



94mm F/7
Brandon



94mm F/7 Brandon[®]

NOTE: We challenge any other commercial telescope — size for size — to equal or exceed the overall performance of the 94mm BRANDON[®] Apochromat.

The 94mm f/7 BRANDON[®] Apochromatic Refractor

Thank you for your interest regarding the 94mm BRANDON Apochromat. We have prepared this flyer to answer any questions you may have concerning this exquisite instrument.

The 94mm BRANDON was developed in response to a challenge to build the best portable telescope ever offered. In order to accomplish this feat, we use the highest quality optics available and one of the best lens cell/tube/rack & pinion combinations made. To further insure optical perfection, VERNONscope offers a complete accessory line to compliment this instrument.

The 94mm BRANDON[®] Tube Assembly

The heart of our tube assembly is a 99mm O.D. Christen triplet lens, comprised of the best glass type available. Each objective is hand-corrected on all six surfaces and coated with hard MgF2 on both air-to-glass surfaces. A hi-tech lens cement bonds the elements so no moisture or dust will ever appear internally. When fitted in the engraved adjustable cell, the lens has an actual clear aperture of 3.7 inches (94mm).

The overall length of the 94mm tube assembly, including 6" dew cap and focuser, is 24" and weighs 8-lbs. The tube I.D. is precisely baffled and blackened to eliminate any stray light. Our deluxe 2" focuser and sliding tube (within the focuser) have a combined travel of 8". A unique locking device secures the focusing tube.

The 94mm aluminum tube assembly is beautifully finished

with durable sky blue polished enamel. (Optional white tube available.) All hardware is chrome plated.

Why f/7?

The focal ratio of f/7 was chosen for portability purposes as well as overall viewing versatility. The 640mm focal length allows for a wide range of magnifications to suit all observing requirements (48mm BRANDON gives 13x; 8mm BRANDON with 2.4x DAKIN Barlow provides 192x). At f/7 there is no noticeable coma or color, (common with fast systems), and yet the tube is still short enough to be easily transported.



2" Amici with eyepiece



2" O.D. 2x Barlow

Accessories for the 94mm BRANDON[®]

To insure optical perfection when using the 94mm BRANDON Apochromat, VERNONscope has developed a 2" 1/20th wave star diagonal. A 2" to 1 1/4" adapter is available for 1 1/4" eyepieces.

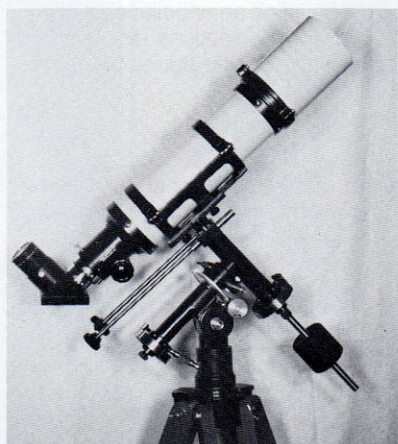
We highly recommend our 48mm 2" O.D. BRANDON eyepiece. It provides 13x with nearly 4° actual field (8 full moons!), thereby eliminating the need for a finderscope. This eyepiece provides the observer with exceptionally crisp, high contrast images, so necessary for deep sky viewing.

VERNONscope also offers 1¼" BRANDON eyepieces ranging in focal lengths from 8mm to 32mm, as well as the famous 2.4x DAKIN Barlow, and a series of 15 colored glass filters. Camera Adapters are available for high resolution photography.

For terrestrial viewing we are pleased to announce the development of a 2" 45° Amici prism. This prism works very well with our 32mm 2" O.D. widefield eyepiece, as this combination offers crisp erect images corrected left to right.

Another unique product now available is our new 2" O.D. parfocal Barlow for visual or photographic use. When placed between the focuser and star diagonal, it doubles the power of any eyepiece.

Guide telescopes, around-the-tube mounting rings, camera mount rings, extra counterweights, solar filters and other accessories are available for the 94mm scope. Please phone or write us with your special requirements.



94mm f/7 Equatorial Mount

Mounting the 94mm Tube Assembly

Although the 94mm BRANDON can be adapted to any sturdy tripod, we recommend our rock steady alt-azimuth mount with wooden legs, total weight 14-lbs. This unit is provided with oversize micrometric slow motions, permitting the observer to achieve easy hand tracking of any celestial object in its march across the night sky. The tube may be quickly removed from the cradle and/or the cradle from the mount for easy disassembly. The 51" wooden legs fold in half when transporting. For the serious astrophotographer, we offer a precision equatorial mount with engraved setting circles and optional clock drive.

Viewing with the 94mm BRANDON® Apochromat

The 94mm BRANDON could well be the most versatile instrument ever developed. It is suitable for **all** types of viewing. You will be delighted to observe a fly's iridescent wing structure from only 7-ft. away and a few hours later explore galaxies millions of light years distant.

The 94mm BRANDON objective has been tested in the laboratory on high contrast lens resolution test charts to over 1,000x without noticeable image breakdown, or the secondary spectrum color error so common in achromatic lenses. Such higher magnifications are impractical for ordinary viewing but are useful as a check on image quality. Magnifications of up to 300x or so are practical on bright objects on nights of very steady atmospheric conditions, though half this amount or less will be generally be found to be most useful.

At night, the 94mm BRANDON provides colorfree pin-

point star images against an extremely black sky background. With remarkably high contrast, deep sky objects seem to leap out at the observer. For planetary work, the 94mm BRANDON gives very bright, contrasty images, that reveal considerably more detail than seen in much larger instruments.

In Summary

The 94mm f/7 BRANDON Apochromat is our finest effort in over 30 years of telescope manufacturing expertise. We have taken into account every conceivable detail from knowing how to precisely mount and collimate the hand-corrected triplet lens down to even incorporating dual locks on the deluxe 2" focuser. In short, the 94mm BRANDON instrument is engineered and built to absolute perfection.

For a lifetime of delightful, trouble-free observing, we would feel honored to have you order this world-class instrument today.

Price List (includes crating and freight)

94mm BRANDON Apochromatic Tube Assembly	\$ 1,295.00
Custom Cradle with Hinged Rings for 94mm	
Tube	\$ 85.00
Deluxe Alt-Azimuth Mount with Wooden Legs ...	\$ 465.00
Deluxe Equatorial Mount with Wooden Legs	\$ 835.00
110-Volt Clock Drive for Equatorial Mount	\$ 165.00
2" O.D. 1/20th Wave Star Diagonal	\$ 175.00
2" O.D. 45° Amici Prism	\$ 145.00 ✓
2" O.D. Parfocal 2x Barlow	\$ 135.00 ✓
2" O.D. 32mm Widefield Eyepiece	\$ 125.00 ✓
2" O.D. Camera Adapter	\$ 35.00
T-Rings (please state camera size)	\$ 15.00
2" to 1¼" Eyepiece Adapter	\$ 20.00

Special Package Price List

94mm BRANDON Apochromatic Tube Assembly, 2" O.D. 1/20th Wave Star Diagonal and 2" O.D. 48mm BRANDON Eyepiece, **\$1,595.00**

The Above with Deluxe Alt-Azimuth Mount Plus Cradle and Hinged Rings, **\$1,995.00** ✓

With Deluxe Equatorial Mount, Cradle and Rings, **\$2,385.00**

Including Clock Drive, **\$2,535.00**

All instruments are crated in custom-made wooden boxes with foam interiors. Our prices **include** paid U.P.S. insured freight by VERNONscope to anywhere in North America. (Overseas please write for additional freight requirements.) New York State residents include 7% sales tax.

WE AIM TO PLEASE!

For those of you not familiar with VERNONscope — We're located in the fingerlakes region of upstate New York between Binghamton and Ithaca, and have been manufacturing fine telescopes and related accessories since 1958.

The key word to our continued growth is *dedication*. By using the best materials and assemblage methods available, prestigious optical products at reasonable prices are assured. All products manufactured by VERNONscope carry a lifetime warranty, and if any purchase fails to fully please, it may be returned within 30 days for a full refund.

COME UP TO BRANDON®!



Tired of the ghost images, short eye relief and poor contrasts of Plössls? Then try the #1 eyepiece made — BRANDON®. Used exclusively in QUESTAR telescopes, the BRANDON® has not only survived the Plössls blitz, it has actually thrived because of them. Did you know that most Plössls are really symmetrical type eyepieces — the eyelens and fieldlens being identical, and made of common-type glass. They're considered a manufacturers dream to produce because they can be so cheaply made. But just look at what you have to pay for them!

Not so with the BRANDON®. "Of the seventeen optical characteristics in an eyepiece, the BRANDON® is the best well-balanced design I've ever seen." — D. M., West Germany. "I was using well-known Plössls in my 9" Alvan Clark until a friend loaned me a BRANDON®. What an unbelievable difference! The internal reflections disappeared

and the sky background was much blacker." — J. P., California. "I was especially pleased with observations of Jupiter during the recent opposition; for planetary work, the BRANDON® is a distinctly superior eyepiece." — T. H., Pennsylvania.

If you've never tried a BRANDON®, for heaven's sake purchase one today and find out why we're still #1 after 30 years.

BRANDON® — For the Best from your Telescope. The famous BRANDON® oculars are machined and assembled at our Candor factory. They incorporate the original optical designs of Chester Brandon, and are acclaimed by leading astronomers as unquestionably the finest ocular set in the world. The top performance of your telescope will be fully realized and appreciated only when the eyepiece is BRANDON®. Specifications:

1. Four-element designs give a flat, beautifully corrected, wide field of view.
2. Optical elements are exactly ground and hard-coated with magnesium fluoride.
3. Precision metal parts are black-anodized for antireflection and machined to standard 1 1/4" outside diameter.
4. Parfocal mechanical designs — no need to refocus when changing eyepieces.
5. Extra-long exit pupil distance provides observing ease.
6. Threaded at the base to accept all VERNONscope Mounted Glass Filters.
7. Rubber eyecups eliminate stray light, roll down for eyeglasses.

PARFOCAL BRANDON® OCULARS — Effective focal lengths: 8, 12, 16, 24 and 32mm — **\$95.00 each, ppd.**

48mm Focal Length BRANDON® with 2.0" Outside Diameter. This is probably the finest long-focal-length ocular in existence. The flat, wide field is flawless in all optical respects, to the extreme edge. Lens diameter is 1 1/16". For use with all telescope types, including long and short focal lengths.

48mm e.f.l. **BRANDON® OCULAR** — **\$215.00 ppd.** Adapter for 1 1/4" focusing units — **\$20.00 ppd.**

DAKIN® — Finest Barlow in the World. 2.4 magnification size eliminates duplication of power. When used with BRANDON® oculars, the 32mm focal length changes to 14mm, 24mm to 10mm, 16mm to 7mm, 12mm to 5mm, and 8mm to 3.5mm.

1. Doublet lens, —66mm f.l. 1" clear aperture, straw-coated for maximum transmission.
2. Precision metal parts, black anodized, threaded internally to eliminate glare.
3. Accepts standard 1 1/4" outside diameter eyepieces.
4. Retains full eye relief and entire apparent field of all standard oculars.
5. Threaded base accepts VERNONscope Mounted Glass Filters.
6. Parfocalized in conjunction with parfocal BRANDON® Oculars.

PARFOCAL DAKIN® BARLOW — **\$95.00 ppd.**

VERNONscope Mounted Glass Filters feature 1" clear-aperture optical glass. Numbers are engraved on the mounting to correspond with those of the Kodak Wratten series. The mountings are edge-knurled and threaded to fit the bases of BRANDON® Oculars and DAKIN® Barlows. During the past few years we have sold thousands of these filters. They cut glare, give better contrast, increase definition, and lessen eye fatigue. The most popular filters are underlined.

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| ✓ #1A — Skylight (86% trans.) | ✓ #15 — Deep Yellow (66%) | ✓ #25 — Red (14%) | ✓ #56 — Light Green (56%) | ✓ #82A — Light Blue (72%) |
| ✓ #8 — Light Yellow (83%) | ✓ #21 — Orange (46%) | ✓ #30 — Magenta (58%) | ✓ #58 — Green (24%) | ✓ #85 — Salmon (63%) |
| ✓ #12 — Yellow (74%) | ✓ #23A — Light Red (25%) | ✓ #47 — Violet (1%) | ✓ #80A — Blue (30%) | ✓ Polarizer (30%) |

VERNONscope FILTERS — **\$15.00 each, ppd.:** Set of any five — **\$65.00 ppd.** Adapter for all 1 1/4" eyepieces — **\$20.00 ppd.**

We now offer the following sets, each encased in a fine wooden carrying case:

- Set of five parfocal BRANDON® Oculars — **\$475.00 ppd.**
- Set of five parfocal BRANDON® Oculars, DAKIN® Barlow, and your choice of 10 Mounted Glass Filters — **\$685.00 ppd.**
- Set of five parfocal BRANDONS®, 48mm BRANDON®, DAKIN® Barlow, all 15 filters — **\$965.00 ppd.**
- Personalized brass nameplate attached on case — **\$20.00 ppd.**

VERNONscope products are American-made. Workmanship and performance guaranteed, or your money refunded.

Immediate delivery. New York State residents include 7% sales tax. Outside USA, please add 10% for airmail delivery.

VERNONscope & Co.

Candor, New York 13743

Telephone (607) 659-7000