UNIVERSITY OPTICS, INC.

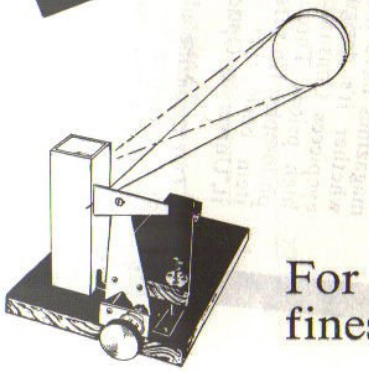
P.O. Box 1205
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CATALOGUE 91-92
15 NEW ITEMS !

TO :



For 32 years, your source for the finest in precision optics !

FINE QUALITY AT REASONABLE PRICES

Over 31 years of dependable service to the astronomical community...

A message from our president.....

It's hard to believe that it was nearly 32 years ago my father and I first expanded our hobby into a business and started offering telescope making supplies to the readers of *Sky & Telescope.*

Today, looking back over those early issues, one is struck by the fact how few firms have survived through the years. There are only two or three of us still around!. Being one of the " patriarchs " of the telescope industry carries with it a sense of responsibility to the several generations of customers that we have served. We pledge to continue to provide quality products and excellent service to you, our valued customers.

Through the years, we helped pioneer many of the products and techniques that are industry standards. In the 1950's when everyone was busy grinding telescope mirrors, we designed and produced a precision Foucault tester to help figure all those excellent parabolic mirrors out there. In the late 1960's, we incorporated the concept of multi-coating into telescope oculars for the first time. Until then, these coatings had only been used in expensive camera lenses. Today, *our optics always give you state of the art advances* in multi-coated optics. Don't be misled by the rather confusing claims concerning coatings being put our by competitive firms.

In the 1970's when the price of mailing a letter began to skyrocket, we were the first in our field to offer the convience of a toll free telephone number to our customers. Every other firm in the business has followed our lead and now offers similar service.

To the best of our knowledge, we are the only firm that shares your concern about our enviornment by using only recycled and recycable packing and shipping materials.

As we move into the 90's, we are entering an economic era the national news magazines have called "hunkering down" .Conspicuous consumption is out whether it's designer clothes, fancy restaurants, or expensive "designer" eyepieces. Consumers are simply digging their heels in and refusing to pay high prices. Through the years we have always held to this very same philosophy. University Optics has always offered greater value on an item for item basis than any other company. As one customer so aptly put it,"University Optics has always been the intelligent choice in optics."

Our magazine ads continue to be conservative black and white. Most people fail to realize the astronomical expense in promoting a product in color. Such huge per unit advertising costs have to be passed right on to the consumer.I estimate that if our ads were in color, our customers would end up paying $20 to $30 per eyepiece extra while getting nothing in return.

Since we are tight with our advertising dollars, you hardly ever see our products reviewed in the national magazines. However, printed elsewhere in this catalogue are some results of extensive comparisons on commercial telescope oculars appearing in the Webb Society Quartly Journal. While the results didn't surprise us, they should shock some of you out there who have paid high prices for " designer name" eyepieces! A review like this means more to us than a hundred commercial "product reviews".

I think the 90's will continue to see the trend back to surpurb quality reflectors and refractors many of which will be " home made " or at least home assembled. It's a time of back to basics! One thing you can always be sure of during the coming years, like a steady hand at the helm, University Optics will always be there to give you the best quality at the most reasonable prices.

We feel confident that once we have had a chance to serve you, you will join our long list of friends.

My best wishes,

Jan W. Seyfried

Dr. J.W. Seyfried
President

When using VISA or Mastercard, please give all numbers and letters plus expiration date.

call toll free

800 521 2828



Please use order form at back of catalogue

100% Satisfaction
Money-Back Guarantee

If you are not happy with your purchase simply return it within 30 days in new condition for a refund of the purchase price.

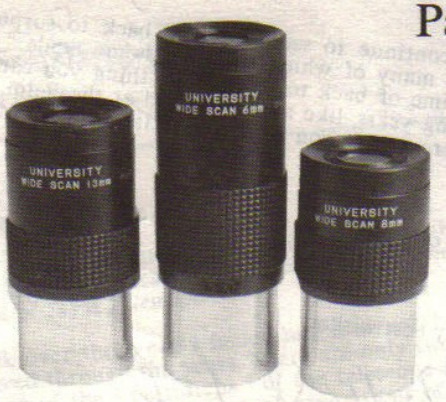
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WIDE SCAN™



The World's Most Exciting Line of Panoramic Oculars!



Most models (indicated by *) fit inside telextenders and many camera adapters opening up a whole new era of wide-field photography.

Our Wide Scan oculars really should be called " second generation " panoramic oculars in that through superior lens designs in combination with new high dispersion lens glass available only through Japanese and American sources, we are able to duplicate the performance of 8 or 9 lens systems while giving you a lighter more compact high performance ocular.

We test marketed the Wide Scan ocular for about a year in Japan before introducing them in this country. The Japanese market is simply the toughest place in the world to sell oculars, but I am happy to report the Wide Sacns now dominate that market. As a matter of fact, the competition appears to have simply folded their tent and left town! You can easily discover what other amateurs the world over already know, point for point, feature for feature, University Wide Scans are the world's best!

Our marketing methods for the Wide Scans are a little different than other firms in this industry. We don't waste money on expensive, seductive color ads to win customers. We seek the competition at star parties and conventions throughout the country for one - on - one performance comparisons under the night sky. When all factors are considered, there is only one winner, the University Wide Scans!

All University Wide Scan 1-1/4" oculars feature True Spectrum multi-coating, rubber eyeguards, are threaded for filters, and come with dust caps covering both ocular and field lenses.

***New 6mm**–For those of you interested in high magnification combined with an 82 degree field, this new Wide Scan fills the bill. Nice 6mm eye relief. Rubber eyeguard. $125.00

***New 8mm**-Perfect for double stars, planets, and star clusters. 6.9mm eye relief. Rubber eyeguard. **$125.00.**

***10mm**- One of our most popular Wide Scans, this model gives a brighter image than competitive eyepiece in this focal range. 84 degree field. Rubber eyeguard standard. 7mm eye relief. **$130.00**

***13mm**-With its huge true field and good eye relief, this is the perfect eyepiece for those big Dobsonians out there. 84 degree field with rubber eyeguard. **$130.00**

***New 16mm**- Another new addition in the popular 16mm focal length. 82 degree field and 17mm eye relief. "Amazing" is the best way to describe it! Rubber eyeguard standard. **$140.00**

20mm- Aptly called "the giant killer", this remarkable eyepiece gives the same field of view, same edge correction, and a brighter image than competitive oculars. All this in a 7.5 oz. package vs. nearly 2.5 lbs. required by the competition! *No image ghosting on bright objects!* 82 degree field. **$150.00**

25mm- We added another lens to this popular Wide Scan (7 total) to give better edge resolution and a nice flat field. Very comfortable to use with 18mm eye relief and fold down rubber eyeguard. 70 degree field. **$150.00**

WIDE SCAN™ 32mm



The World's Most Remarkable 32mm 2" O.D. Ocular !

Sometimes it's better to give our ad writer the day off and just let an astronomer describe one of our products and how they compare to other products being sold out there.

Dear People,

What troublemakers we are! Just when most of my wide-viewing friends have filled their needs with more loudly advertised eyepiece brands, along I come with my new 32mm Wide Scan. With the magnification of a 32mm and the field of..... nothing else in this range, it replaces two if not three 65-degree eyepieces! If the view weren't enough, the weight and size of this beauty is equivalent to 8.8/9mm eyepieces with this apparent field! The views with this eyepiece have been amazing, and two people have made plans to sell their 32 and 40mm eyepieces to make room for the Wide Scan. I expect this range of eyepiece will be flooded with used 65-67 degree eyepieces. My computer program predicted a true field slightly lass than a 40mm 65 degree eyepiece, but three of us agree that the Wide Scan is actually slightly wider!

I am glad I bought this eyepiece early; the Portland area alone may exhaust your inventories, and I will be on top of all lists when star parties form. Thank you for breaking up the stagnant eyepiece market with your inovative Wide Scans; everyone benefits from variety and all who purchase your optics will benefit the most of all.

Well, I must close now. I'm off to visit another astronomer who is ready to purchase a 32mm Wide Scan at the expense of his current glass counterweight. I expect you will hear from him soon.

Sincerely,

J.R / Portland OR.

Specifications for the world's finest 32mm ocular are as follows:

Weight- 19 oz.
Field of View- 84 degrees
Height- 4.5"
O.D.- 2" threaded for filters
Coatings-Full Spectrum Multi-Coated
Eye Relief- 20mm
Price- $235.00

THE NEW KÖNIG II™



A really "good" wide-field eyepiece could cost you about $200 !

A really "great" one starts at less than $80 !

During the past 25 years, the König has gained a large and loyal following among experienced observers worldwide. It accomplished this not through media "hype" or excessively expensive advertising, but simply giving exceptional performance night after night on a wide variety of telescopes. *Simply put, the König is the world's finest general purpose telescope ocular.*

It was only logical that the next step in the evolution of this remarkable eyepiece would be a highly refined version of the original design. Enter the König-II ! The König-II now incorporates all of the latest in high refractive index glass and advanced multi-coatings. All of the air-to-glass surfaces are now multi-coated for extremely high visual contrast that puts some other eyepieces selling for much more to shame!

What exactly is the König design? Some remarkably misinformed "experts" try to put the König in with Erfles, "designer" Plössls and the like. Actually, the König is a very unique design that allows extremely wide fields and razor sharp definition without adding excess correcting lenses. The 6.5mm, 8mm, 12mm, 16mm and 32mm units employ a 4 lens system arranged in a (1)-(2)-(1) lens grouping. The 24mm employs an extra field corrector lens. *The König is testament to the fact that 4 perfectly designed lenses are all that is really needed for perfect optical performance!*

What about field of view? Our answer is : what good is 80 degrees if you have to weld your eye to the eyelens? *In fact, with its excellent eye relief, the Konig gives more usable field then some hyper wide fields now on the market!* The fields range from 65 degrees on the 6.5mm and 16mm to about 60 degrees on the 8mm, 12mm, and 24mm. Due to the limitations of the 1-1/4" format in the 32mm, the usable field is about 52 degrees. Speaking of the 32mm, We took the lenses from our 32mm 2" König and set them in 1-1/4" metal work. This makes it the most impressive 1-1/4" 32mm eyepiece in the world today!

König-II offers all the advanced features you have come to expect from University Optics through the years. You won't find any high gloss finish on the metal work surrounding the eyelenses. Besides picking up fingerprints, the eyepiece tends to catch every stray light reflection. *Our aluminum ocular caps have a special "dead black" anodized finish,* the first choice of professional astronomers.

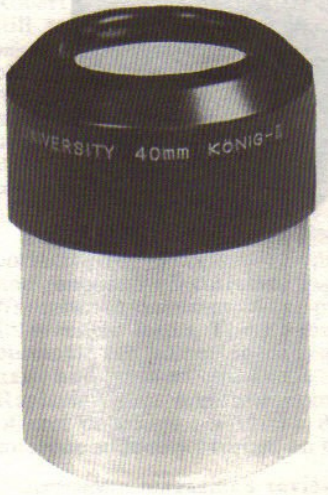
We urge you to join our long list of customers who tell us their Königs are their most prized eyepieces!

6.5mm,8mm,12mm,16mm.....$69.95ea.
24mm.....$74.95
32mm.....$99.95
Includes ocular & barrel dust caps.

GIANT 2"

New 32 & 40mm König–2™

You told us our Konigs were so good they couldn't be improved! The new Konig-2's could prove you wrong!



During the past 15 years, University Optics has led the way in the development of 2" eyepieces for the astronomer. The new 2" Konig-II series is the latest evolutionary step in seeking absolute design perfection. While it's true there have been a number of designs introduced of late trying to match their performance, all have fallen short of the Konig. *Dollar for dollar, there is not a better performing 32mm or 40mm 2" eyepiece in the world today!*

The Konig-II series uses the latest in Hoya camera quality optical glass combined with computer optimized lens designs to yield remarkable resolution and image contrast. The sky appears blacker when comparing these eyepieces with others due to our exceptional multi-coatings. *Remember, University was the first firm to offer multi-coatings on telescope oculars.* This was years before many of the firms now selling eyepieces were even in business!

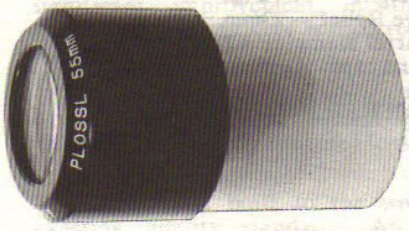
The Konig design offers very comfortable eye-relief combined with a very wide 60 degree field. The precision chromed brass barrels are threaded for 48mm photo-visual and nebular filters. If you have not joined the loyal ranks of Konig owners, we urge you to try one of these eyepieces today!

Includes ocular & barrel dust caps.

32mm Konig-II 2" O.D.....$119.95
40mm Konig-II 2" O.D.....$119.95

55mm Plössl

This eyepiece was tested in a leading astronomy publication in May 1988 and came out on top of all the moderately priced 55's on the market!



Our 55mm 2" O.D. Plossl, with its 50 degree apparent field, yields the largest true field possible in the 2" format. When combined with one of our giant 2" star diagonals, you get better visual contrast and fewer edge abberations than through use of the so called RFA or telecompressor system. *Comparing cost, performance, and quality of construction, our 55mm Plossl gives the typical telescope owner the best vaslue on the market today!* Multi-coated optics of course! Special "flat black" anodized ocular cap with the barrel threaded for 48mm filters. Ocular & barrel lens caps included.

55mm Plossl.....$119.95

KÖNIG II™ 7/70°

Perhaps the most impressive 2" eyepiece EVER MADE!

The new Konig-II 7 / 70 opens a whole new era in wide field giant eyepieces! The remarkable 7-element with its near 70 degree field was designed to give optimum results on a variety of deep sky objects for observers using medium to large aperture telescopes. The performance, for example, on a 10" Schmidt-Cass. is simply breath taking!

Our lens experts, using the new low dispersion camera quality glasses refined this design until absolute perfection was achieved. The first thing you will notice about this eyepiece is the remarkable image contrast. While lesser 40mm units on the market yield a somewhat "washed gray" look to the night sky, our Konig-II produces a stunning "endless space velvet black". The excellent eye relief allows people who wear glasses to get the full benefit of the wide field. The design is also very "forgiving" as your eye does not have to be perfectly on axis to get the full effect of the design.

The lenses are multi-coated of course! Remember, Univeristy Optics "wrote the book" on multi-coating telescope oculars.

A feature not found on any other 40mm eyepiece on the market today is the removable eyecup! If you wear eyeglasses and have to get in even closer to get the full effect of the extreme field, just unscrew the top portion of the eyepiece.This lets you move in another 9mm.

Yes, you could pay over $400 for 40mm eyepiece of this quality and still not get all the advanced features found on the Konig-II 7 / 70!

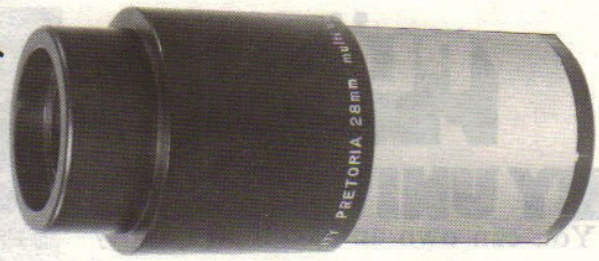


Specifications:

Apparent field - - **70 degrees.**
Field lens diameter - - **50mm.**
Eye Lens diameter - - **37mm.**
Heigth - - **4 1/4"**
Weight - - **1 lb. 4 oz.**
Eye Relief - - **23mm.**
Barrel diameter - **2" 48mm thread**
Dust caps - **Ocular & Barrel**

PRICE..... $235.00

PRETORIA™



Called " The Perfect Newtonian Eyepiece*", The Pretoria has become the "standard" against which all other coma correcting oculars are judged!

It would be safe to say that there has never been an eyepiece design that has generated more interest or been so widely discussed or written about than the Pretoria. It was through the encouragement of the late Robert Cox, who believed that there were still some Newtonian owners interested in *image quality*, that the Pretoria finally was placed in production by University optics. And while we are in fact flattered by so many firms trying "copy" the Pretoria's unique performance, please realize that it's still the world's finest performing coma correcting ocular!

The Pretoria eyepiece is substantially well corrected for spherical aberration and coma and remains well corrected regardless of the f/number or diameter of the primary mirror. In practical terms, The Pretoria will simply eliminate the "comet" shaped images seen off-axis and toward the edge of the field. Replacing your present eyepieces, regardless of cost or design , with the Pretoria is like someone suddenly " turned on the lights"!

Astronomy magazine's reviewer said"...stars appear sharp right out to the edge of the 50 degree apparent field of view. Although many eyepiece designs have claimed that, this is the first eyepiece I have ever seen that lives up to the claim....even though the eyepiece was designed for f/4 Newtonians, I tried it on a 31" f/7 Newtonian and saw a significant improvement in the image. Apparently the eyepiece will correct coma in any Newtonian."*

These remarkable results were achieved not with an 8 or 7 element optical system, but using only 6 perfectly designed lenses!

The Pretoria is built to the world's most exacting quality standards. An eyeguard protects the eyelens and keeps the eye prefectly centered so that even eyeglass wearers can view the entire field.

Multi-coated anti-reflective coatings are standard. While the eyepiece comes with a 1-1/4" adapter, we have found the Pretoria is best suited for use in 2" eyepiece holders. Standard photo-visual filters may be used when the 1-1/4" adapter is in place.

The Pretoria was designed for those seeking only the highest level in visual astromomy. We urge you to join the growing list of professional and amateur observers who make the Pretoria their favorite observing tool.

For those of you interested in complete details and specifications, please see *Telescope Making #29* in the winter of 1986

Acknowledgements

We would like to thank messieurs Klee and McDowell for making this remarkable design available to us. The late Robert Cox also played a major role in helping us bring this eyepiece into the production phase. Bob always belived that there were enough astronomers out there still interested in *image quality rather than image quality.*

Specifications

Focal Length	**28mm.**
Field of View	**50 deg.**
Exit Pupil (f/4)	**7mm**
Eye relief	**25mm.**
Spherical aberration	**Diffraction Limited**
Axial color	**Diffraction Limited**
Coma	**<1 arcminute**
Astigmatism	**0 dioptres**
Field Curvature	**<1 dioptre**

$225.00

* *Astronomy Magazine*, Product review Oct. 1988

PLÖSSL
BY UNIVERSITY

You can own an excellent quality Plossl at a reasonable price!

- 50 degree field
- Classic 4-element design . Multi-coated optics
- Ultra-bright images
- Three useful focal lengths

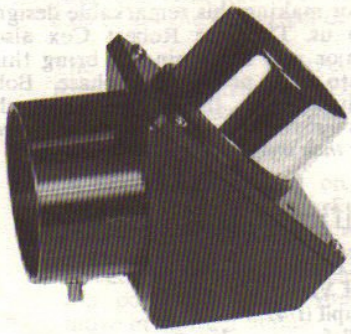


Confused by the flood of Plossls and pseudo-Plossls now flooding the market? We don't blame you. By definition, a Plossl is a 4-element eyepiece with a two and two lens grouping. The design originated in Europe and is fully explained in Texereau's *How To Make a Telescope.*

These new University Plossls are of the original design. By keeping the design of the metal work clean and simple and by limiting the focal lengths, we were able to produce an eyepiece of excellent optical quality at a reasonable price. We incorporated multi-coated lenses, all-metal construction with the chromed brass barrels threaded for filters, and dust caps for both ends of the eyepiece. These features are not found on some Plossls selling for two to three times our modest price.

Our classic Plossls are available in 1 -1/4" O.D. 7mm, 12mm, and 20mm focal lengths. Price..... $49.95 ea.

GIANT 2"
45° Erector



Converts any 2" telescope into an erect image viewing instrument!

Now for the first time, owners of large telescopes using 2" O.D. eyepieces can have a high quality system yielding erect, properly oriented images. Our Schmidt prism lets you view terrestial objects as well as star maps with ease. Unique 45 degree off-set design. This diagonal will fit any 2" focusing mount or with an adapter supplied, screw on a standard Schmidt-Cass. T adapter. Your 2" eyepieces are held firmly with a thumb screw. The unit features all-metal construction with the prism multi-coated for perfect light transmission. **Price..... $159.95**

Barlow Lenses

A remarkable new 3 element air-spaced Barlow from one of the world's most experienced makers of professional quality optics.



KLEE 2.8X- The world's most advanced Barlow lens.

This new 2.8X 1-1/4" O.D. lens system was designed by Heinz Klee to correct sagittal and tangential coma introduced by some primary optical systems. It is also corrected for spherical aberration, longitudinal and lateral color and is the first telenegative amplifer that corrects its own astigmatism. The unit features three elements, each multi-coated and each air-spaced from the other elements. How is this different from all other Barlows on the market? A typical two element barlow has two air-to-glass correcting surfaces to work with. Some other three element Barlows have four correcting surfaces to work with. Since the Klee uses three air-spaced elements, *six correcting surfaces* are available. *There is simply nothing like it anywhere, at any price!* The very compact design is only 2.46" tall! The best in Barlows is available today in the Klee.

Price $75.00

2 X Fully-Baffled Barlow

We have been producing this fully-baffled 2 X Barlow now for over 6 years, and we really don't know any way to improve it! It features a big 27mm multi-coated 2 element negative lens for outstanding performance. All-metal construction with thumb screw. 1 1/4" O.D. Price.....

$47.95

2 inch 2 X Fully-Baffled Barlow

For all those big telescopes and two inch eyepieces out there, you need a really giant barlow! With its 40mm aperture 2-element multi-coated lens, this University Barlow fills the bill. A thumb screw holds your expensive eyepieces secure. What's the difference between this unit and others selling for $220 or more? *Exactly $130 !*

$89.95

NEW TWO INCH DIAGONAL

Giant 2" diagonals including the world's first full aperture prismatic type!

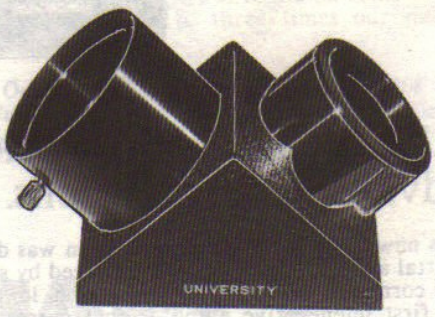
University Optics offers two high quality 2" diagonals that should meet your most critical viewing needs! First, our popular mirror type model is back with an improved mirror! The ultra flat surface is coated with enhanced aluminum for the brightest images possible.

The big news this year is our full aperture *prism type* designed for those of you with expensive telescopes wishing to seal your optical systems. With our giant 2" prism installed on your telescope, no dust, moisture, or pollutants can enter your telescope ! As many of you know, even an overcoated aluminum mirror may require service after a few years. Our prism type on the other hand, *will last a lifetime with minimum care.*

We all know the advantages a 2" diagonal offers the telescope owner. Combine one with our 55mm Plossl for the widest view possible. Schmidt-Cass. owners will be simply thrilled at the deep sky views!

Please note that our 2" diagonals are fully machined of brass and aluminum. Do not confuse these with Bakelite or plastic models seen elsewhere.

These models fit any 2" focusing mount. There also screw on Celestron and Meade standard T adapters if you have a Schmidt-Cass. system





Specifications - Prices

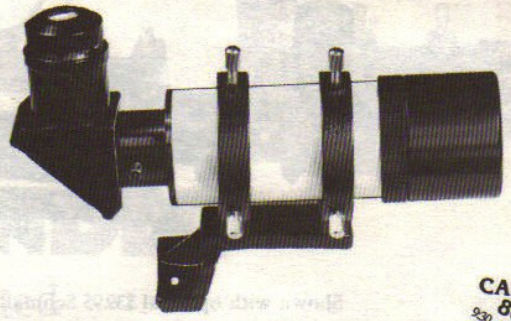
2" Diagonal Mirror Type... $ 99.95

2" Diagonal Prism Type... $ 159.95

1-1/4" adapter- $12.95

8x50

THROUGH THE YEARS, OUR MOST POPULAR FINDER!



CALL TOLL FREE
800 521-2828
9:30 A.M. to 9:30 P.M. Mon. - Sat.

50mm Coated Achromat
1 1/4" Diagonal & Eyepiece
Quality Aluminum Tube
Complete With Strong Mount *
Wide Field Crosshair Eyepiece

*Optional

An 8x50 Viewfinder With All The Finest Features!

We have been designing and building 8x50 finders for more than 20 years, so it would be safe to say we "wrote the book" concerning this particular product. Thousands of 8x50's have been sold and our current offering brings all the latest refinements that have made these the absolute choice of experts around the world.

One of the best compliments we ever received came from the owner of an 8" telescope who informed us that after he mounted our giant 8x50, he now divides his time equally between looking through his main instrument and our wide field finder!

One of the best features of our finder is that it uses standard 1-1/4" accessories. The wide field 30mm crosshair eyepiece is of such excellent quality you can even use it in your main instrument! The same can be said of the 1-1/4" star diagonal.

For a wide, clear razor sharp image, we use a premium quality 2-element fully coated objective The lens cell, dew cap, body tube, and eyepiece holder are all machined aluminum. To focus, simply loosen the objective lock ring and slowly turn the objective cell. The tube diameter is 2-1/8". Weight is only 16 oz.

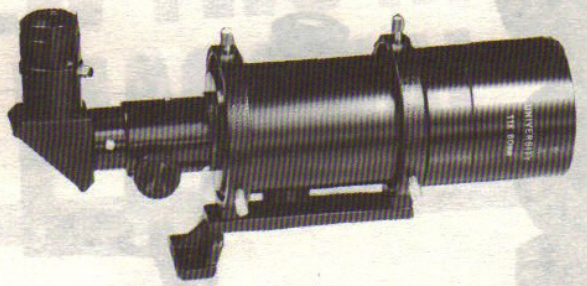
The finder can be mounted using any mounting ring system, however, we suggest you purchase our optional cast aluminum ring mount with 6 adjusting screws. Those of you who have the frustration of trying to align your finder with other types of mounts will love it.

We supply our 8x50's to some of the country's leading custom instrument makers. They know that without a quality finder, viewing can quickly become an unpleasant task. Put the "joy" back into astronomy with one of our 8x50 finders!

The 8x50 is available in high-tech black finish only. The optional mounts fits any C-8 or Meade 8 or 10 Schmidt-Cass. excatly where the original finder was. The mount also fits most reflector or refractor tubing.

Finder... $99.95 Deluxe mounting bracket...$19.95 Straight adapter $10.95.

NEW! 11X80 M.F.T.



Shown with optional $39.95 Schmidt-Cass. bracket.

IT'S THE "ULTIMATE" IN VIEWFINDERS, A NEAT COMET SEEKER, AND A NATURE STUDY SCOPE!

We call this University 80mm telescope a "many function telescope". With the optional astronomical quality amici roof prism, it corrects the image so that it's just like looking through a binocular. There is no more confusion when trying to convert the pictures in a sky atlas to what you are seeing in the night sky. The amici feature also makes this a perfect nature study scope. With the giant 80mm lens, you can see objects under very poor lighting conditions.On the night sky, it becomes the perfect comet hunter. Mount it on top of a larger instrument, or on any camera tripod. It features a built-in camera tripod boss on the bottom!

This excellent finder uses a 320mm f.l. 2-element objective that is fully coated. It uses standard 1-1/4" eyepieces and a 30mm crosshair eyepiece gives wide views of the heavens.The focusing mount is a helical rack and pinion with the eyepiece held in place with a thumb screw. The dew cap unscrews for easy cleaning of the objective. The tube finish is a beautiful satin black. Total length is only 14". All-metal construction. Using the optional ring mount, you can mount this unit directly on a C-8 or 2080. This same bracket can also be used to mount the finder on any large telescope.

Price with Amici Diagonal... $279.95
Price with Normal Diagonal. $225.95

Bracket- as shown above....$39.95

" Limited Edition " 2" 55mm PLOSSL

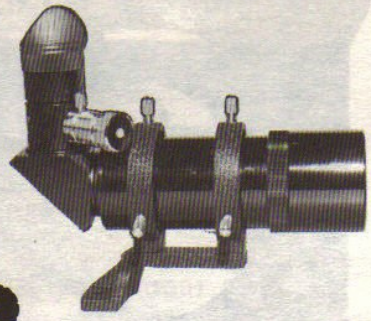


Is there a finer 55mm 2" O.D. Plossl being produced anywhere in the world today? Frankly, we doubt it! This new **"Limited Edition" 55mm Plossl** will equal or exceed the field of view, edge defintion, and light transmission of any 55mm on the market today or *your money refunded!* No questions ask!

Beautiful multi-coated optics set in a especially designed ocular cell with built in eyeguard. This unique design shields the eye lens from stray light and keeps your eye at the perfect viewing distance. *We will produce only 500 pieces in this series.* Each eyepiece will be consecutively numbered. This **"Limited Edition"** is sure to become a collector's item in the future.

Price.....$150.00

THE MAGNIFICENT 8X50 ULTIMATE FINDER



Now fully illuminated
Polaris alignment scale
High Tech Mounting Bracket

1. Self–contained LED with brightness control illuminates the central crosshair and alignment scale.
2. All metal construction featuring aluminum and brass fittings. Metal dew cap.
3. High–tech mount fits right on where 6x30 comes off C–8 and 2080. Finger–tip adjustments (optional)
4. Large 1 1/4" format diagonal and eyepiece for a wide field !
5. Large 50mm 2–element objective lens. Fully coated. Brings out those deep–sky objects!
6. Beautiful black satin finish. A quality addition to any scope.

This excellent quality large fiewfinder incorporates all the features you have ever dreamed about in one magnificant unit.

Having trouble seeing the crosshairs in your present finder? This 8x50 has its own self-contained battery power pack with brightness control. Replaceable batteries are easily obtained in any camera store. This is a fully electronic unit not to be confused with finders offering "glow in the dark" paint that has to be excited with a flashlight every few minutes.

Does your telescope track poorly due to improper polar alignment? Not getting good astrophotographs? While it's now an industry wide practice, we were the first to offer a finder with a polar alignment system years ago. This is the final step in all the things we learned about polar alignment through the years. This system aligns the optical tube, not just the mount or wedge. It uses a precision etched glass reticle for perfect results every time!

While this alignment feature was designed with the Schmidt-Cass. telescopes in mind, owners of regular equatorial mounts can easily adapt the procedures to their scopes.

This advanced high-tech black finder still costs less than some other finders on the market that are light years behind in technical features!

Remember, a good viewfinder is the single most important accessory you can buy to improve your viewing pleasure. Why wait? This University 8x50 brings the "future" here today!

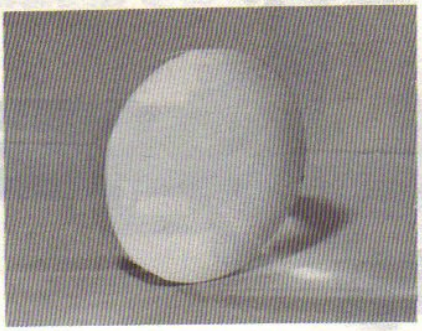
The finder is supplied complete with high-tech ring mount featuring non-marring adjustment screws(6), battery, and polar alignment instructions.

$139.95

Optional mount $19.95

CALL TOLL FREE
800 521-2828
9:30 a.m. to 9:30 p.m. Mon.–Sat.

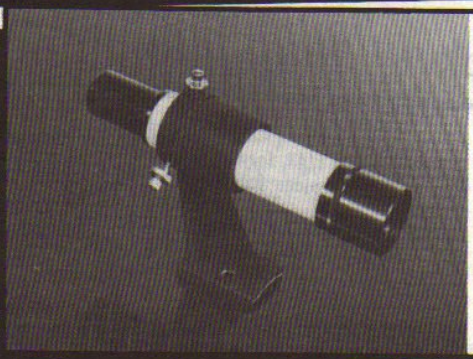
NEW Achromatic Objectives by Hoya



100 mm f / 3.7 !

These new multi-coated 4" objectives have a 370mm focal length! These are the same objectives that are used in some of the new binoculars coming on the market. Think what kind of a super viewfinder or rich field scope they would make.We only have a limited number of these, so sold on a first come,first served basis. **$165.00**

Just Arrived! New 80mm (325mm f.l.) 2-element cemented objectives.....$59.95



6x30 Finder

A very nice quality 6 power viewfinder with a coated 30mm 2-element objective lens and crosshair eyepiece. Body tube and objective cell are aluminum. NOT plastic as on some competitive units. Field of view is 7 degrees. Our price includes a sturdy mounting bracket for your telescope.

Price.....$39.95

new



Parfocal Multi-Coated Kellners !

Yes, there are still some nice quality eyepieces for those of us on a limited budget who can't spend $200 or $300 per ocular! These are 100% ground and polished optical glass set in metal components. Chrome brass barrels. How can we keep the price so low? We buy large quantities and limit the number of focal lengths. **Available in 9mm, 12mm, 18mm, and 25mm. 1 1/4" O.D..... $33.00ea .**



Orthos , Porros

We are continuing this year to carry these very nice quality full-coated Orthoscopic 1-1/4" oculars. These are classic 4-element oculars with excellent correction for spherical and chromatic aberations. Threaded for filters.

6mm, 9mm, 12.5mm and 25mm.....$42.95 ea.

Porro Prisms (Erecting) Gives you right-side-up, non-reversed images. (not for reflectors) 1-1/4" O.D. **$42.00.**

BINOCULAR VIEWER



45 degree off-set head



Removable 1.8X Barlow
360 degree head rotation

Improve your lunar and planetary observations with this high quality binocular viewer from University Optics !

We call our binocular viewer a "second generation" model in that it offers features still not found on competitive units. The head rotates 360 degrees for maximum viewing comfort. The inter-pupillary distance is precise with an engraved distance scale. We supply an expensive 1.8X multi-coated barlow at no added cost. The barlow can be used as a transfer lens when using the viewer with a reflector or refractor. It's also like getting a "free" set of eyepieces in that it almost doubles the power of the eyepieces being used in the viewer.

Why do you need a binocular viewer? Since man is endowed with binocular vision, a viewing system allowing the use of both eyes offers distinct advantages over using only one eye. Since both eyes are open and the facial muscles are relaxed, visual acuity is at its peak. Experienced viewers tell us they can detect more lunar and planetary detail using both eyes.

This viewer is of fine instrument quality with all prisms fully coated. It uses any 1-1/4" eyepieces including the new wide field types.

For the experienced viewer, the binocular viewer can open a whole new area of exciting observations.

$449.00

This is a professional astronomical product and recommended for experienced observers only!

Relax, use both eyes for improved visual acuity!

FOCUSERS

The country's finest selection of focusing mounts for custom telescope builders.

Many telescope owners are surprised to discover that the new complex multi-element oculars now on the market simply won't come to a sharp focus if their field lenses are tilted off-axis due to "sloppy" focusing mounts. The entire line of University mounts are made with absolute minimum lateral axial movement. There are none better made!

VEGA-1



We have been building and improving the Vega-1 now for nearly 20 years and *there is no finer mount, regardless of price, being built today* in its class! All aluminum and brass construction. Full helical cut rack and pinion design for perfect backlash-free, oil smooth operation. 4 tension adjustment screws. In the racked-in position, stands only 3" high. Focus travel is about 2 -1/4". Provision for optional single vane holder. *All mounting hardware is included!*
Price. $49.95 Single vane brass diagonal holder...**$5.00**
The Vega-1 holds all 1 1/4" eyepieces.

VEGA-2



Our giant Vega-2 has been the choice of custom reflector builders now for many years. Perfect for 8" to 24" scopes. All metal construction with smooth helical-cut rack and pinion. Large 1- 1/2" focusing knobs. Racked-in height 3-3/4". 3 1/4" travel. Takes standard 2" O.D. eyepieces and comes complete with 1-1/4" eyepiece adapter. A thumbscrew holds your eyepiece secure. *All mounting hardware included.*
Price..... $72.95

VEGA-3



The Vega-3 Low Profile mount is new with us this year, but we think its the best one we have ever seen! Designed for low profile mounting applications, it stands only about 1-3/4" high off the tube. This is a helical type focus with 16 t.p.i. threading. Unlike some competive mounts that resort to fiber-like or plastic in their construction, the Vega-3 *is 100% aluminum construction.* Each threaded component is individually hand fitted for perfectly smooth operation! This is the perfect replacement mount for the 1-1/4" mounts found on commercial Dobsonians. Uses standard 2" O.D. eyepieces. All mounting hardware is included. *We guarantee this unit has a more precision fit on the focusing tube than other low profile mounts costing much more!*

$54.00



VEGA-4

(prototype pictured -production model fully painted)

You will soon be seeing this beautiful Vega-5 mount on some of the country's finest custom telescopes. *There is simply no finer refractor type focusing mount on the market!* Solid brass rack and pinion combined with a solid brass draw tube assures oil-smooth operation. Extra large 1 - 3/4" focusing knobs. 4 tension adjustment screws. Special locking screw with a nylon tip makes this mount rock solid for photographic use. Extra long 5 - 1/2" movement. Slips in 3.09" mounting hole. Complete with 2" and l -l/4" adapter. **$125.00**

Aluminum end plates for above mount. Fully machined to slip into standard .05" wall aluminum tubing and mounts above focusing mount. **SIZES: 3", 4", 5", 6".....$25.00 each.**

VEGA-5



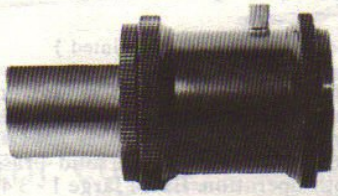
A low profile l -l/4" spiral-type focusing with all-metal construction selling for under $30.00! Impossible! No, the Vega-5 fills the bill nicely! We didn't forget about the people just starting our hobby who may be on limited budgets. This aluminum mount stands only about 1 -1/2" high.
Fits any size telescope tube. Eyepiece secured by thumbscrew. Mounting hardware included. Nothing like it available at anywhere near the price! **$36.95**



VEGA-6

The University Optics rack & pinion focuser for Schmidt-Cass. telescopes were designed to correct the problem of image shift found in some telescopes. That is, when you turn the focus clockwise and then counterclockwise while viewing with a high power eyepiece, the image may in severe cases, jump right out of the field! Even if you don't have such problems, our R & P saves wear and tear on the delicate focusing mechanism. Our units are carefully machined helical-cut of 100% brass and aluminum. They screw right on where the visual back is. Oil smooth action. l-l/4" O.D.
$49.95

1-1/4" Camera Adapter



The original (we introduced this basic design over 20 year ago) and stll the best quality l-l/4" camera adapter on the market. Precision machined aluminum with chromed brass adapter tube. Will take standard color filters. You can use this unit two ways: use the short tube for prime focus. For extra magnification, add the extender tube and use an eyepiece inside. Works with reflector and refractor type telescopes. You will need a " T " adapter listed below. Price. $34.95 Also available for .96 O.D telescopes $29.95

This is all you need to get started in astrophotography

"T" ADAPTER RINGS

These "rings" connect your camera body to all camera adapters on the market (Schmidt-Cass. type or the unit listed below. For: Nikon, Canon, Minolta, Olympus, Pentax-S and Pentax-K.....**$12.95**

RICH-FIELD ADAPTER



Turn your Celestron or Meade into a fast f/5 system! Perfect for wide-field, deep-sky viewing. Our Visual adapter system consists of (3) parts: a special short T-adapter, our 2 element telecompressor, and a special wide-aperture star diagonal. Works best with our 24mm Konig.(not included) **Price.....$95.95**

Lower Price

OFF-AXIS GUIDER

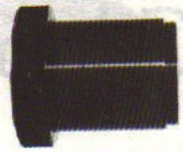


Use these excellent quality off-axis guiders with your Meade or Celestron Schmidt-Cass. telescopes for perfect photographs. Body only or in combination with our exclusive illuminated wireless eyepieces.

Body only...$59.50 With 12.5mm illum. Plossl..$149.95
With 9mm Plossl(adjust reticle)...$169.95

T-ADAPTER

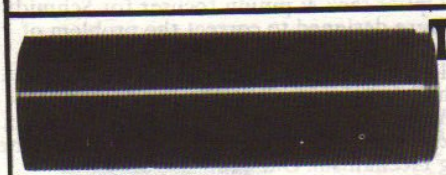
For Schmidt-Cass.



The T-adapter is used for "prime" or first focus photography without the use of an eyepiece. If you are just starting, "master" this item first. You also need a camera "T" ring **$27.95**

TELEXTENDER

For Schmidt-Cass.



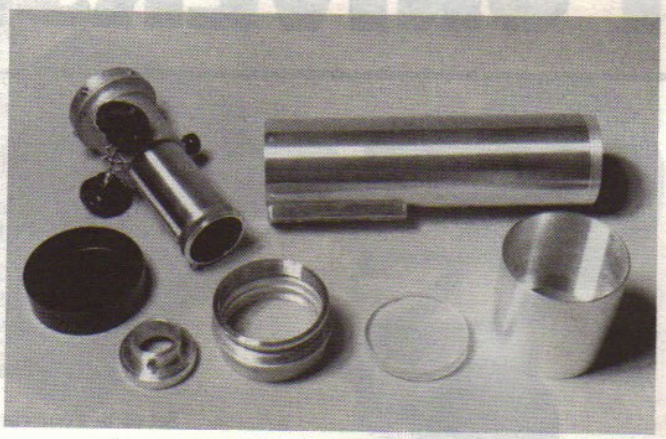
The telextender is used for high magnification photos using an eyepiece between your camera and the scope. You need a camera "T" ring. **$27.95**

TELECOMPRESSOR



Telecompressor - Our improved f/5 telecompressor cuts exposure times! Fully coated. **Price.... $34.95**
Extension tube....$16.95

refractor kits



F / 6.6 Wide Field Kit

This little refractor kit is one of the best kept "secrets" in the telescope industry. Customers often call us after assembling their kits with interesting stories and experiences. How can an air-spaced Fraunhofer doublet in a short focal length be so good? Thes little "gems" are equalling and in some cases exceeding the performance of two and three element refractors costing three and even 4 times as much!

One excited user related how at a star party he setup his little 6.6 next to another expensive refractor. Observers started running back and forth between instruments comparing the view. suddenly the other scope owner refused to let anyone else look through his scope and twentyminuteslater he packed his scope and went home! Well, it was never our intention to embarrass anyone else's equipment. We can state, however, that in 30 years we have never seen a finer 500mm f.l. lens.

Is the kit hard to assemble? Our current "record holder" is a customer from Dallas Texas who was out viewing 8 minutes after he opened the kit box! Remember, the more care you take in assembly, the better the results. The inside of the tube should be sprayed flat black. The outside is so beautifully machined, most people don't want to cover it with paint. The kit comes with our large deluxe 2" refractor focusing mount with 1 1/4" adapter. Diameter of the lens is 80mm and is multi-coated. Rail mount on bottom for camera tripod mounting. Threaded dew cap. Eyepieces or diagonal not supplied. **Kit Price..... $289.95**

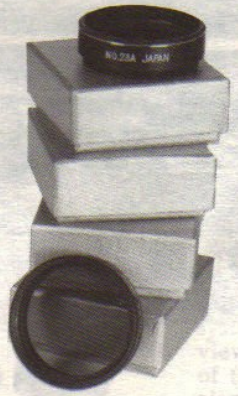
NEW!

F / 5 100mm Wide Field Refractor Kit

This is the second model in our very sucessful refractor kit series and is it a beauty! Big 100mm lens performance at less than 1/3 the cost of other 4" scopes in this performance area. Air-spaced doublet with a 500mm focal length yields fantastic rich-field views of the heaven. Same giant 2" / 1-1/4" focusing mount as supplied on our 80mm kit. Very portable and light weight. The supply of these kits will be limited this year so please enter your order early. **$495.00**

COLOR FILTERS FOR EYEPIECES

BY UNIVERSITY



Colors Available: #25 Red, #80A Blue, #11 Violet, #58 Green, #15 Yellow, #82A light Blue, #58 Green, #21 Orange, and Medium Neutral Density. Price..$11.50 each.

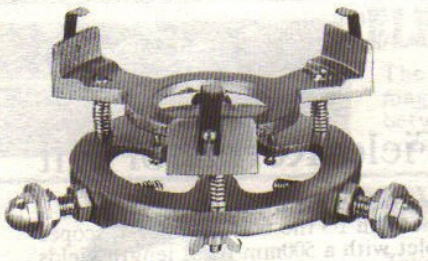
Set of 4- Your choice of colors $39.50

Set of 6- Your choice of colors $59.50

Set of 8- Your choice of colors $74.50

All of our filters are the finest dyed-in-the-mass plane-parellel Hoya optical glass. Anti-reflection coatings keep light loss negligible. This is the same quality filter used by major camera firms. The glass is set in precision machined black anodized aluminum cells double threaded to permit stacking. Fit all standard 1-1/4" oculars as well as our camera adapters.

6" & 8" MIRROR CELLS



6" Cell.....$24.95

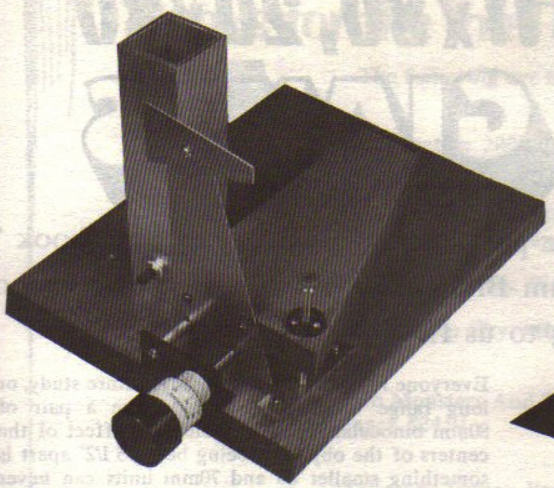
8" Cell.....$29.95

The new Expand-O-Cell is simply the finest mirror cell on the market!

An entirely new concept in mirror cells for reflectors, the Expand-O-Cell's open design lets your mirror cool quickly and reach optical equilibrium. 100% solid aluminum sand castings! The cell is fastened to your tube with massive 3/8-16 threaded stock, not tiny 6-32 or 8-32 screws found on some cells. Mirror carrier is spring loaded with 3 locking screws. Mirror is secured with heavy brass clips. the 6 or 8" unit will fit any tube from 6.75" to 10" I.D.

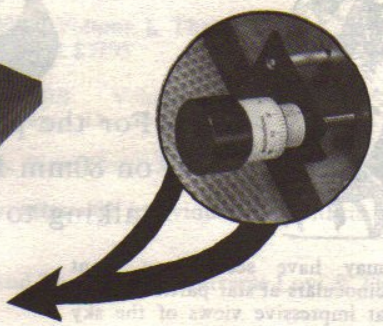
MIR·O·TEST

Use The Foucault Test And See Your Mirror's Surface Magnified Over 100,000 Times!



The Kit

Back again by popular demand! We first introduced this precision Foucault Tester Kit nearly 30 years ago and it helped a generation of mirror makers turn out those 1/10 wave optics. This all new knife-edge tester greatly simplifies the mirror figuring operation. All the brass and aluminum parts are carefully machined and cut for screwdriver assembly. The wooden base and platform are included. You should be able to assemble it easily in a few hours. Our new micrometer assembly is easy to read and offers .001 inch measurements. If you are making a mirror or just want to test the quality of an existing mirror, this tester will meet your most critical requirements. **Price of kit.....$39.95**



The Finished Model

For the advanced mirror maker, astronomy club or university laboratory, we offer our Foucault tester in a completely assembled form. The hardwood components are cabinet quality red oak hand rubbed with Tung oil. Ready to take out of the box and start using. **Price.....$99.95**

Micrometer Dial

For those of you wishing to build your own testers or up date existing equipment, we have the dial and bracket assembly. Accurate to .001". **Price ...$19.95**

CALL TOLL FREE
800 521-2828
9:30 a.m. to 9:30 p.m. Mon.–Sat.

COUNTERWEIGHTS

Yes, we now carry telescope counterweights by the ton!



After seeing what some firms were asking for cast iron counterweights, we descided to offer our own and save you a "ton" of money. Ours are made in the U.S.A. *We will bore to your shaft size at no extra cost!* These tighten on your shaft with 1/4-20 locking bolts. **Sizes: 5 lb.....$19.95, 10 lb.....$29.95, 25 lb.....42.95, 50 lb.....$69.95.** All weights are F.O.B. Ann Arbor. Please call toll free for exact UPS charges to your door.

THE ORIGINAL



UNIVERSITY OPTICS 11x80, 20x80 GIANTS

For the past 25 years, we " wrote the book " on 80mm Binoculars! Don't buy a pair without talking to us first!

Many of you may have seen these giant University 80mm binoculars at star parties, so you know already what impressive views of the sky they offer! What you may not know is that we have been selling large binoculars for more than 27 years and helped introduce many of the advances in binocular quality. When one major supplier of 80mm binoculars was satisfied with offering binoculars with coating on the outside lens surfaces only, we offered products with all air-to-glass surfaces including the prisms fully coated! We were the first to use multi-layered coatings to enhance light transmission. Eight years ago we insisted on the strong, one-piece " B " type body construction, while even to this day, some are still offering the two-piece, screw together " Z " body style. The bottom line is, when you purchase from us, you are getting the best the industry has to offer!



Everyone interested in astronomy, nature study, or long range observation should have a pair of 80mm binoculars. The 3-dimensional effect of the centers of the objective being being 5 1/2" apart is something smaller 60 and 70mm units can never realize. Porro prism design is always superior in resolution to roof prism units you may see elsewhere.

Which model is best for you? The 11x80 with its 7mm exit pupil is the classic " light bucket ". With a 4.5 degree field of view, it remains the unit of choice for pure astronomical work. If you are going to use your binoculars about 50 / 50 between daytime viewing and astronomy, you may enjoy the extra power of the 20X on land objects.

All University binoculars have a bridge support between the objectives, tripod adapter, carrying case, dust caps and straps. The 20X models have 5-element Erfle eyepieces. This yields a 3.5 degree field. Weight of both models is 5 lbs. We provide a certificate of collimation with every pair!

Advances in binocular design are happening very rapidly now. Any binocular you purchase from us will be "state of the art" as far as optics and construction are concerned. All current 11x80 and 20x80 units have fully multi-coated optics and premium BAK-4 prisms. Don't buy a large binocular from any source without talking to us first!

20x80 or 11x80.....$275.00 each.

Changes for current model production run.

Current models now include at no extra cost the following specification modifications: Both the 11X and 20X binoculars have a new luggage style carrying case. This is much easier to use and a more secure way to carry your instrument. The 20X units now have oculars with extra long eye relief. The actual size of the eye lens is about 30% larger than other 20X80s on the market and you don't have to crowd in as close.

Congratulations Bob Victor of the Abrams Planetarium, East Lansing, MI. Bob used University Optics 11x80 binoculars to establish a new moon visual viewing record. The superior light transmission and excellent visual contrast allowed him to accomplish this difficult astronomical task.

Books for the the TELESCOPE MAKER



The following are the latest Willmann Bell editions.

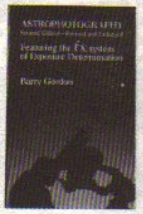
Uranometria 2000.0 Volume I, The Northern Hemisphere 312 pages, hardbound. $39.95

Uranometria 2000.0 Volume 2, The Southern Hemisphere,283 pages, Hardbound $39.95

Bright Star Atlas. Tirion 9x10" 32 pages softbound. $9.95

Sarna Deep Sky Atlas. 102 individual star charts. 8.5 x 11" $29.95

Men Monsters And The Modern Universe Lovi & Tirion. 112 pages. $24.94



Telescope Optics, Evaluation and Design by Rutten and van Venrooij, 374 pages. $24.95

How to Make a Telescope. new 2nd edition by Texereau. 424 pages. A step-by-step to making a reflector. $19.95

Advanced Telescope Making Techniques Volume 1 -Optics. edited by Mackintosh 320 pages...$19.95

Advanced Telescope Making Techniques Volume 2- Mechanical 320 pages ...$19.95

Microcomputer Control of Telescopes- Tureblood & Genet. $19.95

Fundamentals of Celestial Mechanics, J.M.A. Danby. 466 pages. A college level text for those with mathematical background. $19.95



Astrophotography-Barry Gordon. New second edition Should be in every photographer's library. 224pages. $18.95

Astrophotography II- Martinez , 107 photos(some in color) $18.95

Introduction to Observing and Photographing the Solar System- Dobbins, Parker, and Capen. Large 8.5 x 11" format. 215 pages. $19.95

Astronomical Formulae for Calculators. Jean Meeus. 201 pages. $14.95

Planetary Programs and Tables -4000 to + 2800 160 pages $19.95

Astronomical Tables of the Sun Moon & Planets- by Jean Meeus. 400 pages $19.95

All books are postage paid

Excerpts from the Webb Society Quarterly Journal,

(5 firm's 12mm, 12.5mm and 12.4mm oculars tested.) **July 1990**

University Optics Konig-2 (12mm) multi-coated: this ocular gave very good definition and the image was sharp to the edge. The brightness of an object was far above average. This ocular together with the University Optics Plossl gave the brightest images of all the oculars tested. While observing the open star cluster M67, these two oculars consistently showed the faintest stars with both direct and averted vision.

University Optics Plossl (12mm) multi-coated: this ocular gave very good definition, the image being sharp to the edge.... This ocular gave the brightest image of all the oculars tested.....

Often, our customers are our best "salesmen"!

Dear Sirs:

I just wanted to drop you a note to tell you how pleased I am with my recent purchase from you. I bought a 32mm Konig, a 40mm Konig, and an 8x50 Ultimate Finder to add to my 8" Meade reflector. The performance of the eyepiece is truly spectacular, even in comparison to other substantially more expensive eyepieces. The finder is also remarkable, because it has sufficient light grasp to acquire most deep sky objects, and the polaris alignment feature has really improved the tracking ability of the scope.

Best wishes,

H.H.
Orlando, FL.

Dear Dr. Seyfried,

I'd like to inform you the merchandise has arrived in mint condition. All items meet my approval. More than this-I'm really impressed by your eyepieces, especially by the Wide Scan.....it delivers razor-sharp images of a 5 degree field of view-a real "space walk". I think there's no need for my _ _ _ _ _ _ _ _ 55mm Plossl. Increadible is the view through your eyepiece, while used with the 5" Astro-Physics Starfire. Stars are perfect round light dots sparkling over a field of about 2.7 degrees. I sometimes compare and evaluate eyepiece designs for German dealers. I know a little bit about it and I can tell you the Wide Scan eyepiece is one of the very best I've ever looked through, in the 30 to 36mm it is the best... Thanks for your service.

R.K.
Nord Horn, West Germany

Dear Sir,

Just a note about your 11x80 binoculars. Highest praise! With no observing experience and poor recognition of the constellations, I found most of the Messier objects in the first year of their purchase:All globulars but M69, M70, M72, and M73.... All told, in my light-hindered backyard, I saw very impressively 74 of the 110 Messier objects.

J.H.
Houston, PA

Gentlemen:

I received from you this week my new 1-1/4" 32mm Konig eyepiece, less than a week after I placed my order. I want to thank you for your fast service.

The real reason I'm writing, though, is to add my voice to the chorus which sings the praises of your Konigs. The 32mm is truly a mind blower when used in conjunction with my new 10" Odyssey reflector. I'd been using a 4 -1/2" Japanese reflector since I was 13 years old, and decided to treat myself to new optics this year. The combination of your Konig with my new "light bucket" is simply unbeatable. I'm seeing things I never thought I'd be able to see with astounding clarity.....

I must admit I was at first skeptical about ordering a Konig. There is such a heavy advertising blitz aimed at Plossls, and your firm was the only one I could find that even mentioned Konigs. Konigs never showed up on any of the eyepiece comparison charts I saw, but, then again, none of the firms proffering the charts sold Konigs. What really swayed me was the pamphlet " Newtonian Notes ", which recommended Konigs for use with RFTs. (not that I doubted your advertising, but one must be careful these days)

Anyway, as they say, the proof was in the pudding. I could not be happier with my new 32mm eyepiece. True to your advertising, star images are crisp and sharp to the edge of the field, even with an f4.5 instrument. Image brightness is excellent. You certainly do offer an outstanding product, and I can honestly say that it will bring me a refreshing chance to rediscover all the things that I thought I'd been looking at the past 17 years!

I've never written a "fan letter" before, but I felt the need to do so now. Please feel free to quote me or use me as a reference. Again, thanks for your quick service, and I look forward to doing more business with you in the near future.

Very truly yours,

J H. W.
Reston, VA.

Dear Sir,

I wish to thank you for the extremely fast service I received from you when I ordered a pair of 20x80 binoculars. Also the quality of the set is impressive.(The first observing night I found 15 different Messier objects including such "dim" objects as M81 & 82, M101, and incredibly the Owl Neb, though possibly our dark sky helped) At any rate, I am throughly pleased.

Thank you,

H.R.
Gardnerville, NEVADA

NEW!

Just in! ✓ Please check every item carefully!



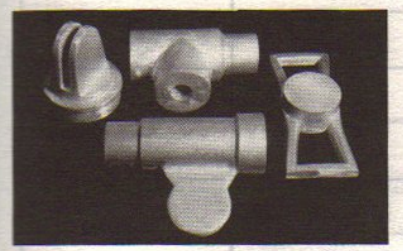
80 mm Collimation Service

Using the only dual barrel military type collimator in North America, we will bring your astronomical binoculars up to spec. Collimation certificate showing before and after measurments. Will service all 80mm model Meade, Swift, Celestron, Orion, and Parks. (No 20x80 Celestron Deluxe models please!) **Cost $20.00 plus $5.95** post and insurance.



Telrad Reflex Sight

Find elusive deep-sky objects quickly with this popular reflex finder. 3 illuminated rings outline the the field of view. Uses two AA Batteries (not supplied). **Price..$39.00**



Castings for German Equatorial Mount.

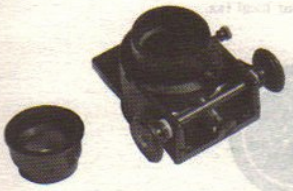
We offer this set of 4 heavy duty sand cast aluminum castings for those of you having a 10" or larger metal working lathe. Designed to allow mounting of up to 1.5" shafting , it should easily hold a 10" f/6 tube assembly. If you have priced completed mounts in this range, you know others are asking $1200 and more. **Price... Set $225.00**



Return of two Classics ! 20mm Erfle & 40mm Kellner.

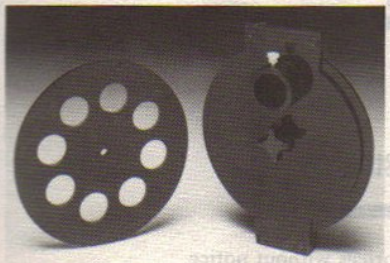
We have had many calls from customers looking for nice quality **20mm Erfles** in 1-1/4" O.D. It seems every company has simply stopped making them. Well, now we have them. 5 -element fully coated with a 65 degree field. Price..**$55.00**

We are also bringing back one of my old favorites, the **40mm Kellner** in l-l/4" O.D. Gives nice low power and you don't feel bad if it gets lost or damaged at a star party. Fully coated. **Price $33.00**



Very Low Profile Focusing mount.

We are now carrying the AstroSystems PhaseIII focuser and it the best quality unit out there! Unique smooth focusing mechanism is far better than other low profile rack and pinions. With optional Ultra low adapter, can go as low as .75" to the tube. In standard form takes 2" eyepieces. Fits any size tube and will fit on flat surfaces. Price of standard 2" unit **$135.00 Ultra-low l-l/4" adapter $25.00**



Color Filter Wheels !

We tried these new Optical Research color filters wheels and they work great! Absolutely a must for serious planet observations. Two models: One holds eight l-l/4" filters and the 2" unit holds 4 48mm color filters. **Prices.. l-l/4" model $ 139.00. The 2" model is $159.00**

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NOTES

NOTES



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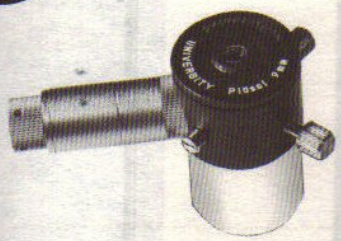
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We reserve the right to make changes in specifications or prices without notice.

New 9mm Plössl Wireless

With Adjustable Reticle Positioning !





Our new high power 9mm Plossl self-contained illuminated reticle is an astrophotographer's dream come true. Two spring-loaded micro-adjusters allow you to *move the reticle where you want it in the field!* Bracket your guide star perfectly. Save hours of tedious work!

The experts told us the ideal reticle should have a double crosshair and two concentric circles. A more complex reticle pattern would mean mass confusion and lost guide stars. We feel this eyepiece has the perfect reticle. We provided a diopter adjustment to focus the reticle perfectly to your eye.

Plossl design gives 50 degree field with excellent eye relief. Variable brightness control powers red LED. *Batteries are supplied.* Nothing more to buy. l-l/4" O.D. **Price..... $129.95**

12.5mm Illuminated Plössl



$99.95

This is the one that started the wireless guiding revolution over three years ago, and this year we are back with a greatly improved model! Our new Plossl design gives over 5 degrees more field of view than Ortho or Kellner designs and much better eye relief! True 4-element design multi-coated. 1-1/4" O.D.

The self-contained red LED has on/off and brightness control. The reticle is the recognized standard for astrophotography, a double crosshair with .25mm central box. Battery (Duracel PX-14 or Equivalent) is supplied.

Read about this remarkable eyepiece in the product review section of the April 1986 issue of Astronomy. You will never go back to gangling wire reticles again!

AMICI DIAGONALS

Our Amici Diagonal Corrects Reversed Images!



Tired of reversed and/or upside down images in your telescope or finder? Our new Amici roof prism helps you find your way in the night sky . Pick up Wil Tirion's new Uranometria 2000.00, his Sky Atlas 2000.0 or Norton's Star Atlas and read the charts directly as you see them in your telescope.

This is our latest astronomical quality Amici prism with full multi-coated optics for excellent light transmission. A thumb-screw holds your eyepiece secure! **Price.. $69.95**



German *new!*

Equatorial

Fully machined kit

This is our latest offering for the telescope owner needing a strong, durable, classic German equatorial mount at a reasonable price. The mount is constructed from heavy sand-cast aluminum components. All parts are fully machined with Oilite thrust bearings pre-set. Shafts are 1-1/2" O.D. The machined post cap fits 4" I.D. pipe.

We have used the term "kit" only in the sense that the castings are not painted and the mount is shipped unassembled. You have to assemble and tighten 5 or 6 screws and nuts. Maximum assembly time shouldn't run over 5 minutes.

We have comfortably mounted up to 10" f/6 reflectors and 6" f/10 refractors using this mount. Similar size and scale mounts on the market usually run $1000 or more. We do not offer clock drives, however, units made by Byers and Optic-Craft will work.

If you are looking for a highly sophisticated unit that will spasmodically jerk around the sky to the humming of stepper motors while attempting to jam a lifetime of astronomical viewing into an hour's worth of arcade-type video entertainment, then this is not the mount for you!

However, if you simply enjoy getting out and puttering around with your telescope, maybe doing a little star-hopping, and simply enjoying the glory of the night sky, this mount will be most satisfactory.

Introductory Price.....$395.95 f.o.b. Ann Arbor MI.

University Optics leads the field in inovative eyepiece design. Now featuring the 32mm Wide Scan

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