of the camera.

Azimuth Brake (Price List, page 6)

The Azimuth Brake assists the terrestrial photographer—he can lock the telescope in azimuth, so that when re-cocking the camera the telescope will not move out of position. The brake comes in a little kit complete with the necessary tool for installing it.



PRICE LI

STANDARD QUESTAR (see pages 1 and 3)

The Standard Questar weighs 7 pounds; with its case, 12 pounds. Prices listed below include lens cap, 80-130x (16 mm.) and 50-80x (24 mm.) eyepieces, and the built-in features which comprise power changes with diagonal erecting prism and Barlow lens, circles, 6-inch sidereal clock, synchronous electric drive, elegant slow motions, safety clutches, clamp in Altitude-Declination and finder sun filter; the leather case is velvet-lined and the door pouches hold one eyepiece, safe solar filter, electric cord, and legs for converting to table-top polar equatorial position; Questar's barrel has moon map under its perpetual starchart that pulls forward to form dew-cap.

Standard Questar, Pyrex® Mirror	\$1415.00
Standard Questar, Pyrex Mirror, Broad-band & Low Reflection Coatings	1600.00
Standard Questar, Cer-Vit® Mirror	1520.00
Standard Questar, Cer-Vit Mirror, Broad-band & Low Reflection Coating	1710.00

FIELD MODEL QUESTAR (see page 3)

The Field Model Questar weighs less than 3 pounds. Included with it are the 4-pound case, 50-80x (24 mm.) eyepiece, lens cap, dark blue anodized dew cap, and a basic camera coupling set. There is room in the case for camera and other accessories.

Field Model Questar, Pyrex Mirror	\$ 925.00
Field Model Questar, Pyrex Mirror, Broad-band & Low Reflection Coatings	1120.00
Field Model Questar, with Cer-Vit Mirror	1035.00
Field Model, as above, with Cer-Vit Mirror, Broad-band and Low Reflection Coatings	1220.00
All Field Models available with Fast Focus (p. 5) extra	295.00

DUPLEX QUESTAR (see page 4)

The price of the Duplex Questar includes lens cap, 80-130x (16 mm.) and 50-80x (24 mm.) eyepieces; built-in finder, power changes, star diagonal erecting prism, Barlow lens, circles, 6-inch sidereal clock, synchronous electric drive, slow motions, safety clutches, clamp in Altitude-Declination, finder sun filter; velvet-lined leather case with door pouches that hold one eyepiece, 1.5" solar filter, electric cord, and legs for converting to table-top polar equatorial position. Dark blue anodized dewcap and basic camera coupling also included.

Duplex Questar with Pyrex Mirror	\$1575.00
Duplex Questar with Pyrex Mirror, Broad-band & Low Reflection Coatings	1765.00
Duplex Questar with Cer-Vit Mirror	1680.00
Duplex Questar with Cer-Vit Mirror, Broad-band and Low Reflection Coatings	1870.00

QUESTAR SEVEN (see page 2)

The price of the barrel and control box assembly includes two eyepieces, providing powers from 96 to 384, built-in Barlow lens, built-in finder and power changes, star diagonal erecting prism, basic camera coupling set and carrying case.

Questar Seven, Barrel and Control Box Assembly, Pyrex Mirror	\$2950.00
Questar Seven, Barrel and Control Box Assembly, Cer-Vit Mirror	3850.00

The price of the full-mounted Seven includes two eyepieces, providing powers from 96 to 384, built-in Barlow lens, 3½-inch aperture safe solar filter, finder solar filter, legs for table-top polar equatorial position; built-in finder; power changes, star diagonal erecting prism, circles, worm-driven sidereal clock; synchronous electric drive, slow motions, safety clutch, clamp in altitude-declination; also included, basic camera coupling, carrying case.

Questar Seven, Fully Mounted, Pyrex Mirror ..	\$5070.00
Questar Seven, Fully Mounted, Cer-Vit Mirror ..	\$5970.00

QUESTAR FOLDING PIER (page 2)

Folding Pier, complete mounting with cradle head	\$ 725.00
Questar-modified Heavy Duty Davis and Sanford Pan Head (for use with Questar 7 barrel assembly)	115.00

QUESTAR CINEMA MODEL (page 5)

Questar Cinema Model, Pyrex Mirror	\$1525.00
Pyrex Mirror, Broad-band & Low-Reflection Coatings	1720.00
Questar Cinema Model, Cer-Vit Mirror	1625.00
Cer-Vit Mirror, Broad-band & Low-Reflection Coatings	1820.00
Questar Calibrated Follow-Focus	72.00

PRICE LIST, continued

Basic Camera Coupling Set and Adapters (see page 5)

Questar's basic camera coupling must be used with all cameras. It is also useful for supporting the eyepiece above the control box, as shown in the cutaway, for powers of 300 or more.

The coupling has Praktica threads which fit the largest number of single-lens reflex cameras, namely: Asahi Pentax, Astra, Contax D, Contax S, Consol, Edixa, Heiland Pentax, Hexacon, Pentacon, Pentax Spotmatic, Praktica, Praktiflex, Rival, Tower, Yashica J-5. No extra adapter needed for these.

Certain other bodies need another adapter ring with a female Praktica thread to attach to our basic coupling. The prices of adapter rings available are as follows:

Alpa, **\$60**; Canonflex, **\$11.50**; Contarex, **\$60**; Exakta, **\$22.40**; Hasselblad, **\$57.50**; Konica, **\$16.75**; Leicaflex, **\$42.50**; Minolta, **\$40**; Miranda, **\$19.50**; Praktina, **\$11**; Yashica Pentamatic, **\$10.25**; Rollei SL66, **\$62.50**.

The Leica Visoflex reflex housing with forward end that attaches with threads, **\$27.00**; with forward end that attaches with bayonet, **\$42.50**. Be sure to specify.

Questar-Olympus Adapter, **\$47.50**; Questar Nikon Adapter, **\$15.00**; Questar C-Mount Adapter, **\$20.00**.

Extra extension tubes sold separately, **\$10.00**. When ordering coupling set or extension tubes please specify for which Questar model.

The Questar Service and Sales Policy

Questars are sold from our factory in New Hope, Pennsylvania, at one net factory price. The hundreds of dollars you save by ordering from these pages, as thousands of persons have, are enough to pay your fare to inspect a Questar at our offices here where you are always welcome.

Fast and efficient servicing of your Questar will always be available at the factory. Our policy is to protect your investment. Adjustments will be made at our expense if the fault was ours. Adjustment and replacements after reasonable wear, or modernizing of instruments, will be done at cost of time and materials.

Materials, workmanship and our standard coatings are guaranteed for 10 years. Broad-band and low reflection coatings are guaranteed for three years.

Please do not ask the name of the nearest Questar owner. It is our policy to protect the personal privacy of every Questar owner. You have our promise that in the following years we will never refer prospects to you for demonstrations, send strangers to your door, or ask you to act as our agent or salesman.

Ordering, Packing and Shipping

When ordering your Questar, send check for full amount. Cashier's or Certified Check will speed processing of your order. Please include approximate shipping charges (see chart below.) Your invoice will show charges, and balance or credit due.

All Questars are shipped in specially engineered packaging cushioned with AirCap.

Examples of Approximate Shipping Charges

Questar 3½, Standard by UPS,	
New Hope to New York	\$ 5.00
New Hope to Chicago	6.50
New Hope to West Coast	14.00

QUESTAR 7, Barrel, by Motor Freight,	
New Hope to New York	\$15.00
New Hope to Chicago	18.00
New Hope to West Coast	32.00

Air Freight Charges on request



Thank you for your request for Questar literature. This is our catalog of Instruments and Accessories. You might also enjoy our booklet in full color with 150 photographs by Questar owners. Send \$1 for mailing and handling costs on this continent; by air to South America, \$3.00; Europe and North Africa, \$3.50; elsewhere \$4.00.

QUESTAR, RD 1, New Hope, Pennsylvania 18938
Phone: 215-862-2000 and 215-862-5277

PRICE LIST, continued

THE QUESTAR-MODIFIED OLYMPUS OM-1 (page 5)

Questar-modified Olympus OM-1 camera body including #1 and #7 viewing screens, Pentaprism, Varimagini finder, built-in light meter, cable release, and Questar-Olympus adapter	\$365.00
Basic Camera Coupling (for all cameras)	27.50
50 mm. f 1.4 G Zuiko Auto-S Lens	155.00
100 mm. f 2.8 E Zuiko Auto-T Lens	219.95
135 mm. f 2.8 E Zuiko Auto-T Lens	249.95
Eveready Semi-hard Camera Case	23.00
Questar-Olympus Adapter (if sold separately) ...	47.50

We are in constant touch with the Olympus importer and can obtain any Olympus accessory for you.

QUESTAR-MODIFIED NIKON (page 5)

Questar-modified Nikon F camera body with body cap, waist level finder, Type B ground glass, cable release, adapter ring	\$329.50
Questar-modified Nikon F with FTN Meter, camera body with body cap, Type B ground glass, cable release, adapter ring	457.50
Basic Camera Coupling (for all cameras)	27.50
F/1.4 Auto-Nikkor Lens	199.50
F/2 Auto-Nikkor Lens	115.00
F/3.5 Auto-Nikkor Zoom Lens	259.50
Right Angle Finder for Photomic T, TN and FTN	34.50
Waist Level Finder, Model 3	35.50
Pentaprism Finder	64.50
Type A Ground glass with split prism rangefinder .	24.50
Type B Ground glass	24.50
Type C Ground glass with clear center and cross	24.50
DW-2 High-magnification Finder 6x	137.50
Type M Clear Glass Focusing Screen with crosshairs to use with DW-2 Finder	24.50
Cable Release	5.95
Rear Lens Cap	2.10
Eveready Case	29.95
Questar-Nikon Adapter (if sold separately)	15.00

We are in constant touch with Nikon's national office and can get any item quickly.

GITZO TRIPOD (page 4)

Tele-Studex Compact (complete heavy duty Tripod includes Rising Center Post and Pan Head) ...	\$365.00
Pan Head, sold separately	94.95

QUESTAR-MODIFIED DAVIS & SANFORD

FIELD TRIPOD (page 4)	\$135.00
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**Prices are subject to change without notice
See page 8 for Ordering and Shipping**

Optical Glass Filters

Color filters, sometimes useful in planetary and lunar observation to overcome scattering, or in any photography where haze causes image deterioration, are now available in fine optical glass. Send for our leaflet on filter techniques. Twelve filters available, see price list, page 6.

**All Questar components are made
in the United States**

PRICE LIST, continued

Basic Camera Coupling Set and Adapters (see page 5)

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Extra extension tubes sold separately, **\$10.00**. When ordering coupling set or extension tubes please specify for which Questar model.

The Questar Service and Sales Policy

Questars are sold from our factory in New Hope, Pennsylvania, at one net factory price. The hundreds of dollars you save by ordering from these pages, as thousands of persons have, are enough to pay your fare to inspect a Questar at our offices here where you are always welcome.

Fast and efficient servicing of your Questar will always be available at the factory. Our policy is to protect your investment. Adjustments will be made at our expense if the fault was ours. Adjustment and replacements after reasonable wear, or modernizing of instruments, will be done at cost of time and materials.

Materials, workmanship and our standard coatings are guaranteed for 10 years. Broad-band and low reflection coatings are guaranteed for three years.

Please do not ask the name of the nearest Questar owner. It is our policy to protect the personal privacy of every Questar owner. You have our promise that in the following years we will never refer prospects to you for demonstrations, send strangers to your door, or ask you to act as our agent or salesman.

Ordering, Packing and Shipping

When ordering your Questar, send check for full amount. Cashier's or Certified Check will speed processing of your order. Please include approximate shipping charges (see chart below.) Your invoice will show charges, and balance or credit due.

All Questars are shipped in specially engineered packaging cushioned with AirCap.

Examples of Approximate Shipping Charges

Questar 3½, Standard by UPS,	
New Hope to New York	\$ 5.00
New Hope to Chicago	6.50
New Hope to West Coast	14.00
QUESTAR 7, Barrel, by Motor Freight,	
New Hope to New York	\$15.00
New Hope to Chicago	18.00
New Hope to West Coast	32.00

Air Freight Charges on request



Thank you for your request for Questar literature. This is our catalog of Instruments and Accessories. You might also enjoy our booklet in full color with 150 photographs by Questar owners. Send \$1 for mailing and handling costs on this continent; by air to South America, \$3.00; Europe and North Africa, \$3.50; elsewhere \$4.00.

**QUESTAR, RD 1, New Hope, Pennsylvania 18938
Phone: 215-862-2000 and 215-862-5277**

QUESTAR in education . . .

versatile, easily portable, photo-visual, diffraction limited . . . used at all levels of education from secondary schools to universities.



Questar's use as a teaching tool in schools and colleges has become one of its most important functions. Not only does its superb resolution and range of sizes provide all the telescope a science or astronomy class needs, but it is a favorite with both students and faculty who no longer have to cope with great cumbersome, trembling instruments. Imagine a rock-steady, fully-mounted, portable observatory that you can put away in the closet with the microscopes!

Many schools, colleges and planetariums start out with one Questar. And then as time goes by, repeat orders come in letting us know that a whole science class is being outfitted so that each student will have his own Questar. To us this makes more sense than providing one big instrument for a large group. It permits a student to give his full time to observing, instead of waiting his turn for a brief look. It would seem that the important question is, how many Questars will your budget allow? rather than, how large a telescope can you get for a given amount of money?

This was the point of view at Southern Connecticut College, where the class shown here is engaged in solar observation. Each Questar was equipped with a totally safe sun filter.

Questar does so many jobs that the instrument is never idle. For moon and planetary observation at night, sunspots in the daytime, or a trip into the field where it is used on nature studies, often to observe and photograph phenomena that would otherwise be inaccessible. This easily portable instrument makes it all possible.

QUESTAR for special applications . . .

laser tracking radars • rocket-borne instrumentation • closed circuit television • laser sending and receiving • solar research • CAT detection • site testing • biomedical studies • tower inspection • photography in the IR and UV • surveillance, day and night • maintenance observation • satellite tracking • bore sighting • balloon flight photography • underwater observing of nuclear reactors • observing hot materials in the laboratory • collimating • star tracking • heavy industry supervision from ground level • fast photography of critical processes • beam expanders • motion detectors • underwater laser transceivers • laser range and bearing systems • low light level pulsing detectors • reticle illuminators • autocollimators

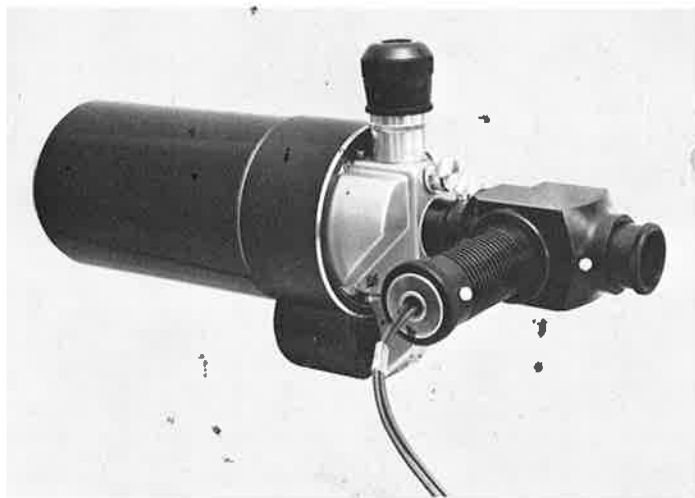
The superb Questar optical system does more than capture those "impossible" views. It is adapted to instrumentation wherever the finest resolution is imperative and where its small size and versatility can do an otherwise "impossible" job. For example, its accuracy and convenience have been applied to the development of the Questar-Autocollimator.

QUESTAR-AUTOCOLLIMATOR

The Questar-Autocollimator is a precision angle-measuring instrument with many features and advantages never before offered in an autocollimator. It has a working range of from 6 inches to 220 feet and a focusing range of from 10 feet to infinity. It features for the first time both a wide-field and high-power finder system which permits almost immediate initial alignment and substantially reduces the time required to make a measurement. Unusually bright images coupled with extended eye relief further accentuate the ease and speed with which measurements can be made.

It is the unique design of the Questar-Autocollimator that provides these many advantages—its modern catadioptric optical system produces an autocollimator and alignment telescope having an effective focal length of 41.73 inches in an instrument that is only 15 inches in length and weighs less than 3½ pounds!

The Questar Seven is also used as an Autocollimator without any special modification. Just by adding the autocollimating device, the Seven becomes a most accurate check in testing other optical systems.



Contact us about Questars for special applications