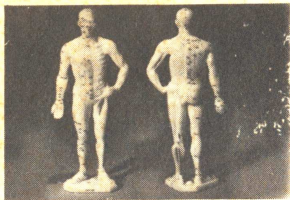


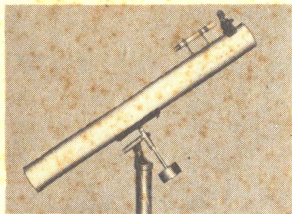
TREMENDOUS VARIETY



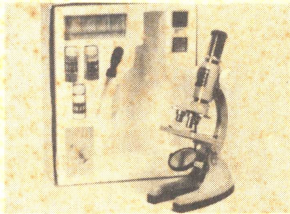
ALPHA WAVE MONITOR #1,635 **\$124.50** ppd



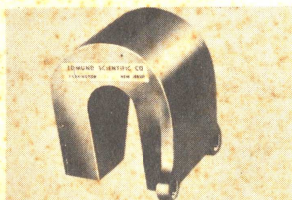
ACUPUNCTURE MODEL #71,778 **\$1200** ppd



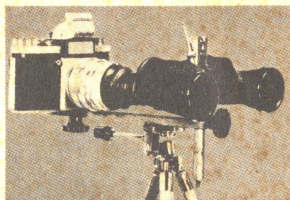
4 1/4" ASTRONOMICAL REFLECTOR TELESCOPE #85,105 **\$1100** fob



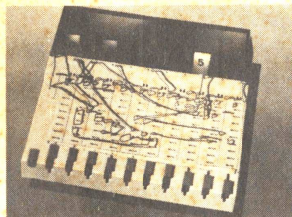
50,100,300X MICROSCOPE #71,811 **\$1495** ppd



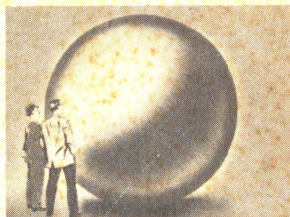
GIANT 5-POUND MAGNET war surplus #70,571 **\$1400** ppd



BINOCULAR-TO-CAMERA HOLDER #70,223 **\$1375** ppd



ELECTRONIC COMPUTER KIT #71,434 **\$3150** ppd



GIANT WEATHER BALLOON #60,568 **\$250** ppd



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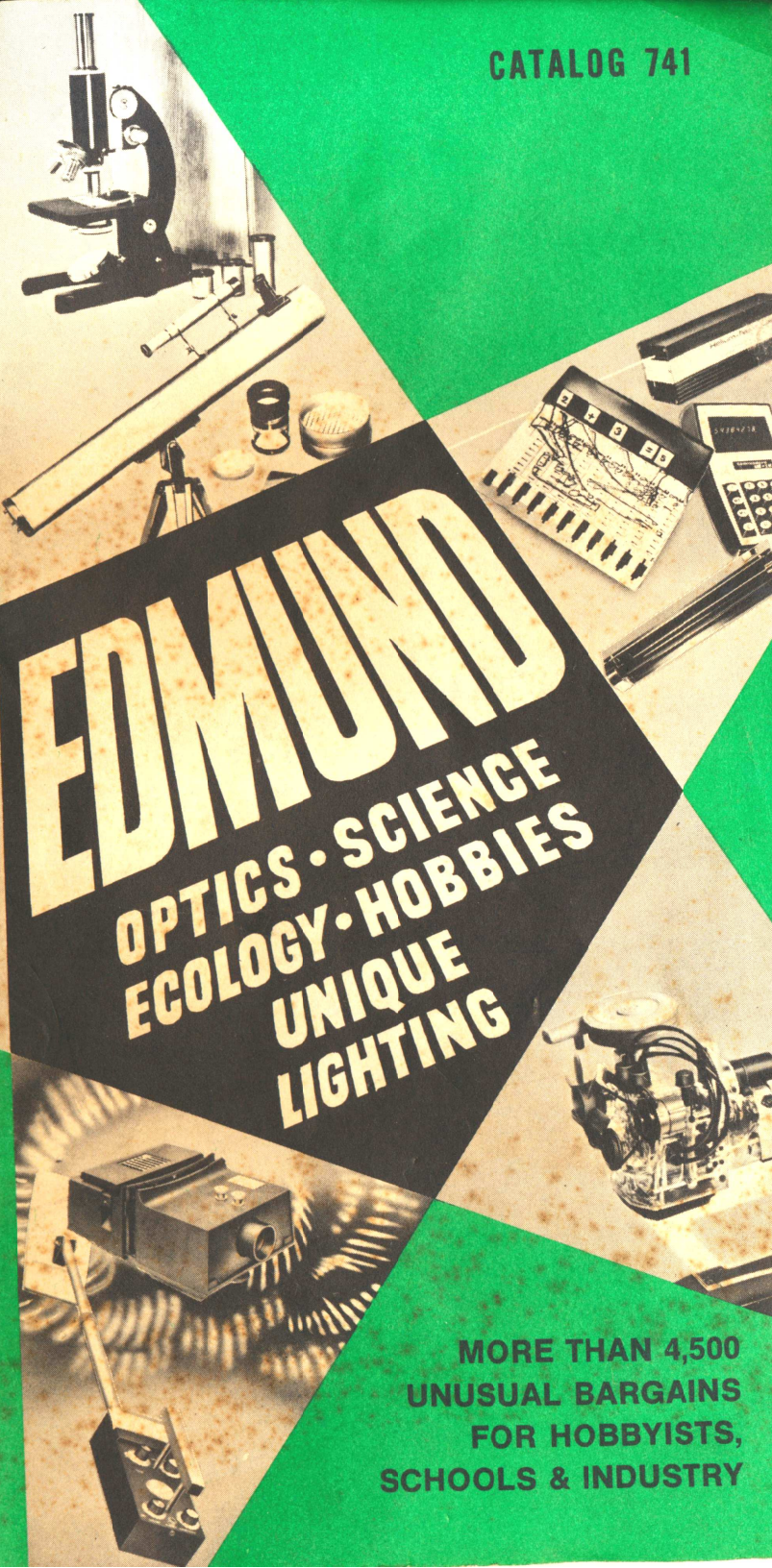
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MORE THAN 4,500
UNUSUAL BARGAINS
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Space Conqueror

3" Reflector 60X To 180X
... Only \$34.95 Ppd.

OUTSTANDING FEATURES

- 3" ALUMINIZED MIRROR (BETTER THAN 1/4 WAVE)
- 3X FINDER TELESCOPE
- 1/2" F.L. EYEPIECE
- BARLOW LENS
- FORK-TYPE EQUATORIAL MOUNT
- LIGHTWEIGHT TUBE
- HARDWOOD TRIPOD
- 1 BOOK, 1 BOOKLET, STAR CHART
- INSTRUCTIONS

EXCELLENT "FIRST TELESCOPE"

This wonderful telescope is the ideal, low-cost introduction to astronomy and the mysteries of space and the stars. With it you can pursue a fascinating hobby. You can show your children the universe that will play such an important part in their future. Enjoy many hours of educational fun too. See Saturn's rings, Jupiter's moons, Mars, craters of the moon; and the other wonders of the heavens. From a construction standpoint, the Space Conqueror embodies so many features that experienced telescope enthusiasts consider essential for viewing the heavens. You'll have all the magnification power you can use. This telescope is sturdily made, easy to use, and provides years of enjoyment.

3" DIAMETER MIRROR the "Heart of Your Telescope"

The mirror is the most important part of any telescope. As such, you should be certain the mirror is of the finest optical quality. We are proud of our 3" aluminized, overcoated mirror—better than 1/4 wave. With a 31" focal length, f/10, it provides true viewing quality, easily aligned by means of three tension adjustment screws. Resolving power enables you to see faint stars separated by as little as 3 seconds of arc. As for light gathering power, this quality mirror enables you to see stars to 10 1/2 magnitude.

TUBE MOUNT AND TRIPOD

The tube is strong, spiral-wound Kraftboard with an attractive white covering. The inside is dull black to prevent glare and reflections.

Fork-type equatorial mount has a 50° polar axis, a feature not found on other telescopes in this price range. It allows an observer to follow a star's movement with only one movement of the telescope . . . easy to keep the star in view. Tripod sturdily constructed of durable hardwood, 36" high.

Also included, "How To Use Your Telescope" (36 page book); Star Finder; "Star Paths," booklet.

ACCESSORY EYEPIECES

- 1/4" F.L. gives 120X with Space Conqueror. 360X with Barlow. **No. 30,195 \$5.95 Ppd.**
- 1" F.L. (31X) Excellent for terrestrial or lunar observation. **No. 30,194 \$4.95 Ppd.**
- 3/4" F.L. (41X) War surplus, mounted, symmetrical eyepiece. Fine for wide field viewing and astro photography. **No. 30,315 \$10.95 Ppd.**



3X FINDER . . . LOCATE STARS QUICKLY

Included is a 3X finder telescope to help you quickly locate stars, planets, etc., for observation.

60X EYEPIECE

You receive a 1/2" focal length 60X Ramsden eyepiece which provides more than enough magnification for viewing the wonders of the sky. In addition a Barlow lens which, when used with the 60X eyepiece, brings power to 180X, . . . about maximum effective magnification for telescopes of this size.

No. 85,050 ... \$34.95 Ppd.

Color-Corrected, 2-Element Barlow Lens

Position of lens element can be changed in mount to vary power; doubles or triples power, provides increased eye relief—46.6mm F. L. Brass mount, gloss black outside, dull black inside. Slides in standard 1 1/4" I.D. eyepiece focusing tubes, takes 1 1/4" standard eyepieces.

No. 40,477 \$9.75 Ppd.

MB

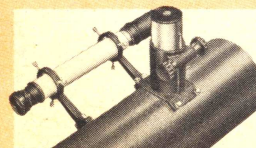
The Apollo Space Explorer

Deluxe 3" Reflector
60X 120X 180X

... Only \$62.50 Ppd.



"Deluxe" Way To Enter Astronomy"



An ideal introduction to astronomy, this Apollo Space Explorer is a super deluxe version of our 3" Space Conqueror & embodies most features experienced telescope enthusiasts desire . . . with better locks, mounts & finder. With this unit you'll have a sturdily made, easy to use telescope with all the magnification power you'll want. Includes features of our Conqueror (pg. 60) . . . PLUS: larger 6X Finder Telescope; rack & pinion focusing; 60X Ramsden eyepiece; 3X adj. Barlow; high impact plastic tube; & hardwood tripod with braces.

3" Dia. Mirror: Fine optical quality 3" aluminized, overcoated precision mirror (F.L. 31", f/10). Fine resolving

power to see stars separated by only 3 sec. of arc. Great light gathering power; see stars to 10 1/2 magnitude.

6X Finder Telescope: Top-quality finder has spiral focusing achromatic objective, metal tube, crossline reticle & easily adj. mounts.

60X Eyepiece: Standard 1/4" O.D. 1/2" F.L. 60X Ramsden eyepiece & metal mtd. 3X adj. Barlow (with eyepiece gives 120 & 180X theoretical limit for 3" dia. mirror).

Rack & Pinion Focusing Mount takes standard 1 1/2" O.D. eyepieces & accessories, gives smooth focusing.

Tube Mount & Tripod. 1/8" thk. plastic tube with black finish. Dead black inside prevents glare & reflections. Positive locking metal fork mount. Cast iron equatorial tripod head has 40° polar axis; follow a star with only 1 telescope movement, it's easy to keep star in view. Sturdy hardwood tripod, 36" high, with metal braces.

Also: "How To Use Your Telescope" (36pp); "Star Paths"; Star Finder; & instr. **No. 80,162 \$62.50 Ppd.**

Heavy Duty 3 Inch Refracting Telescope

- Alta-Azimuth Mount • Permanent Base
- Great High Powered Terrestrial Viewing
- 40X-82X Celestial Viewing
- The Perfect School Telescope

These Scopes get our highest recommendation for schools!

In response to numerous requests over the years we are pleased to offer our famous 3-in. refractor telescope on an ultra-duty alta-azimuth mount. This telescope is ideal for school and educational use, due to its durability and excellent optics. Great for permanent mounting on concrete slabs, in school yards, mountain cabins, shore-line homes, or anywhere. The alta-azimuth mount, shifting the telescope longitudinally for balance, or rotating on its axis, can be quickly adjusted by anyone for viewing ease. The entire tube assembly is ruggedly constructed and easily strapped into place for use, or removed when finished, to prevent theft.

The telescope tube, 48" long, and made of sturdy aluminum with a white enamel finish is pre-drilled to accept our optional finder (#50,121 on pg. 65). Comes equipped with superior optics, 45" focal length, f/15 aperture, air spaced, low reflection coated, achromatic objective. Smooth, all metal rack and pinion eyepiece holder for all American standard 1 1/4" dia. eyepieces. For exceptional terrestrial and major celestial observations we have supplied the telescope with 28mm wide angle and 12.5mm Kellner eyepieces for powers of 40 & 82X. Also incl. are a prism erecting system & a prism erecting system to adapt to any viewing requirement. Tube itself is well supported in heavy cast iron cradle. Resolving power 1.5 sec. of arc.

3" Heavy Duty Alta-Azimuth Refracting Telescope With Portable Mount—incl. Telescope, mount, threaded pipe pedestal with 3 cast iron legs. Shpg. Wt. 150 lb. **No. 85,217 \$299.50 T.C.C.**

3" Heavy Duty Alta-Azimuth Refracting Telescope With Pedestal Base—as above except legs replaced by heavy bolt-down base. Entire mount & scope still remove. Shpg. wt. 125 lb. **No. 85,218 \$329.50 T.C.C.**

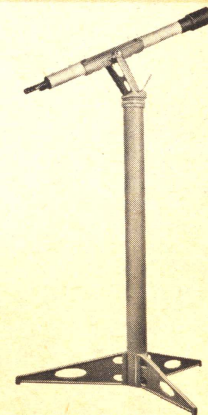
Individual Parts

Heavy Duty Post—4" dia. x 5-ft. pipe; attaches scope to base. Sh. wt. 50 lb. **No. 85,219 \$49.95 T.C.C.**

Alta-Azimuth Mount for Refractor Scopes—heavy duty mount; adapts to any quality rugged scope. Removable for storage. Sh. wt. 20 lb. **No. 85,220 \$89.50 T.C.C.**

Cast Iron Pedestal Legs—Convert permanent type to semi-portable. Sh. wt. 35 lb. **No. 85,221 \$45.95 T.C.C.**

Clamp Base for Telescope Mounting—heavy split bolt-on flange mount for permanent installation of post on your concrete slab. Use with any standard 4 in. dia. pipe (#85,219). Wt. 40 lb. **No. 85,222 \$70.00 Ppd.**



The 8" Reflector

OUR LARGEST AND BEST

Designed For Serious Amateurs,
Colleges, Schools

64X 480X And Higher

\$550.00 Transportation
Charges
Collect

Outstanding Features

- Electric Clock Drive
- Quality annealed parabolic mirror made of Pyrex® Sheet glass, f/8, 64" F.L. Hand-corrected to better than 1/4 wave.
- Three standard 1 1/4" matched orthoscopic eyepieces.
- Deluxe wide-field 6X finder telescope.
- Extra-Heavy-Duty equatorial mount with Teflon bearings.
- Setting Circles

Top Value 8" Reflector Gathers Twice The Light Of A 6" Reflector . . . incl. Electric Clock Drive

This 8" reflector telescope is designed to meet the most exacting requirements of the serious amateur, for use in high school and college astronomy courses, and for the most ambitious studies of galaxies, star clusters, nebula, etc. This telescope offers nearly twice the light gathering power of a 6" scope and has a resolving power of .6 seconds of arc. The top quality parabolic mirror is 8" dia. hand corrected to better than 1/4 wave. It is aluminized and overcoated. Included is a matched set of 4 element, orthoscopic eyepieces (6mm, 12.5mm, and 25mm) precision made and fluoride coated; an achromatic mounted Barlow lens; specially designed electric clock drive; a heavy-duty equatorial mount (No. 85,172 described below) designed to minimize vibration; a deluxe wide-field 6X finder scope, setting circles; 63" long

phenolic tube; 2 booklets; Star Chart, and instructions. Here indeed is a reflecting telescope that will give many years of service. Shpg. wt. 210 lbs.

No. 85,171 \$550.00 Trans. Chgs. Coll.

Telescope, pedestal & mount with setting circles (no clock drive). Shpg. wt. 206 lbs.

No. 85,143 \$495.00 Trans. Chgs. Coll.

Telescope only (no mount, drive, circles or base). Shpg. wt. 28 lbs. **No. 85,144 \$315.00 Trans. Chgs. Coll.**

Rugged Pedestal Base Only Cast iron post (4" I.D.) with three 2-ft. long feet; 30" high. Cap not incl. Wt. 83 lbs. **No. 85,145 \$62.50 Trans. Chgs. Coll.**

Extra-Heavy-Duty Equatorial Mount For Large Telescopes

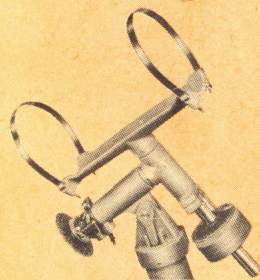
Has clock drive and setting circles designed for 8" telescopes. Clock drive is similar to one described on page 67 except more sturdily mounted. Setting circles are big 5 3/4" dia. Hour circle driven by clock for more accurate tracking. Not a souped-up 6" mount, but one specifically tailored to handle massive 8-inchers. It fits any 6" and even holds 10" reflectors satisfactorily. Takes refractors up to and including the big 5" ones. Mount has 1 1/2" dia. polar and declination shafts with 1" O.D. tip on polar shaft for mounting clock drive. Mount made of cast iron for greater rigidity. Weighs 75 lbs. including counterweights. Large Teflon bearings reduce friction and permit exact balancing. Specially designed fine adjustment for latitude setting; adjustment of polar angle from 0° at Equator to as far north as Devon Island Canada (76°); positive shaft clamping. Mounts on standard 4" pipe. Important: give tube diameter of telescope when ordering. Shpg. wt. 100 lbs.

No. 85,172 \$219.50 Trans. Chgs. Coll.

Mount with setting circles only (no clock drive). Shpg. wt. 95 lbs. **No. 85,134 \$159.50 T.C.C.**



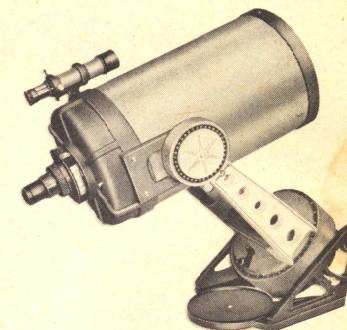
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Celestron® Schmidt-Cassegrain Telescopes

The Optimum Instruments For General Observing;
Astronomy; Astrophotography; Telephotography!

These Celestron® Telescopes are super lightweight, portable, compact! Their short, stubby tubes are more stable at high power than most observatory telescopes many times the size. Each is a complete observatory, includes a fork mount with electric clock drive, is diffraction limited, folds compactly, has attractive, velveteen finish; 2 synchronous timing motors (assure stable, jitter-free performance; 110v, 6w); vernier slow motion controls in both axes (for easy, accurate pointing); 2 large calibrated setting circles; handy carrying case. Optical accessories incl: finder telescope, prism type star diagonal (convert to our Amici type with No. 50,247 on page 66); 2 eyepieces.



Swings down to compact portable unit.

CELESTRON® 5

The 5" clear aperture of this moderate priced model's compound catadioptric 1270mm lens system makes objects appear 188 times brighter than the unaided eye. Tip it on wedge assembly (available separately below) and have finest 5" astronomical telescope. Primary F.L. 10", Cassegrain F.L. 50" f/10. Incl: two 24.5mm barrel dia. eyepieces, (12.5mm gives 100 power and 25mm gives 50X); fork mount. Overall size 7 x 8 x 16", wt. (incl. mount & drive) 12 lb. Shpg. wt. 15 lb.

No. 85,212 \$625.00 T.C.C.

Wedge Assembly For Celestron® 5

Table-top cast aluminum wedge adjustable from 20-50° to tilt the Celestron® 5 up to desired latitude angle. Lightweight, only 4-lbs. for easy portability.

No. 71,797 \$41.25 Ppd.

CELESTRON® 8

The most luxurious model . . . the sharpest 2000mm telephoto lens obtainable. Its stubby tube swings down so overall size is a compact 9 x 12 x 24". The 8" clear aperture makes objects appear over 500 times brighter. The 1/2-second resolution allows diffraction limited performance of 50 & 80X (eyepieces for higher power listed on page 70). Wt. 23-lb. incl: Two standard 1 1/4" eyepieces, (25mm gives 80X and 40mm gives 50X). For crisp daytime terrestrial viewing or telephotography it may be used as an alta-azimuth. It requires our No. 71,523 cast alum. adjustable wedge accessory (not incl.). Shpg. wt. 50 lb. **No. 85,200 \$895.00 T.C.C.**

Wedge Assembly For No. 85,200 Celestron® 8

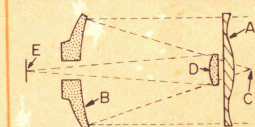
Cast aluminum adjustable wedge from 20-50° for celestial viewing with Celestron® 8; permits simple adjustments for specific altitudes. Necessary for table top uses. Wt. 4.7 lb. **No. 71,528 \$50.00 Ppd.**

Tripod for Celestron® 5 & 8 (requires appropriate wedge). Shpg. wt. 25 lb. **No. 85,225 \$150.00 T.C.C.** Get other accessories on special order from our Sales Engineering Department.

4 1/4" Maksutov Optics Set

Make a compact 16" f/23 telescope with an effective 92" F.L. 4.45" dia. correcting lens of highest quality optical glass. Primary Pyrex® brand glass mirror perforated with 1.062" dia. hole. Long F.L. allows high powers without use of short F.L. eyepieces. This Gregory-Maksutov System is guaranteed to resolve to Dawes limit and meet Raleigh criteria for focal shift. Instr. **No. 1627 \$295.00 Ppd.**

The Schmidt-Cassegrain Optical System is capable of sharper images over a wider flat field than any other compound reflective optical system. There is no other telescope with this optical configuration comparable to the Celestron® Telescopes.



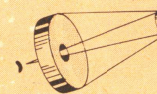
Optical diagram of Celestron Schmidt-Cassegrain lens system: Light enters system through thin aspheric corrector lens (a); is reflected

by a large spherical primary mirror (b) toward the prime focus (c). Light from primary is intercepted by convex secondary mirror (d) and reflected back through hole in primary mirror to Cassegrain focus (e). The effect of folding the optical path back with convex secondary mirror increases effective F. L. by a factor 5 times that of primary alone.

Features	Celestron® 5	Celestron® 8
Light Grasp (Unaided Eye)	188	510
Resolution	0.8 arc. sec.	0.5 arc. sec.
Cassegrain Eff. F.L.	1250mm, 50"	2000mm, 80"
Near Focus	15 ft.	25-ft.
Useful Magnification	31-250X	50-400X
Finder Scope	5X-24mm	6X-30mm
Eyepieces Incl.	25mm-50power 12 1/2mm-100power	40mm-50power 25mm-80power
Setting Circle Dia.		
Rt. Ascension	6 1/2"	8"
Declination	4"	4"
Secondary Dia.	2"	2 3/4"
Weight	12 lb.	23 lb.
Price (T.C.C.)	\$625.00	\$895.00
Model No.	85,212	85,200
Wedge Incl.?	No	No

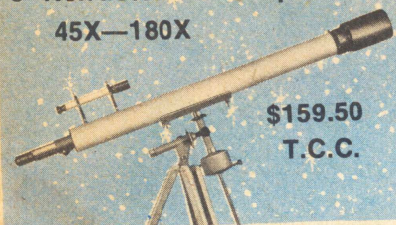
4 1/4" Dall-Kirkham Cassegrainian System

Make a portable, powerful 60" F.L. telescope (f/15) with a tube only 15" long! Completely finished, 1/8 wave, 4 1/4" dia., ellipsoidal primary mirror of Pyrex® brand sheet glass (perforated with 1.062" dia. hole); 1 1/4" dia. spherical secondary mirror; instr. **No. 71,306 \$156.00 Ppd.**



3" Refractor Telescope

45X—180X

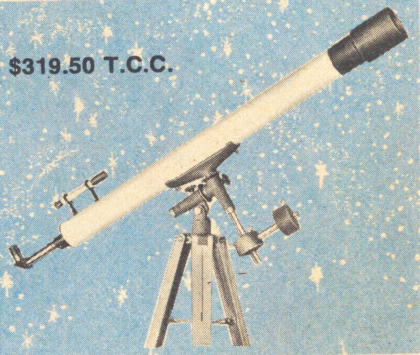


**\$159.50
T.C.C.**

Resolving power 1.5 secs. of arc. Few imported parts, largely American made to precise specs. 3" air-spaced achromatic objectives. Low-reflection coatings on 4 surfaces, 45° F.L., f/15. 1 1/4" eyepieces: (1/2" F.L. 90X; 1" F.L. 45X; mounted Barlow). Latter doubles or triples powers of others, gives 135, 180, 270X. Metal eyepiece holder has smooth rack & pinion focusing adjustment. Equatorial mount w/counterbalance. Polar axis adjustment equator (0°) North to Fairbanks, Alaska (66°). Easily adjusted for terrestrial viewing. Easily read, precision setting circles, 6X finder telescope (with crossline reticle) in double-ring mount & prism star diagonal. 60" hardwood tripod; white enameled alum. tube; approx. 40" overall length; incl. booklet, Star Chart. Shpg. wt. 30-lb. **No. 85,032 \$159.50 T.C.C.**

4" Refractor 60X to 240X and Higher

1.1 seconds of arc resolving power. This massive 4" refractor allows unbelievably steady viewing. Has 2-element, air-spaced achromat, coated on 4 sides increasing transmission and cutting reflection. 60" F.L., f/15. Fixed diaphragm stops in tube reduce stray light. 6X finder with double ring mount; heavy, cast-iron equatorial mount with Teflon bearings provides adjustment of polar angle from Panama (8° above Equator) to Fairbanks, Alaska (66°); precision setting circles; heavy-duty tripod (60" hardwood); three 1 1/4" O.D. eyepieces (provide 60, 120, 240X); mounted Barlow doubles and triples power of eyepieces; eyepiece extension; eyepiece holder with rack & pinion focusing (4-5/8" travel); star diagonal, star chart. White, enameled, alum. tube. Wt. 42 lbs., shpg. wt. 58 lb. **No. 85,038 \$319.50 T.C.C.**



\$319.50 T.C.C.

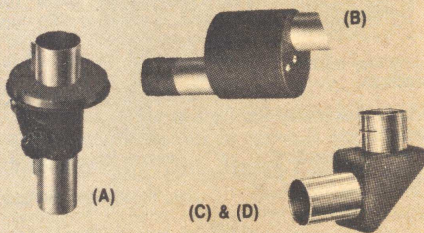
As above but with Electric Clock Drive. Shpg. Wt. 60 lbs. **No. 85,087 \$359.50 T.C.C.**

REFRACTOR TELESCOPE ACCESSORIES

(A) Eyepiece Mounts

Have smooth rack-and-pinion focusing with variable tension adjustment. Take standard 1 1/4 dia. eyepieces and accessories. Black, wrinkle-finished aluminum body; chrome-plated rack and focusing tube with 4-5/8" excursion (view close or distant stars, etc.); 1/4" clear aperture.

No. 50,103 For tubes 2-7/8 I.D. **\$15.95 Ppd.**
No. 50,108 For tubes 3-7/8 I.D. **\$17.95 Ppd.**



(B) Telescope Prism Erecting System

Porro-prism system, similar to binocular erecting system gives erect image viewing. Fits all refractor telescopes with standard 1 1/4" O.D. eyepieces. Optical length of system 8". Clear aperture 1 1/4".

No. 70,078 \$20.50 Ppd.

Useful for right angle viewing on optical instruments. Contains right angle prism, chromeplated tubes, black wrinkle finish aluminum body. 1" clear aperture. Optical path 3-5/8". **No. 70,077 \$15.25 Ppd.**

(D) Amici Prism Erecting System

Right angle viewing with exact image that's correct right-to-left. Takes standard 1 1/4" O.D. eyepieces.

No. 50,247 \$17.95 Ppd.

High-Quality, Low-Cost Refractor Objectives

Building a refractor usually costs more than comparable-power reflectors. These high-quality parts at bargain prices help you cut initial costs.

Achromatic Objective Lenses

Imported; air-spaced, low-reflection coated on all 4 surfaces, mounted in sturdy, black metal cell with threaded retaining rings. Lenses precision ground, color corrected, free of coma & spherical aberrations.



Diameter	F.L.	O.D.	I.D.	No.	Price, Ppd.
3"	45"	3-1/8"	3"	50,162	\$ 76.00
4"	60"	4-1/8"	4"	70,128	159.50
5"	71"	*	5"	*70,164	269.50

* Mounted in cell with 5 1/2" O.D., 6 1/2" flange. With adapter for mounting in 6-7/8" I.D. tubing.

Unmounted, Air-Spaced, Achromatic Objectives

Diameter	Focal Length	Stock No.	Price, Ppd.
3"	45"	30,190	\$ 65.00
4"	60"	50,107	109.50
5"	71"	70,163	219.50

Precision Quality Cemented Achromats . . . 52mm dia.

Use in building telescopes, collimators, erector systems . . . wherever a medium to long focus, entered, coated, color corrected lens is necessary. \$13.70 Ppd. ea.

254mm F.L.	No. 41,267	762mm F.L.	No. 41,270
381mm F.L.	No. 41,268	1016mm F.L.	No. 41,271

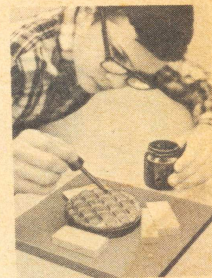
Low-Cost 50" F.L. Achromatic Lens

Gives 100X, using a 1/2" F.L. eyepiece. 2" dia., low-reflection coated, air-spaced. **No. 30,187 \$13.50 Ppd.**



MAKING YOUR OWN TELESCOPE

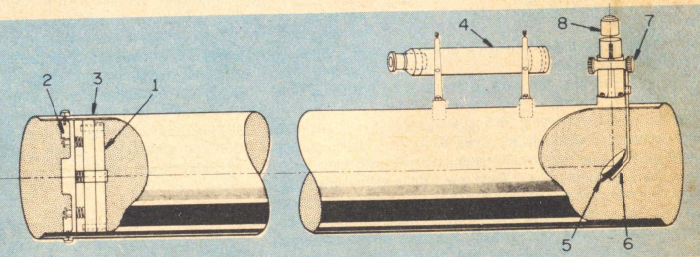
It's quite practical to make your own reflector telescope either by using already finished parts or by grinding and polishing your own mirror. With reasonable care, you can make one as good as many commercial telescopes. For instance, a good refractor with a 4 1/4" objective lens costs about \$265.00. You can buy all the optical parts to make a 4 1/4" reflector telescope for about \$30.00. Tubes and metal parts can be bought or made depending on your time and ability.



THOUSANDS HAVE FOUND IT EASY

The number of amateur telescope makers has been steadily growing in the U.S.A. Many telescopes have been built by people with no previous experience. Building your own telescope is fun and economical too. You can get started today by browsing through this catalog and choosing the kit or parts you need.

Guide for Building Your Own Reflector Telescope



1. Objective Mirror

This is the heart of your reflector telescope, so you will want to choose it carefully. Determine diameter of mirror you want (3, 4 1/4, 6" etc.) Most amateurs make a 6" diameter mirror, a few start with an 8". For mirror grinding kits & blanks, see page 68; finished mirrors & optical kits, see page 69.

2. Mirror Mount

Should be a rigid support, yet easily adjustable. You can make your own of wood or metal, or purchase one from our fine selection listed on page 69.

3. Telescope Tube

It can be of cardboard, wood, aluminum, etc. It should be painted black or "flocked" on inside to cut bounced light to a minimum, and should have inside diameter larger than your mirror. For example:

Mirror Size	Tubing Inside Dia.	Mirror Size	Tubing Inside Dia.
3"	3-7/16"	6"	6-7/8"
4 1/4"	4-7/8"	8"	9"

See our fine selection of tubing on page 72.

4. Finder Telescope

Use a 3X to 8X finder to locate the object to be observed with your high-powered telescope. We have many fine-quality, inexpensive, war surplus lenses to make one. Or, you can buy one complete. See page 73.

5. Diagonal Mirror or Prism

Directs image light rays from objective mirror into the eyepiece. It should be optically flat, aluminized, and overcoated. Here, as with the objective mirror, the better ones are polished to 1/4 or 1/8 wave accuracy. They are easier to buy than make. See page 69.

6. Diagonal Mirror or Prism Holder

We have inexpensive holders and a fine quality, adjustable holder adaptable to 5" to 9" I.D. tubes. See page 69.

7. Eyepiece Focusing Holder

This may be a simple sliding type or a rack and pinion focusing mount. See page 71.

8. Eyepieces . . . They Magnify The Image

Usually eyepieces consist of two or more mounted lenses. A holder (draw tube or rack & pinion) focuses the eyepiece on the image. Quality is determined by design (Orthoscopic, Kellner, etc.), focal length (28mm, 19mm, etc.), and apparent field of view (50°, 40°, etc.). See pages 70-72 for our fine selection.

9. Tripod and Mount (Not Illustrated)

You can make either or both of these. We list tripods and a wide selection of mounts (equatorial . . . simple or complete), pages 74-75.

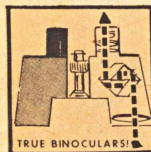
10. Instruction Books

Four of the best are by Thompson, Texereau, Ingalls, and Brown. You'll find them on page 77.

Suggested Parts Lists

PART	8" Reflector	6" Reflector	4 1/4" Reflector	3" Reflector
Finished Mirror or Kit	85,069 or 70,005	5002; 71,026 or 70,004	50,051 or 70,003	50,082
Mirror Mount	70,072	50,117	50,079	50,109
Tube (not drilled or painted)	83,139 or 85,146	85,008 or 85,014	85,013 or 80,038	80,056
Finder Telescope	70,175	50,080 or 50,121	50,121	60,363
Diagonal Mirror	30,258 or 30,261	30,188; 30,205 or 30,258	30,260 or 60,086	30,259 or 60,087
Diagonal Holder	50,025	50,025 or 60,049	60,035	60,035
Eyepiece Holder	50,077	50,077 or 60,067	50,077 or 60,067	60,067
Mount & Pedestal	85,134 & 85,145	85,111 or 85,108	85,112 or 85,109	N. A.

Choose your eyepieces and accessories from our wide selection listed on the following pages. "Edmund has the Accessories to Improve Your Present Telescope Too."



Facts About Binoculars

Be sure to get a true prism binocular . . . don't be fooled by field glasses (imitation binoculars). Edmund sells only true binoculars!
Binocular Markings . . . 6X30, 7X50, etc. The first figure refers to power, a magnification of 6X, 7X, etc. The second figure is the mm dia. of each objective lens.
Relative Light Efficiency (R.L.E.) is the brightness of the image you see through a binocular. The higher this

Edmund's Famous American-Made
 6 X 30 Binoculars . . . The last of their kind!

Big Savings!



- Priced 60-75% below other American ones!
- Coated Optics
- Individual Focus

We've already run out of parts for our American 7 X 50's . . . only 6 X 30's are left. Take advantage of these top-quality, low-priced binoculars that compare with \$200 American makes . . . while they last! Field of view: 445 ft. @ 1,000 yd.; R.L.E. 37; 5mm exit pupil. Wt. 30 oz. Case & straps incl. **No. 963 \$65.00 Ppd.**

Accessories For American-Made Binoculars

Eye-piece Caps. Pkg. of 2. **\$1.00 Ppd. Each**
 6X30's **No. P-21,002** 7X50's **No. P-22,005**
Polarizing Attachment. Reduce glare, see more clearly over water, from airplanes or viewing bright scenes. **6X30 No. 40,532 \$3.75 Ppd.** **7X50 No. 20,000 \$3.00 Ppd.**
Tripod Mount. Helps eliminate "hand held" vibrations that make field of view unsteady. Accepts binocular shafts up to 5/8" dia. and will fit any standard photographic tripod head 4-3/4 x 3/4 x 1". Black anodized aluminum. **No. 50,362 \$3.75 Ppd.**

High Quality 7X50 Binoculars . . . Great At Night



Finest Japanese binoculars available at the best price! Larger than average exit pupils (7.14mm), high R.L.E. (84.2), 50mm objective lenses for razor-sharp images in minimal light. Lenses & prisms of Barium Crown Glass. Air-to-glass surfaces have hard amber coating to reduce reflections & glare to min. Ultraviolet inhibitor coating on objectives gives squint-free, sunsafe viewing. Slotted prisms prevent diffusion. Seamless monobloc bodies. Convertible eyecups & cases.
(A) All-Weather, Waterproof Binocular . . . exceeds gov't specs. Outstanding in unfavorable conditions. Individual focus. Field of view: 383 ft.; focuses to 21 ft. Ht. 7.3". Wt. 52.2 oz. **No. 1553 \$199.00 Ppd.**
(B) Center-Focus Binocular (not waterproof) . . . ideal for sportsmen. Easily focuses in on sharp detail at dawn, dusk & in moonlight when ordinary instruments deliver a shadowy blur. Field of view: 376 ft.; focuses to 15 ft. Ht. 6.6". Wt. 38 oz. **No. 1554 \$124.00 Ppd.**

"Peterson's Field Guide To The Birds" Covers eastern land & water birds. 1,000 illus. (500 color). 4 1/2 x 7-1/8"; 230 pp; prpbk. **No. 9429 \$3.95 Ppd.**

figure is (37, 75, etc.) the brighter the image.

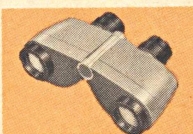
Optical Alignment. All binoculars we make and supply are correctly adjusted and calibrated before leaving here . . . so you're all ready to go!

How to Select your Binoculars. How will you use them? The 6X30 is popular for sports events. Compact and comparatively lightweight, it can easily be carried all day. 7X35's, a good all-around size for sports, bird watching, etc. 7X50's, though larger & heavier, have a R. L. E. of 75 & are great for low light situations.

ZOOM

From 7X to 17X Instantly

Literally five different-power binoculars in one rugged, precision instrument with big 40mm objectives. Field of view at 1,000 yds. . . 288 ft. at 7X; 192 ft. at 17X. Amber coated optics. Popular, center-focus American type. Adjustable right eyepiece. Extra fast, extra smooth, fingertip control lets you change from power to power instantly. Wt. only 2.6 lb. Made in Japan. Carrying case, straps, and lens caps incl. **No. 1545 \$79.50 Ppd.**



Orange 8 X 30 Binoculars

All-purpose fun binocular for rough & tumble use . . . in sun & rain! Individual thumb focus for sharp, clear picture. 8X with 30mm light gathering lens; field at 1000 yd.: 394 ft.

Safety orange fiberglass body . . . stronger than steel yet weighs only 12 oz.! Ht. 4"; wth. 6 1/2". Roll-down rubber eye-cups; shockproof lens shields; coated optics; neck strap & "mini" carrier. **No. 1552 \$31.50 Ppd.**

Stedi-Eye . . . The 12X telescope that won't shake!

Amazing high-power telescope opens a new world of clear, long distance viewing . . . even when in motion. A built-in optical stabilizer compensates for hand tremor. Great for close-up viewing, even in motion on boats, buses, etc. Simply aim at target, focus eyepiece & enjoy clear, jitter-free view. Field of view: 229 ft. @ 1000 yd.; objective dia.: 47mm; wt.: 36 oz. 9 1/2 x 5 x 3 3/4". Watertight alum. body. Case & instr. 1-yr. mfr. warranty. **No. 71,792 \$150.50 Ppd.**

Astronomical Telescopes, see pages 59-66.

Monoculars

Each has case & caps.

7 X 50 With Tripod Socket. Fine-quality; imported; coated optics. Fits any photo tripod. 375 ft. field of view at 1,000 yards. R.L.E.—75; 7mm exit pupil. Wt. 16 oz.

20 X 50. Has coated optics, prism erecting system, 157' field of view at 1,000 yards. 2.5mm exit pupil. 9" long, weighs only 12 oz. High power, very portable. Imported. **No. 70,639 \$30.00 Ppd.**

10 X 20 Pocket Monocular. About 3" long! A high-power, prism-erecting monocular with coated optics. **No. 50,152 \$30.25 Ppd.**



No. 70,639 \$30.00 Ppd.

No. 50,152 \$30.25 Ppd.

No. 70,126 \$18.75 Ppd.

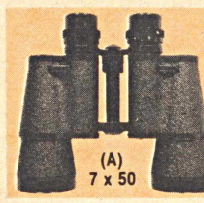
MB

IMPORTED QUALITY BINOCULARS

Edmund Inspected and Collimated

Fine-quality imported binoculars, inspected and collimated by Edmund Scientific Co. All have achromatically corrected oculars and objectives. Oculars, prisms, and objectives are coated. All include case with straps.

OUR MOST POPULAR SIZE!



(A) 7 X 50
No. 1525 \$44.50 Ppd.

(A) 7 X 50. Excellent for use under poor lighting conditions. Exit pupil matches the maximum opening of the human eye. Zeiss type. See specification table.

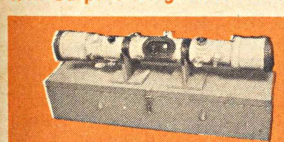
Center focus

SPECIFICATION TABLE

Item	Field of View at 1,000 Yds	R.L.E.	Approx. Exit Pupil	Weight
(A)	7X50 372 ft.	75	7mm	35 oz.
(B)	6X30 393 ft.	37	5mm	18 oz.
(C)	7X35 420 ft.	37	5mm	21 oz.
(D)	20X50 157 ft.	9.7	2.5mm	36 oz.
(E)	20X70 180 ft.	18.4	3.5mm	50 oz.
(F)	7X35 578 ft.	32	5mm	28 oz.
(G)	7X50 530 ft.	62	7mm	42 oz.

RANGEFINDERS

War-Surplus Bargain! . . . 1 Meter Rangefinder



Cost Navy Approx. \$15,000.00
 Our Price \$450
 Ranges from 100-10,000 Yards
 Accurate to 12 arc-seconds

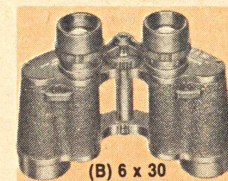
Optics and mount alone are worth the price. This Mark 57, Mod O, 1-meter Erect Image Coincidence Rangefinder is in excellent condition. Use for long range surveying, laying out golf courses, nautical formation alignment. 51" long x 7" dia. rangefinder has yellow, dark neutral, polarizing, and clear ray filters (glass); non-magnetic construction; 2 bearing mounting surfaces (1-1/8 x 5/8" O.D. and 1-1/8 x 5/2" O.D.); padded buffers; storage box; instr. Main optical system incl. wedge windows, penta prisms, correction wedge, compensator wedges, objectives, astigmatizers, coincidence prisms, ray-filters, sealing glass, eyepieces. Other systems: correction scale reading, range scale reading, and internal adjuster and calibrator. Approx. 200 lb. fabulous precision optical instrument now a surplus bargain. **No. 85,208 \$450.00 T.C.C.**

Bargain! Coincidence-Type Swiss Rangefinder

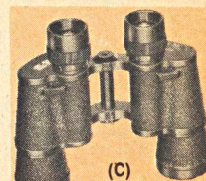
Orig. Cost \$1250. Hand-held; only 7 lb.; fast working; measures 100-2000 ft. by direct viewing. Accuracy: +0.2 ft. @ 100 ft. 6X; 24-7/16" lg. Metal case. Sh. wt. 13 lb.



No. 85,213 \$450.00 T.C.C.
80cm, Azimuth-Type. Range: 450-1000 yd. 36" long. Case; tripod; & filters incl. **No. 85,214 \$200.00 Ppd.**



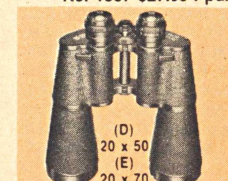
(B) 6 x 30



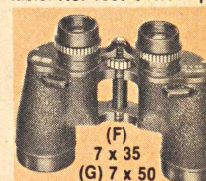
(C) 7 x 35

(B) 6 X 30. Recommended for hunting, yachting, nature study, etc. Zeiss type, center focus. See specification table. **No. 1537 \$27.00 Ppd.**

(C) 7 X 35. For all around use. Especially good for sportsmen, travellers, bird study or race track use. Center focus. See spec. table. **No. 1509 \$45.00 Ppd.**



(D) 20 x 50
(E) 20 x 70



(F) 7 x 35
(G) 7 x 50

(D) 20 X 50 & (E) 20 X 70. High-power Zeiss type with center focus and extra-large light-gathering objectives. Ideal in flat, open areas & for long range viewing. Use with tripod. See specification table.

(D) No. 1538 \$44.50 Ppd.
(E) No. 1540 \$89.75 Ppd.

(F) 7 X 35. Wide Angle. See over 50% more at 1,000 yards than with ordinary 7 X 35. Center focus. Featherweight magnesium body. **No. 1532 \$53.50 Ppd.**

(G) 7 X 50. Wide Angle. See almost 40% more. Center focus. Dust caps incl. **No. 1542 \$75.00 Ppd.**

Field Rangefinder (From 8 to 100 Feet)



Extensively used in the telephone, power and utility, photographic, mapping, underwriting and insurance, contracting, surveying, home repairs, industries. It is based on the triangulation principle. Look through the eyepiece at a distant object and adjust the calibrated dial until the white image is superimposed on the gold one. Distance to the object is then read on the dial. For distances from 8 to 100 feet; accurate to 2%. Incl. leather carrying case, neck cord and instructions. 8 1/4" long. Wt. 12-oz. incl. case.

Direct vision model **No. 50,137 \$42.50 Ppd.**

Erecting Prism Model for overhead viewing of telephone and power wires. **No. 50,138 \$62.95 Ppd.**

New Optical Tape Measure, see page 00.

Portable Rangefinder

Accurate, compact, 1 scale interchangeable pre-computed for direct readings up to 2 miles. Great distance finder & translator. In seconds get an exact fix! 6 x 18 monocular detaches. Only 22 oz.; weatherproof. 210 ft. field of view @ 500 yd. Less than 1% error @ 100 yd. 1 1/2 x 11".



No. 71,648 \$39.00 Ppd.

Carry Case & "in use" holster. **No. 71,649 \$7.75 Ppd.**

