

# *Astro - Physics*

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Rockford, Illinois 61107



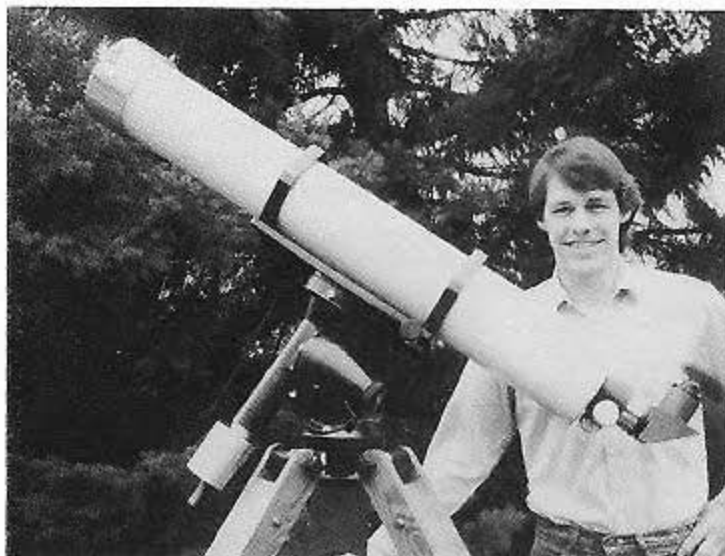
ASTRO-PHYSICS proudly announces a modern Refractor Telescope for serious amateurs. Our new 6 inch F9 Apochromat uses the award winning CHRISTEN TRIPLET design. The objectives are computer optimized for high power as well as wide field photo-visual work. A host of accessories is available to enhance the versatility of this powerful instrument. The result is a limited production telescope with magnificent optical performance, second to none in its class.

## 6 INCH F9 TRIPLET APOCHROMAT REFRACTOR

Based on the CHRISTEN TRIPLET design, our 6 inch Refractor uses three matched optical glasses to combine the colors of the visual spectrum into intense, sharp, concentrated images. Only the highest quality glass, free of striae and imperfection is used in our lenses. The result is a clean optical system with superior resolution, contrast and light gathering power.

The lenses are pitch polished and hand corrected on an interferometer to better than 1/16 wave peak in the yellow-green visual range. Powers up to 600X are practical for lunar/planetary and double star work. Color correction is essentially flat from C to F wavelengths, with the violet g and h secondary spectrum much reduced. Visually, no false color is seen even on the Moon at high powers.

The wide-field performance of this design is truly outstanding. The object glass is completely free of coma, and at F9 will cover a  $2\frac{1}{2} \times 2\frac{1}{2}$  format. Images on color film are crisp and sharp, with no annoying blue halo around bright stars. Wide-field 2 inch oculars will show up to 2 degrees of sky at once. The F9 focal ratio and fully baffled tube causes deep sky objects to stand out in high contrast against velvet black skies. If you are looking for a versatile telescope for visual or photographic work, you will be proud to own this unique and beautiful instrument.



## F18 PHOTO-VISUAL BARLOW AMPLIFIER

This custom made accessory doubles the focal length of the objective for high power photo-visual observations. The 2 element design uses special glasses to preserve the fine color correction of the main objective. The optical elements are hand corrected and precision centered to insure that no aberrations are introduced into the system. The large optics are designed for 2 inch and 1.25 inch oculars, and will cover a 2 inch ( 1 degree ) photographic field.

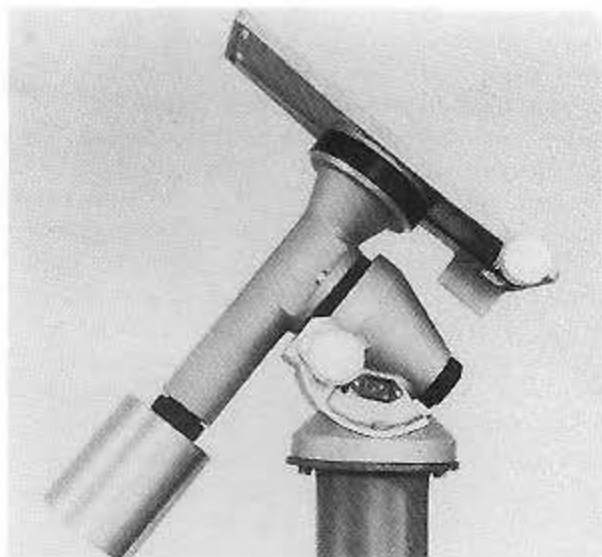
## F6 FLAT FIELD TRIPLET TELECOMPRESSOR

Three elements of special optical glass are used to match the characteristics of the 6 inch objective in this F6 design. The result is a telecompressor with diffraction limited performance and no vignetting over the entire 35mm format. The field is absolutely flat with no coma, astigmatism or distortion. At F6 deep sky objects are recorded in a fraction of the time it takes at F9. This well corrected accessory lens preserves the high contrast and superb color correction of the main objective. A must for the serious Astro-Photographer.

## PRICES

6 INCH F9 OPTICAL TUBE ASSEMBLY, with giant focuser, 1.25 inch adapter .....	1695.00
MATCHING DEWCAP, slides over objective cell .....	35.00
F18 PHOTO-VISUAL BARLOW AMPLIFIER, in 2 inch barrel .....	165.00
F6 FLAT FIELD TRIPLET TELECOMPRESSOR, with T adapter for 35mm cameras .....	165.00
8X50 FINDERSCOPE, with mounting rings .....	65.00
35mm CAMERA ADAPTER, state your camera model .....	39.00
1.25" PRISM DIAGONAL, magnesium fluoride coated .....	28.00
2" MIRROR TYPE DIAGONAL, in precision aluminum housing .....	160.00

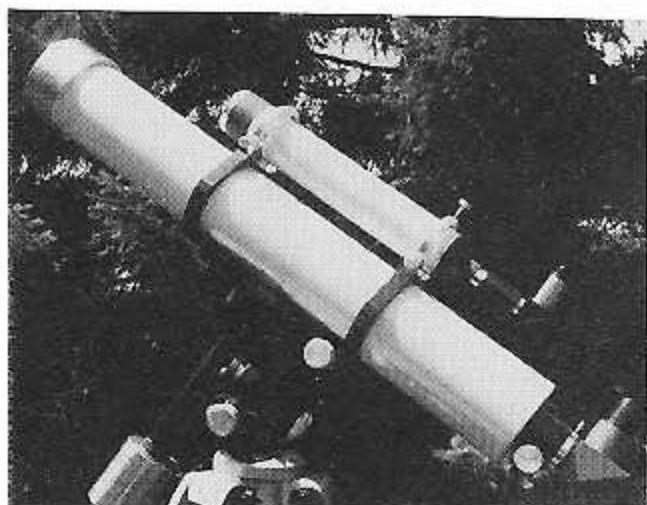
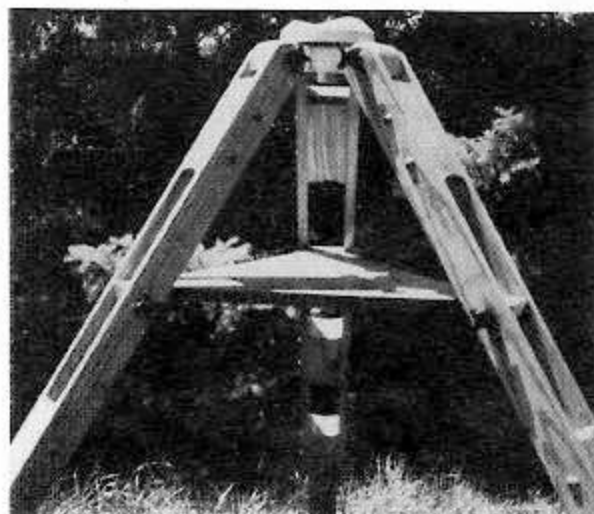
## 6 INCH EQUATORIAL MOUNT



A good mounting is equally as important as the optics in a telescope system. Our mounting features thrust surfaces to transfer the telescope's mass to the tripod, thereby achieving maximum rigidity at minimum weight. Designed for astrophotography and high power visual work, this mount is steady even in gusting winds. Stainless ball bearings are used throughout, and solid stainless shafts guide the R.A. and Dec. axes. The declination features a precision tangent arm slow motion adjustment. The R.A. axis is driven by a synchronous motor and bronze worm for error free tracking. Both axes respond to fingertip pressure with no hint of backlash. Built in clutches can be disengaged for ultra-smooth sweeping, or locked for astrophotography. The entire mount disassembles quickly for easy transport and storage.

## SOLID OAK TRIPOD

This handsome tripod is built for ASTRO-PHYSICS by American craftsmen from solid oak. The hand made legs feature laminated bracing for high stiffness and strength. The tripod is finished with a beautiful protective lacquer. A sturdy shelf provides more stiffness, and will hold all your observing accessories. The shelf removes easily with large hand knobs and the entire tripod collapses for transport and storage.



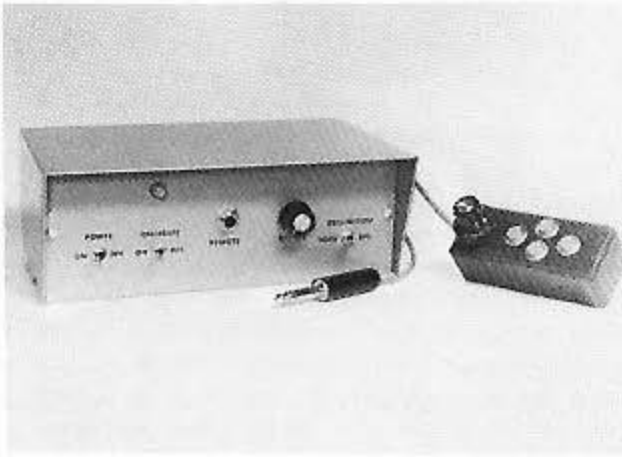
## GUIDING TELESCOPE

Our new guide scopes use the highest quality American made lenses for error free astrophotos. The 3 inch lens shows a clean Airy disc without objectionable color aberrations. A built in 6X barlow increases the effective focal length to 3000mm. Overall length is kept to only 25 inches. Differential tube flexure is absent, assuring pinpoint star images on long exposures. The guide scope comes complete with 12mm double crosshair illuminated ocular and power supply. Large mounting rings allow 5 degrees of motion for acquiring suitable guide stars, a real advantage over off-axis schemes. A 1.25" Prism diagonal is supplied with the guider.

## PRICES

6 INCH EQUATORIAL MOUNT, with worm gear drive and stainless counterweight .....	795.00
SOLID OAK TRIPOD, custom made, with removable shelf .....	475.00
3 INCH GUIDING TELESCOPE, with 6X barlow, diagonal and illuminated reticle ....	375.00

## DUAL AXIS DRIVE CORRECTOR

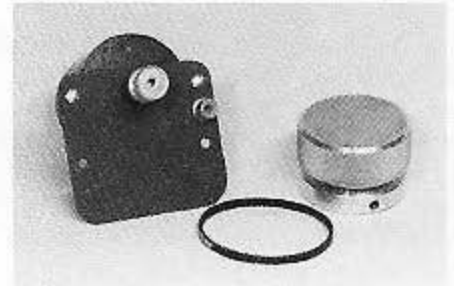


A must for astrophotography, this unit was specially designed for our equatorial mount. Input power can be either 12 volts DC or 115 volts AC house current. Advanced integrated circuit components are used to generate the precise frequencies required for perfect astrophotos. Components are selected to withstand temperature extremes from -50 F to 160 F. The fiberglass printed circuit is treated with a moisture resistant coating which eliminates drift and erratic operation, even in heavy dewing conditions. The remote control features 4 push buttons for full R.A. and DEC. control. A fine adjust potentiometer is provided for

trimming the R.A. frequency, and the front panel light can be used for exact calibration against the power line. The 24 watt output is enough to drive even the largest amateur instrument, yet this unit draws only 1/2 amp when operating our equatorial mounts from a 12 volt battery. The declination output is 12 volts DC for operation with our Declination Drive. All necessary cords are included.

## ELECTRIC DECLINATION DRIVE FOR EQUATORIAL MOUNT

This accessory attaches quickly into pre-drilled holes to allow hands-off guiding in DEC. The fine driving rate matches the R.A. correction rate which makes guiding a breeze. The 12 volt motor plugs into our Dual Axis Drive Corrector, and can also be driven from 9 volt transistor batteries. A built in clutch allows electric and manual operation of the DEC. axis simultaneously. A special non slip belt eliminates the troublesome backlash commonly found in commercial units.



## PRICES

DUAL AXIS DRIVE CORRECTOR, with 12 volt DC and 115 volt AC .....	175.00
FOR FREQUENCIES AND VOLTAGES OTHER THAN ABOVE, add .....	25.00
ELECTRIC DECLINATION DRIVE, with clutch and timing belt .....	68.00

**ORDERING INFORMATION** - When ordering by mail, be sure to include your complete street address. We cannot ship to P.O. box numbers. Illinois residents must include current state sales tax. Domestic orders are shipped UPS. Shipping charges will be collected COD.

**METHOD OF PAYMENT** - A check or money order included with your order is required for prompt handling. CANADIAN ORDERS must be paid in U.S. funds. In case of long delivery times, we require 1/3 down with the balance due prior to shipment. Personal checks require an extra 2 weeks to clear.

**DELIVERY TIMES** - Delivery will vary from item to item. Please inquire for current delivery. Our telescopes are custom made and hand corrected. They take time to produce.