CATALOG

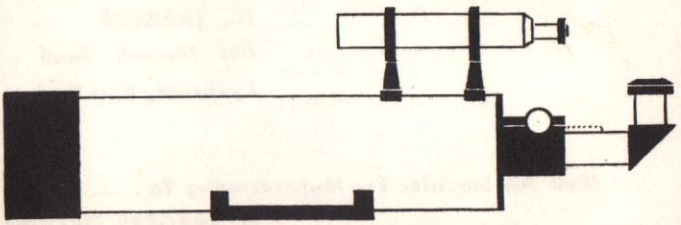
A069

A. JAEGERS OPTICS

- TELESCOPES
- MIRRORS
- LENSES
- EYEPIECES
- PRISMS
- BINOCULARS



Thousands of Optical Bargains



A. JAEGERS OPTICS

The Glass House

691 MERRICK ROAD

LYNBROOK, NEW YORK

LYNBROOK 9 - 3167

TERMS AND CONDITIONS OF SALE

WE PREPAY POSTAGE on all items listed in this catalog to any place in The United States, Canada and Mexico with the exception of those items indicated F. O. B. Lynbrook, New York. C. O. D. orders you pay the postage. No C. O. D. orders will be accepted from Canada and Mexico.

FOREIGN ORDERS - To avoid possible delays, it is advisable to write before sending your remittance, and request an estimate on your order which will include handling, brokerage fees and shipping charges. All merchandise is sold F. O. B. Lynbrook, New York. Minimum order $25.00. Any order for less will have to be returned to the sender unfilled. All orders must be written in English.

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SATISFACTION GUARANTEED on all merchandise. Any merchandise not as specified may be returned for refund within a 30 day period.

ALL ITEMS are offered subject to prior sale, or our ability to secure replacements, because many of them are war surplus and are sold at a fraction of their original cost.

SHIPMENTS are made on the same day the order is received whenever possible.

WE REGRET that we do not have a staff available to answer ENGINEERING AND RESEARCH problems. It is impossible to answer all inquiries, but we try. The technical books for sale featured in this catalog will answer many of your questions.

Mail All Orders For Catalog Items To

A. JAEGERS
691 Merrick Road
Lynbrook, New York.

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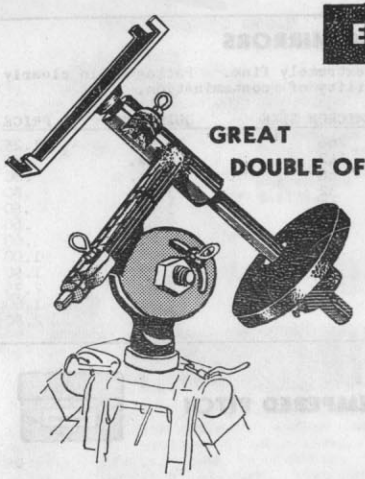
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The Glass House

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EQUATORIAL MOUNT and TRIPOD



GREAT DOUBLE OFFER



TO ACCOMMODATE

4-1/8" OR SMALLER REFRACTORS

4-1/4" OR SMALLER REFLECTORS

CAT.# 2083

$27.50

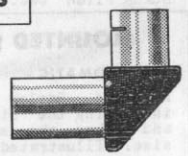
Designed to help you explore the heavens with the greatest of ease. Direct polar axis to the north star, determine your elevation and lock into place. Adjustable declination shaft and counterweight. Constructed of cast aluminum and finished in black. The tripod is war surplus, one of the sturdiest and portable ever built. There is nothing flimsey about this baby. Cost our government $150.00 and worth it. Made of prime oak and bronze fittings, 3 adjustable locking legs with steel shods. Extended 60", closed 36". Shipping weight of Equatorial Mount and Tripod 13 lbs. Tremendous saving. Buy as a combination offer - EQUATORIAL MOUNT AND TRIPOD - and SAVE MONEY!

Cat. #2128 EQUATORIAL MOUNT $17.50 postpaid Cat. #2131 TRIPOD $15.00 postpaid

Cat. #2083 Combination EQUATORIAL MOUNT and TRIPOD $27.50 F. O. B. LYNBROOK, NEW YORK

STAR DIAGONALS

HOLDS 1-1/4" EYEPIECES



Guaranteed to make viewing the heavens with a refractor telescope 100% easier for the observer. Stop needless crouching forever. Choose the STAR DIAGONAL that best suits your requirements. Made to accommodate standard 1¼" eyepieces. Horizontal tube fits into our rack & pinion eyepiece mounts Cat. #1494, #1495 and #1496. Chromium tubes and cast aluminum housing in black crackle paint finish.

AMICI STAR DIAGONAL WITH ERECT IMAGE

For Comfortable viewing of terrestrial or astronomical objects. The amici prism affords an erect image.

Cat. #2095 $12.00 postpaid

RIGHT ANGLE PRISM STAR DIAGONAL

Contains a high quality aluminized right angle prism, wide field. Practical for astronomical use.

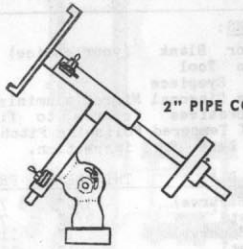
Cat. #2096 $12.00 postpaid

MIRROR STAR DIAGONAL

Star Diagonal houses an excellent first surface mirror, flat within 1/4 of a wave. Important accessory for refractor telescopes.

Cat. #2097 $12.00 postpaid

EQUATORIAL MOUNT & ADAPTER

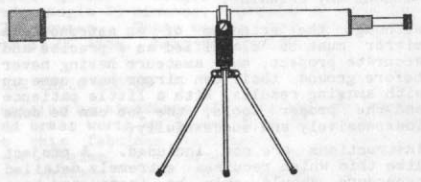


2" PIPE COUPLING ADAPTER

Without legs, to be used if you should desire a permanent stand. Adapter will fit over 2" pipe that is set into ground like a stake. Same Equatorial Mount as #2083. Weight is 4½ pounds.

Cat. #2084 $17.50 postpaid

30 POWER TELESCOPE



Imported 30X Scope with color-corrected 40mm coated objective. Built-in lens erecting system. Field of view 59' at 1000 yards. Length 24" closed, 26½" open, 11½" high with tripod. Weight is 1½ pounds.

Cat. #1296 $10.75 postpaid

ABRASIVES FOR GRINDING MIRRORS

A practical range of abrasives from extra coarse to extremely fine. Packaged in clearly labeled pry-top containers to eliminate any possibility of contamination.

CAT. #	DESCRIPTION	APPROX MICRON SIZE	QUANTITY	PRICE
2061	#80 Compound - Extra Coarse	266	16 oz.	$1.25
2062	#120 Compound - Coarse	142	6 oz.	.80
2063	#220 Compound - Medium Coarse	66	4 oz.	.80
2064	#320 Compound - Medium	32	3 oz.	.80
2065	#400 Compound - Medium Fine	23	3 oz.	.80
2066	#600 Compound - Fine	8	2 oz.	.60
2067	#800 Compound - Extra Fine	5	2 oz.	.60
2068	Red Rouge		8 oz.	1.00
2069	Cerium Oxide		4 oz.	1.50
2070	Cerium Oxide		8 oz.	2.75
2071	Barnsite		4 oz.	1.60
2072	Barnsite		8 oz.	2.80

ASTRONOMICAL MIRROR GRINDING KITS



●● EXTRA SPECIAL! ●●

Now you can save many tedious hours of grinding time. Tool and blank of Catalog #2053 and #2054 have a generated f/8 curve. Take advantage of this extra special offer at no additional cost.

EACH KIT CONTAINS:

Pyrex Mirror Blank (your choice)
Plate Glass Tool
Lenses for Eyepiece
1st. Surface Diagonal Mirror(aluminized)
Assorted Abrasives (coarse to fine)
Container of Tempered Polishing Pitch
Magnifying Lens for inspection.

CAT #	MIRROR DIA.	THICKNESS	PRICE
2053	4¼" (f/8 curve)	3/4"	$ 7.50
2093	4¼" (flat)	3/4"	7.50
2054	6" (f/8 curve)	1"	11.95
2094	6" (flat)	1"	11.95
2055	8" (flat)	1-3/8"	19.50
2056	10" (flat)	1-3/4"	* 30.75
2057	12" (flat)	2-1/8"	* 54.75

* Prices marked with asterisk are shipped Express Collect F. O. B. Lynbrook, New York.

NOTE: For those who desire a curve to their own specifications, the standard flat blanks are offered as received from the factory, without any grinding.

Although the grinding of an astronomical mirror must be classified as a precise and accurate project, many amateurs having never before ground their own mirror have come up with amazing results. With a little patience and the proper tools, the job can be done inexpensively and successfully.

Instructions are not included. A project like this which recuires extremely detailed procedure should only be instructed by a completely authoritative source. May we recommend "Making your own Telescope" by Allyn J. Thompson and "Amateur Telescope Making", Book 1 by Albert C. Ingalls. (See our book section). Write Mechanics Illustrated for complete plans for 6" Reflector, Plan # 6 - $2.00.

TEMPERED PITCH



Used in making the pitch lap. This is the same tempered pitch administered in our polishing shop. It is not required that you add beeswax or rosin to tempered pitch. Packaged in half pound containers.

Cat. #2058 half pound $ .50 postpaid

PLAIN ROSIN & SOFT PITCH

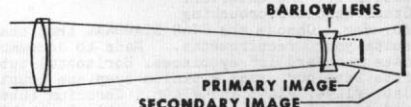
For those who wish to make their own mixture, we offer the following in half pound containers.

PLAIN ROSIN	Cat. #2059 half pound	$ .50 ppd.
SOFT PITCH	Cat. #2060 half pound	.50 ppd.
BLACK PITCH	Cat. #2184 half pound	.50 ppd.

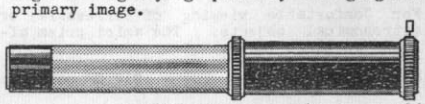
MOUNTED 2X BARLOW LENS

- ACHROMATIC - - COATED -

EXAMPLE: Barlow lens doubles the power by increasing the size of your primary image and makes the secondary image twice the size. Illustrated below.



In brief, the Barlow (negative) lens is placed a short distance inside the focus of a telescope objective or mirror, generally inside the eyepiece tube, thereby increasing the magnifying power by enlarging the primary image.



Now you can double the power of your telescope with this coated achromatic 2X Barlow lens. This is the standard size usually found on most Japanese telescopes and will accommodate eyepieces of approximately .962 or 15/16" diameter. Beautifully mounted in black anodized aluminum with chrome plated tube. Length is 5½" and weighs 4 ounces.

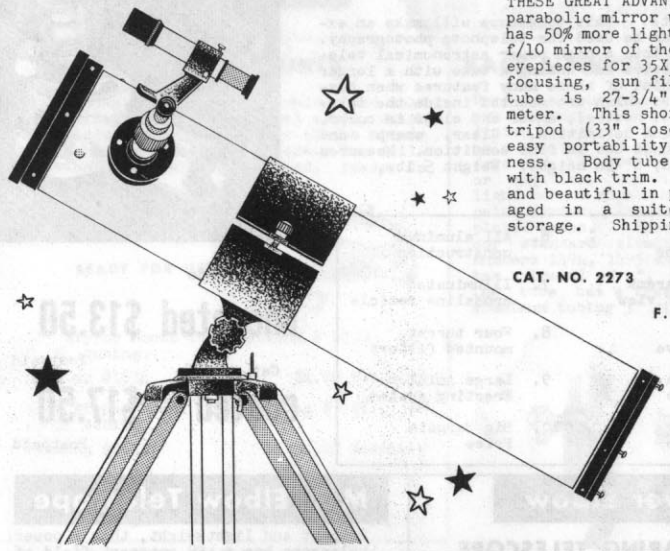
Cat. #2098 $6.00 postpaid

Comming Soon!

ACHROMATIC COATED
Standard 1·1/4" BARLOW LENS

NEW 4-1/4" ASTRONOMICAL REFLECTOR TELESCOPE

● 4-1/4" - F/6 PARABOLIC MIRROR 700MM F. L. ●
● TWO EYEPIECES - 35X & 175X ●
● ADJUSTABLE WOOD TRIPOD ●
● 4X FOCUSING FINDER ●



This imported high standard astronomical instrument was designed and priced especially for those who prefer an economical Reflector Type Telescope. Enjoy countless fascinating hours exploring the wonderous and intriguing beauty of outer space. From the macabre craters of the Moon to the spectacular rings of Saturn. These and many more breathtaking experiences are yours with this fine instrument. CHECK THESE GREAT ADVANTAGES - The 4-1/4" f/6 parabolic mirror with a 700mm focal length, has 50% more light gathering ability than a f/10 mirror of the same diameter. 2 coated eyepieces for 35X and 175X, rack and pinion focusing, sun filter and 4X finder. The tube is 27-3/4" long and 5-3/4" in diameter. This shorter tube and collapsible tripod (33" closed - 60" open), makes for easy portability, stability and compactness. Body tube finished in white enamel with black trim. Beautiful in appearance and beautiful in performance. Neatly packaged in a suitcase type carton for easy storage. Shipping weight approx. 20 lbs.

CAT. NO. 2273 SHIPPED EXPRESS COLLECT

F. O. B. LYNBROOK, NEW YORK

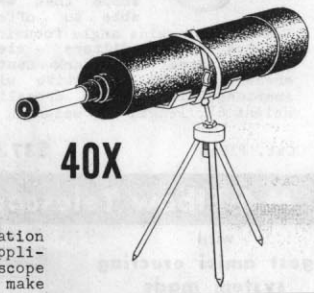
$59.50

3" REFRACTOR TELESCOPE
WITH ERECT IMAGE

GIANT

Excellent for STAR GAZING
SPOTTING
LONG DISTANCES

Here is another example of JAEGERS ingenuity. This amazingly versatile optical instrument is really a beautiful piece of workmanship. Big 3" diameter achromatic coated objective which will give you needle-sharp crystal-clear images. Focusing is a delight with the micrometer spiral focusing drawtube. Brass and aluminum construction throughout with a tough black crackle finish. Length open 22", closed 15½", weight 2¼ lbs. Upright image.



Cat. #1491 $57.50 postpaid

TRIPOD

This is a sturdily built lightweight all metal combination TRIPOD and TRIPOD HEAD which can be used in numerous applications. It will amply accommodate our "GIANT" Telescope as illustrated. It's ball swivel joint allows you to make directional adjustments with ease. Arm at side of tripod will firmly lock joint to your desired position. Tripod head has a 1/4 x 20 threaded hole. By removing legs, which just screw out, you may screw TRIPOD HEAD to stud of your photo tripod. Comes with web straps and rubber tips for legs. Weight 1-1/8 lbs., stands 11½" high. Black crackle paint finish. Better value buy.

Cat. #1954 $8.95 postpaid

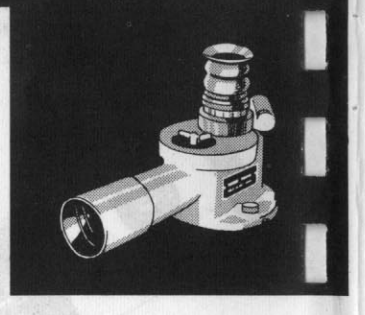
40 POWER
3-1/16" (78MM DIA.) ACHROMATIC OBJ.
ALL COATED LENSES
MICRO-SPIRAL FOCUSING
ALL BRASS AND ALUMINUM CONSTRUCTION WITH BLACK CRACKLE FINISH

"ELBOW" Telescopes

WAR SURPLUS BARGAINS

8X Elbow Telescope our lowest price ever

Our best value offer to date. This telescope will make an exceptional finder. Also, can be used for telephoto photography. It can be easily converted into a high power astronomical telescope by removing the objective and adding a tube with a longer focal length objective. Think of these many features when buying. There are 4 filters which are mounted inside the telescope on the turret - red, neutral, amber and clear in color. Excellent resolving power and definition. Clear, sharp and bright images. Slightly used but in fine condition. Measures 11½" in length, 5" in width, 6" in height. Weight 5 lbs.



1. 8 Power telescope
2. 48° apparent field of view
3. Big 2" Objective
4. 25mm Dia. eyepiece
5. Focusing Eyepiece
6. All aluminum construction
7. Illuminated crossline reticle
8. Four turret mounted filters
9. Large Amici Erecting system
10. Big Bargain Price

Cat. #1686

uncoated $13.50 Postpaid

Cat. #1975

coated $17.50 Postpaid

6 Power Elbow



BEARING TELESCOPE

BRAND NEW

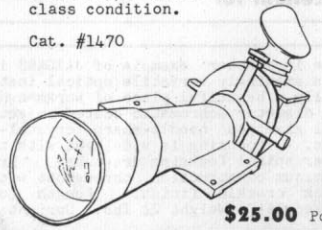
This 6 Power Bearing Elbow Telescope was made by the United States Ordnance Department and is brand new. It is the smallest, most compact elbow telescope that we have been able to offer to date. Comes with a wide angle focusing eyepiece, 4 turret mounted filters - clear, orange, light neutral and dark neutral. Amici erecting system, objective with a 44 mm aperture, illuminated crossline reticle. Height 6", length 9", weight 4 lbs.

Cat. #1941 **$37.50** Postpaid

M 7 Elbow Telescope

Compact and lightweight, this 8 power telescope has a 48° apparent field of view. 52mm dia. objective and focusing eyepiece. Crossline reticle. 4 turret filters - amber, red, neutral and clear in color. Large Amici erecting system, plus a rubber eyecup. Aluminum construction. Length 11", width 4-3/4" and 4" in height. First class condition.

Cat. #1470

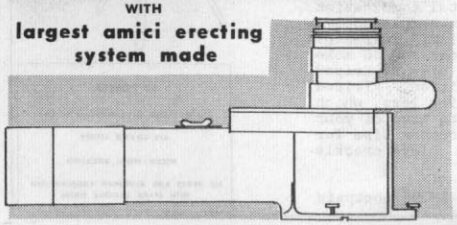


$25.00 Postpaid

M 6 Elbow Telescope

WITH

largest amici erecting system made



The special wide angle erfle eyepiece gives a bigger, wider field. Big 2" objective. Magnification 8 power, field of view 8° 45', filters - neutral, red, amber and clear in color. Length 15", width 6½", height 8". Weight 10 lbs.

LOOK AT WHAT YOU GET IN THIS SCOPE!

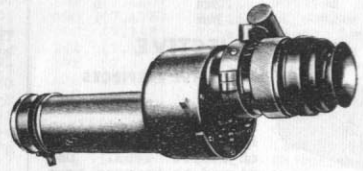
2" Achro. Objective	- Cat.#1768A	$13.50
Amici Prism	- Cat. #1575	25.00
Erfle Eyepiece	- Cat. #1404	18.00

Complete, a fine dollar value buy for...

Cat. #1912 **$60.00** Postpaid

8 POWER TELESCOPE

BIG WIDE ANGLE EYEPIECE



- 2" Diameter Eyepiece
- 2-1/8" Dia. Objective
- Crossline Reticle
- Wide Angle Eyepiece
- Focusing Eyepiece
- 3 Filters, Turret Mounted
- Prism Erecting System
- Illuminated Reticle
- Rubber Eyeshield
- Aluminum Construction

Complete with Leather Carrying Case

We expect a sellout of these U. S. Army spotting scopes. When our small supply is gone we will not be able to duplicate this offer. These 8 Power Telescopes feature a focusing 2" diameter wide angle eyepiece and a 2-1/8" objective. Field of view 8 degrees 45 minutes. Made of aluminum, these scopes are relatively light in weight; only seven pounds, yet are sturdy army construction. Contains 3 turret mounted filters, amber, neutral and clear. Has illuminated crossline reticle and light attachment (extra bulbs included), and a 20" electric cable and sockets. Rubber eyeshield and leather dust-cap as illustrated. Length without eyeshield 16½". Shipped Express Collect. Approximate weight 25 lbs.

Cat. No. 1519 $42.50 F.O.B. Lynbrook, N.Y.

3X ARMY TELESCOPE



This 3 power telescopes' upright image makes for fine viewing of landscapes, seashores, objects, etc. These superb telescopes were produced by one the most outstanding manufacturers of optical equipment. Easily dismantled, you will find it useful for various projects. The high resolving power of the six achromatic lenses will bring out great detail. Each scope has red reticle illuminating window on outside. Enables you to use flashlight to illuminate reticle for night use. Made of sturdy steel and brass. Weight 5 lbs., length 22½" (non collapsible), 12° 19' field. Telescope consists of a wide field Kellner eyepiece, f.l. 1¼", military reticle. Objective has a flat glass protective window. 3 power, rubber eyeguard, filters: red, amber and neutral that snap on to eyepiece. Simple instructions for converting scope to 6X finder included with each purchase.

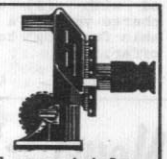
Cat. #580 (value $150.00) $7.50 Postpaid

Pair of Mounting Rings for above finder.

Cat. #1963 $3.95 Postpaid

MACHINE GUN SIGHT





Here is a small, light and compact telescope. About 3½ X. It contains a Leman roof prism to give a clear erect image. A 24 mm focal length eyepiece and a 16 mm diameter. X 80 mm focal length objective. These instruments are slightly used but in excellent condition. Comes complete with a leather carrying case. Weight of telescope 1-3/4 lbs. Bargain priced.

Cat. #1687 $8.75 Postpaid

SMALL SPECIALIZED TELESCOPE



COATED OPTICS

1-1/3 power, 5½"long, solid brass construction, weight approximately 1 lb. Contains an objective lens, mounted PorroAbbe erecting system and an achromatic eyepiece which was designed for eye relief. Eye distance 4 inches.

Cat. #1244 Uncoated $3.75 Postpaid

Cat. #1819 Coated $4.50 Postpaid

Prismatic SPOTTING SCOPE

SPECIFICATIONS:

POWER	FIELD OF VIEW AT 1000 YARDS	DIAMETER OF EXIT PUPIL	RELATIVE BRIGHTNESS
15X	122'	5.4mm	29
20X	122'	4.0mm	16
30X	61'	2.7mm	7
40X	49'	2.0mm	4
60X	32'	1.3mm	1

New!

80mm OBJECTIVE

FIVE EYEPIECES



This superb instrument features a brilliant 80mm (3-1/8") diameter objective lens. Designed to be used as a spotting or astronomical telescope. Great light-gathering power that will pick up extremely faint objects under any kind of lighting conditions, day or night. It will show stars of the 11th magnitude - 100 times fainter than the very faintest visible to the naked eye. Supplied with all metal tripod and eyepiece tray. Tripod is 18" extended, 13¾" closed. Scope is 16½" long. Combined weight of telescope and tripod is 5¼ pounds.

Cat. #2052 All Coated Optics $59.50 postpaid

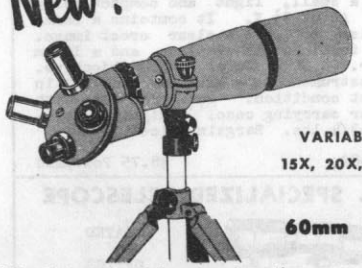
PRISMATIC SPOTTING SCOPE

A new compact 60mm PRISMATIC SPOTTING SCOPE. An ideal optical instrument for long range observation and sightseeing. Highest quality hard coated optics, achromatic, color corrected lenses, gives outstanding pin-point definition. Greater illumination is assured through it's large 60mm objective lens. Sunshade around the objective lens can be extended up to 2" to eliminate sunglare. Overall length of telescope is 13", weight 29 ozs. Supplied with (5) eyepieces 15X to 60X. At no extra charge you get a sturdy metal tripod, height adjustable from 10½" to 15½". Made in Japan. Big bargain offer.

Cat. #1721 All Coated Optics $42.95 postpaid

New!

TURRET SPOTTING SCOPE



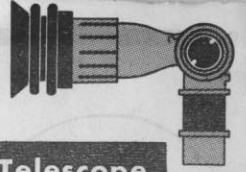
VARIABLE POWER
15X, 20X, 30X & 40X

60mm objective

This Prismatic Telescope has the same optics and general design as the above telescope (Cat. #1721), except for this unique feature -"The Revolving Turret". Four eyepieces of variable power are mounted on the turret. Powers range from 15X, 20X, 30X to 40X. The changing of eyepieces is easily accomplished by a mere flick of the finger. Eyepieces are parfocal and it is not necessary to refocus when switching powers. Supplied with a sturdy all metal tripod.

Cat. #1980 All Coated Optics $45.75 postpaid

3 X



ELBOW Telescope

This 3 power Elbow Telescope was used by the Army in tanks for sighting at right angles. It has a 1" Achromatic Objective lens and an Amici Erecting System. The Achromatic Eye and Field lenses are 1-3/8" in diameter. It weighs 2 lbs. Measurements: 5-1/8" x 4" x 1-3/4". Small and compact.

Cat. # 923 Uncoated (used) $5.00 Ppd.

Cat. #1006 Coated (new) $10.00 Ppd.

POWERFUL PRISMATIC MONOCULARS

Lightweight construction, crackle finished body with chromium plated satin finish trimming. Removable dust cap for protection of the objective lenses when not in use. Achromatic objective, coated optics Supplied with metal tripod.



20X40
Magnification 20X, objective lens 40mm in dia. Field of view 105' @ 1000 yards. Weight 6 ounces. Length is 8¼".

Cat. #1772 Coated $14.50 postpaid

30X60
Magnification 30X, objective lens 60mm in dia. Field of view 71' @ 1000 yards. Weight 17 ounces. Length is 12½".

Cat. #1773 $18.50 postpaid

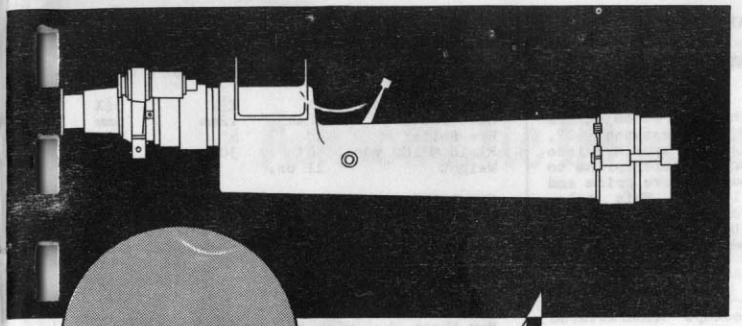


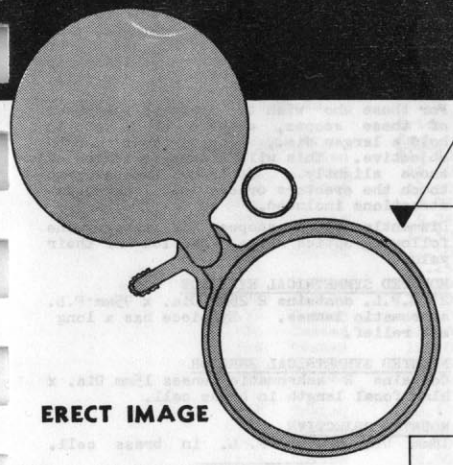
VARIABLE POWER
10X 20X
ELBOW TELESCOPE

This fine variable Elbow Telescope has a knurled ring under the collar near the eyepiece. By twisting the ring you can easily shift erecting system from 10X to 20X. Objective lens is 2¼" in diameter, field of view at 10X is 6° 9', at 20X it is 3° 5'. Contains a penta prism and erecting system. Scope is 14 x 21", weight 15 lbs.

$25.00 F. O. B. Lynbrook, N. Y.

Cat. #1952





Azimuth TELESCOPE

GOV'T COST $500.00

ERECT IMAGE

EXTRA WIDE FIELD

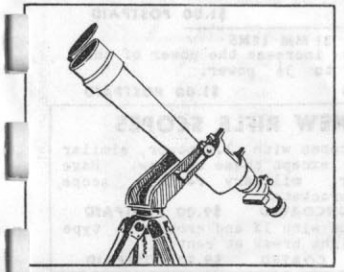
This versatile war surplus optical instrument is well suited for astronomical use. The crystal-clear, bright erect image and extra wide field makes it a natural for terrestrial use. Perfect for rifle ranges, scope has been used to spot holes in rifle targets 400 yards away. Use for bird watching, viewing boat races, observing airplanes, etc. Comes with 2 interchangable powers 10X and 15X highly corrected wide-angle eyepieces. Scope is equipped for electrical connections for illuminating the reticle for night use. 2 Mazda type 64 lamps 3C W 6-8V. included. No power supply included. Telescope is constructed of solid bronze with tripod pivots, military olive-drab paint finish, length of scope 26", weight with leather carrying case about 40 lbs. Slightly used, in excellent operating condition.

SPECIFICATIONS:

CLEAR DIA. OF ACHROMATIC OBJECTIVE 3"
F. L. OF OBJECTIVE APPROXIMATELY 23⅜"
POWER - 10X and 15X, (TWO EYEPIECES)
EYEPIECES -- (FOCUSING TYPE)
FIELD OF VIEW 3 DEGREES and 2 DEGREES
EXIT PUPIL 7.5mm and 5mm
MINIMUM FOCUS 50 FEET
PRISMATIC ERECTING SYSTEM
HORIZONTAL RETICLE SCALE IN DEGREES
RETICLE ADJUSTABLE (CAN BE REMOVED)
SWING AWAY OBJECTIVE GUARD
LEATHER CARRYING CASE (HEAVY DUTY)

CAT. NO. 2044 SHIPPED EXPRESS COLLECT F. O. B. LYNBROOK, NEW YORK **$49.00**

Illustration shows Azimuth Scope mounted on tripod.



☐ TRIPOD ☐

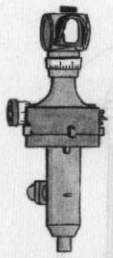
U. S. Government tripod, constructed of oak with bronze legs and fittings. Legs are adjustable, fully extended 50", closed 36" (without mount). Original government cost $66.00. Our low price includes our own saddle mount which will accommodate the above telescope as well as many others.

CAT. NO. 2045 SHIPPED EXPRESS COLLECT

F. O. B. LYNBROOK, NEW YORK **$25.00**

BARGAIN PRICED

PANORAMIC TELESCOPE



SURPLUS SALE 4 Power Panoramic Telescope with a geared objective rotating head, head rotates 360°. Contains a Kellner type eyepiece 21mm focal length, Amici prism to give erect image, dove prism and an objective lens. This telescope is of American manufacture and has a 10° field with exit pupil of 4.5mm. Weight 4½ lbs, height 8¼". Slightly used.

CAT. NO. 1690 **$12.50 POSTPAID**

4 Power Panoramic Telescope manufactured by C.P. Goerz, Berlin, Germany. Contains similar optics as above. Height 10", weight 5 lbs. These instruments are in better condition than those listed above.

CAT. NO. 1691 **$17.50 POSTPAID**



U. S. Army PANORAMIC Telescope

$12.00 POSTPAID

CAT. NO. 1935

Distinguishing feature of this Panoramic Telescope is that the eyepiece leg slants upward at an angle of 25°, permitting the observer to look downward at this angle and yet maintain a true horizontal line of sight. Because of the angle of the eyepiece, a special 155° Amici prism is used. 3 Power, field of view 12° 12 minutes. The objective is located between the rotating Amici prisms. Crossline reticle.

6 X Battery Commander Periscope

CAT. NO. 1365 **$15.00 POSTPAID**



This instrument has a focusing eyepiece. Fine crossline reticle. Field of view 6° 30 minutes. Made of brass, length 28". Dismantled, it offers the following parts:

FOCUSING KELLNER EYEPIECE - 1-1/8" E. F. L.
2 RIGHT ANGLE PRISMS - flat to ¼ wave, 25 x 23mm and 30 x 30mm face size.
ACHROMATIC OBJECTIVE LENS - 30mm diameter. 11" F. L.
2 ERECTING LENSES - achromatic, 25 mm dia. x 5½" F. L. and 25mm dia. 7" F. L.
PLANO CONVEX COLLECTIVE LENS - 34 mm dia. x 5½" F. L.

Completely assembled and ready for use.

TRIPOD

3' high, may be extended to 5'. Smooth operating double geared mount with clutch release, may be turned in full circle. Has circular level vial and graduated scale 0 to 64 mils. Has ball joint which will lock scope in any position.



CAT. NO. 1366 **$20.00 POSTPAID**

RIFLE SCOPES

SPECIFICATIONS	CATALOG NO. 1457 & 1458		
Magnification	1X	2½X	3½X
Exit Pupil	18mm	12mm	8mm
Eye Relief	4"	4"	4"
Field @ 100 yds.	54'	30'	22'
Weight	11 oz.		

Completely assembled rifle scopes, contain five achromatic lenses. Eyelens 25mm Dia. Objective lens 18mm Dia. and reticle. One Power, length 8-3/4". Although used, each rifle scope is individually checked by our Inspection Department before shipment to insure you they will perform perfectly.

For those who wish to increase the power of these scopes, adapter can be made to hold a larger dia., longer focal length objective. This will increase length of scope slightly. It is not necessary to touch the erectors or eyepiece lenses. Instructions included.

Dismantle these scopes and obtain the following optics at a fraction of their value.

MOUNTED SYMMETRICAL EYEPIECE
2" E.F.L. contains 2 25mm Dia. x 95mm F.L. achromatic lenses. Eyepiece has a long eye relief.

MOUNTED SYMMETRICAL ERECTOR
Contains 2 achromatic lenses 15mm Dia. x 41mm focal length in brass cell.

MOUNTED OBJECTIVE
18mm Dia. x 49mm F. L. in brass cell.

YOUR CHOICE FOR ONLY



$6.50

1X rifle scope (above) has true crossline reticle, plus small grid pattern.

CAT. NO. 1457 **$6.50 POSTPAID**

Same 1X rifle scope without brackets. This scope has military type reticle.

CAT. NO. 1458 **$6.50 POSTPAID**

NOTE: Both of the above scopes have a 7/8" outside diameter barrel which is standard for commerical mounts. It will be necessary to use mounts that will be adjustable for windage and elevation.

25 MM LENS

25mm lens to increase the power of the above scopes to 2½ power.

CAT. NO. 1173 **$1.00 POSTPAID**

31 MM LENS

31mm lens to increase the power of the above scopes to 3½ power.

CAT. NO. 1174 **$1.00 POSTPAID**

BRAND NEW RIFLE SCOPES

We have a few scopes with 1.8 power, similar to Cat. #1458, except these are new. Have increased power, military reticle, scope comes without brackets.

CAT. NO. 1459 UNCOATED **$9.00 POSTPAID**

Same as above but with 1X and crossline type reticle with slight break at center.

CAT. NO. 1818 COATED **$9.50 POSTPAID**

ASSORTED TELESCOPES and PARTS

8 POWER COLLIMATING SCOPE

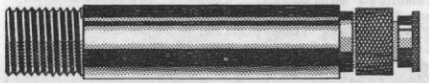


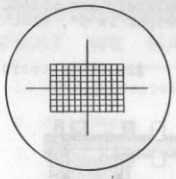
BRAND NEW

This fine 8X collimating scope has a 24mm clear aperture objective. It is equipped with crosshairs. The eyepiece can be focused on the crosshairs so that the individual eyes can be accommodated. The objective is in sliding tube which may be adjusted to remove parallax at different distances, then locked in place with a screw. The outside of scope has two rings so that it may be rotated in a V block for perfect alignment. Constructed of blackened brass throughout. Length is 8-3/4" and weighs 2 pounds.

Cat. #2011 $65.00 postpaid

6 POWER COLLIMATING SCOPE



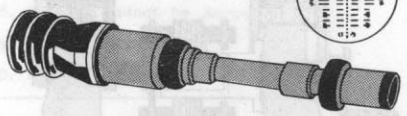


Contains an achromatic coated objective mounted in a sliding tube, a coated adjustable eyepiece and a grid type reticle. Gives an inverted image. Constructed of blackened brass. Measures 5⅛" closed, 8-1/8" fully extended with set screw to lock in place, 1¼" in diameter at threads (A.N.F. Threads, 12 to the inch).

Cat. #2183 $22.50 postpaid

RIFLE SCOPE M69C





War surplus, used as a rifle scope by the army. Graduations on the reticle is used for setting in deflections and elevation. Reticle may be illuminated for night operation. 3 Power, field of view 10° 24', length with rubber eyeshield 17", weight about 4 lbs.

Cat. #1965 $8.50 postpaid

RIFLE SCOPE M86C



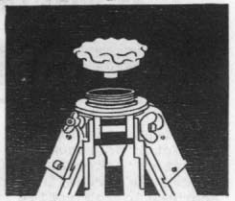


3 Power war surplus army rifle scope. Has reticle which will give you desired deflection and range. Reticle may be illuminated for night use. Field of view 7° 3'. Length 10-1/8", weight 1½ lbs.

Cat. #1966 $8.50 postpaid

HEAVY DUTY TRIPOD

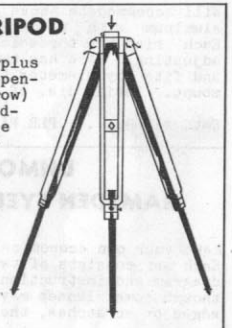




One of the sturdiest yet portable tripods it has been our pleasure to offer. This solid piece of craftmanship is made of the finest prime oak with bronze fittings. Comes with a built-in removable level, heavy leather carrying straps, ¼" threaded bronze cap 3" diameter, 3 extending locking legs with steel shods for firm support. Extended height 55", closed 33", weight 18 lbs. Satisfaction guaranteed.

Cat. #1953 $18.75 F.O.B. Lynbrook, N.Y.

ADAPTABLE TRIPOD



This government surplus tripod has a 1-3/8" opening at top (see arrow) which can easily be adapted to accommodate various types of telescope mounts. Made of oak with bronze legs and fittings. Legs are adjustable, fully extended 50", closed 36". This durable and sturdily built tripod will securely support a wide range of instruments; reflectors, refractors, movie cameras, still cameras, etc. Versatile tripod - Excellent value. Weight 7 lbs.

Cat. #2131 $15.00 postpaid

2 POWER TELESCOPE



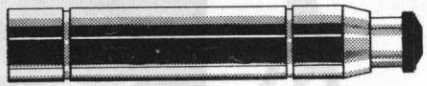


This sturdily made telescope has an objective lens that consists of two symmetrical 39mm diameter achromats and a focal length of 106mm each. Reticle is true crossline type and by inserting a coin or knife in the knobs on the sides of scope, reticle may be adjusted horizontally and vertically. Erector is a 17mm diameter achromat with focal length of about 60mm. Slightly used but in excellent operating condition. Length 17⅛", 1-7/8" in diameter, weight 6 pounds 10 ounces.

Cat. #2013 $10.00 postpaid

MISCELLANEOUS

7X WIDE FIELD FINDER



Excellent wide-field finder for refractor or reflector astronomical telescopes. Contains a coated achromatic Kellner focusing eyepiece, a crossline reticle and a coated achromatic objective to make finding easy. Fine definition. Finished in black anodized aluminum. Length 9½", diameter 1½", weight is 9 ounces.

Cat. #2193 $9.75 postpaid

FINDER RING MOUNT



Will accommodate above finder. Made of cast aluminum with black crackle paint finish. Each ring has three locking wing screws for adjusting. Base has two holes for screws and fits any diameter telescope. Easy to mount. Inside dia. of ring mount 1-15/16".

Cat. #1963.....PER PAIR.....$3.95 postpaid

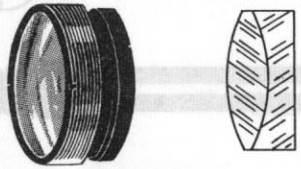
UNMOUNTED RAMSDEN EYEPIECE LENS SETS

Make your own economical Ramsden Eyepieces. Each set consists of two plano-convex lenses, diagram and instructions for mounting. Although some lenses may have slightly chipped edges or scratches, they are all usable.

CAT. No.	FOCAL LENGTH	POSTPAID
2197	1/4"	$1.75
2198	1/2"	1.00
2199	3/4"	.85
2200	1"	.75

For mounted Ramsdens and other fine eyepieces see pages 30 to 33.

MOUNTED ACHROMAT



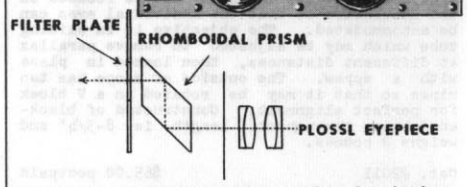
This mounted coated achromat is 64mm in diameter and has a focal length of 190mm. Mounting is threaded and measures 71mm in diameter (at threads), and is 29mm long. This achromat is not sufficiently corrected for use as a telescope objective, but will make a fine achromatic condensing lens.

Cat. #2288 $4.00 postpaid

NOTE: MICROSCOPES moved. Relocated on page 24A (Center Sheet).

HEIGHT FINDER PARTS

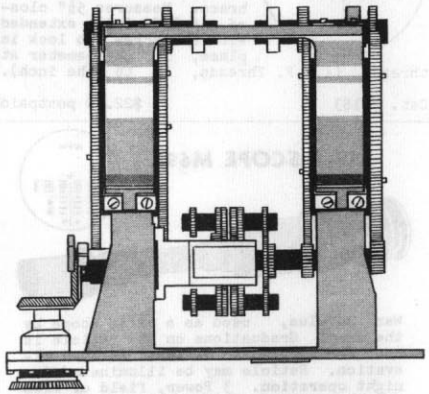




From U. S. Army Height Finder M1 - Consisting of 2 Plossl type eyepieces which contain two cemented achromats, diopter scale and rubber eyeshield for each eyepiece. Focal length is 27mm. Easy interpupilary adjustment from 58 to 72mm. Contains two 1" rhomboidal prisms which displaces the image horizontally by 1". Five rotating filters- - dark, amber, clear, blue and red. Shipped completely assembled. Used, in good condition. Height is 5", width 10", weight 7 lbs.

Cat. #2092 $20.00 postpaid

GEAR TRAIN AND WEDGES



4 ACHROMATIC WEDGES
Contains four achromatic wedges (same as our Cat.#2032) which provide deviation without breaking up light into its component color bands. Its two elements consist of flint and crown glass. Wedges are 64mm in diameter, wedge angle 23 minutes, approximate deviation 12 minutes. These wedges ordinarily sell for $5.00 each. Easy to dismount.

GEAR TRAIN SYSTEM
Contains an abundance of gears made of bronze and brass worth well over $150.00. Just look at this fabulous assortment: 1 - Helical gear system, 2 - Planetary (differential) gear systems, 13 - Pinion gears, 12 - Spur gears, half of a universal joint, bearing blocks, shafting, etc. Mounting is cast aluminum. Use as is or dismantled, These valuable parts may be adapted to various applications. Size is 8½" long, 7½" high and 5½" wide. Weight about 10½ lbs.

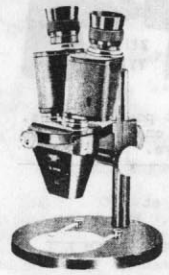
Cat. #2086 $22.50 postpaid

Stereo MICROSCOPES

- WIDE FIELD -

BINOCULAR TYPE — LOW POWER

The Stereo Microscope can be used to a far greater advantage than the conventional type one-eye, one-objective microscope. With an ordinary microscope, the viewer cannot get a full depth of vision. However, with The "Stereo", both eyes of the observer are used, each viewing the object from a slightly different angle as in normal vision. Thus, the observer has a full 3 dimensional view. Useful for examining specimen in botony, zoology, dermatology, metallurgy, etc. Each Stereo Microscope has erecting prisms for an upright image. Binocular Eyepieces are easily adjusted for interpupillary distance. Stage has removable stage glass with spring clips. Focusing adjustment by rack and pinion motion. Each Stereo is supplied with wood cabinet and is fully checked and collimated. High quality wide-field performance.



DELUX VARI-COMBO

STEREO MICROSCOPE

Supplied with 2 paired achromatic objectives of 2X and 4X permanently fixed, and 2 paired eye-pieces 5X and 10X.

CAT. NO. 1992 $150.00 PPD.

OPTICAL COMBINATION:

OBJECTIVES	EYEPIECES WIDE FIELD PAIRED	TOTAL MAGNIFICATION	FIELD OF VIEW ABOUT	WORKING DISTANCE ABOUT
2X	5X	10X	11 mm	93 mm
4X	5X	20X	5 mm	47 mm
2X	10X	20X	10 mm	85 mm
4X	10X	40X	4.5 mm	45 mm

The VALIANT

OPTICAL COMBINATION:

OBJECTIVES	EYEPIECES WIDE FIELD PAIRED	TOTAL MAGNIFICATION	FIELD OF VIEW ABOUT	WORKING DISTANCE ABOUT
1X	5X	5X	33 mm	65 mm
1X	10X	10X	23 mm	65 mm
4X	5X	20X	6 mm	40 mm
4X	10X	40X	5 mm	40 mm

STEREO MICROSCOPE

Furnished with 2 pair of objectives 1X and 4X. To change the objectives merely slide the objective housing from one position to the other. Supplied with 5X and 10X wide field eyepieces.



CAT. NO. 2277 $225.00 PPD.



STEREOMASTER 1 STEREO MICROSCOPE

Furnished with single paired 2X Achromatic Objectives permanently fixed and 2 paired eyepieces 10X & 15X. *Optional 5X Eyepiece, $15.00 Extra.

CAT. NO. 1993 $135.00 PPD.

STEREOMASTER 2 STEREO MICROSCOPE

Furnished with single paired 4X Achromatic Objectives permanently fixed and 2 paired eyepieces 10X & 15X. *Optional 5X Eyepiece, $15.00 Extra.

CAT. NO. 1994 $140.00 PPD.

OPTICAL COMBINATION:

CAT. NO.	OBJECTIVES	EYEPIECES WIDE FIELD PAIRED	TOTAL MAGNIFICATION	FIELD OF VIEW ABOUT	WORKING DISTANCE ABOUT
1993	2X	5X*	10X	14.0 mm	80 mm
		10X	20X	11.5 mm	80 mm
		15X	30X	8.5 mm	80 mm
1994	4X	5X*	20X	7.0 mm	46 mm
		10X	40X	5.0 mm	46 mm
		15X	60X	3.8 mm	46 mm

POCKET MICROSCOPES

25 POWER POCKET MICROSCOPE



(ACHROMATIC)

Pen clip holds this scope in your pocket, as conveniently as a fountain pen. Gives bright images. Focusing is done by tipping microscope. Chromium plated. Imported.

Cat. #1996 $3.00 postpaid

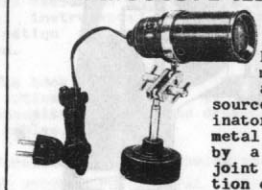
POCKET MICRO-TELESCOPE



Compact pen-like combination POCKET MICROSCOPE and TELESCOPE. Complete self-contained gadget consisting of 50X Microscope and 10X Telescope. Length 5" closed. Imported.

Cat. #1997 $4.50 postpaid

MICROSCOPE ILLUMINATOR



For best results, a microscope requires a good and steady source of light. Illuminator is mounted on a metal base and supported by a chrome plated ball joint to adjust the position of the light as desired. For use with AC current only. Contains a filter at front end, when removed, increases light intensity. To be used in front of mirror. Imported.

Cat. #2278 $6.00 postpaid

BINOCULAR BULLETIN

These post war Japanese binoculars are not to be confused with pre-war production. German technicians, machines and patterns have upped Japanese standards to the point where they are almost equal to the finest American and German glasses and at less than 1/3 the cost.

COLOR CORRECTED LENSES in these brand new prism type binoculars will give superb definition.

All binoculars are thoroughly checked and tested by us before leaving our plant. We endeavor to keep our prices as low as is consistent with supplying the high quality binoculars we know our customers will demand.

IF YOU FIND IT HARD TO CHOOSE

For ideal viewing - for brilliant images, even under poor lighting conditions, you cannot do better than a pair of 7 X 50 binoculars. Either Individual or Center Focus.

If you want a very light weight glass for all around daytime use, a 7 X 35 would be a very good choice. For extra satisfaction, buy the B. & L. type with its sturdy one-piece frame.





ZEISS TYPE

AMERICAN TYPE (above) sometimes referred to as B & L type.

We have illustrated two of the most popular types. The American Type offers a superior one-piece frame and clean design, pleasing to the eye.

Cat. No.	Price* Ppd.	STYLE	Type	Relative Brightness	Field of View Ft. at 1000 yds.	Wt. in oz.
1435	$16.75	6x30 Individual Focus	Zeiss	25	395	17.6
1436	18.75	6x30 Center Focus	Zeiss	25	395	19
1437	17.95	7x35 Individual Focus	Zeiss	25	341	21.2
1438	20.75	7x35 Center Focus	Zeiss	25	341	22.6
1771	23.50	7x35 Center Focus	American	25	341	22
1439	35.00	7x35 C.F."WIDE ANGLE" 11°	American	25	577	30
2303	39.75	7-12x40 C.F. "ZOOM"	Zeiss	12 to 33	279	42
961	22.50	7x50 Individual Focus	Zeiss	50	372	34.5
1106	24.95	7x50 Center Focus	Zeiss	50	375	36
1503	32.50	7x50 Center Focus	American	50	372	35
2191	42.50	7x50 C.F."WIDE ANGLE" 11°	American	50	578	36
919**	13.50	8x26 Center Focus	Zeiss	10	330	16
920**	15.50	8x30 Center Focus	Zeiss	14	340	17
1229	18.25	8x30 Individual Focus	Zeiss	14	393	17.6
1443	21.00	8x30 Center Focus	Zeiss	14	393	19
1108	26.75	10x50 Individual Focus	Zeiss	25	275	27.5
1440	28.75	10x50 Center Focus	Zeiss	25	275	29
1137	31.50	16x50 Center Focus	Zeiss	10	183	29.3
1441	31.75	20x50 Individual Focus	Zeiss	6-½	183	44.5
1442	33.75	20x50 Center Focus	Zeiss	6-½	183	46.5

Remember that all the above binoculars are COATED and a hard leather case and straps are included with the low purchase price. No extras.

* "NOTE": *All binoculars are subject to a Federal Excise Tax of 10%. This tax must be added to the above price. ** Made in France, UNCOATED.



1. Ocular lens.
2. Field-lens.
3. Prisms are seated in accurately machined recesses; spring straps hold prisms securely in place and are resistant to knocks and blows.
4. Large objective lens

TECHNICAL TERMS EXPLAINED:

THE POWER OF A BINOCULAR:

is the number of times the object is magnified; glasses with a power of 8x magnify the object 8 times. A more simple explanation is the number of times nearer the object appears through the glasses, i.e., an object 4 miles away appears only half a mile distant through an 8 power glass. The magnification (power) as well as the diameter of the objectives is usually engraved on binoculars. Thus the marking "8 x 30" means magnification 8x and objective lens diameter 30mm. and so on.

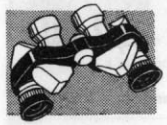
FIELD OF VIEW:

is the extent of the field seen through the glasses. It is expressed either in angular measure or in feet at a range of 1,000 feet. That is to say that a glass with a field of view of 150' will show you 150 feet of landscape at 1,000 feet—proportionately greater fields at longer ranges and less at shorter ranges.

Unfortunately the greater the magnification the less the field of view. This is an optical necessity. It follows therefore, that if you choose a glass with large magnification you must be prepared to accept a smaller field of view than you would obtain with a less powerful glass.

BINOCULARS

MINIATURE BINOCULARS



MINIATURES

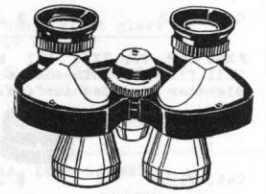
Here is an ideal binocular for the lady's handbag. The prismatic design everyone is so eager to own. Lightweight models of high power and definition. Individual micromatic lenses are coated for maximum light transmission and anti-glare. Dust and moisture proof all metal all chrome finished. Similar construction to American binoculars selling for more than ten times our price. Complete with carrying case and coated optics. Plus 10% Excise Tax.

Cat. No.	Style	Relative Brightness	Field of View Ft. at 1000 yds.	Wt. in Ounces	* Price Ppd.
1149	6X15 Ind. Focus	6¼	360	5.5	$12.75
1504	7X18 Ind. Focus	6¾	300	6	14.50
1505	8X20 Center Focus	6¼	260	7.5	20.75

WIDE ANGLE MINIATURE

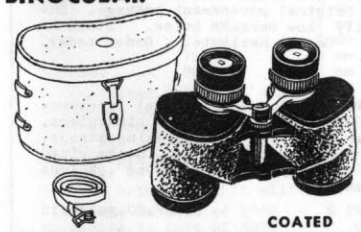
Finest quality wide angle binocular. This superb miniature has a field of 630 ft. at 1000 yds. (12°). Center focus. Each binocular receives extensive inspection of "in work" as well as completed binoculars at factory for mechanical and optical perfection. Comes complete with carrying case and straps. Excellent for all around use. Plus 10% Excise Tax.

Cat. #1962 6X25 * $38.50 postpaid



COATED

BINOCULAR



COATED

WIDE ANGLE 7X35 BINOCULAR

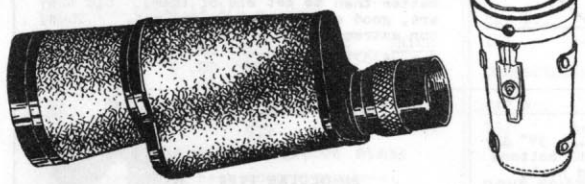
Never in your life have you ever seen such a fantastically wide angle binocular. Think of it! With this brilliant 7X35 model you'll see 577', or 11° of field. Lightweight, this binocular has achromatic corrected lenses which will give you sharp images right up to the edge. See more, much more with this wide angle binocular. Central focusing adjustment. Black crackle finish. Complete with pigskin leather case, shoulder and neck straps. Made in Japan. Plus 10% Excies Tax.

Cat. #1439 *$35.00 Postpaid

PRISM MONOCULARS

GENUINE HARD LEATHER CASE

COATED OPTICS



Brand new prism monoculars. Equal to ½ of a binocular and of the same high quality. They are lightweight and come complete with plush lined pigskin case and carrying straps. Many observers find them ideal as rich-field sky sweepers or as telescope finders. Coated optics.

Cat. No.	Size	Relative Brightness	Field of View Ft. at 1000 yds.	Price Prepaid
1576	6X30	25	393	$ 10.00
1577	8X30	14	384	11.25
1578	7X35	25	367	12.50
1303	7X50	50	367	14.75
1579	16X50	10	183	17.50
1580	20X50	6¼	183	20.00

PLEASE NOTE:
Monoculars are not subject to the Federal Excise Tax.

We are PROUD

of our vast experience and specialization in optics which assures our many customers of getting the finest in binoculars. High quality merchandise and service ranks us with the best in the field. For example - We check each binocular for collimation before shipping. A binocular consists of two optical systems, and if not aligned with minute exactness you will get a double image. We unconditionally guarantee each binocular or your money will be refunded.

*** NOTE:**
All binoculars are subject to a Federal Excise Tax of 10%. This tax must be added to the above prices.

BINOCULAR ACCESSORIES

EYE CAPS

6X30 CAP for standard 6X30 Army, Navy or Maritime Service Binoculars. Will also fit other binoculars having a 1" diameter threaded surface.



Cat. #799 $ .25 each postpaid

7X50 CAP for standard 7X50 Army, Navy or Maritime Service Binoculars. Will also fit other binoculars having a 1-3/16" diameter threaded surface.



Cat. #962 $ .35 each postpaid

7X50 CAP for 7X50 M17 Army Binoculars. Will fit other binoculars having a 1-5/16" diameter threaded surface.



Cat. #1546 $ .35 each postpaid

BINOCULAR CASES

Gov't cost $23.75

BRAND NEW OUR PRICE

$2.00



Fine durable unused war surplus binocular cases constructed of sturdy plastic rubber with stipple finish that will not show wear. These cases will outlast any others by many years. Cover is lined with sponge rubber and makes an almost air-tight seal when closed. May be used as a carry-all. Handy on picnics. Use for wet bathing suits, towels, diapers, etc. Will make a spacious novel handbag for the ladies. These cases are brand new and come to you in their original government package. Exceptionally low bargain price. Stock is limited. Do not hesitate. Order today.

OLIVE CASE. (illustrated above) accommodates 7X50, 10X50 and 16X50 binoculars. Has valise type lock and carrying straps. Total inside depth 8-3/4". Inside width is 7-3/4" at top and tapers to 6¼". Weight is 2½ pounds.

Cat. #1967 $2.00 postpaid

6X30 BINOCULAR CASES $1.00 SALE

We are overloaded with these old 6X30 Army binocular cases and we would like nothing better than to get rid of them. Old they are, good condition they are not. Thus, our extremely low price.

Cat. #2021 $1.00 postpaid

Top—Notch BARGAINS

Prism Erecting Systems

For SPOTTING SCOPES
TELESCOPES
BINOCULARS
MONOCULARS

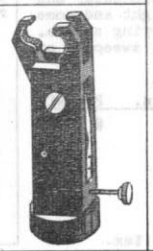
TURN TO PAGE 18

NECK STRAPS

Black leather with metal buttons. 39" in length. Attach to binocular with buttons and hold it suspended from around neck.

Cat. #1848 $ .40 postpaid

BINOCULAR CLAMP



Will hold any size make of binocular rigidly on tripod. Has a standard camera threaded hole (¼x20). Especially adapted for holding high power glasses. Used for target spotting or distant spots. Comes in black crackle finish.

Cat. #1959 $2.95 postpaid

VARIABLE DENSITY FILTERS

BINOCULAR TYPE



Two variable density filters on hinged frame, used in the front of your binocular eyepieces. Aperture of filters 3/4". Density of both filters can be changed by moving small lever on either side of frame Recommended for use when viewing from airplanes, over water or brightly lit scene. Will snap over approximately 1-3/8" dia. eyecap. As we do not have special adapters to fit this frame to your binoculars, we are selling these out for a low price.

Cat. #1797 $1.00 postpaid

BINOCULAR OPTICS

BINOCULAR ACHROMATIC OBJECTIVES

Perfect, or near perfect edged and cemented. Cat. #55 and 828 objectives were used in the 6X30 binoculars of World War #2 as made by Universal Camera, Ranco, Westinghouse. From M13 & M15 binoculars.

Cat. #	Diameter	F. L.	Price ppd.
55	32mm	132mm	ea. $1.50
828 Coated	32mm	132mm	ea. 1.75
2041*	32mm	132mm	ea. 2.70

* Coated and Mounted

Catalog #413 and 421 were made for World War #1 6X30 binoculars type EE such as Bausch & Lomb, U. S. Naval Gun Factory, Crown Optical Co., Talbot Reel Co., etc.

Cat. #	Diameter	F. L.	Price ppd.
421	31mm	124mm	ea. $2.50
413 Coated	31mm	124mm	ea. 2.75

Catalog #848C - Objectives were used in 7X50 binoculars such as - M16, M17, Ranco, Universal Camera, Westinghouse, Bausch & Lomb, Anchor Optical Co. & Kollsman Inst.

Cat. #	Size	Price ppd.
848C Coated	7X50 Binocular Obj.	ea. $3.00
1838*	7X50 Binocular Obj.	ea. $3.75

* Coated and Mounted

EYEPIECE LENS SET

KELLNER EYEPIECE LENS SET from 1" 6X30 Wollansak binoculars. F.L. 22mm. Eye lens 13mm in diameter. Field lens 19mm in diameter. Gov't spacing supplied.

Cat. #823 $2.50 ppd.

22MM F. L. EYEPIECE LENS SET Kellner type from 6X30 M3, M13 and M15 binoculars .865" EFL. Contains 18mm dia. coated achromatic eye lens and uncoated field lens. Government spacing supplied.

Cat. #1463 $3.00 ppd.

BINOCULAR EYEPIECES

6X30 - 7X50 FOCUSING EYEPIECES

Brand new coated binocular eyepieces in focusing mounts complete with scale and eyecap. Take advantage of this extremely low price while our supply lasts. Use these eyepieces in combination with our sale priced 7X50 prism erecting systems (Catalog # 1774 each for $2.50 postpaid.) to build spotting scopes, telescopes and binoculars. Length of travel of focus is 5/16" on both eyepieces. Threaded part of 7X50 eyepiece 1-3/16" O.D. - 6X30 eyepiece 1-1/16" O.D.



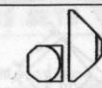
7X50 Coated Eyepiece
27mm E.F.L.
Cat.#1888 **$4.50** ppd

6X30 Coated Eyepiece
22mm E.F.L.
Cat. #1890 **$4.50** ppd



Convert above binocular eyepieces to astronomical use with these 1¼" O.D. adapters.
Cat. #1889 for 7X50 Eyepiece $2.50 ppd.
Cat. #1891 for 6X30 Eyepiece 2.50 ppd.

BINOCULAR PRISMS



These Porro prisms are grooved to eliminate ghost images. They are first grade prisms. In building a telescope, use two of them to shorten it's length and erect the image at the same time.

Catalog #847 prisms were originally used in binoculars as, M13, M15, Universal, Ranco, and Westinghouse.

Cat. #847 6X30 Bin. Prism ea. $1.00 ppd.
Cat. #847C Same as above, Coated 1.15 ppd.

Catalog #87 Prisms are not grooved. They were used in World War #1 - 6X30 binoculars type EE such as Bausch & Lomb, U.S. Naval Gun Factory, Crown Optical Co., Talbot Reel Company, etc.

Cat. #87 6X30 Binocular Prism $1.00 ppd.

Coated 7X50 Grooved Binocular Prisms. These will fit such binoculars as, M16, M17, Universal, Ranco, Westinghouse, Bausch & Lomb, Anchor Optical Co., Kollsman Instrument Co.

Cat. #739 Coated $1.15 ppd.

6X30 FOCUSING EYEPIECE

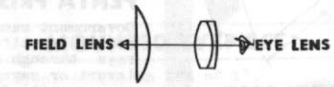


MOUNTED 6X30 EYEPIECE In focusing cell as illustrated. EFL 22.5 mm, 11X. Brand new with coated optics. This is the type used on binoculars made by Universal, Ranco and Westinghouse. Eyelens diameter is 18mm.

Cat. #1832 Right Side Only $4.50 ppd.

Extra eye caps for 6X30 binoculars.
Cat. #799 $ .25 ppd.

EYE & FIELD LENSES



BINOCULAR EYE LENS - for 6X30 Wollansak M5 Binoculars.
Cat. #852 each $2.25 ppd.

BINOCULAR FIELD LENS for the above binoculars.
Cat. #855 each $2.00 ppd.

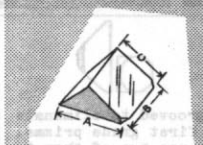
BINOCULAR EYE LENS for M3, M13 & M15 Binoculars, as Universal, Ranco, Westinghouse.
Cat. #853 each $2.00 ppd.

BINOCULAR FIELD LENS for the above binoculars.
Cat. #854 each $1.00 ppd.

BINOCULAR EYE LENSES for 7X50 Binoculars, M16 & M17, as Universal, Westinghouse, Bausch & Lomb, Ranco, Anchor Optical Co., and Kollsman Instrument.
Cat. #856 each $1.90 ppd.

BINOCULAR FIELD LENS for the above binoculars.
Cat. #857 each $1.00 ppd.

PRISMS

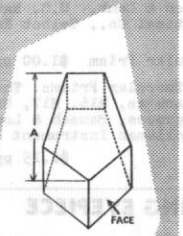


RIGHT ANGLE PRISM

RIGHT ANGLE PRISMS

The most versatile and commonly used prisms when a deviation of 90 degrees is required. Rays reflect through an angle of 90 degrees and are reflected only once with the result that the image is inverted. Use these prisms for direct positive photography work, in astronomical telescopes as a diagonal, projectors, photo-electric systems, to project a spectrum, photostat cameras, rangefinders and hundreds of other projects. Prices at their lowest. Prisms at their finest.

CAT. No.		A	B	C	POSTPAID
721		12mm	8mm	8mm	$ 1.00
2022	Silvered & Coated	12mm	8mm	8mm	2.25
722		17mm	12mm	12mm	1.00
2023	Silvered & Coated	17mm	12mm	12mm	2.75
1363		16mm	20mm	11mm	1.00
226		33mm	23mm	23mm	1.25
2038	Silvered & Coated	33mm	23mm	23mm	2.75
1497		30mm	21mm	21mm	1.25
1759	Coated	38mm	30mm	27mm	2.00
732		41mm	28mm	28mm	1.75
1873	Silvered	41mm	28mm	28mm	2.50
1826		45mm	32mm	32mm	2.00
2024	Silvered & Coated	45mm	32mm	32mm	2.75
228		41mm	40mm	28mm	1.25
1348	Coated	49mm	38mm	35mm	3.00
229		52mm	38mm	38mm	2.00
727	Silvered	52mm	38mm	38mm	2.75
733	Second Grade	54mm	103mm	39mm	2.00
734	Second Grade, Silvered	54mm	103mm	39mm	1.50
1340	Silvered & Coated	54mm	103mm	39mm	4.00
735		54mm	146mm	38mm	1.50
736	Silvered	54mm	146mm	38mm	1.50
728		57mm	40mm	40mm	3.25
725		68mm	48mm	48mm	3.00
726	Silvered	68mm	48mm	48mm	4.00
1836	Coated	96mm	62mm	62mm	17.50

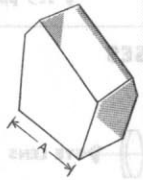


PENTA PRISM

RIGHT ANGLE PRISMS "NOT WAR SURPLUS"

Perfect prisms (not war surplus) with square faces. Surfaces are flat within 1/4 of a wave, angles accurate within five minutes.

CAT No.		A	B	C	POSTPAID
1085		44mm	32mm	32mm	$ 6.75
2025	Coated	44mm	32mm	32mm	8.00
2026	Silvered & Coated	44mm	32mm	32mm	9.50
1178		62mm	44mm	44mm	7.75
2027	Coated	62mm	44mm	44mm	9.00
2051	Silvered & Coated	62mm	44mm	44mm	10.75



PENTA ROOF PRISM

PENTA PRISMS

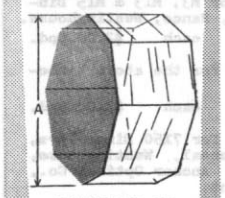
Government cancellation prisms in perfect condition, silvered and really beautiful. The penta is a five sided prism that reflects light rays through an angle of 90 degrees by two reflections. It does not invert or revert the image. Reflecting surfaces are silvered. The arrangement of the two reflecting surfaces are set so that even slight movement of the prism does not effect the true right angle at which light rays are reflected. This feature makes it practical for rangefinders. Placed in front of a camera lens for taking pictures without the subject's knowledge. Many other uses.

CAT. No.	(A) LENGTH	FACE SIZE	POSTPAID
1121	45mm	26mm x 27mm	$ 3.50
1775 Coated	58mm	34mm x 34mm	9.75

PENTA ROOF PRISM

This prism is similar to the penta prism in shape except that this prism has a roof on one of the reflecting surfaces so that it will revert the image. Reflecting surfaces are silvered and aperture faces are coated. (A) Length is 38mm. Aperture size is 28mm.

Catalog #1638 $5.00 postpaid
Catalog #2043 Mounted on 3¼" metal plate 5.75 postpaid



ROTATING OR INTERMITTENT PRISM

ROTATING OR INTERMITTENT PRISMS

We understand that these prisms are used in high quality moving picture projectors. They take the place of a shutter so that a flickerless picture may be projected.

Cat. #1029 8MM Size (A) 15mm (Aperture 5mm x 12mm) $ 5.00 postpaid
Cat. #1030 16MM Size (A) 30mm (Aperture 10mm x 18mm) 10.00 postpaid

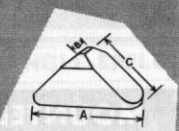
PRISMS

PORRO PRISMS

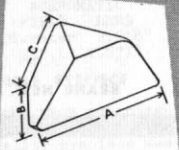
These prisms are 90° - 45° - 45°. Two of them will make an excellent erecting system and revert an image from the objective lens of binocular, monocular or spotting scope. This system shortens the length of the instrument as well as erecting and is required in the finest prism telescopes and binoculars. Condition perfect or near perfect.

CAT No.	ORIGINAL USE			A	B	C	POSTPAID
1870				30mm	13mm	20mm	$ 1.25
1792				30mm	13mm	20mm	1.35
737				31mm	14mm	22mm	1.00
87	6X30	EE		42mm	20mm	31mm	1.00
98	Grooved 6X30	M13	M15	44mm	21mm	30mm	1.00
980*	Grooved 6X30	M13	M15	44mm	21mm	30mm	1.15
1294*	Grooved			46mm	22mm	34mm	1.50
1097				49mm	25mm	35mm	1.50
232				54mm	27mm	38mm	1.50
739*	Grooved 7X50	M16	M17	53mm	25mm	37mm	1.15
1177				70mm	35mm	51mm	4.00
233				91mm	41mm	64mm	4.00

* These items are coated.



PORRO PRISM



PORRO ABBE PRISM

PORRO ABBE PRISMS

A second type of Porro system is the Abbe system, often referred to as a double right angle prism. It consists of a single prism which is 3 prisms in one. Two of them make an erecting system.

CAT No.		A	B	C	POSTPAID
5		16mm	8mm	11mm	$ .25
1069	Silvered	50mm	25mm	38mm	2.00

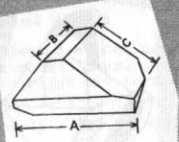


PENTAGON PRISM

PENTAGON PRISM

This prism has the same function as the penta prism. These prisms are perfect or near perfect. They are not silvered.

CAT No. 1035 (A) 29mm (B) 12mm (C) 21mm $1.25 POSTPAID

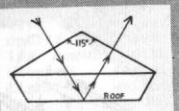


AMICI PRISM

AMICI 90° ROOF ANGLE PRISMS

These Amici Prisms are perfect or near perfect and have corrected roofs. Use them in Elbow type telescopes. Only one is needed to make a comolete erecting system. There will be less light loss and a neater and simpler job for you.

CAT No.		A	B	C	POSTPAID
1823	Coated	34mm	18mm	19mm	$ 2.75
119		41mm	21mm	22mm	2.00
1319	Coated	37mm	20mm	20mm	2.75
1575		93mm	47mm	51mm	25.00



#1351

LARGE AMICI PRISM

The largest Amici Prism we have ever listed. Face size 51mm x 47mm. Length 93mm.

Cat. #1575 $25.00 postpaid

115° AMICI PRISM

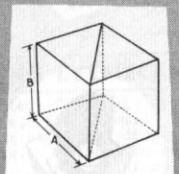
This 115° Amici Prism has a 10mm x 10mm face, 18mm long. Perfect coated prism in Government package.

Cat. #1351 $2.50 postpaid

PRISM BEAMSPLITTERS

Two right angle prisms cemented together to form a cube. They have a 30% reflective aluminum coating. Part of the light entering one face of the prism will go straight through, the balance will be reflected at right angles. Or in reverse, light entering two faces at right angles to each other will exit at the same face. Both images may be seen through the same face. Used in autocollimating devices.

CAT No.	A		B	POSTPAID
1444	8mm		cube	$4.00
1445	12mm		cube	4.75
1446	23mm		cube	5.00
1855	28mm	x	30mm	6.00
1856	31mm	x	40mm	3.75
1857	35mm	x	38mm	7.50



PRISM BEAMSPLITTER

PRISM ERECTING SYSTEMS

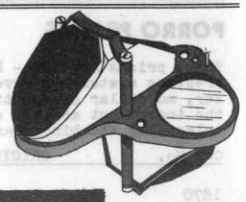
FABULOUS LIMITED STOCK OFFER!

MOUNTED

QUALITY BUILT

BUDGET PRICED

Prism ERECTING SYSTEMS



BRAND NEW

COATED OPTICS

ORIGINAL GOV'T. COST $20.00

STOCK GOING FAST ORDER TODAY

Never before, probably never again will we be able to make this fantastic offer. The perfect and complete erecting system for your spotting scope, telescope or binoculars. System consists of two coated porro prisms securely mounted on shelf. Prisms are grooved to eliminate any ghost images. It is made to order for it's convenience of application. Remember, these erecting systems are brand new and come to you in their original government package. You cannot afford not to buy at this low, low bargain price.

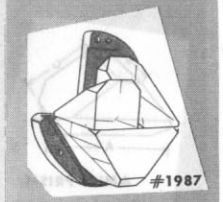
7X50 SIZE: The entrance and exit aperture is 1" and displaces image sideways approximately 37mm. Width is 2-5/8", height 2¾". (Size of 7X50 Prisms is specified under Cat. #739).

LEFT SIDE Cat.#1774 -- RIGHT SIDE Cat.#2012

6X30 SIZE: The entrance aperture is 21mm and the exit aperture is 18mm and displaces image sideways approximately 30mm. Width is 2-1/8" and height 2". (Size of 6X30 Prisms is specified under Catalog #98C).

RIGHT SIDE ONLY Cat. #1892

Only $2.50 each postpaid



#1987

MOUNTED PRISM ASSEMBLY

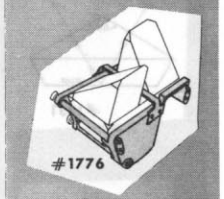
COATED OPTICS — BRAND NEW

Another fine bargain. This prism erecting system consists of one porro prism and two right angle prisms (coated), cemented together and bonded to metal shelf. The image is displaced sideways from right to left 7/8". The entrance and exit faces are 21mm x 21mm. Aperture hole in shelf is 20mm in diameter. Shelf diameter is 2¾".

Catalog #1987 $6.00 postpaid

PRISM ASSEMBLIES

LARGE PRISM ASSEMBLY will make complete erecting system ideally suited for large size binoculars or spotting scopes. Consists of three prisms cemented together. Prism Assembly is 90mm wide and 80mm high. Face size of top prisms (aperture of assembly) is 40mm x 40mm. Another advantage of this type of prism erecting system is that it allows for the interchanging of eyepiece assemblies without complete alteration of the original instrument. This assembly is also more readily adaptable to turret mounted eyepiece systems.



#1776

Catalog #1776	Coated and Mounted	$20.00 postpaid
Catalog #1777	Uncoated and Mounted	17.50 postpaid

NOTE! All above assemblies supplied with sturdy metal bracket that securely holds lower prism of assembly, makes an easy task of mounting the assembly.

UNMOUNTED PRISM ASSEMBLY

Same type as above, this prism assembly is 75mm wide and 71mm high. Face size of top prisms (aperture of assembly) 32x35mm. Unmounted.

Cat. #2129	LEFT	$9.50 postpaid
Cat. #2130	RIGHT	9.50 postpaid

SMALL PRISM ASSEMBLY

Same complete erecting system as above. Aperture size 24mm x 24mm. Total width of assembly is 47mm.

Catalog #1778	Coated	$5.00 postpaid
Catalog #1779	Uncoated	3.50 postpaid



#1645

MOUNTED PRISM ERECTING SYSTEM

This unit is made of brass, contains TWO SMALL PORRO PRISMS. The entrance and exit aperture is 7mm. Diameter of the blackened brass mount is 30mm, thickness 16mm. Ideal for making binocular type instruments; such as binocular microscopes, miniature binoculars and other small compact instruments where you desire to utilize a prism erecting system. This displaces the image by approximately 12mm. Buy two units. They will work just as well right or left.

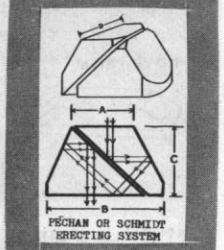
Catalog #1645 $2.50 postpaid

PRISMS

PECHAN OR SCHMIDT ERECTING SYSTEM

This prism system will invert an image without reverting it, or will change image from left to right without inverting, depending upon the way it is mounted. May be used to rotate image in the same manner as a dove prism. Light rays enter and emerge from prism traveling in the same direction (see illustration). There is no displacement of image. One advantage of the system over the dove is that a much larger aperture can be obtained in any given length. This is because the image is reflected five times before emerging from prism system. The assembly has two aluminized and four coated surfaces.

CAT. #2316 UNCOATED (A)1-1/4",(B)2-3/8",(C)1-1/2",(D)1-3/8" $10.00 Ppd
CAT. #1345 COATED (A)1-1/4",(B)2-3/8",(C)1-1/2",(D)1-3/8" 12.50 Ppd
CAT. #1875 COATED (A)1-7/8",(B)3-3/4",(C)2-1/2",(D)2-1/8" 25.00 Ppd



PECHAN OR SCHMIDT ERECTING SYSTEM

MOUNTED RIGHT ANGLE PRISM

Sealed in Government package

23mm x 23mm face. Total length of prism and arm about three inches.
Catalog #1356 $1.75 postpaid

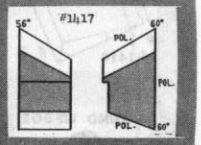
40mm x 28mm face with similar mount. Length of arm and prism 5½".
Catalog #1367 $2.00 postpaid

#1367

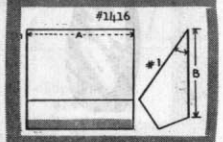


IRREGULAR PRISMS

Top and front view of this prism, indicating three polished surfaces. 26mm in length. Catalog # 1417 $ .75 postpaid



This prism as illustrated with base and two top surfaces polished. Angle #1 is 45°. Other 3 angles are approximately 105° each. 20mm at A, 17mm at B. Catalog # 1416 $ .75 postpaid



Top angle is 90°. Surfaces A & B are not square to each other as in a right angle prism. Base 44mm, height 23mm. All surfaces polished except rear of illustration. Catalog # 1420 $ .75 postpaid



Illustration indicates angles of prism and silvered surface. Length 22mm, height 15mm. Catalog # 1418 $ .75 postpaid

60° PRISM

High quality prism with square faces. Made of extra dense flint. Index of refraction 1.649 - Surfaces flat to 1/4 wave. Angles accurate to 5 minutes. Size of face 29mm x 31mm.

Catalog #1397 $6.75 postpaid



75° PRISM

This prism is 5½" long x 1-3/8" face size. Top angle is 75° - two angles at base 52½°. Use these unsilvered prisms to break up the rays of the sun into the different colors in the spectrum.

Catalog #1400 Silvered 2.00 postpaid

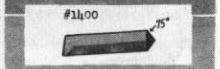


#1379

COATED PRISM

A first quality prism in Government sealed package, has a hard magnesium flouride coating. Size of face is 103mm/long x 38mm wide. Base is 54mm. Brand new, perfect prisms.

Catalog #1340 $4.00 postpaid



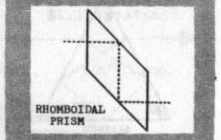


#1340

RHOMBOIDAL PRISMS

Shaped as rectangular block of glass with upper and lower faces cut to the same angle of 45 degrees. In a sense, two right angle prisms made up as one piece. The rhomboidal prism is used when you desire to displace the axis of a beam of light parallel to itself, but not invert or revert the image. This is due to double reflection without reversal of the direction of light. Employed in height finders to shift lines of sight to secure interpupillary distance adjustment. One excellent feature of the rhomboidal prism is that two of them can be mounted in front of a small still camera or movie camera to obtain a split image for stereo-photography.

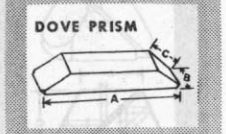
CAT No.	APERTURE	LENGTH	PRICE PPD.
1714	8 x 12mm	22mm	$ 1.25
1371	11 x 12mm	20mm	1.25
1372	11 x 16mm	24mm	1.25
1825	24 x 26mm	52mm	2.25

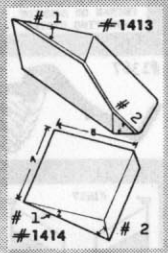


RHOMBOIDAL PRISM

PRISMS

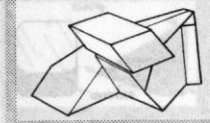
DOVE PRISM

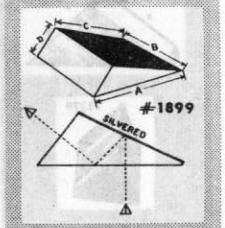


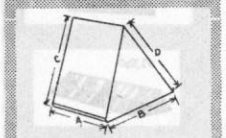


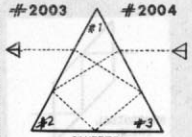
ROUND WEDGE











DOVE PRISMS

Sometimes referred to as a rotating prism, the dove resembles the rhomboidal except the angles of it's ends are opposite to each other. This prism serves an entirely different purpose. Looking through the prism, rotate it about a longitudinal axis, the image will rotate through an angle twice as much as the prism. The image is inverted by single reflection.

CAT No.	A	B	C	POSTPAID
230	49mm	12mm	17mm	$ .75
1204	75mm	18mm	25mm	1.50

PRISM WEDGES

This wedge has three polished surfaces. Angle No. 1 is 22°, angle No. 2 is 45°. Overall length is 31mm.

Catalog #1413 — $ .75 postpaid

Same as the above wedge except that angle No. 1 is 20° and overall length is 38mm.

Catalog #1412 — $ .75 postpaid

This wedge has two polished surfaces. Angle No. 1 is 22° and angle No. 2 is 90°. Size (A) 13mm, (B) 11mm.

Catalog #1414 — $ .75 postpaid

Same as the above wedge except that angle No.1 is 20°. Size (A) 18mm. (B) 13mm.

Catalog #1415 — $ .75 postpaid

ROUND WEDGES

These wedges divert the rays of a beam of light by refraction rather than reflection. Rotation of prism causes a change in the path of light. Used in range finders where the angle of diversion is extremely small. Items marked (*) indicate - Achromatic, consists of Crown and Flint cemented together.

CAT No.	DIAMETER	WEDGE ANGLE	APPROX. DEVIATION	POSTPAID
2031	64mm	43minutes	24 minutes	$2.00
2032*	64mm	23 "	12 "	5.00
2033	64mm	26 "	14 "	3.00
2034*	71mm	15 "	8 "	6.00
2035	71mm	35 "	18 "	3.00
2036	71mm	18 "	10 "	3.00
2117*	35mm	9½ "	5 "	2.00

PRISM ASSORTMENT

A fine collection of five different prisms in this catalog. One each of Catalog numbers 1412, 1415, 1416, 1418 and 1420.

Catalog #1424 — $2.50 postpaid

DEVIATION PRISMS

As illustrated, path of light enters prism and is reflected to exit at a 45 degree angle and does not erect or alter the image but make it appear at 45 degrees from the normal. Aperture 18mm. Silvered surface indicated. Made of Nd. 1.720 V 29.2 glass.

(A) 39mm (B) 34mm (C) 30mm (D) 18mm
Catalog #1899 — $7.50 postpaid

Made of Nd. 1.689 V 30.9 glass. Angle #1 56°, #2 and #3 62°. Made to be used in a straight line. Originally used in instruments at 30mm aperture. Illustration shows path of light and only inverts the image without altering it's position sideways. Surfaces flat within 1/4 wave. Silvered surface indicated.

(A) 47mm (B) 34mm (C) 50mm (D) 50mm
Catalog #2003 — $12.50 postpaid

Made of Nd. 1.5795 V41. glass. Larger version of above prism. Aperture size originally used at 50mm. Angle #1 47°, #2 and #3 62½°.

(A) 67mm (B) 71mm (C) 90mm (D) 90mm
Catalog #2004 — $22.50 postpaid

NEW ITEM

Have You Seen Our "NEW" **ZOOM BINOCULAR**

(Listed on another page)

RETICLES

MOUNTED CROSSLINE RETICLE LENSES



Crossline Plano-convex lens 26mm in diameter, 65mm focal length; mounted in a brass cell which allows a 19mm aperture. Cell has 30mm O. D.

Cat. #1739 — $1.25 postpaid

Lens as above 29mm in diameter, 75mm focal length; mounted in slotted brass friction cell. Will fit 1-1/4" I.D. tubing without threads.



Cat. #1098 — $1.25 postpaid

$1.50 SPECIAL $1.50

RETICLE ASSORTMENT

Five assorted military type reticles ranging in size from ¼" to 2" in diameter. Original government cost approximately $50.00. Another fine JAEGERS bargain.

Cat. #54 — $1.50 postpaid



MOUNTED OPTICAL PEEP SIGHT

Here is an Optical Peep Sight which has been used as an aiming device. When in use, the image appears on a ring type bulls-eye reticle (illustrated) and there is no parallax for any distance. This principle is now being used by a shotgun manufacturer. Diameter 37mm, weight 1½ ounces.

Cat. #866 — $1.00 Postpaid

Assorted RETICLES

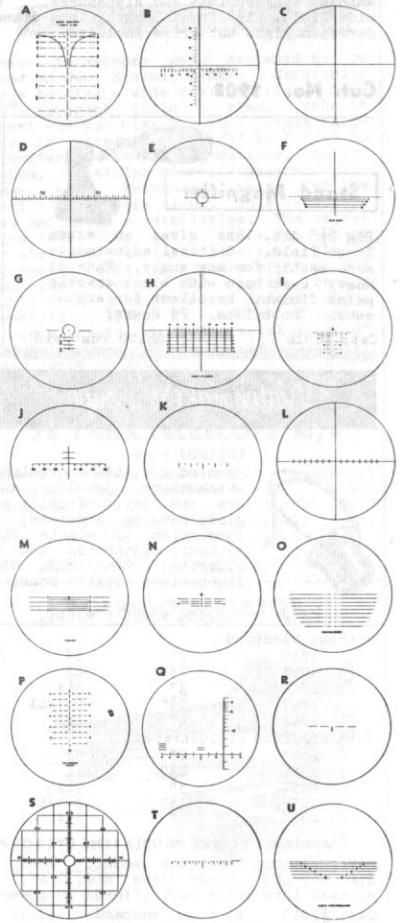
Here is a fine assortment of war surplus reticles of various patterns and uses. Basically, a reticle is a glass disk with an engraved, etched or photographed pattern. They may be used for riflescopes as a centering device, to estimate distances, for astronomical finder telescopes, microscopes, transits, etc.

STYLE	CAT No.	DIAMETER	THICKNESS	PRICE
A	1283	10mm	1mm	$ .50
B	1267	13mm	4mm	1.00
C	1264	13mm	3mm	2.00
B	1286	16mm	3mm	1.00
D	1262	16mm	3mm	2.00
E	1261	18mm	2mm	1.00
D	1263	18mm	2mm	2.00
F	1269	18mm	1mm	.25
G	1282 M	18mm	1mm	.50
Q	2187	19mm	1mm	.50
Q	1273	21mm	1mm	.50
H	1278	21mm	2mm	1.00
K	1268	21mm	2mm	.50
I	1279 M	23mm	2mm	.50
Q	1274	26mm	2mm	.50
M	1277	27mm	3mm	.50
I	1281	27mm	3mm	.50
J	1260	27mm	1mm	1.00
U	1284 M	27mm	3mm	.50
N	1272	28mm	2mm	.50
O	1265	28mm	2mm	.25
P	1276	28mm	2mm	.25
G	1270	28mm	2mm	.50
L	1266 M	29mm	3mm	1.75
L	1266A M*	29mm	3mm	1.75
C	1713	29mm	2mm	.50
R	1280	30mm	3mm	.50
G	1271	31mm	3mm	.50
S	1058	31mm	2mm	2.00
T	1275	50mm	2mm	1.00

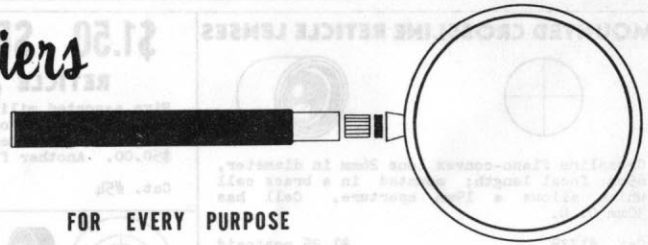
M - Mounted.

* Without graduations

All prices above POSTPAID



Magnifiers



FOR EVERY PURPOSE

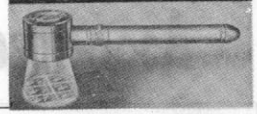
The "FIREFLY"



The popular and practical 2-Power "Firefly Reader", both illuminates and magnifies the object being viewed. Handy helper for the night driver for reading road maps. Easy to use on the telephone table for reading phone numbers and dialing in the dark. 3⅜" lens diameter, 5" working distance. Standard pen light batteries included.

Cat. No. 1907 **$6.00 postpaid**

The "RADIANT"



Good news for the Stamp Collector. "The Radiant Magnifier" makes for easy viewing of fine details. Excellent for examining fingerprints and signatures. 6-Power, relatively wide field. 1¼" focal length, lens diameter 1-7/16". Standard pen light batteries included.

Cat. No. 1908 **$6.00 postpaid**

Stand Magnifier



Big 2½" dia. lens gives an extra large field. Critical adjustments made easily for any angle. Made of heavy cast base with black crackle paint finish. Excellent for engineers or hobbyists. 2½ Power.

Cat. #1914 $4.00 Postpaid

The "FLASH"



Illuminated magnifier, workable instrument for various types of close inspection work. Place directly over the the subject being observed. Takes ordinary flashlight batteries. (not included.) Made in Japan. Enamel and chrome finish.

Cat. #1909	7x30 Ill.	$1.95 Postpaid
Cat. #1913	5x50	3.95 Postpaid
Cat. #2318	10x24	2.25 Postpaid

Watchmaker's Loupe



Favored for it's convenience by watchmakers, jewelers, engravers, etc. Scientifically ground glass permits accurate, close inspection of minute articles without distortion and color blurring. Lens dia. 25mm in lightweight plastic mounting.

CAT#	WORKING FOCUS	MAGNI.	PRICE
Without Headband			
1840	2"	5X	$ .70
1841	2½"	4X	.70
1842	3"	3½X	.65
1843	3½"	2-3/4X	.65
1844	4"	2½X	.65
With Headband (Illustrated)			
2075	2"	5X	1.10
2076	2½"	4X	1.10
2077	3"	3½X	1.05
2078	3½"	2-3/4X	1.05
2079	4"	2½X	1.05

VARIABLE POWER DOUBLE LENS EYE LOUPE

Black plastic two-piece mount. Lower lens dia. 1", 4X. Upper lens dia. 3/4". When screwed into lower part affords 10 power.

Cat. #1845 Without Headband $1.35 ppd.
Cat. #2080 With Headband 1.70 ppd.

Hand Sighting Level



Praised by professionals and easy to use for home owners and engineering students. This pocket designed surveying instrument will give you a level line of sight for laying out gardens, patios, fences, drives, new construction, etc. Works like a telescope and takes the place of expensive surveying equipment. Calibrated at the factory and accurate within 1/3 of 1 degree. When images of bubble, reticle horizontal line and object are coincident, object is level with eye of observer. May be used to measure differences in elevation between two points.

CAT. NO. 1910 **$2.50 POSTPAID**

Magnifiers

Mercury ROUND READERS



An assortment of precision ground, optically clear imported lenses safely seated below rim level for minimizing scratching and abuse. Buffed aluminum frame.

Cat. No.	Diameter	Focus	Diopter	Price
#1927	2"	4-5/16"	8	$1.35
#1928	2⅜"	5-7/8"	6½	1.65
#1929	3"	7-1/8"	5⅜	2.15
#1930	3⅜"	7-7/8"	5	2.65
#1931	4"	9-7/8"	4	3.25
#1932	4½"	11-3/4"	3½	3.75

All above orders Postpaid.

Rectangular Reader



Highly polished chromium plated brass frame, ebonite finished handle: 2" x 4" lens, 8" focus.

Chrome Plated

Cat. #1933

$3.25 Postpaid

"SECONDS" "SECONDS" UNMOUNTED MAGNIFYING LENSES

RECTANGULAR LENSES

Manufacturers' second, having slight scratches and bubbles. Made for reading newspaper columns and adaptable for many other purposes.

Cat. #1046	1⅛"	x	2¼"	F.L.4"	$ .50
Cat. #1013	1⅜"	x	3"	F.L.7"	.50
Cat. #1014	1-3/4"	x	3⅜"	F.L.8"	.65
Cat. # 846	2"	x	4"	F.L.7⅛"	1.00

ROUND DOUBLE CONVEX LENSES

Can be used for magnifiers, eyepieces, eye loupes, linen testers, condensing lenses, etc. Most of these lenses have chips, scratches and bubbles, although some are perfect. It is impossible at these prices to pick them out.

Catalog Number	Diameter	F. L.	Price Postpaid
111	1"	1-3/4"	$ .50
110	1"	2-3/4"	.50
895	1-3/4"	3⅛"	.15
894	1-3/4"	4"	.15
896	2"	5"	.15
897	2⅛"	6"	.30
898	2⅛"	4"	.35
900	3"	4⅛"	.60
901	3⅛"	8"	.40
1677	4"	6"	1.00

MAGNI-FOCUSER

LIGHTWEIGHT

3 OUNCES



The Magni-Focuser's prismatic lenses ground from the finest optical glass reduce eye strain and helps speed up work for all professions and trades. Fits anyone, may be worn over eye-glasses. Binocular design gives third-dimensional vision. Made of durable plastic with adjustable headband.

Cat. #1915 Magni. 1-3/4 times @ 14" $10.50
Cat. #1916 Magni. 2¼ times @ 10" 10.50
Cat. #1917 Magni. 2-3/4 times @ 8" 10.50
Cat. #1918 Magni. 3⅛ times @ 4" 12.50

The following are the same as those listed above but have an auxiliary flip type lens riveted to the frame for the right side which increases the power in the right eye only

CAT.	MAGNI.	MAGNI WITH AUX LENS	PRICE
#1919	2-1/4X	4-3/4X	$15.00
#1920	2-3/4X	5-1/4X	15.00

All above orders Postpaid.

Linen Tester



Imported. An aplanatic (double lens) magnifier of brass finished in optical black. Genuine pigskin case. 5X, 1" counter with 1-7/8 focal length.

Cat. #1921 $3.50 Postpaid

Aluminum linen tester 8.5X. Focal length 1-3/16, opening ⅛". Individually boxed.

Cat. #1922 $ .80 Postpaid

Highly Corrected Magnifiers



Compact highly corrected imported magnifiers with achromatic lens and chromium plated brass cases.

Cat. No.	Description	Diameter	Focus	Power	Price
1923	Triplet	⅜"	13/16"	20X	$4.00
1924	Triplet	½"	1"	10X	3.50
1925	Triplet, wide field	5/8"	1"	10X	7.00
1926	Doublet	½"	1"	10X	1.25

All above orders Postpaid.

MISCELLANEOUS

ARMY AIRFORCE DRIFT METER



May be dismantled to obtain the following parts:

Two Mounted Achromats 1-3/8" Dia.x3-3/8" EFL.
Two Mounted Field Lens 2" Dia. x 3-3/8" EFL.

This mounted field lens consists of two elements; a double convex lens 2" Dia. x 7" EFL and a Plano convex lens 2" Dia. x 6-3/4" EFL. This lens has etched lined on the Plano side.

One First Surface Mirror 1-3/4" x 2-15/16" x 1/8" thick.

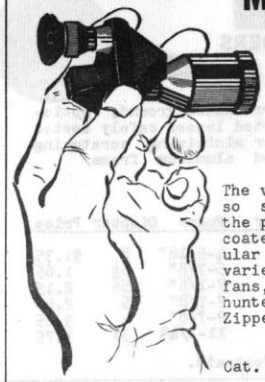
Elliptical Second Surface Mirror 1-1/2" x 2-3/16" thick.

One Ground Glass 4" Dia. x 1/16" thick.

Computer converts knots to miles per hour. Pantograph holds pencil, has 4½" to 1" ratio.

Cat. #1306 $5.50 postpaid

VEST POCKET MONOCULAR TINY 10x

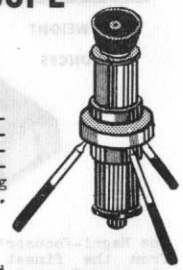


The vestpocket monocular so small it fits within the palm of your hand. A coated Achromatic monocular for individuals of varied interests, sports fans, target shooters, hunters,and bird lovers. Zipper pouch to carry.

Cat. #2307 $12.75 ppd.

MICROSCOPE

POCKET PORTABLE



A geologist's pocket microscope. Variable powers engraved on tube for easy focusing.Tripods legs are removable for compact packing with a black Zipper Pouch.

20x-70x

CAT.#2308 $9.75 Postpaid

RACK & PINION FOCUSING EYEPIECE

STANDARD KELLNER TYPE

ALL COATED LENSES

WAR SURPLUS



Precision focusing with milled knob, will lock firmly in place by thumb screw in back of mount. Length of unit open is 7", closed 4⅛". Outside dia. of focusing tube is 1.917". Focusing tube has a travel of 2⅛". Focal length 35mm. Threaded eyepiece tube can be easily removed by screwing out of main unit. Focusing tube has an inside diameter of 1-3/8" and should you desire to use standard 1¼" eyepieces, a bushing would have to be made. Mount would then accommodate all eyepieces. Mount, focusing tube and knobs constructed of steel. Rubber eyeshield. Weight is 3 lbs.

Cat. #1961 $18.50 postpaid

GUNSIGHT LIGHT SOURCE



Contains Mangin concave mirror aluminized on back surface. Dia. 63mm, f.l. 95mm, special bulb - Mazda # 844, 28 volts, double contact base approximately 1-1/8" round, all silvered except for a 7/8" dia. spot in front of ground glass for diffusing light. Bulb is included (75¢ value). To change bulb, press buttons on side to separate. Projects a center dot and circle out into space. Has a toggle switch and about 2' of heavy lead-in wire. Housing made of black crackle finished aluminum. Height 6", width 4" and weight is 1 lb.

Cat. #1956 $1.00 postpaid
REPLACEMENT BULBS Cat. #1957 .75 postpaid

DRIFT METER



TYPE B-3

War surplus 1 power Drift Meter. Manufactured by The Bendix Aviation Corporation and used to measure the amount of drift caused by side winds on aircraft. Also used for observation behind a protective wall. Erect image. Rotating 45 degree prism at bottom of tube. Length 46", width 11", weight about 20 lbs.

Cat. #2047 $65.00 F.O.B. Lynbrook, N. Y.

IMPORTED Microscopes

FOR THE BEGINNER



#1581

Precision built three-turret Microscope for students, schools, home laboratories and amateurs. Metal construction, fine micro adjustment and adjustable plano substage mirror, gives clear and sharp image, square stage, inclinable up to 90°, 3 objectives for selecting 100-200-300X, complete in wooden carrying case. With illuminator, no battery. One sample slide included. Fine value.

Catalog #1581 $9.75 postpaid

Similar to Catalog # 1581 but has two eyepieces giving a wider range of powers. 50X - 100X - 150X - 200X - 300X and 500X. Complete with wooden carrying case.

Catalog #1582 $11.50 postpaid



#1582

STUDENT MICROSCOPES

50X - 900X STANDARD MICROSCOPE

A high dry system Microscope of precision quality with triple turret revolving nosepiece - three achromatic objectives, two Huygenian eyepieces. Range of magnification 50X - 900X. Fixed tube 160mm. Rack and pinion motion coarse adjustment. Fixed square stage and rotating diaphragm with 5 holes. Plane and concave mirror. Height is 10½" Complete with wooden carrying cabinet.

STANDARD SIZE EYEPIECES AND OBJECTIVES

3 Achromatic Objectives: 5X - 10X & 60X
2 Huygenian Eyepieces: 10X & 15X

Catalog #1584 (not illustrated) $47.50 Ppd.

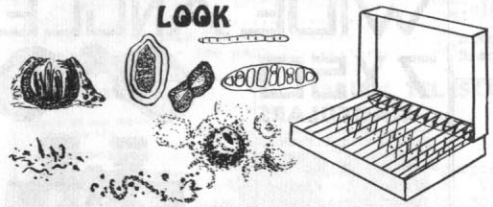
100X - 800X MICROSCOPE



Precision high grade microscope suitable for a variety of laboratory work, for botany, etc. Of utmost efficiency, solid metal construction, triple revolving nosepiece with 3 objective lenses 10X - 20X and 40X. 2 Eyepieces 10X and 20X, giving a magnification of 100X, 200X, 400X and 800X, square stage inclinable up to 90°. Spiral rack and pinion motion coarse adjustment. Fixed square stage with rotating diaphragm (five holes). Plane and concave mirror. Complete with wooden case.

Cat. #1583 with 6 prepared slides $20.00 ppd.

LOOK



ADVANCED STUDENTS



Monocular type Microscope of excellent quality and precision workmanship. Triple revolving nosepiece with three achromatic objectives. Three Huygenian eyepieces Range of Magnification 25X - 900X. Fixed tube 160mm rack and pinion motion coarse and fine adjustment on both sides. Fixed square stage with condenser lens and rotating diaphragm. Plane and concave mirror. Is 11½" in height. Complete with wooden carrying cabinet.

STANDARD SIZE EYEPIECES AND OBJECTIVES

3 Achromatic Objectives: 5X - 10X and 60X
3 Huygenian Eyepieces: 5X - 10X and 15X

Catalog #1585 $69.75 postpaid

PREPARED SLIDES

These slides are perfect specimens expertly prepared and permanently preserved under glass. Supplied in boxes containing 12 slides each . 3" X 1" .

Cat No	Type	Price ppd
1586	Organs of Insects	$2.00
1587	Animal parts	2.50
1569	Pollen & Spores	3.00
2331	Micro-Organisms	2.50
2332	Textile	2.00
2333	Mould and Yeast	2.75
2334	Plant	2.00
1588	Unprepared Slides	1.50

#1588 is an outfit for preparing your own microscopic slides. A value to anyone . It consists of a box containing 12 plain unprepared slides, 12 cover glasses and balsam.

HUNTING WITH THE MICROSCOPE



Explains in simple terms how to select and use the microscope. 132 pages.

Cat. #1589 $ .75 Ppd.

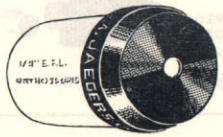
NEW!

Just In!

Late Additions of Optical Bargains

Here at Last!

6mm ORTHOSCOPIC EYEPIECE

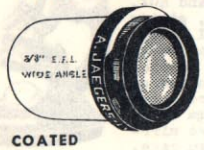


COATED

Widely prefered for high-powered telescopes in which an eyepiece of a very short focal length is required. Excels all others for its freedom from distortion. Offers a flat, sharp, wide - field, color-corrected, excellent definition. All coated optics. Mounted in black anodized aluminum with chrome-plated tube. Finest quality eyepiece.

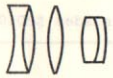
CAT. #2I92 Uncoated $I3.25 postpaid
CAT. #2302 Coated $I4.00 postpaid

16mm WIDE-ANGLE ERFLE EYEPIECE



This is It!

COATED



A breathtaking extra wide - angle eyepiece that truly offers comfortable crystal-clear astronomical viewing. Has a 70 degree apparent field of view. 16mm (5/8") f. l., coated five element achromatic Erfle Eyepiece. Great bargain.

CAT. #I25I Uncoated $I2.50 postpaid
CAT. #I252 Coated $I3.25 postpaid

Sensational NEW! ZOOM BINOCULARS



7x-12x

Zooming ahead with fingertip control; this very practical binocular gives you six powers from seven to twelve, by use of adjustable eyecups. ZOOM binocular lenses operate exactly the same as Zoom Television Lenses or your new type camera lenses. Big 40MM objective lens. Of course all lenses and prisms are coated. Complete with carrying case and straps. Price plus 10% Federal Tax.

Catalog #2303 $39.75 Postpaid

HERE IT IS! MAXIMUM POWER



20 x 60

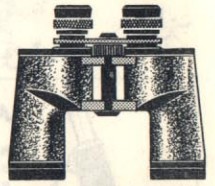
Here is a binocular that is designed for distance, has large coated 60mm diameter objective lenses. Gives a 50% brighter image than a 20 x 50 binocular. Now, you can enjoy a cleaner, clearer, more distinctive view. Field of view 157 feet at a 1000 yards, weight 52oz. Zeiss type binocular has popular center style focus. *Plus 10% Fed. Excise Tax.

Cat. #2317 $53.50*Postpaid

WIDE ANGLE 7X50 BINOCULARS







A Binocular which ranks far above any other in the 7x50 class. The finest of optical design has gone into this excellent EXTRA WIDE-ANGLE BINOCULAR. Perfect for the sportsman. It's tremendous light gathering power and 7mm exit pupil makes for a brilliant image and works wonders under poorly lit conditions. You see so much more with it's 530 foot wide-field of view at 1,000 yards. Center focusing, coated optics, achromatic objectives. Each and every one of these sturdily constructed Japanese-made binoculars are checked and collimated by our staff of experts before shipping. Weight 2 lbs. 4 oz., height 7", width 8". Complete with velvet lined carrying case, neck strap and dust caps. *Price plus 10% Federal Tax.

Cat. #2191 *$42.50 postpaid

FABULOUS NEWS!

FOR AMATEURS AND PROFESSIONALS ALIKE

You're really missing something of great importance if you have not seen the latest Fawcett Book, "AMATEUR ASTRONOMY HANDBOOK". An excellent how-to-do-it book cramed full of valuable information and instructions. Featured are many interesting instruments built from our vast stock-optics and parts. We strongly reccomend " AMATEUR ASTRONOMY HANDBOOK", a Fawcett How-To-Book, 75¢. Now on sale at your local magazine stand. We have taken just a few of the wonderful projects and listed them below.

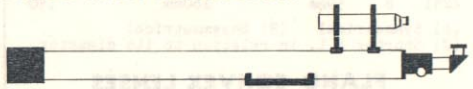
THREE-INCH REFRACTOR — $57

Coated Achromatic Objective 48" F.L. (83 mm clear aperture; mounted in cell)	$32.00
Coated Kellner Eyepiece 11/16" F.L. (extra eyepieces for higher and lower power and star diagonal optional)	5.25
Rack and Pinion for 3.281" Aluminum Tubing	12.95
48" Tubing 3.281" dia.	6.75

(A variety of tripods and mounts are available)

(Above prices are quoted by A. Jaegers, 691 Merrick Road, Lynbrook, New York)

THREE INCH REFRACTOR

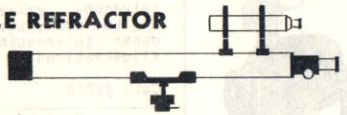


A fine low cost telescope capable of high resolution and superb light gathering power. Excellent for lunar and planetary viewing.

Coated Achromatic Objective - 48" f. l.	Cat. #1471	$32.00 ppd.
Coated Kellner Eyepiece - 1-1/16" f. l.	Cat. #1834	5.25 ppd.
Rack & Pinion Eyepiece Mount	Cat. #1495	12.95 ppd.
48" Aluminum Tubing (3.281" I.D.)	Cat. #1162	6.75 ppd.
R.A. Prism Star Diagonal (optional)	Cat. #2096	12.00 ppd.
Equatorial Mount and Tripod (optional).	Cat. #2083	27.50*

*F.O.B. Lynbrook, N. Y.

PORTABLE REFRACTOR



Best bargain yet. Designed specifically for genuine portability and astronomical observation quality. Lightweight, easy to carry when traveling. Low price even includes the wide-field finder scope.

Coated Achromatic Objective - 30" f. l.	Cat. #1431	$12.50 ppd.
Lens Cell for above Objective	Cat. #1477	3.50 ppd.
Coated Kellner Eyepiece - 22mm f. l.	Cat. #1212	6.75 ppd.
Rack & Pinion Eyepiece Mount	Cat. #1494	12.95 ppd.
27" Aluminum Tubing (2.125" I. D.)	Cat. #1102	3.60 ppd.
7X Wide-Field Finder	Cat. #2193	9.75 ppd.
Pair of Ring Mounts for Finder	Cat. #1963	3.95 ppd.
Tripod (optional - see page 3)	Cat. #1954	8.95 ppd.

PORTABLE REFRACTOR — $53

Coated 54 mm Achromatic Objective 30" F.L.	$12.50
Lens Cell For Above	3.50
Coated 22 mm F.L. Kellner Eyepiece	6.75
Rack and Pinion Eyepiece Focusing Unit to fit 2¼" i.d. Tubing	12.95
27" Aluminum Tubing 2¼" I.d. (360	
Aluminum Black Anodized 7-power Wide-Field Finder with Achromatic Objective	9.75
Pair of Ring Mounts for Finder	3.95

(An optional altazimuth tripod head is available at $8.95)

(Above prices are quoted by A. Jaegers, 691 Merrick Road, Lynbrook, New York)

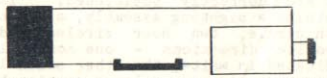
PRISM TELESCOPE — $47

Coated 80 mm Achromatic Objective 19.5" F.L.	$28.00
Cell For Objective	6.50
Coated Symmetrical Eyepiece ¾" F.L.	6.75
Coated Prism Erecting System	2.50
24" Aluminum Tubing 3.281" i.d.	3.50

(A variety of tripods are available)

(Above prices are quoted by A. Jaegers, 691 Merrick Road, Lynbrook, New York)

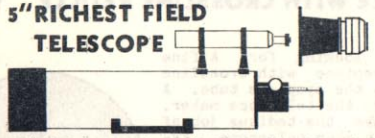
PRISM TELESCOPE



An economical all-purpose prismatic telescope that can perform a varity of functions. Upright image for terrestrial use, bird-watching, target spotting and long-distance photography.

Coated Achromatic Objective 19.5" f. l.	Cat. #1158	$28.00 ppd.
Lens Cell for above Objective	Cat. #2290	6.50 ppd.
Coated Symmetrical Eyepiece 3/4" f. l.	Cat. #1210	6.75 ppd.
Coated Prism Erecting System	Cat. #1774	2.50 ppd.
24" Aluminum Tubing (3.281" I. D.)	Cat. #1160	3.50 ppd.

5" RICHEST FIELD TELESCOPE



Finest "Richest Field Telescope" ever offered. The combination of optical elements in this instrument are unsurpassed. Contrast of tones, textures and color are exceptional.

Coated Achromatic Objective 24-3/4" f.l.	Cat. #1475	$85.00 ppd.
Lens Cell for above Objective	Cat. #1761	22.50 ppd.
Coated Wide-Angle Erfle Eyepiece 1½"f.l.	Cat. #1405	12.50 ppd.
Eyepiece Tube Adaptor (for above)	Cat. #2291	7.50 ppd.
Rack & Pinion Eyepiece Mount	Cat. #1495	12.95 ppd.
Adaptor Plate for R & P or Tube Adaptor.	Cat. #2274	10.50 ppd.
2' Aluminum Tubing (5.000" O. D.)	Cat. #1511	4.50*
Heavy Duty Equatorial Mount (optional)	Cat. #2292	34.50*
Heavy Duty Wood Tripod (optional)	Cat. #1953	18.75*

*F.O.B. Lynbrook, N. Y.

RICHEST FIELD TELESCOPE — $155

Coated 5" Achromatic Objective 24¾" F.L.	$85.00
Cell (for above lens)	22.50
Coated 1½" F.L. Wide Angle Erfle Eyepiece	12.50
Eyepiece Tube Adaptor (for above)	7.50
Rack and Pinion Eyepiece Mount (Optional but required for standard 1¼" dia. eyepieces)	12.95
Adaptor Plate for Rack and Pinion	10.50
Aluminum Tubing 2 ft. long, 5" o.d.	4.50

(Above prices are quoted by A. Jaegers, 691 Merrick Road, Lynbrook, New York)

DOUBLE CONVEX LENSES

CAT.#		DIAMETER	FOCAL LENGTH	PPD.
2231	B	23mm	28mm	$ .50
2138	A	29mm	34mm	.75
2246	A	30mm	34mm	.75
2245	A	32mm	34mm	.75
2248	C	47mm	40mm	2.00
2235	A	38mm	45mm	.90
2247	C	54mm	46mm	2.00
2238	B	27mm	47mm	.50
2250	C	54mm	48mm	2.00
2249	C	56mm	48mm	2.00
2254	C	58mm	56mm	2.00
2237	B	34mm	59mm	.35
2241	B	33mm	70mm	.30
2252	B	56mm	90mm	1.00
2234	B	43mm	143mm	.30
2251	B	59mm	160mm	.50

(A) Symmetrical (B) Unsymmetrical
(C) Shorter F.L. in relation to its diameter.

PLANO CONVEX LENSES

CAT.#	DIAMETER	FOCAL LENGTH	PPD.
2227	34mm	47mm	$ .50
2229 *	35mm	47mm	.50
2265	25mm	84mm	.25
2223 Coated	32mm	22 inches	1.00
2224	36mm	33 inches	1.25

* Not Centered.

ASTRO COMPASS



This war surplus instrument will make an excellent finder for celestial or terrestrial objects. It will easily and quickly determine positions of the stars, the sun, the moon, the planets, to steer a course, etc. FOR EXAMPLE: At top of instrument is the sighting assembly and declination indicator. A star or terrestrial object is located by looking at the same time, through and over the lens, and when the white lines and the object can be clearly seen at the same time, you are correctly positioned. Instrument contains a sighting assembly, a rotating azimuth circle, two hour circles graduated in opposite directions - one north latitudes indicated in white, the other south latitudes indicated in red. Lower section has cross levels and adjusting screws. Packed in their original metal container with suitcase type lock and carrying strap. Instrument stands 8" high, 4" at widest point, weight 4½ lbs.

Cat. #2276 $12.50 postpaid

POCKET SCOPES



50X MICROSCOPE

Suitable for close inspection work in any trade i.e,, examining hi-fi needles. Large size performance from a small package, 4mm field of vision, 4-1/2" long, weighs one ounce.

Cat. #2314 $2.70 postpaid



60X MICRO 8X TELESCOPE COMBO

60x microscope and 8x telescope in one dual-purpose pocket piece with a pen-clip. 5"long,light as a feather, 2 oz. To accomplish this magic just unscrew small end piece and draw out focus tube.What could be easier?Work and fun, 2 in 1.

Cat. 2319 $4.50 postpaid

ASTRONOMY made SIMPLE

MEIR H. DEGANI, SC. D.

Answers, by text and picture, by map and chart, all questions concerning the WHY and HOW of the skies. You will learn to name, locate, identify, and understand the stars, the constellations, the planets and the galaxies. Written especially as a self-study and reference book, this book contains -- Stars with and without a telescope, the nature of stars and interstellar space, telescopes and their uses, how to build your own telescope, galaxies, the solar system, earth and the moon, planets, the universe, and many other interesting features with over 250 illustrations. 189 pages.

Cat. #2218 $1.00 postpaid

MOUNTED FOCUSING EYEPIECE



COATED



WAR SURPLUS

This mounted focusing eyepiece is of the Plossl type with a 38mm focal length. Contains two coated achromats 30mm in diameter. Designed for flatness of field and sharpness right up to edge of field. Focusing with knurled ring and diopter scale. Eyepiece is mounted on metal plate 2" x 3" with 4 holes for screws. You'll find this plate convenient and adaptable for mounting.

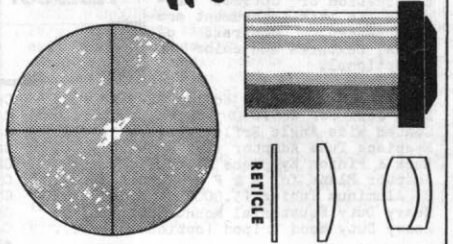
Cat. #2120 $12.50 postpaid

EYEPIECE WITH CROSSLINE RETICLE

Wow!

ALL COATED OPTICS

Just what you've been looking for! A fine mounted Kellner type eyepiece with crossline reticle set right into the eyepiece tube. A tremendous advantage for the telescope maker. No longer will you have the tedious job of positioning a reticle in your telescope. Excellent for both terrestrial and astronomical use. When viewing the heavens, you can pinpoint a faint star and identify it for your friends. You locate it on the crossline and others can see it without searching. Standard 1¼" eyepiece with 27mm focal length. What will they think of next?



Cat. #2202 $7.75 postpaid

MISCELLANEOUS

●●●ARMY PERISCOPE●●●

Sensational Offer

ORIGINAL GOV'T. COST $1,200.00

YOURS FOR ONLY

$18.00 ppd.



Once again JAEGERS comes through with another tremendous optical bargain. Imagine, this $1200,00 Army Tank Periscope contains two Optical systems, one power and six power which have many lenses and prisms. All coated optics.

EASILY DISASSEMBLED, YOU GET --

A wide-angle Erfle Eyepiece with a full 68 field and 1¼" focal length. A 38mm diameter collimator lens 131mm focal length. A mounted objective lens 189mm focal length. A prism cluster containing 2 light flint glass right-angle prisms, 2 silvered tank prisms and reticles. Over-all length is 14", 7" wide, 2½" in depth, weight 11½ lbs. Comes to you in original government package.

Cat. #2050 $18.00 postpaid

VARIABLE POCKET MICROSCOPE

20X 40X 60X



Compact pocket size microscope with powers varying from 20X, 40X to 60X. Easy adjustments with engraved sliding tube. Knurled ring near objective for fine focusing. Field of view 20X - 2.8mm, 40X - 2.4mm, 60X - 2.1mm and length is 5-3/8".

Cat. #2182 $3.95 postpaid

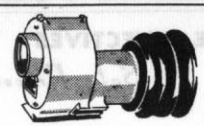
REFLEX GUN SIGHT

MK 18



This Gun Sight has twin optical systems which project an image of a reticle into the line of sight. One of the reticles has a small cross in the center whereas the other has a 6 pointed star. Object is to superimpose the small cross within the center of the star. Besides the two optical systems it also contains a gyro-unit. Is 6⅛" long, 5¼" wide and 7-3/4" high, weight is 8 pounds.

Cat. #2048 $17.50 postpaid

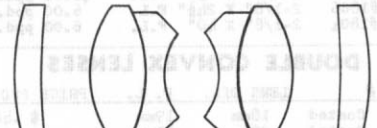


3 POWER TELESCOPE

Compact 3 power war surplus telescope. Has a unique mirror erecting system and a dovetail slot 1-1/8" to secure to weapon. Field of view 11° 30'. Reticle has pattern which represents the desired deflection and range. May be illuminated for night operation. Length with rubber eyeshield 5". Height 3". Weight about 1½ lbs.

Cat. #1958 $6.50 postpaid

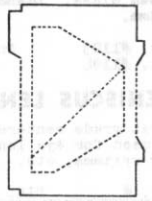
MOUNTED LENS ERECTING SYSTEM



Mounted Lens Erecting System EFL 80mm. System contains two cemented negative achromats 36mm in diameter and two meniscus lenses 36mm in diameter and 79mm focal length. All coated optics. Mounted in a blackened brass tube 1-1/2" in diameter and 3-3/8" long.

Cat. #2116 $7.50 postpaid

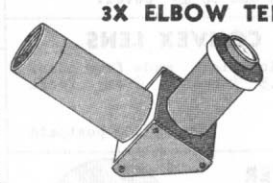
MOUNTED PECHAN ERECTING SYSTEM



The Pechan Erecting System inverts the image without reverting it, nor will it change the image from left to right without reverting. Housed in steel mounting 2" in diameter and 1-11/32" long. Has a 19mm entrance aperture and 21mm exit aperture. All coated surfaces. Although the pechan system functions basically the same as the dove prism, the pechan has the advantage of taking up less space in your instrument.

Cat. #2122 $10.50 postpaid

3X ELBOW TELESCOPE





This small compact lightweight Elbow Telescope contains an Amici erecting system. It has a wide-angle Kellner type eyepiece which covers a large field. It is of the fixed focus type and has a crossline reticle. Telescope is 4" long and 3" high, 1-3/8" in width, weight is only 7½ ounces. Slightly used war surplus scope, in good operating condition.

Cat. #1985 $15.00 postpaid

BIG TELESCOPE OBJECTIVES

Coated *Sale Priced*



2 1/8" Dia.

These lenses are of the same high quality as the objectives on our "BIG LENSES" list except they are seconds, slight edge chips or small scratches which will not effect their performance in any way. All lenses coated, tested and guaranteed.

Cat. #1801	2-1/8" X 15"	F.L.	$6.00 ppd.
Cat. #1806	2-1/8" X 24⅜"	F.L.	6.00 ppd.
Cat. #1804	2-1/8" X 40"	F.L.	6.00 ppd.

DOUBLE CONVEX LENSES

CAT. #		LENS DIA.	F. L.	PRICE PPD.
1984	Coated	18mm	19mm	$ .40
1998	Coated	33mm	60mm	.60

SIMPLE NEGATIVE LENSES

CAT. #	LENS DIA.	F. L.	PRICE PPD.
1981	31mm	-22mm	$ .60
1983	30mm	-24mm	.50
2009	37mm	-42	.40

MENISCUS LENS

Precision centered lens made of Optical Crown Glass. Diameter 89mm; focal length is 263mm.

Cat. #1193	Uncoated	$3.00 postpaid
Cat. #1194	Coated	4.00 postpaid

MENISCUS LENSES



First grade centered lenses. Originally used for eye lenses, parts of erecting systems, etc.

CAT. #		DIA.	FOCAL LENGTH	PRICE PPD.
1814	Coated	32mm	67mm	$ .50
1813	Coated	42mm	85mm	.50
1816*	Coated	44mm	115mm	.50

* Thick lens, approximately 16mm. Has 35mm aperture on one side due to 45° bevel.

DOUBLE CONVEX LENS

This is a precision lens made from glass BSC-2 Nd 1.517 V 64.5 Diameter 89mm; focal length is 137mm.

Cat. #1192 $3.00 postpaid

BEAMSPLITTER

MIRROR TYPE



Mirror type beamsplitter made of flat glass 3-1/4" long, 2-5/8" wide and 3/16" thick. Coated to reflect 33% of light and transmit 67%. Originally used in reflex gunsight. War surplus.

Cat. #2124 $2.00 postpaid

OPTICAL GLASS FILTERS

Government surplus filters which can be bought for a fraction of their original cost. Use them in photography, instruments, countless other uses.

CAT #	DIA.	THICK.	COLOR	PRICE PPD.
1124	12mm	1mm	Neutral	$ .15
1337	13mm	2mm	Very Dark Red	.15
1317	23mm	1mm	Amber	.20
1643	24mm	2mm	Red	.45
1644	24mm	2mm	Dark Neutral	.45
1357	27mm	2mm	Neutral-mounted	.50
1353	30mm	1mm	Amber - mounted	.20
1681	30mm	2mm	Red	.75
1682	30mm	2mm	Dark Neutral	.30
1683	30mm	2mm	Amber	.30
1795*	30mm	2mm	Amber - mounted	.50
1332	33mm	4mm	Amber	.40
1685	50mm	3mm	Dark Neutral	.50

*23mm aperture, will snap on 31mm diameter cell.

RED GLASS WINDOWS

Red filters used as illumination windows on military scopes.

Cat. #1741	6mm Dia.	1mm Thick	$ .25	ppd.
Cat. #1700	8mm Dia.	1mm Thick	.25	ppd.
Cat. #1740	11mm Dia.	1mm Thick	.25	ppd.

CAMERA LENS

A small meniscus lens that was used to make a simple box camera. 19mm dia. x 75mm F. L.

Cat. #1120 $ .25 postpaid

PYREX MIRROR BLANKS

For those who wish the satisfaction of grinding their own mirrors. Pyrex blanks and plate glass tools in stock for immediate delivery. All prices postpaid, except those marked (*) which are F.O.B. Lynbrook, N. Y.

PYREX			PLATE GLASS TOOLS	
CAT. No.	DIA.	PRICE	CAT. No.	PRICE
1524	4¼"	$ 2.75	1534	$ 2.00
1525	6"	4.95	1535	2.95
1526	8"	8.50	1536	5.75
1527	10"	17.25	1537	8.00
1528*	12½"**	29.90	1538*	10.00

** Shipping weight 22 lbs.

OPTICAL FLAT

Made of high quality optical glass. Polished flat within 1/4 wave. 1-7/8" diameter and ¼" thick. Suitable for use as test flats.

Cat. #1433 $3.00 postpaid

BEAMSPLITTER

MIRROR TYPE

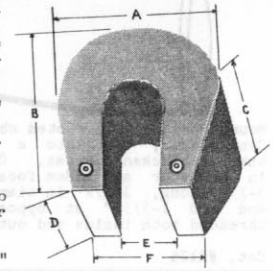


Special coating reflects a small percentage of the light. Rectangular shaped 3-3/4"x2-1/8", thickness 1/8". Originally used on reflex sight.

Cat. #1897 $2.00 postpaid

"GIANT" 16 lb. MAGNETS

WAR SURPLUS



Truly a Giant, fantastically powerful. Will lift nearly 300 lbs. It would appear that some herculian effort would be required to separate a steel object from the magnet. Do not try to pull directly off. Leverage or sliding must be used for best results. These heavy duty Alnico Magnetron Type Magnets are not for the kiddies. Horse-shoe shaped with wide pole pieces, they have approximately 5,000 to 6,000 Guass rating.

(A)5-3/16", (B)5-1/2", (C)3-3/4", (D)2-1/2", (E)2-1/8", (F)4-3/8"

Cat. #2000 $22.50 each F.O.B. Lynbrook, N. Y.

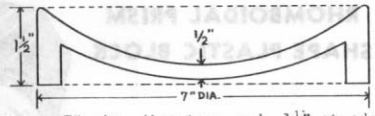
5 lb. LITTLE GIANT

This 5 lb. little giant can only be called small when compared to the above magnet. Strength about 2,000 guass. Lifts well over 100 pounds.

(A)3-1/4", (B)2-3/4", (C)4-3/16", (D)1-1/4", (E)1-1/4", (F)2-5/8"

Cat. #2001 $8.50 postpaid

SCHMIDT MIRROR BLANK



Measures 7" in diameter and 1½" at edge. Has a molded spherical curve of approximately 4" radius. This blank comes without a hole in center. You may cut one to suit your own specifications. Thickness at center ½".

Cat. #2216 $2.50 postpaid

UNMOUNTED BARLOW LENS

COATED ACHROMATIC



Increase your power One...Two... Three Times more than the present power of your telescope. Low reflection coated, unmounted negative achromat is 26mm in diameter with a short focal length of 1-3/4". The short focal length is extremely important, for it permits the lens to be close to the primary image. With this Barlow you can enjoy high power without having to use a short focal length eyepiece. Excellent Performance.

Cat. #2203 $7.50 postpaid

5X TANK TELESCOPE M71

WAR SURPLUS



These telescopes were designed to be used on Gen. Sherman Tanks. Especially made to give a wide field of view. 5X - 65° apparent field of view. Take it apart and you have 9 coated lenses ranging in size from 1-1/3" to 2-1/5" in diameter, 3 windows and reticle, cells, tubes, retaining rings, spacers, housings, etc. Tremendous value for the optics and parts alone. This telescope has unlimited possibilities. The objective (Cat. #101) is 6.111" E.F.L. which is air spaced contains 3 lenses. Highly corrected erecting system of about 1½X Contains 3 lenses. The eyepiece (cat. # 1405) has 3 achromatic lenses and a front focal length of .457". The eyepiece alone is worth the total price of the telescope. Length is 26½". Slightly used, good condition.
Shipping weight 25 pounds.

Cat. #849 $29.50 F.O.B. Lynbrook, N.Y.

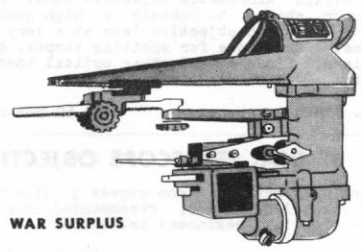
3X TANK TELESCOPE M76

WAR SURPLUS

These telescopes are similar to the M71 series. Specifications are 3X, actual field of view 21° 30'. (Apparent field 65°). Length 27⅛". Slightly used, good condition. Shipping weight 25 lbs.

Cat. #2002 $25.00 F.O.B. Lynbrook, N.Y.

TORPEDO DIRECTOR

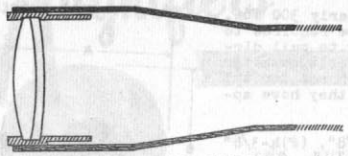


WAR SURPLUS

This instrument was used by the U.S. Air Force during World War #2 for the launching of torpedoes from airgraft. Contains an achromatic lens 37mm in diameter, focal length 70mm in a threaded mount. Ellipse shaped reflector plate is optically flat glass 45mm wide and 65mm long. Has a 28 volt light bulb in a white surfaced reflector housing. The reticle (may be illuminated) is adjustable in one direction through a spring and set screw device. Reticle has aiming pattern. Comes equipped with a flip down polarizing sun filter 42mm diameter. Adjustments for aiming made with fine rack and pinion arrangement. Scale engraved on side of pinion knobs and two semi-circle scales to indicate the amount of rotation of aiming device. Various uses; To demonstrate optical image for aiming devices, measuring angles for surveying, etc. Length is 9½" and is 7⅛" in height. Weight 3 lbs.

Cat. #1973 $8.00 postpaid

MOUNTED OBJECTIVE



Mounted achromatic coated objective (same as Cat. #2121), set into a threaded tappered tube of blackened brass. Objective is 32mm in diameter and 188mm focal length. Tube is 3-1/2" long, 1-1/2" in diameter at objective end and 1-3/32" at opposite end which is threaded both inside and out.

Cat. #2125 $3.50 postpaid

MOUNTED WIDE ANGLE OBJECTIVE

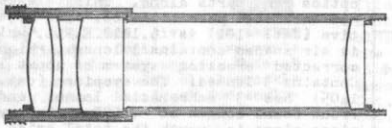


Coated Optics. 104mm EFL. Contains four lenses as illustrated. Two negative achromats 23mm dia. & 28mm dia., 2 meniscus lenses, one 26mm dia. X 69mm F.L., the other 32mm dia. X 69mm F.L. Buy these for the valuable optics they contain.

Cat. #1462 $7.50 postpaid

ANASTIGMATIC OBJECTIVE

WIDE ANGLE MOUNTED LOW PRICE



1st Objective	2nd Objective	3rd Objective
Dia. 1.468"	Dia. 1.468"	Dia. 1.546"
EFL. 5.399"	EFL. 7.525"	EFL. 4.332"

The 3 perfectly matched lenses in this anastigmatic objective makes this one of the finest and most highly corrected objectives used in military instruments. E.F.L. 6.111". You will find unlimited uses for this objective as a wide angle telescope objective, also makes an excellent wide angle telephoto lens. Enlarger, projector lens and numerous other uses. It is mounted and ready to use.

Cat. #101 $4.50 postpaid

2" DIA. TELESCOPE OBJECTIVE

7½" E.F.L. Achromatic Objective Lens. Here is your chance to obtain a high quality color corrected objective lens at a very low price. Use these for spotting scopes, binoculars, finders and other optical instruments. 2" lens diameter.

Cat. #1523 $2.50 postpaid

3" DIA. TELESCOPE OBJECTIVE

(Single Element) Plano convex 3" diameter, 45" focal length lens, recommended for an objective in a beginners telescope.

Cat. #1521 $4.00 postpaid

ERECTOR & RETICLE ASSEMBLY



Contains two coated achromats 15mm diameter X 41mm F. L. Mounted in brass cell. Threaded brass tube (our Cat. #1072 metal part) holds erector cell plus reticle which may be removed. Gov't package.

Cat. #1312 $4.50 postpaid

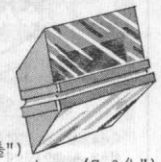
SYMMETRICAL ERECTOR ASSEMBLY



Two coated achromats 13mm in diameter X 37mm F. L. Mounted in a brass cell. Cell is threaded on outside and is 37mm long and 15mm diameter. Gov't package.

Cat. #1313 $4.50 postpaid

RHOMBOIDAL PRISM SHAPE PLASTIC BLOCK



Seven and one half inches (7½") long and seven and three quarters (7-3/4") wide and about 2" at center. Weight 3 pounds 10 ounces.

Cat. #1451 $3.00 postpaid

27 POWER SPOTTING SCOPE LENS SET

This set of lenses will make a spotting scope comparable in optical quality with scopes priced at $75.00 to $100.00. REMEMBER the lenses are the heart of the instrument. Consists of a big 54mm (2-1/8") diameter coated objective lens, 2 prisms, eyepiece lenses. Instructions included. All optics cemented and is perfect or near perfect.

Cat. #928 Set $16.75 postpaid

SPOTTING SCOPE OR MONOCULAR LENS SET

Here is a chance to make a fine optical instrument. All the lenses you need, cemented and ready to use. Consists of achromatic objective, two grooved prisms, Kellner (Wide Angle) eyepiece lens set and diagram. Buy 2 sets and construct a HIGH POWER BINOCULAR.

CAT. #	POWER	OBJECTIVE DIA.	PRICE PPD.
813	6X	32mm Set	$5.00
814	8X	32mm "	5.25
815	11X	38mm "	6.00

FINDER RING MOUNTS



Ring mounts come in cast aluminum, black crackle paint finish. Each ring has 3 locking wing screws for adjusting. Base has two holes for screws for easy mounting to any size telescope.

FINDER RING MOUNT 1-15/16" I.D. per pair
Catalog #1963 $3.95 postpaid

FINDER RING MOUNT 2-11/16" I.D. per pair
Catalog #1964 $3.95 postpaid

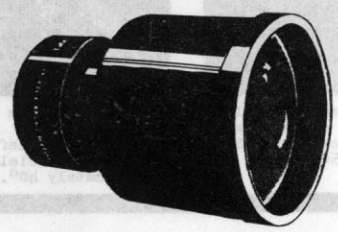
BAUSCH and LOMB

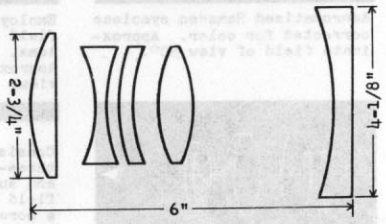
TELEVISION PROJECTION LENS

Original Cost $200.00

f/1.9 E. F. L. 5 inches

ONLY $22.50

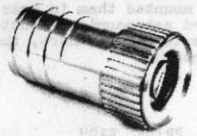




We scooped up the entire lot of these discontinued projection units from one of the foremost optical manufacturers in the country. They are brand new in original factory cartons and offered at this tiny price only because the development of large picture tubes forced the cancellation of these projection television sets. All surfaces of the expensive optical system illustrated are hard magnesium fluoride coated. The individual lenses are worth far more than our purchase price and we feel that many uses for this beautiful lens will be found by the ingenious amateur.

Catalog #1492 $22.50 postpaid

MOUNTED PROJECTION LENSES



Cooke triplet 5 inch E.F.L., all surfaces hard coated. This unit was manufactured by The American Optical Co. It is brand new and is housed in a standard projection mount, which is finished in clear annodized aluminum. The front part of the mount is knurled and the shank is spiral grooved. The outside diameter is 2½", length is 4½" and will slide in a tube having an inside diameter of 2-1/16".

Ideal for projecting 35mm or 2¼" slides.

Cat. #1676 $9.75 postpaid

F3.3 ANASTIGMATIC LENS

2" E.F.L.



Cooke triplet, American made contains all coated lenses and mounted in a black annodized mount which is 1"O.D., 7/8" long and will slide in a tube having an inside diameter of 7/8". This honey of a unit will readily cover 35mm slides, blowing them up in a short distance. Of course, it will cover 8mm slides as well as 16mm.

Cat. #1663 $7.50 postpaid

8mm PROJECTION UNIT



Two lenses mounted in chrome plated barrel. f/3.5 - Focal length about 1". Outside diameter 11/16", length is 2-3/16".

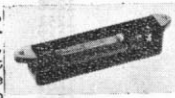
Cat. #1157 $1.25 postpaid

METAL CELL

Cell will hold 16½mm (.653") diameter lens O. D. of cell 20mm, length is 15mm. Has a threaded retaining ring.

Cat. #1788 $ .35 postpaid

LEVEL VIALS EXTREMELY SENSITIVE

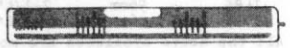


Glass tube is 4⅛" long. Frame work of vial assembly measures 7"xl⅛"xl". There is an adjustment screw on the sides so the vial may be calibrated to your instrument. Has a rotating cover so glass vial may be protected when used outdoors.

Cat. #1678 $1.75 postpaid

LEVEL VIAL

Unmounted level vial tubes, 2-3/4" long. Brand new.



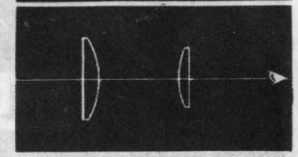
Cat. #1545 $ .50 postpaid

EYEPIECES

DESCRIPTION:

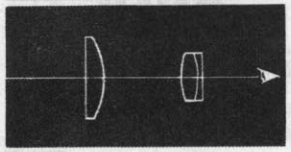
The eyepiece may be considered a magnifying glass which enlarges the image produced by the objective. The lens of the eyepiece nearest the eye is called the eye lens. The lens in the eyepiece nearest the objective is called the field lens. We have illustrated some of the most commonly used eyepieces. Most of the eyepieces listed are war surplus, others have been manufactured right here at JAEGERS from brand new war surplus unmounted eyepiece lenses.

RAMSDEN



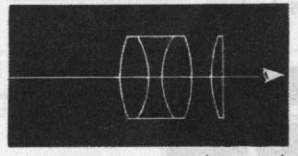
Two plano-convex lenses. Approximately 35 degrees field of view. Two simple lenses.

KELLNER



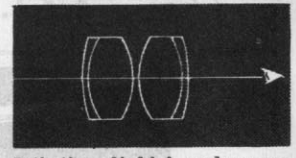
Achromatized Ramsden eyepiece corrected for color. Approximate field of view 50°.

ORTHOSCOPIC

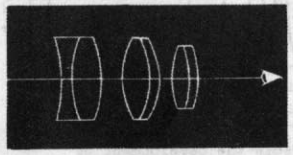


Employs a 3-Element (triplet) field lens and a single eyelens. Free from distortion. Approximately 50° field of view.

SYMMETRICAL



Both the field & eyelens are doublets. This type has a great eye relief and large exit pupil. Field of view approximately 40°.



ERFLE

Consists of a collective lens in the optical system of a three-element eyepiece. Shortens focal length of eyepiece and supplements the field lens in collecting and refracting field rays to improve the brightness of the field and provide a more uniformly illuminated image. Field of view is approximately 70°.

EYEPIECES

HERE IS THE BUY OF A LIFETIME — YOU MAY NEVER GET AN OPPORTUNITY LIKE THIS AGAIN



••• BRAND NEW AMERICAN MADE OPTICS AND MOUNTINGS •••

We have a large inventory of brand new war surplus achromatic unmounted eyepiece lens sets which were made to exacting government specifications. Here at JAEGERS we have taken these brand new lens sets and mounted them in precision 1-1/4" outside diameter standard astronomical mounts. If these lenses had to be manufactured elsewhere, they would sell for three or four times more.

CATALOG NUMBER	FOCAL LENGTH MILLIMETERS	FOCAL LENGTH INCHES	TYPE		PRICE EACH POSTPAID
2192	6mm	1/4"	ORTHOSCOPIC		$13.25
2302	6mm	1/4"	ORTHOSCOPIC	Coated	14.00
1851	6mm	1/4"	RAMSDEN		4.75
1852	6mm	1/4"	RAMSDEN	Coated	5.50
1853	12.5mm	1/2"	RAMSDEN		4.50
1854	12.5mm	1/2"	RAMSDEN	Coated	5.25
1207	12.5mm	1/2"	SYMMETRICAL		6.00
1208	12.5mm	1/2"	SYMMETRICAL	Coated	6.75
1251	16mm	5/8"	WIDE ANGLE ERFLE		12.50
1252	16mm	5/8"	WIDE ANGLE ERFLE	Coated	13.25
1257	16mm	5/8"	ORTHOSCOPIC		12.50
2315	16mm	5/8"	ORTHOSCOPIC	Coated	13.25
1209	18mm	3/4"	SYMMETRICAL		6.00
1210	18mm	3/4"	SYMMETRICAL	Coated	6.75
1211	22mm	7/8"	KELLNER		6.00
1212	22mm	7/8"	KELLNER	Coated	6.75
1835	27mm	1-1/16"	KELLNER		4.50
1834	27mm	1-1/16"	KELLNER	Coated	5.25
1355	32mm	1-1/4"	PLOSSL	Coated	13.50
1253	35mm	1-3/8"	SYMMETRICAL		8.00
1254	35mm	1-3/8"	SYMMETRICAL	Coated	8.75
1255	55mm	2-3/16"	KELLNER		6.00
1256	55mm	2-3/16"	KELLNER	Coated	6.75
1485	56mm	2-1/4"	SYMMETRICAL		6.00
1783	56mm	2-1/4"	SYMMETRICAL	Coated	6.75

All the above eyepieces are mounted as illustrated. These cells are made of aluminum which is black anodized to eliminate glare.

wide angle EYEPIECES

1 1/4" E.F.L. WIDE ANGLE ERFLE

COATED



ACHROMATIC EYE LENS
Diameter 1.520"
E.F.L. 2.481"

ACHROMATIC CENTER LENS
Diameter 1.800"
E.F.L. 3.088"

ACHROMATIC FIELD LENS
Diameter 1.800"
E.F.L. 6.520"

This Wide Angle Eyepiece has a clear aperture of 1-3/16" (43mm) and an EFL of 1-1/4" (32mm) 8 Power. It was used on a telescope which had a 69 degree apparent field of view. This eyepiece contains three (3) magnesium fluoride coated achromatic lenses. The mount is cylindrical in shape and will fit into a tube having an inside diameter of 2-1/16" (53mm).

Cat. #1020 Complete Assembly $13.50 ppd.

ADAPTER to fit #1020 eyepiece to standard 1-1/4" eyepiece mount.

Cat. #1593 $3.95 ppd.

PLEASE NOTE LOWER PRICES on these wide angle eyepieces. In view of the continued interest in artificial satellites and rockets to the moon, we suggest that you make your purchase soon before our supply is depleted. Our prices are certain to rise if we have to replace our present limited stock.

1 1/2" E.F.L. WIDE ANGLE ERFLE

COATED



1-1/2" EFL Wide Angle Eyepiece - All Coated Optics. This eyepiece contains an Eastman Kodak rare earth glass Has five elements as shown. Complete with Focusing Mount and diopter scale. Clear aperture of eyelens 2", 65 degree field. Outside threaded portion of cell is 3" in diameter, weight 3 pounds, 3 ounces. FIRST QUALITY.

Cat. #1592 Complete Assembly $22.50 ppd.

ADAPTER to fit #1592 eyepiece to standard 1-1/4" eyepiece mount.

Cat. #1596 $3.95 ppd.

MOUNTED EYEPIECE

E.F.L. 45.6 MM **COATED**



Mounted Eyepiece as illustrated has an EFL of 45.6mm. Contains two (2) magnesium fluoride coated achromats 35mm in diameter X 96mm Focal Length plus one (1) simple lens. Comes mounted in a black anodized cell 3" long and 1½" in diameter. Brand new. First quality.

Cat. #1408 $6.00 ppd.

1 1/2" E.F.L. WIDE ANGLE ERFLE

COATED



ACHROMATIC EYE LENS
Diameter 1.920"
E.F.L. 2.967"

ACHROMATIC CENTER LENS
Diameter 2.218"
E.F.L. 3.708"

ACHROMATIC FIELD LENS
Diameter 2.218"
E.F.L. 7.871"

Tremendous Bargain!

WIDE ANGLE EYEPIECE

(Value $125.00) Discover the many advantages and applications of this extra fine optical buy. This high quality eyepiece was originally used on a 5 power telescope having a 65 degrees apparent field of view. This wide angle eyepiece has a clear aperture of 2-1/8" and an EFL of 1½"; the front focal length is .457" and is therefore outside of the lens system. This eyepiece contains (3) three achromatic lenses. It is cylindrical in shape and is of the focusing type. It has an outer diameter of 2-7/8" and will fit into a tube having an outside diameter of 2-11/16".

Cat. #1405 Complete Assembly $12.50 ppd.
Cat. #1858 Without Diopter Scale 9.95 ppd.

ADAPTER to fit #1405 and #1858 eyepieces to a standard 1-1/4" eyepiece mount.

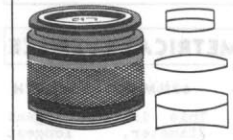
Cat. #1594 $3.95 ppd.

USE AS A KODACHROME VIEWER

We believe that this eyepiece does not have any equal as a 35mm Kodachrome Viewer. It gives clear sharp pictures right out to the edge; magnifies seven times.

Cat. #1405 - Complete Assembly - $12.50 ppd.

1 1/2" E.F.L. WIDE ANGLE ERFLE



1-1/2" EFL Wide Angle Eyepiece with all coated optics. In focusing mount with diopter scale. Light in weight only 1½ pounds. This eyepiece has a flat field and may be used as a kodachrome viewer. Clear aperture of eyelens and field lens approximately 2".

Cat. #1404 $18.50 ppd.

MOUNTED FOCUSING EYEPIECE



COATED

Mounted focusing eyepiece, EFL 30mm. In brass cell with diopter scale. All coated optics. Length of cell is 2-3/8". Diameter at threads is 1-15/16". Crossline reticle is optional. Fine quality.

Cat. #1320 $10.50 postpaid
Cat. #2132 WITH RETICLE 12.50 postpaid

6X30 FOCUSING EYEPIECES 7X50

Brand new coated binocular eyepieces in focusing mounts complete with scale and eyecap. Take advantage of this very low price while our supply lasts. Use these eyepieces in combination with our sale priced 7X50 prism erecting system Catalog No. 1774, $2.50 postpaid (listed on page 18), to build spotting scopes, telescopes, and bincoulars. Length of travel of focus 5/16" on both eyepieces. Threaded part of 7X50 eyepiece is 1-3/16" O.D. 6X30 eyepiece is 1-1/16" O.D.



7X50 Coated Eyepiece
27 Millimeters E.F.L.

Cat. # 1888
postpaid **$4.50**



6X30 Coated Eyepiece
22 Millimeters E.F.L.

Cat. # 1890
postpaid **$4.50**

Convert above binocular eyepieces to astronomical use with these 1¼" O.D. Adapters.

Cat. #1889 for 7X50 Eyepiece $2.50 Ppd.
Cat. #1891 for 6X30 Eyepiece $2.50 Ppd.

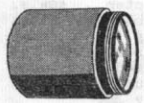
MOUNTED KELLNER EYEPIECE



1¼" outside diameter, coated. 1½" focal length. We have recently added a 1¼" O. D. aluminum adapter for easy use in astronomical telescopes. Two coated achromatic lenses with clear aperture of one inch.

Cat. #1991 Uncoated $5.25 postpaid
Cat. #1911 Coated 5.90 postpaid

MOUNTED SYMMETRICAL EYEPIECE



63MM FOCAL LENGTH

This is the largest diameter, longest focal length symmetrical eyepiece we have ever listed. Contains two coated achromatic lenses 55mm in dia. 115mm F.L. Mounted in a metal cell 2-5/8" long and 2-3/8" in diameter.

Cat. #1820 $7.50 postpaid

LENS CEMENT

Liquid Canadian Balsam, 1 ounce bottle.
Cat. #142 $1.25 postpaid

Stick Canadian Balsam in 1/3 ounce tube.
Cat. #926 $1.50 postpaid

NOTE: It is a little easier to use the stick type balsam because no pre-cooking of the cement is necessary.

FOCUSING EYEPIECE



Brand new - perfect COATED OPTICS. Focal length 28mm, eye relief 22mm. Has two achromatic lenses. Eye lens 22mm in diameter and Field lens 30mm in dia.

Cat. #1310 Coated $12.50 postpaid

NEGATIVE EYEPIECE LENSES



For use in making field glasses or Galilean type telescopes. 25mm in diameter minus 50mm focal length.

Cat. #78 $ .25 each Ppd.

FOCUSING EYEPIECE

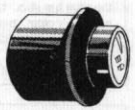


EE Type 6X30 Eyepeice 3/4" E.F.L. in focusing mount with diopter scale. Field of view 8 degrees. Length of cell is 2-1/8". Diameter of threads is 7/8".

Cat. #1218 Coated $8.50 postpaid
Cat. #1410 Uncoated 7.50 postpaid

MOUNTED EYEPIECE

EFL 17.7MM **KELLNER TYPE**



These mounted eyepieces are brand new. Magnesium fluoride coated optics. Mounted in a blackened brass cell 1 inch long and 1 inch in diameter. Comes to you in their original government package.

Cat. #1409 $6.75 postpaid

SURPLUS LENS TISSUE



BARGAIN PRICED

More lens tissue for your money than you ever got before. You would pay almost ten times our price for the same quantity of paper at your local photo shop. It is lint free and has an exceptionally high wet strength & free from abrasives. Well suited for the cleaning of both uncoated and coated lenses. Paper must be used wet, use Super - Cote lens cleaner, alcohol, ether etc. Buy the GOVERNMENT PACKAGE AND SAVE -----

CAT. #890 $1.35 postpaid
Government Package 500 Sheets 7½" x 11"

For those customers who desire a smaller quantity as a trial offer, we have broken the original package and repacked them in the following sizes----
CAT. #891 100 Sheets 7½"x11" $ .45 Ppd.
CAT. #892 500 Sheets 3½"x5½" .45 Ppd.
CAT. #893 500 Sheets 5½"x7½" .75 Ppd.

LENS TISSUE CASE LOT SPECIAL

Special offer of 32 7½"x11" packages in a case. Same tissue as CAT. #890. Weight approximately 75 lbs.

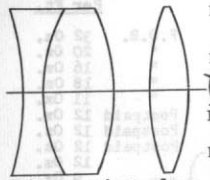
$29.75 F.O.B. Lynbrook, New York.

SUPER COTE LENS CLEANER

For coated and uncoated lenses direction for use is on the label.
CAT. #863 $.50 postpaid

"GIANT" EYEPIECE

This is the largest eyepiece we have ever seen. The Field Lens has a focal length of 22.6 inches which cost $78.00 to manufacture. WHAT VALUE! WHAT A BUY!



This eyepiece lens set came from the Tank Destroyer Telescope which was 3X and had an exit pupil with a diameter of (1) one inch. It was used with a three (3) inch objective. The eye distance on this telescope was 6⅛ inches. For anyone needing an eyepiece of large diameter and long eye relief -- THIS IS IT! EFL of eyepiece is 4.860".

GIANT PLASTIC EYEPIECE

Same as the above eyepiece but made of plastic. Mounted in an aluminum cell. 3" lens diameter. Focal length 4.860". Weight 1½ lbs. Bargain plastic buy. Low Price. Scratched, non-returnable.
Cat. #1960 Mounted Eyepiece $5.00 ppd.

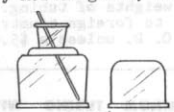
GIANT PLASTIC OBJECTIVE

Mate to the above eyepiece. 78mm in diameter. F. L. 381mm. Scratched, non-returnable.
Cat. #1971 $5.00 ppd.

Above items SCRATCHED. Extreme care must be used when cleaning to prevent further scratches. NON-RETURNABLE.

BALSAM BOTTLE

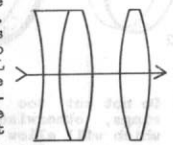
Container for liquid Balsam Cement. Capacity 2 ounces. Made of heavy molded glass, with glass cover ground on and is supplied with a glass rod. Bottle with cover on is 3" high and 2-1/8" at base. Rod is 3".



Cat. #2015 $ .50 postpaid

PERISCOPE EYEPIECE SET

Eyepiece Sets from army periscope rifle sight. Consists of a cemented achromatic field lens .966" in diameter. Focal length 11" and a double convex eye lens .966" in diameter. Focal length 2.671". This eyepiece was designed to give eye relief, has an EFL 2.193" and an eye distance of 4.134". Makes an excellent eyepiece for any rifle scope or instrument that demands great eye relief.



Cat. # 49 Uncoated Set $1.50 ppd.
Cat. #930 Coated Set 2.50 ppd.

We have the above eyepieces mounted in a standard 1¼" O. D. black anodized aluminum cells.

Cat. #1255 Uncoated $6.00 ppd.
Cat. #1256 Coated 6.75 ppd.

EYEPIECE LENS SETS

KELLNER EYEPIECE LENS SET

From the M5 6X30 Army Binocular. Focal length 22mm. Eye lens diameter 13mm, field lens diameter 19mm. Government spacing supplied.

Cat. # 823 $2.50 postpaid

22MM F. L. EYEPIECE LENS SET

Kellner type eyepiece set from 6 X 30 binocular .865" EFL, field of view 8° 30'. Contains 18mm diameter coated achromatic eye lens and uncoated field lens. Government spacing supplied.

Cat. #1463 $3.00 postpaid

RUBBER EYE SHIELD



This rubber eye shield will fit over eyepieces having an outside diameter of 1-1/4".

Cat. #1188 $ .75 postpaid

RUBBER EYE SHIELD & CLAMP



For use with our Tank Telescope (Catalog #849) and our Focusing Eyepiece (Catalog #1405). This was used to exclude excessive light. Will fit over other eyepieces having an outside diameter of 2⅛".

Cat. #68 $ .50 postpaid

SYMMETRICAL EYEPIECE

MOUNTED

1-3/8" EFL. Two coated achromats 34mm diameter. Mounted in aluminum cell 1⅜" O.D. and 1 inch long. Will fit 1⅛" inside diameter tubing.



Cat. #1241 $4.50 postpaid

MOUNTED EYEPIECE

This eyepiece has an EFL of 1". The brass cell is approximately 1-5/16" long and has a diameter of approximately 1-1/16". There is a small threaded portion on the outside diameter.

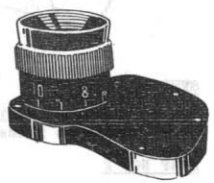


Cat. #1113 $4.50 postpaid

6 X 30 FOCUSING EYEPIECE

RIGHT SIDE ONLY

Mounted 6X30 Eyepiece in focusing cell as illustrated. EFL 22.5 mm, 11X. Brand new with coated optics. This is the type used on binoculars made by Universal, Ranco and Westinghouse. Eyelens diameter is 18mm.



Cat. #1832 $4.50 postpaid
Extra Eye Caps for 6X30 Binoculars.
Cat. #799 each $ .25 postpaid

ALUMINUM TUBING

This tubing is not a surplus item. It is NEW and does not contain any holes, etc. We purchased this tubing especially to accommodate lenses in our catalog. NOTE: All tubing supplied in STANDARD FOOT LENGTHS unless otherwise specified. We cannot cut special lengths. (CRATING CHARGES prevail on LONG LENGTHS - Also see NOTES A & B.)

Cat. No.	Length	Outside Dia. Inches	Inside Dia. Inches	Price		Weight Per Ft.
1513		7.000"	6.875"	$3.00 per ft.	F.O.B.	32 Oz.
1512		6.000"	5.875"	2.75 per ft.	"	20 Oz.
1511		5.000"	4.875"	2.25 per ft.	"	16 Oz.
1230*		4.500"	4.370"	2.50 per ft.	"	18 Oz.
1510		4.000"	3.875"	2.25 per ft.	"	11 Oz.
1160**	24 inches	3.406"	3.281"	3.50 length	Postpaid	12 Oz.
1161**	36 inches	3.406"	3.281"	5.25 length	Postpaid	12 Oz.
1162**	48 inches	3.406"	3.281"	6.75 length	Postpaid	12 Oz.
1514	See Note A	3.118"	2.994"	1.75 per ft.		12 Oz.
1509	See Note A	3.000"	2.875"	1.50 per ft.	SEE	9 Oz.
1102***	See Note B	2.250"	2.125"	1.20 per ft.		9 Oz.
1508	See Note B	2.000"	1.875"	1.10 per ft.	NOTE	6 Oz.
1292	See Note B & C	1.500"	1.384"	1.00 per ft.		6 Oz.
1231	6" length only	1.375"	1.250"	.75 each	A or B	5 Oz.
1232	See Note B	1.250"	1.180"	.75 per ft.		3 Oz.
1104	See Note B	1.000"	.930"	.75 per ft.		2 Oz.

* This tubing will accommodate our 110 mm lenses.
** This tubing will exactly accommodate our 83 mm lenses. These lenses can be mounted in a first class manner without the use of a cell or a lathe because the tubing was made to the exact diameter of the lens.
***This tubing will exactly accommodate our 54 mm lenses.

LONG LENGTHS: Tubing orders for lengths over five feet are subject to a $3.00 crating charge. This is to be added to the above prices.

F. O. B. ---- Tubing is shipped Express Collect.

POSTPAID ---- Tubing is shipped Parcel Post Prepaid. (See NOTE A & B)

NOTE A ------ Maximum length that can be sent parcel post prepaid is 4 feet. Longer lengths will be shipped EXPRESS COLLECT.

NOTE B ------ Maximum length that can be sent parcel post prepaid is 5 feet. Longer lengths will be shipped EXPRESS COLLECT.

NOTE C ------ This tubing will hold Catalog #93s cell without threads or screws. Will also fit Catalog #1486 - #1468 and #1488 mounted achromats.

FOREIGN COUNTRIES

Orders for tubing to foreign countries must include shipping charges. We have supplied approximate weights of tubing. 40" is the maximum length that can be shipped to foreign countries by parcel post. Tubing will not be shipped C. O. D. unless a $5.00 deposit is received with your order.

METHOD OF MOUNTING LENSES IN ALUMINUM TUBING WITHOUT A CELL

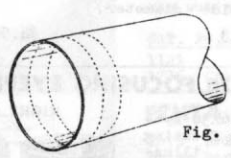


Fig. 1

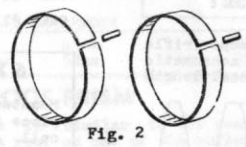


Fig. 2

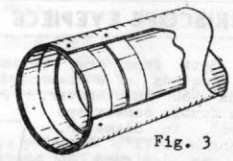


Fig. 3

STEP NO. 1

First, cut two small rings from the end of your tube as illustrated in Figure 1.

STEP NO. 2

Cut a small segment from one of the rings as illustrated in Figure 2. This will allow the rings to be squeezed together so that they will fit inside of the main tube as illustrated in Figure 3.

Do not cut too large a piece from these rings, otherwise there will be a space which will allow dust to get into your telescope. The rings and ends of the tubes will of course have to be filed smooth and square.

The rings can be held above and below the lens by tapping and drilling three small holes in order to accommodate small machine screws.

RECTANGULAR FLAT GLASS

CAT.#	SIZE			THICKNESS	PRICE
1901	* 1-3/16	X	4-1/8	X 1/4"	$ .35
1701C	3/4	X	6-1/2	X 1/4"	.35
1703	* 1-7/8	X	7-5/8	X 1/4"	.50
1704C	* 1-7/8	X	7-5/8	X 1/4"	1.00
1705	2-5/8	X	7-5/8	X 1/8"	.50
1702C	* 3-5/16	X	6-9/16	X 1/4"	3.00

NOTE: All above have ground and beveled edges.

* Rounded Corners. C coated.

GLASS CIRCLES

We have a selection of flat glass which was used as telescope windows, reticles, instrument windows, etc. They are perfect or near perfect and represent a tremendous savings over the original cost. In many instances, the Government paid $2.00 and $3.00 each for them.

CAT #		DIAMETER	THICKNESS	PRICE
1708	coated	20 mm	4 mm	$ .25
1696		20 mm	2 mm	.25
1808	ctd-oval	23x37 mm	3 mm	.15
1707	coated	28 mm	5 mm	.25
1299		33 mm	4 mm	.30
1428*		34 mm	2 mm	.10
1903	coated	35 mm	4 mm	.25
1321		36 mm	6 mm	.30
1827**	coated	36 mm	6 mm	.75
1978		38 mm	3 mm	.30
2073		39 mm	4 mm	.30
1684	coated	39 mm	8 mm	.75
1796**	coated	39 mm	10 mm	.75
2039	coated	43 mm	2 mm	.75
1977		67 mm	2 mm	.75
1131		73 mm	2 mm	.15
1132		76 mm	3 mm	.15
1448***		88 mm	3 mm	.15

* Laminated, will not shatter.
** Bonded into metal cell.
***Bent tempered glass (hardened). This glass was originally used on a dial face. It has been bent and has a slight curve (approx. 70" radius). As the curve is the same on both sides, it will not magnify.

Available in Lots of 1000 - $ .05 each
Avialable in Lots of 5000 - .03 each
Quantity prices F.O.B. Lynbrook, N. Y.

HEAT ABSORBING GLASS

Used to protect film projectors, enlargers etc. Thickness is 1/4".

CAT.	SIZE	PRICE	CAT.	SIZE	PRICE
835	2x2"	$ .20	936	4x4"	$ .45
933	2x3"	.25	836	4x5"	.60
934	3x3"	.30	937	5x5"	.70
935	3x4"	.40	938	5x6"	.80
			939	6x6"	1.00

ROUND DISCS OF HEAT ABSORBING GLASS

Edged circles of heat absorbing glass.

CAT.	DIA.	PRICE	CAT.	DIA.	PRICE
940	2"	$1.00	944	4"	$1.25
942	3"	1.25	946	5"	1.50
			948	6"	1.50

FROSTED GLASS

Each approximately 2mm thick.

Cat. #1762	2 x 2"	$ .50
Cat. #1763	3 x 3"	.50
Cat. #1764	4 x 4"	.75
Cat. #1765	5 x 5"	1.50
Cat. #1766	6 x 6"	2.00
Cat. #1767	3" Circles each	.50

RAW OPTICAL GLASS

LENS BLANKS

Suitable for making achromatic objectives, eyepieces, etc.

Cat. No.	Diameter	*Index	Price
32	27 mm	A	$ .15
33	27 mm	B	.15
809	28 mm	A	.15
810	28 mm	B	.15
805	35 mm	B	.20
806	36 mm	C	.20
811	36 mm	D	.20
30	40 mm	A	.20
913	42 mm	A	.25
915	47 mm	A	.30
1114	54 mm	A	1.00
1115	54 mm	B	1.00
916	83 mm	B	3.50
917	83 mm	A	3.50

* (A) Borosilicate Crown Glass Nd 1.517 V64.5

* (B) Extra Dense Flint glass Nd 1.649 V33.8

* (C) Light Barium Crown glass Nd 1.5725 V57.4

* (D) Dense Barium Crown glass Nd 1.617 V55.0

4 3-8" DIA. LENS BLANKS

Suitable for making your own 4" Objective.

CROWN 4-3/8" dia., 11/16" at center, 7/16" thick at edge. Nd 1.517 V64.5
Cat. #1590 $7.50 postpaid

FLINTS 4-3/8" diameter, 5/8" thick, plano on both sides.

Cat. #1876	Nd 1.617 V36.6	$10.00 ppd.
Cat. #1877	Nd 1.621 V36.2	10.00 ppd.
Cat. #1591	Nd 1.649 V33.8	10.00 ppd.

RIGHT ANGLE PRISM BLANKS

CAT No.	SIZE			PRICE PPD
804	A-17mm	B-10mm	C-13mm	$ .05
154	A-40mm	B-21mm	C-27mm	.15
155	A-55mm	B-40mm	C-40mm	.35
157	A-56mm	B-112mm	C-41mm	.50

LIGHT FLINT GLASS Nd 1.5795 V 41.0

CAT No.	SIZE			PRICE PPD
151	A-61mm	B-43	C-45mm	$ .50

BOROSCILICATE CROWN (C-1) Nd 1.523 V58.6

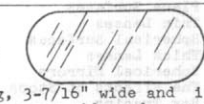
CAT No.	SIZE			PRICE PPD
152	A-76mm	B-173mm	C-52mm	$ .75
156	A-76mm	B- 53mm	C-53mm	.50

DOVE PRISM BLANKS

BOROSCILICATE CROWN GLASS Nd 1.517 V64.5

CAT.No.	SIZE			PRICE PPD
158	A-54mm	B-17mm	C-18mm	$ .15

ELLIPTICAL WINDOW



Window is 6-1/2" long, 3-7/16" wide and is 5/16" thick. Coated on one side and comes to you in original Government package.
Cat. #2040 $1.50 postpaid

Books

Discover the STARS



By JOHNSON & ADLER

Beginners book to astronomy; paper bound 130 pages. Diagram and photographs.

Cat. #1679

$ .75 ppd.

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By ALLYN J. THOMPSON

For the amateur astronomer interested in constructing his own telescope, this book gives detailed instructions and step by step directions as well as numerous diagrams to enable you to produce an instrument to view the heavens. There are no complicated mathematics involved, and no prior knowledge of optics or astronomy is needed to follow the directions of this book.

211 pages, illustrated. **$4.00 ppd.**

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Describes the functioning and design of optical instruments. States the fundamental principles of the mechanical design of optical instruments and concludes with an introduction to optical design.

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BY TRUMAN HENSEN

ILLUSTRATED

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For

THE SHOOTER

THE SAILOR

THE AMATEUR ASTRONOMER AND TELESCOPE MAKER

THE HOME WORKSHOP ENTHUSIAST

THE ORNITHOLOGIST

THE GUNSMITH

THE HUNTER

THE HIGH SCHOOL OR COLLEGE STUDENT

THE NATURE LOVER

THE SPORTS SPECTATOR

This is a book which will supply the optical layman with everything he wants to know about binoculars, telescopes and telescopic sights at all levels up to and including how to design and build his own instruments. Written by an amateur for amateurs.

Book contains the following:

AN OPTICAL PRIMER - How lenses and prisms work, and how, in combination they are able to form useful instruments.

THE ELEMENTS OF OPTICAL DESIGN - How the amateur may obtain and vary - Magnification - Field of View - Illumination - - Eye Relief.

COMPLETE WORKING DRAWINGS - for the home workshop, of many different Binoculars - Monoculars - Spotting Scopes - Big Game Sights and Target Scopes.
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By Francis A. Jenkins and Harvey A. White

Professors of Physics
University of California

Second edition, 647 pages, 454 illustrations. **$8.90 ppd.**

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BY F. TWYMAN

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ATTENTION!

AMATEURS

Thrill to the achievement of making your own telescopes, monoculars, spotting scopes or other means of bringing things closer to you. We have secured a condensed copy of various magazine articles describing every detail concerning construction, spacing, mountings and technical data which simplifies the job. In cases where lenses desired are not available, substitutions can be made from our "BARGAIN LIST" using the simple formulas in the booklet.

Cat. # 20 PM Each $ .25 ppd.

ENGINEERING OPTICS

The Principles of Optical Methods in Engineering Measurement - by K. J. Habell and Arthur Cox.

This is a critical survey of the most important optical methods and instruments applicable to engineering practice. Two theoretical chapters on the properties of ideal systems are included and other chapters deal with microscopes, telescopes and other optical instruments, with the effects of light and illumination and with the methods of optical projection.

The book is intended primarily for engineers using optical equipment. It is illustrated with comprehensive diagrams and drawings and contains two dozen tables.

Consists of the following chapters:

OPTICAL SYSTEMS-FUNDAMENTAL PROPERTIES, ABERRATIONS and DIFFRACTION, LIGHT and ILLUMINATION, MICROSCOPES TELESCOPES, OPTICAL PROJECTION, PROFILE MICROSCOPES, MISCELLANEOUS OPTICAL METHODS, CONSTRUCTIONAL FEATURES.

411 pages, 182 illustrations **$8.75 ppd.**

5" DIA. OBJECTIVE LENS

f/5 24-3/4" FOCAL LENGTH

...DID YOU KNOW?

That with this 5" Objective you can make one of the finest light gathering RICHEST FIELD TELESCOPES, second to none.

...DID YOU KNOW?

That by taking advantage of the fantastic light gathering ability of this lens, you can build a superior MOON WATCH TELESCOPE.

...DID YOU KNOW?

That by using this large aperture lens you can build a short length barrel 20X to 90X Spotting Scope that can "ALMOST SEE IN THE DARK".

Spreading Some Good News

Yes the word really gets around. The excellence of this objective is unequaled. Do not confuse this fully corrected lens with those from the Link Collimator (partially corrected or otherwise). This lens was specifically designed and manufactured for telescope use. Results? The fastest moving single item in this catalog.

Applications

You may team the eyepiece and erecting system of the M-17 Elbow Telescope with the 5" Objective for a "Long Reach" Moon Watch Telescope. The large aperture of this lens will enable you to greatly increase the power of your scope compared to that of smaller instruments used for this purpose. (See the July 1958 issue of Sky and Telescope for a similar 5" objective used in this manner). As a regular spotting scope objective, its' great advantage is LIGHT, LIGHT AND MORE LIGHT. For observing in poorly lit situations, it cannot be beat. If used for bird watching, the viewer will be able to peek through dim nooks and cranies, far beyond the capabilities of the ordinary telescope.

Performance

For the best possible low power preformance, (and wide field too) try this objective with our 1¼" E.F.L. coated achromatic eyepiece, Catalog #1355. By using a ¼" focal length eyepiece, (our simple Ramsden will do, Catalog #1852) you can read a newspaper at fifty feet by candlelight. You can easily prove this for yourself. By teaming this 5" objective with our 1¼" Wide-Angle Erfle Eyepiece, Catalog #1405, you can make the finest light gathering RICHEST FIELD TELESCOPE. THIS RICHEST FIELD TELESCOPE is now appearing in a featured article in "Amateur Astronomy Handbook", at your newstand.

Catalog No. 1474 Uncoated 5-1/16" Dia. 24-3/4" F. L. $75.00 Postpaid

Catalog No. 1475 Coated 5-1/16" Dia. 24-3/4" F. L. $85.00 Postpaid

NEW BOOKS

A BEGINNERS GUIDE TO THE SKIES

R NEWTON AND MARGARET MAYALL

"Probably the best handbook now available for a newcomer to amateur astronomy."- Sky and Telescope. Contains a wealth of information about the solar system, and many lists of objects to be observed with binoculars or a telescope; includes 100 pages of detailed charts and observing data arranged alphabetically by constellation.

CAT# 2301 $2.50 ppd.

NEW BOOKS

STANDARD HANDBOOK FOR TELESCOPE MAKING

N E HOWARD

This is a step by step book authored by the teacher of physical sciences at Millbrook school. Designed to teach easily the amateur astronomer who has no knowledge of mathematical theories of telescope making. You learn about tools, materials and procedures. You learn what to do, what not to do, how to do it economically. This is a guide for you that is practical and complete in every aspect of construction

CAT.#2311 $5.95 postpaid

ASTRONOMICAL OBJECTIVES

Air - Spaced



TWO GREAT 6" OBJECTIVES

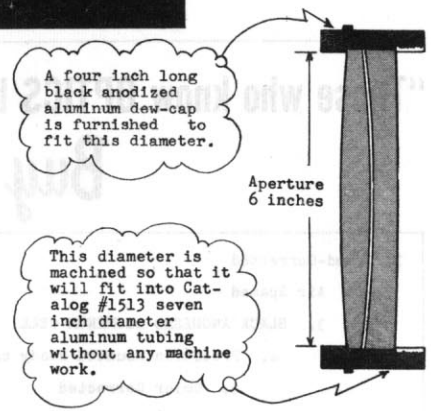
f/10 - 6" Aperture - 60" Focal Length

f/15 - 6" Aperture - 90" Focal Length

Look !

WHAT WE HAVE TO OFFER

1. Hand-Corrected
2. Air Spaced
3. BLACK ANODIZED ALUMINUM CELL
4. Precision Mounted Ready to use
5. Color Corrected
6. 6" Dia. Clear Aperture
7. Fits our Aluminum Tubing
8. Quality Cannot be Surpassed
9. Lowest Price
10. Fully Guaranteed



Our 6" objective will not need high-pressure salesmanship. Its sparkling performance speaks for itself. Never before has any concern offered so much for so little. The quality is the highest! The price the lowest! Test one, or have any qualified person test it; we are certain that you will be satisfied. If not, take advantage of our money-back guarantee. These precision hand-corrected American made astronomical objectives are mounted in black anodized aluminum cells, or supplied as unmounted lens sets. Our reputation has been established over the years as the most reliable source of high quality astronomical lenses.

Both lenses are designed to reach the theoretical maximum limits of resolution and are guaranteed to do so. Each lens is thoroughly tested by us. They are corrected for the C and F lines (secondary chromatic aberration). The cells are machined to close tolerances to fit into our standard aluminum tubing, Catalog #1513.

Cat. #1860	6" Dia. 60" F.L. Coated-Mounted	**$175.00**
Cat. #1862	6" Dia. 90" F.L. Coated-Mounted	
Cat. #1861	6" Dia. 60" F.L. Coated-Unmounted	**$150.00**
Cat. #1863	6" Dia. 90" F.L. Coated-Unmounted	

NOTE! We offer unmounted lens sets for those who wish to design their own cells. A metal spacer is supplied to insure correct spacing of elements.

MOUNTED ASTRONOMICAL

TELESCOPE OBJECTIVES

YES!
WE HAVE A
6" LENS
(SEE page 39)

AIR SPACED

3 1/4" Diameter 48" Focal Length

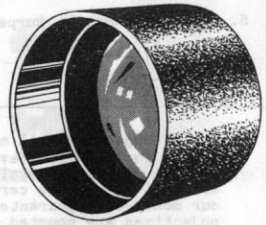
4 1/8" Diameter 62" Focal Length

Never before has any concern offered so much for so little. The quality is the highest! The price the lowest! These precision hand-corrected American made astronomical objectives are Mounted in Black Anodized Aluminum Cells. Our reputation has been established over the years as the most reliable source of high quality astronomical lenses.

"Those who know OPTICS best"

Buy From Us Because...

1. Hand-Corrected
2. Air Spaced
3. BLACK ANODIZED ALUMINUM CELL
4. Precision Mounted Ready to use
5. Color Corrected
6. 3¼" or 4-1/8" Clear Aperture F 15
7. Fits our Aluminum Tubing
8. Quality Cannot be beat.
9. Lowest Price
10. Fully Guaranteed



Both lenses are designed to reach the theoretical maximum limits of resolution and are guaranteed to do so. Each lens is thoroughly tested by us. They are corrected for the C and F lines (secondary chromatic aberration). The zonal spherical aberration and the chromatic variation of spherical aberration are negligible. The cells are machined to close tolerances to fit our standard aluminum tubing. Cat.#1447 will fit directly over Cat.#1161 or #1162 tubing. Cat.#1472 will fit inside Cat.#1230 tubing, neatly solving your mounting problem. Buy these lenses under our money back guarantee.

Cat. #1447	Mounted Air Spaced Objective-Clear Diameter 3-1/4" X 48" F. L.	**$28.00 ppd.**
Cat. #1471	Same as above, four surfaces magnesium fluoride coated.....	**$32.00 ppd.**
Cat. #1472	Mounted Air Spaced Objective-Clear Diameter 4-1/8" X 62" F. L.	**$60.00 ppd.**
Cat. #1473	Same as above, four surfaces magnesium fluoride coated.....	**$69.00 ppd.**

"BIG" LENSES



Achromatic Objectives

We have the largest assortment of these large diameter-longer focal length lenses. They are very scarce as War Surplus. These telescope objectives are of top-knotch quality such as demanded of astronomical telescope objectives. The quantity is limited. They are perfect or near perfect Cemented Achromats and are made of Crown Optical and Flint Glass, "NOT PLASTIC". The lenses offered have exceedingly high resolving power and can be readily used with 1/4" F. L. eyepieces; are guaranteed suitable for spotting scopes, binoculars, as well as astronomical telescopes.

Catalog No.		Price Each		Diameter MM	Diameter INCHES	Focal Length MM	Focal Length INCHES
1476	Coated	$12.50		54 --	2-1/8"	254 --	10"
1112	Coated	12.50		54 --	2-1/8"	300 --	11. 811"
1110	Coated	12.50		54 --	2-1/8"	330 --	13"
1004		8.75		54 --	2-1/8"	390 --	15"
958	Coated	9.75		54 --	2-1/8"	390 --	15"
1145	Coated	12.50		54 --	2-1/8"	508 --	20"
2186	Coated	12.50		54 --	2-1/8"	559 --	22"
951		11.25		54 --	2-1/8"	622 --	24-1/2"
952	Coated	12.50		54 --	2-1/8"	622 --	24-1/2"
1431	Coated	12.50		54 --	2-1/8"	762 --	30"
1432	Coated	12.50		54 --	2-1/8"	1016 --	40"
1520	Coated	12.50		54 --	2-1/8"	1270 --	50"
1768	Coated	14.50		59 --	2-5/16"	308 --	12-1/4"
851	Coated	21.00		78 --	3-1/16"	381 --	15"
1158	Coated	28.00		80 --	3-3/16"	495 --	19-1/2"
821		21.00		81 --	3-3/16"	622 --	24-1/2"
822	Coated	22.50		81 --	3-3/16"	622 --	24-1/2"
1092	Coated	28.00		83 --	3-1/4"	660 --	26"
1093	Coated	28.00		83 --	3-1/4"	711 --	28"
1139	Coated	28.00		83 --	3-1/4"	762 --	30"
954		26.00		83 --	3-1/4"	876 --	34-1/2"
955	Coated	28.00		83 --	3-1/4"	876 --	34-1/2"
1140	Coated	28.00		83 --	3-1/4"	914 --	36"
956		28.00		83 --	3-1/4"	1016 --	40"
957	Coated	30.00		83 --	3-1/4"	1016 --	40"
1447*a		28.00	MOUNTED	83 --	3-1/4"	1219 --	48"
1471*a	Coated	32.00	MOUNTED	83 --	3-1/4"	1219 --	48"
1155	Coated	60.00		102 --	4"	876 --	34-1/2"
1472*b		60.00	MOUNTED	103 --	4-1/8"	1575 --	62"
1473*b	Coated	69.00	MOUNTED	103 --	4-1/8"	1575 --	62"
1460	Coated	60.00		108 --	4-1/4"	914 --	36"
1159		60.00		110 --	4.329"	1069 --	42-1/16"
1225	Coated	67.50		110 --	4.329"	1069 --	42-1/16"
1474		75.00		128 --	5-1/16"	629 --	24-3/4"
1475	Coated	85.00		128 --	5-1/16"	629 --	24-3/4"
1860*c	Coated	175.00	MOUNTED	152 --	6"	1524 --	60"
1861	Coated	150.00	UNMOUNTED	152 --	6"	1524 --	60"
1862*c	Coated	175.00	MOUNTED	152 --	6"	2286 --	90"
1863	Coated	150.00	UNMOUNTED	152 --	6"	2286 --	90"

These Objectives are air spaced and are mounted in aluminum cells AT NO EXTRA COST. SEE ILLUSTRATION below for method of mounting.

NOTE (a) Cell mounts over Cat. 1162 tubing. NOTE(b) Cell mounts into. 1230 tubing. NOTE (c) Cell mounts into Cat. 1513 tubing.

CELLS

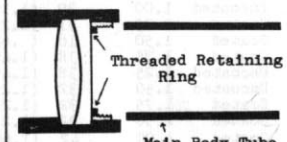
FOR OUR "BIG" LENSES

We can now supply precision aluminum black anodized cells for most of the above objectives. These cells were made especially for these lenses and are machined to close tolerances to fit our standard aluminum tubing.

CAT. #	LENS DIAMETER	TUBING CAT.#	PRICE
1477	54mm	1102	$ 3.50 ppd.
1543	78mm	1160 - 1161 - 1162	6.50 ppd.
2290	80mm	1160 - 1161 - 1162	6.50 ppd.
1478	81mm	1160 - 1161 - 1162	6.50 ppd.
1479	83mm	1160 - 1161 - 1162	6.50 ppd.
2224	102mm	1230	12.50 ppd.
2225	108mm	1230	12.50 ppd.
1542	110mm	1230	12.50 ppd.
1761	128mm	1511	22.50 ppd.

Order cells by Catalog Number shown in first column. Other columns show diameter of lenses and Catalog Number of tubing that will fit each cell.

Slide fits over our standard Aluminum Tubing.



Drill and tap two or three holes equally spaced around main body tube in order to secure the lens cell.

ACHROMATIC LENSES

TYPES 

We offer the finest and largest assortment of war surplus and JAEGERS manufactured achromatic lenses in the country. Precise, color-corrected and made of the highest quality crown and flint optical glass. Government lenses originally sold for as much as 10 times our low prices. Listed on these two pages are the biggest selection of diameters and focal lengths available. For your convenience specifications are listed in both MILLIMETERS and INCHES and are the closest possible fraction we could determine. Illustrated above are the three basic types of achromats. Type 1 is the most common with both surfaces curved, Type 2 has a flat rear surface and Type 3 has a concave rear surface. MR. MANUFACTURER: Surplus stock is plentiful and even if your order should exhaust our supply, upon request, we can duplicate any lens exactly.

CATALOG NUMBER		PRICE EACH	DIAMETER MMS	DIAMETER INCHES	FOCAL LENGTH MMS	FOCAL LENGTH INCHES	ORIGINAL USE
1222	Coated	$3.00	12	(.496)	25	(.984)	Type 1 Eye or Field Lens
1639	Coated	2.75	13	(.483)	26	(1.063)	Type 2 Eye Lens EE Binocular
982	Coated	2.50	18	(.690)	29	(1.160)	Type 2 Eye Lens 6x30 Binocular
981	Uncoated	2.00	18	(.690)	29	(1.160)	Type 2 Eye Lens 6x30 Binocular
852	Uncoated	2.25	13	(.500)	30	(1.142)	Type 1 Eye Lens Wollansak 6x30 Bin.
878	Coated	2.50	13	(.500)	30	(1.142)	Type 1 Eye Lens Wollansak 6x30 Bin.
1712	Uncoated	2.25	22	(.874)	34	(1.338)	Type 1 Eye Lens
1002	Uncoated	1.50	18	(.690)	36	(1.417)	Type 1 Eye Lens B&L M2 Binocular
827	Coated	1.75	18	(.719)	37	(1.456)	Type 1 Eye or Field Lens
826	Uncoated	1.50	18	(.719)	37	(1.456)	Type 1 Eye or Field Lens
1650	Coated	1.75	13	(.511)	38	(1.496)	Type 1 Erector
856	Coated	1.90	18	(.688)	39	(1.535)	Type 1 Eye Lens 7x50 Binocular
754	Uncoated	1.00	15	(.602)	41	(1.614)	Type 1 Erector
1000	Uncoated	1.50	16	(.649)	42	(1.654)	Type 2 Eye Lens
2139	Uncoated	2.50	28	(1.104)	43	(1.693)	Type 1 Field Lens
1595	Coated	1.50	18	(.702)	44	(1.732)	Type 1 Objective
2046	Coated	1.25	19	(.762)	47	(1.850)	Type 3 Field Lens
2114	Coated	2.25	25	(.967)	47	(1.850)	Type 1 Eye Lens 19mm aperture
977	Coated	2.00	18	(.701)	49	(1.929)	Type 1 Objective
756	Uncoated	1.75	18	(.701)	49	(1.929)	Type 1 Objective
1867	Uncoated	2.25	18	(.701)	49	(1.929)	Type 1 Mounted Objective
1868	Coated	2.50	18	(.701)	49	(1.929)	Type 1 Mounted Objective
1481	Uncoated	1.75	20	(.900)	49	(1.929)	Type 1 Mounted Erector
1081	Uncoated	1.25	17	(.656)	52	(2.047)	Type 2 Objective
1968	Coated	2.50	27	(1.062)	53	(2.086)	Type 1 Mounted Objective
1669	Coated	2.00	27	(1.062)	53	(2.086)	Type 1 Eye Lens
1482	Uncoated	1.75	20	(.787)	55	(2.165)	Type 1 Mounted Objective
1480	Uncoated	1.75	21	(.826)	55	(2.165)	Type 1 Mounted Eye Lens
2028	Uncoated	1.25	14	(.551)	56	(2.204)	Type 1 Objective
1430	Uncoated	2.50	41	(1.614)	57	(2.244)	Type 2 Eye Lens
1710	Coated	3.00	35	(1.370)	59	(2.332)	Type 3 Eye Lens 29mm aperture
1934	Coated	1.50	15	(.560)	60	(2.367)	Type 1 Mounted Objective
1651	Coated	1.70	21	(.826)	60	(2.367)	Type 1 Objective
2115	Coated	2.00	25	(.967)	60	(2.367)	Type 3 Field Lens
1865	Coated	2.00	18	(.720)	62	(2.440)	Type 1 Mounted Erector
2141	Uncoated	2.00	26	(1.023)	62	(2.440)	Type 1 Eye Lens
980	Uncoated	1.25	30	(1.206)	65	(2.559)	Type 2 Field Lens
450	Coated	1.50	34	(1.341)	65	(2.559)	Type 1 Eye or Field Lens
415	Uncoated	1.25	34	(1.341)	65	(2.559)	Type 1 Eye or Field Lens
1630	Coated	1.50	19	(.745)	67	(2.638)	Type 1 Objective
2185	Coated	1.50	18	(.720)	78	(3.071)	Type 1 Objective
990	Uncoated	1.25	23	(.904)	78	(3.071)	Type 2 Eye Lens
879	Coated	.75	12	(.487)	80	(3.149)	Type 1 Objective
614	Uncoated	.50	12	(.487)	80	(3.149)	Type 1 Objective
1822	Coated	1.50	18	(.718)	80	(3.150)	Type 1 Objective
1350	Uncoated	3.50	56	(2.188)	82	(3.228)	Type 1 Eye Lens 44mm aperture
1670	Coated	1.75	21	(.864)	83	(3.267)	Type 1 Objective
979	Coated	1.50	25	(.996)	95	(3.740)	Type 1 Eye or Field Lens
1652	Coated	2.25	36	(1.417)	99	(3.895)	Type 1 Eye or Field Lens
978	Coated	1.50	18	(.719)	102	(4.004)	Type 1 Objective
2017	Uncoated	1.25	26	(1.028)	102	(4.004)	Type 3 Field Lens
1809	Coated	1.25	26	(1.007)	104	(4.094)	Type 1 Objective
1866	Uncoated	3.50	55	(2.180)	115	(4.527)	Type 1 Eye or Field Lens
1821	Coated	4.00	55	(2.180)	115	(4.527)	Type 1 Eye or Field Lens
1864	Coated	2.00	31	(1.220)	120	(4.724)	Type 1 Mounted Objective
408	Coated	1.50	25	(.998)	122	(4.803)	Type 2 Objective
420	Uncoated	1.00	25	(.998)	122	(4.803)	Type 2 Objective
991	Uncoated	1.00	29	(1.123)	122	(4.803)	Type 3 Field Lens
998	Coated	2.75	31	(1.219)	122	(4.881)	Type 1 Objective 6x30 EE Binocular
1637	Coated	1.50	16	(.627)	128	(5.050)	Type 3 Erector
983	Coated	1.75	38	(1.499)	130	(5.118)	Type 1 Objective
513	Uncoated	1.25	38	(1.499)	130	(5.118)	Type 1 Objective
55	Uncoated	1.50	32	(1.258)	132	(5.196)	Type 1 Objective 6x30 Binocular
828	Coated	1.75	32	(1.258)	132	(5.196)	Type 1 Objective 6x30 Binocular
1824	Coated	2.50	32	(1.258)	132	(5.196)	Type 1 Mounted Objective
2089	Coated	4.00	42	(1.653)	-136	(-5.354)	Type 3 Negative (Meniscus) Lens
512	Coated	1.75	33	(1.317)	140	(5.511)	Type 1 Erector
1226	Coated	4.00	34	(1.342)	-162	(-6.390)	Type 3 Negative (Meniscus) Lens
1401	Uncoated	3.50	63	(2.502)	165	(6.500)	Type 2 Field Lens
1811	Coated	2.00***	33	(1.300)	170	(6.692)	Type 1 Mounted Objective
1786	Coated	4.00	52	(2.047)	170	(6.692)	Type 1 Mounted Objective
84	Uncoated	1.00	31	(1.248)	172	(6.771)	Type 1 Erector
95	Coated	1.25	31	(1.248)	172	(6.771)	Type 1 Erector
1486	Coated	1.75*	31	(1.248)	172	(6.771)	Type 1 Mounted Erector
1523	Uncoated	2.50	51	(2.006)	178	(7.000)	Type 1 Objective

priced low

ACHROMATIC LENSES

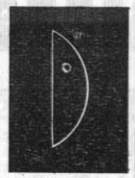
CATALOG NUMBER		PRICE EACH	DIAMETER MMS	DIAMETER INCHES	FOCAL LENGTH MMS	FOCAL LENGTH INCHES	ORIGINAL USE
1398	Uncoated	2.00	36	(1.417)	179	(7.046)	Type 1 Objective
167	Coated	2.00	27	(1.076)	180	(7.086)	Type 1 Erector
407	Uncoated	1.15	23	(.905)	184	(7.244)	Type 1 Erector
2121	Coated	3.00	33	(1.299)	188	(7.400)	Type 1 Mounted Objective
417	Coated	2.50	44	(1.748)	189	(7.440)	Type 1 Objective
601	Coated	3.50	44	(1.748)	189	(7.440)	Type 1 Mounted Objective
2112	Coated	3.00****	64	(2.520)	190	(7.478)	Type 2 Objective
1794	Coated	1.50	36	(1.426)	192	(7.558)	Type 3 Field Lens
1005	Coated	3.00	52	(2.047)	192	(7.558)	Type 1 Objective 7x50 Binocular
1838	Coated	3.75	52	(2.047)	192	(7.558)	Type 1 Mounted Objective 7x50 Bin.
1636	Coated	5.00	52	(2.047)	224	(8.818)	Type 1 Mounted Objective
1895	Uncoated	2.50	36	(1.401)	240	(9.448)	Type 1 Objective
755	Uncoated	2.50	38	(1.518)	240	(9.448)	Type 1 Objective
1810	Coated	2.50	30	(1.182)	246	(9.684)	Type 2 Objective
1476	Coated	12.50	54	(2.115)	254	(10.000)	Type 1 (see Note A) Tele. Objective
1394	Coated	6.00	47	(1.875)	275	(10.826)	Type 1 Objective
1395	Uncoated	5.00	47	(1.875)	275	(10.826)	Type 1 Objective
1190	Coated	6.00	42	(1.653)	277	(10.800)	Type 1 Objective
1191	Uncoated	5.50	42	(1.653)	277	(10.800)	Type 1 Objective
1354	Uncoated	3.50	58	(2.310)	280	(11.023)	Type 1 Field Lens
1988	Coated	6.00	53	(2.085)	297	(11.693)	Type 1 Objective
1112	Coated	12.50	54	(2.115)	300	(11.811)	Type 1 (see Note A) Tele. Objective
1242	Uncoated	6.00	48	(1.889)	305	(12.000)	Type 1 Mounted Objective
1768	Coated	14.50	59	(2.331)	308	(12.320)	Type 1 Objective
1858	Coated	12.50	68	(2.676)	317	(12.500)	Type 1 Mounted Objective
1110	Coated	12.50	54	(2.115)	330	(13.000)	Type 1 (see Note A) Tele. Objective
304	Uncoated	2.75	32	(1.250)	337	(13.267)	Type 1 Erector
1487	Coated	3.25	32	(1.250)	337	(13.267)	Type 1 Erector
1488	Coated	3.75*	32	(1.250)	337	(13.267)	Type 1 Mounted Erector
1869	Coated	3.75**	42	(1.653)	337	(13.267)	Type 1 Mounted Objective
1837	Coated	3.50	43	(1.702)	351	(13.817)	Type 1 Objective
958	Coated	9.75	54	(2.115)	390	(15.000)	Type 1 (see Note A) Tele. Objective
851	Coated	21.00	78	(3.062)	381	(15.000)	Type 1 (see Note A) Tele. Objective
1195	Uncoated	7.50	89	(3.496)	423	(16.920)	Type 2 Field Lens
1196	Coated	8.50	89	(3.496)	423	(16.920)	Type 2 Field Lens
1217	Uncoated	18.50	64	(2.560)	462	(18.200)	Type 1 Mtd. Height Finder Objective
1158	Coated	28.00	80	(3.149)	495	(19.500)	Type 1 (see Note A) Tele. Objective
1468	Coated	5.00*	31	(1.248)	508	(20.000)	Type 1 Mounted Objective
1902	Uncoated	5.00*****	43	(1.693)	508	(20.000)	Type 1 Telescope Objective
1904	Coated	5.50*****	43	(1.693)	508	(20.000)	Type 1 Telescope Objective
1145	Coated	12.50	54	(2.115)	508	(20.000)	Type 1 (see Note A) Tele. Objective
2186	Coated	12.50	54	(2.115)	559	(22.000)	Type 1 (see Note A) Tele. Objective
1461	Coated	13.50	57	(2.250)	559	(22.000)	Type 1 (see Note A) Tele. Objective
951	Uncoated	11.25	54	(2.115)	622	(24.500)	Type 1 (see Note A) Tele. Objective
952	Coated	12.50	54	(2.115)	622	(24.500)	Type 1 (see Note A) Tele. Objective
821	Uncoated	21.00	81	(3.184)	622	(24.500)	Type 1 (see Note A) Tele. Objective
822	Coated	22.50	81	(3.184)	622	(24.500)	Type 1 (see Note A) Tele. Objective
1474	Uncoated	75.00	128	(5.038)	629	(24.750)	Type 1 (see Note A) Tele. Objective
1475	Coated	85.00	128	(5.038)	629	(24.750)	Type 1 (see Note A) Tele. Objective
1092	Coated	28.00	83	(3.273)	660	(26.000)	Type 1 (see Note A) Tele. Objective
1093	Coated	28.00	83	(3.273)	711	(28.000)	Type 1 (see Note A) Tele. Objective
1431	Coated	12.50	54	(2.115)	762	(30.000)	Type 1 (see Note A) Tele. Objective
1139	Coated	28.00	83	(3.273)	762	(30.000)	Type 1 (see Note A) Tele. Objective
1238	Coated	5.00	36	(1.398)	865	(34.000)	Type 1 Mounted Objective
1671	Coated	4.00	35	(1.400)	875	(34.500)	Type 1 Achromat
954	Uncoated	26.00	83	(3.273)	876	(34.500)	Type 1 (see Note A) Tele. Objective
955	Coated	28.00	83	(3.273)	876	(34.500)	Type 1 (see Note A) Tele. Objective
1155	Coated	60.00	102	(4.000)	876	(34.500)	Type 1 (see Note A) Tele. Objective
1140	Coated	28.00	83	(3.273)	914	(36.000)	Type 1 (see Note A) Tele. Objective
1460	Coated	60.00	108	(4.255)	914	(36.000)	Type 1 (see Note A) Tele. Objective
1432	Coated	12.50	54	(2.115)	1016	(40.000)	Type 1 (see Note A) Tele. Objective
956	Uncoated	28.00	83	(3.273)	1016	(40.000)	Type 1 (see Note A) Tele. Objective
957	Coated	30.00	83	(3.273)	1016	(40.000)	Type 1 (see Note A) Tele. Objective
1159	Uncoated	60.00	110	(4.329)	1069	(42.062)	Type 1 (see Note A) Tele. Objective
1225	Coated	67.50	110	(4.329)	1069	(42.062)	Type 1 (see Note A) Tele. Objective
1447	Uncoated	28.00	83	(clear)	1219	(48.000)	Type 1 (see Note B) Mtd. Objective
1471	Coated	32.00	83	(clear)	1219	(48.000)	Type 1 (see Note B) Mtd. Objective
1520	Coated	12.50	54	(2.115)	1270	(50.000)	Type 1 Objective
1472	Uncoated	60.00	103	(clear)	1575	(62.000)	Type 1 (see Note B) Mtd. Objective
1473	Coated	69.00	103	(clear)	1575	(62.000)	Type 1 (see Note B) Mtd. Objective

NOTE "A" Telescope objectives of top-notch quality such as demanded of astronomical telescope objectives. They can be used with 1/4" focal length eyepieces in order to obtain maximum power. In other words, a lens of 15" focal length can be used up to 60 power and a lens of 24½" focal length can be used up to 98 power.

NOTE "B" Air-Spaced objectives of the highest quality. They are mounted in aluminum cells AT NO EXTRA COST. See Mounted Astronomical Telescope Objective page for complete description.

* These mounted lenses are in brass cells and require no threads. Aluminum Tubing (our Catalog #1292 at $1.00 per foot) will fit these cells exactly.
** Bonded into Aluminum Cell 1" long and 1-7/8" in diameter.
*** Bonded into Aluminum Cell 1-1/8" long and 1-9/16" in diameter.
**** Achromat from objective assembly.
***** High resolution lens. Resolves 4 seconds or better.

CONDENSING LENSES

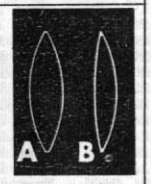


Plano Convex lenses for use in enlargers, projectors, spotlights or anywhere a concentrated beam of light is desired. Use these in pairs and mount them with curves facing each other, almost in contact. NOTE: Lenses marked with two astrisks are made of stria free crown glass.

CAT#	LENS DIA.		F. L.	PRICE PPD.
1886	2"	x	3⅛"	$1.50
1215 *	1-7/8"	x	2⅝"	.25
1743 **	2"	x	3"	3.00
1744 **	2-3/8"	x	4"	3.20
1745 **	2-1/2"	x	3"	4.00
1516	3"	x	4"	2.00
1746 **	3-3/8"	x	5"	4.00
1747 **	3-3/8"	x	8"	4.00
1940	4"	x	7"	4.00
1748	4-1/2"	x	6-1/2"	4.00
1749	4-1/2"	x	12"	4.40
1750	5"	x	7"	5.80
1751	5"	x	9"	5.80
1752	5"	x	12"	5.80
1753	5"	x	14"	5.80
1754	6"	x	9"	6.70
1755	6"	x	12"	6.70
1756	6"	x	18"	6.70
1675 ***	7"	x	10"	3.50
1642	7"	x	10"	4.00
1757	8"	x	10"	26.00
1758	8"	x	15"	26.00

* - Molded fire polished cond.
** - Made of stria free crown glass.
*** - Frosted on flat side.

DOUBLE CONVEX LENSES



These lenses can be used as magnifiers, eyepieces, linen testers, eye loupes, condensing lenses, etc. Type "A" Lenses are symmetrical in shape, both sides being equal. Some of them have chipped edges or slight scratches and bubbles; some are perfect. TYPE "B" Lenses are unsymmetrical, steeper on one side than the other. These are high quality centered lenses made of optical crown glass. Originally used as field lenses from achromatic lenses.

CAT#	TYPE	DIA.	FOCAL LENGTH	PRICE PPD.
1984	B (c)	18mm	19mm	$ .40
112 *	A	12mm	33mm	.25
1453 *	A	20mm	34mm	.35
2135	A	26mm	34mm	.35
2138	B	29mm	34mm	.40
1807	B (c)	16mm	42mm	.50
111 *	A	24mm	42mm	.50
2136	B	18mm	48mm	.30
2137	B	22mm	48mm	.35
1789	A	35mm	48mm	.75
1979	B	35mm	56mm	.35
1998	B (c)	33mm	60mm	.60
1948	B	33mm	62mm	.50
1817	B (c)	33mm	62mm	.75
1946	B	27mm	66mm	.35
1947	B	29mm	66mm	.35
110 *	A	24mm	68mm	.50
1990	B (c)	51mm	72mm	.60
2149	A	55mm	80mm	1.00
895	A	45mm	83mm	.15
2144	A	64mm	87mm	1.00
894	A	45mm	100mm	.15
858	A	62mm	100mm	.35
1830 *	A (c)	58mm	110mm	2.00
900	A	75mm	112mm	.60
1192 *	A	89mm	137mm	3.00
897	A	63mm	150mm	.30
1677	A	101mm	150mm	1.00
73 *	A	76mm	174mm	2.00
1330	A	17mm	18"	.25

* Edged and Optically Centered. (c) Coated.

PLANO CONVEX LENSES



We offer a large selection of plano-convex lenses, many of them coated. All are of good to fair quality and are not chipped edge lenses. Use these lenses for eyepieces, magnifiers, projection and portrait lenses, simple objectives, etc.

CAT#	DIA.		F. L.	PRICE PPD.
1880	4½mm	x	7mm	$1.50
1881	5mm	x	10mm	1.50
1882	9mm	x	14mm	1.25
1378	6mm	x	15mm	.75
1379	11mm	x	17mm	1.25
1883	10mm	x	20mm	1.25
1565	18mm	x	22mm	.95
1566	18mm	x	22mm	1.25
1547	12mm	x	23mm	.95
1548 (C)	12mm	x	23mm	1.25
1955	9mm	x	24mm	.75
1688 ***	19mm	x	27mm	1.00
1689	19mm	x	27mm	1.00
1567	18mm	x	29mm	.95
1568 (C)	18mm	x	29mm	1.25
1333 *	6x9mm	x	29mm	.20
1381	16mm	x	34mm	.40
1301	12mm	x	36mm	.50
1549	12mm	x	37mm	.95
1550 (C)	12mm	x	37mm	1.25
1384	23mm	x	38mm	.60
1596 ****	9mm	x	39mm	.20
1720 (C)	29mm	x	42mm	.75
1951	36mm	x	52mm	.50
1554 (C)	18mm	x	54mm	1.25
1385	35mm	x	64mm	.75
1719	43mm	x	86mm	.75
1559 **	35mm	x	95mm	.35
1498	21mm	x	114mm	.75
1649	26mm	x	120mm	.50
1711 (C)	19mm	x	140mm	.50
1885	39mm	x	150mm	.25
1386	27mm	x	172mm	.22
1812 (C)	43mm	x	220mm	1.00
1742	31mm	x	18"	.45
1388	43mm	x	20"	1.50
1569 (C)	43mm	x	20"	2.00
1389	43mm	x	28⅛"	1.50
1570 (C)	43mm	x	28⅛"	2.00
1390	43mm	x	32"	1.50
1571 (C)	43mm	x	32"	2.00
1391	43mm	x	39⅛"	1.50
1572 (C)	43mm	x	39⅛"	2.00
1392	43mm	x	48⅝"	1.50
1573 (C)	43mm	x	48⅝"	2.00
1393	43mm	x	103"	1.50
1574 (C)	43mm	x	103"	2.00

(C) Coated, * Rectangular Lenses, ** 2nd Grade
*** Frosted Flat Side, **** Fire Polished.

DOUBLE CONVEX LENSES

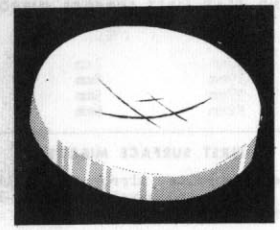


Unsymmetrical condensing lenses. These lenses have a shorter focal length in relation to its diameter. Made of extra dense optical glass of a high index. Used where a compact light system is required. Some lenses slightly chipped edges or scratches, others are perfect.

CAT.#	DIAMETER	FOCAL LENGTH	PRICE PPD.
1896	18mm	16mm	$ .95
2147	28mm	25mm	1.25
2148	30mm	27mm	1.25
2145	48mm	35mm	2.00
2146	39mm	35mm	1.75
2142 *	62mm	37mm	3.00
2143 *	64mm	37mm	3.00

* Rare-Earth Glass.

★☆ ASTRONOMICAL TELESCOPE MIRRORS ☆★



Make an astronomical reflecting telescope with one of these mirrors which are polished to ¼ wave accuracy. Aluminized with a silicon monoxide protective coating. f/10 & f/13 need not be parabolic. Reference "Sky and Telescope" magazine APR. 1960 issue Pg. 376.

CAT.#	DIAMETER		F.L.	PRICE PPD
1429	3-3/16"		(f/13) 42"	$ 8.70
1506	PYREX Brand 4¼"		(f/10) 45"	13.50
1507	PYREX Brand 6"		(f/10) 60"	25.00
2188	PYREX Brand 6"	Parabolic	(f/8) 48"	49.50
2312	PYREX Brand 8"	Parabolic	(f/8) 64"	* 79.00
2309	PYREX Brand 10"	Parabolic	(f/8) 80"	*175.00
2310	PYREX Brand 12½"	Parabolic	(f/8)100"	*275.00

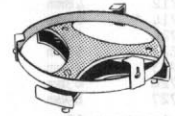
* F.O.B. Lynbrook, New York

MIRROR MOUNTS

These mounts are of cast aluminum and hold your mirror firmly with metal clips, which are adjustable. The base of the mirror mount has three adjusting screws for collimation. Completely assembled, ready to use.

COMPLETELY ASSEMBLED

READY FOR USE

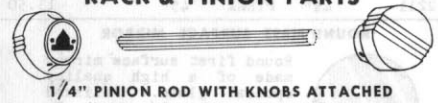


3" Mirror Mount fits Catalog # 1230, 4½" O. D. tubing.
Catalog #1634 $4.00 Postpaid

4¼" Mirror Mount fits Catalog # 1511, 5" O. D. tubing.
Catalog #1633 $4.00 Postpaid

6" Mirror Mount fits Catalog # 1513, 7" O. D. tubing.
Catalog #1632 $6.50 Postpaid

RACK & PINION PARTS



1/4" PINION ROD WITH KNOBS ATTACHED

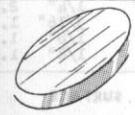
Plastic knobs attach to end of brass pinion shaft by means of set screws. Knobs 7/8" diameter. Length of shaft 2".

Cat. #1529 $ .75 Postpaid

BRASS RACK

Use with Catalog #1529, 16 teeth per inch, 1/8" face, 14½° pressure angle, 48 pitch.

Cat. #1530	4" Long	$ .75 Postpaid
Cat. #1531	6" Long	1.10 Postpaid
Cat. #1532	12" Long	1.80 Postpaid



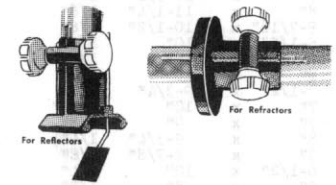
ELIPTICAL DIAGONAL MIRROR

Perfect size for a 6" mirror of f/8,9,10, 11 and 12 for use with normal size eyepieces. Mirror measures 1¼"x1-3/4" and ¼" thick

Cat. #1949	1/4 Wave	$3.75 Postpaid
Cat. #1950	1/8 Wave	$5.00 Postpaid

RACK & PINION EYEPIECE MOUNTS

Here is a wonderful opportunity for you to own the most mechanically perfect Rack & Pinion Focusing Eyepiece Mount with variable tension adjustment. It will accommodate any standard 1¼" eyepiece, positive or negative. The body casting is made of light-weight aluminum with black crackle paint finish, focusing tube of chrome-plated brass. Precision machined to fit our standard aluminum tubing. Catalog numbers 1494, 1495 and 1496 focusing tube has a travel of 4". Catalog #1976 focusing tube has a travel of 2" and fits all aluminum tubing 3" diameter and over.



MOUNTS FOR REFLECTORS

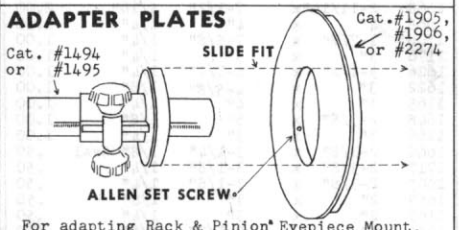
Cat.#1976 (less diagonal holder) $8.50 Ppd

DIAGONAL HOLDER----------For Above Item
Cat. #1982 $1.00 Postpaid

MOUNTS FOR REFRACTORS

Cat.#1494 for 2.125"I.D. Tubing $12.95 Ppd
Cat.#1495 for 3.281"I.D. Tubing 12.95 Ppd
Cat.#1496 for 4.370"I.D. Tubing 12.95 Ppd

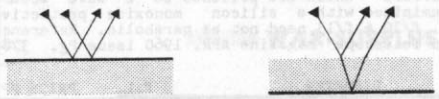
ADAPTER PLATES



For adapting Rack & Pinion Eyepiece Mount, #1494 to 5" tubing, (our Cat. #1511) or 7" tubing, (our Cat. #1513). Adapter #2274 will accommodate Rack & Pinion Mount #1495 and fits into our same 5" tubing. These adapters are precision machined to easily fit into the above mentioned tubing and are finished in black anodized aluminum.

Cat. #1905	5" ADAPTER ONLY	$10.50 ppd.
Cat. #1906	7" ADAPTER ONLY	10.50 ppd.
Cat. #2274	5" ADAPTER ONLY	7.50 ppd.

FIRST SURFACE MIRRORS



FIRST SURFACE MIRRORS

Mirrors in perfect condition with protective coating to insure longer life and will not scratch as easily as ordinary first surface mirrors. Obtained from contract cancellations. Handle with care when cleaning. Many applications in optical instruments such as telescopes, projectors, reflex cameras, etc.

CAT. No.	SIZE	APPROX. THICK.	PPD.
1163	14" x 16"	1/4"	$12.50
2150	13-1/4" x 16-1/2"	1/4"	9.50
2154	14" x 14"	1/4"	9.00
2152	13" x 14-3/16"	1/2"	12.50
2158	13" x 13"	1/8"	7.75
2155	11" x 14"	1/8"	7.50
2178	9-7/8" x 15"	1/4"	7.00
2157	10-11/16"x 13-3/4"	1/4"	6.75
2156	10-1/8" x 14"	1/4"	6.50
2159	10" x 12"	1/8"	6.00
2160	10" x 12"	3/32"	5.75
2161	9" x 12"	3/32"	5.50
2162	9-1/2" x 11-1/2"	1/8"	5.25
1624	9" x 11-3/16"	1/4"	5.00
2163	9-1/2" x 10-1/2"	1/8"	4.50
1623	9" x 10-3/4"	1/8"	4.25
1619	8" x 11-1/4"	1/8"	4.25
2165	9-7/16" x 10-1/2"	1/8"	4.25
2166	8-1/8" x 10"	1/8"	4.25
969	8" x 10"	1/4"	4.75
2167	8" x 10"	1/8"	4.25
2170	9-1/2" x 9-3/4"	1/8"	4.25
2168	7" x 10"	3/32"	4.00
2172	9" x 9"	1/8"	4.00
2173	8" x 9-3/4"	1/4"	4.00
2195	8" x 8-7/8"	1/8"	3.75
2164	6-1/2" x 10"	1/4"	3.75
1599	8" x 8"	1/8"	3.75
2175	7" x 7"	1/4"	3.50
1620	7" x 7"	1/8"	3.50
1598	6" x 7"	1/8"	3.25
1602	5-1/4" x 7-1/4"	1/4"	3.00
2177	5" x 7"	1/4"	3.00
1613	6" x 6"	1/8"	3.00
1601	6" x 6"	1/4"	3.00
1625	5" x 7"	1/8"	3.00
1608	5" x 6-1/2"	1/8"	2.50
1607	5" x 6-1/4"	1/8"	2.50
1621	5-3/4" x 5-3/4"	1/4"	2.50
1600	5" x 5"	1/4"	2.00
1164	4" x 5"	1/4"	1.85
1668	2-11/16"x 7-1/2"	5/16"	2.00
968	4" x 4"	1/4"	1.50
1706	1-7/8" x 7-5/8"	1/4"	1.00
2176	3" x 5"	1/4"	1.00
1626	3-1/2" x 4-1/2"	1/4"	1.00
1622	3" x 4-5/8"	1/8"	1.00
1165	3" x 4"	1/4"	1.00
1648	2-3/8" x 5"	1/8"	1.00
1166	3" x 3"	1/4"	1.00
1660	2-3/8" x 3-1/4"	1/8" Oval	.50
1717	2-3/8" x 3-1/8"	1/4"	.50
1605	2-3/8" x 3-1/8"	1/4"	.50
1659	2" x 3"	1/8"	.50
1167	2" x 3"	1/4"	.50
1664	2" x 2-1/2"	1/8"	.50
1658	2" x 2-3/8"	1/8"	.50
1168	2" x 2"	1/4"	.50
1647	2-1/8" x 1-7/16"	1/8"	.35
1655	2-3/8" x 1"	1/8"	.35
967	1-1/4" x 1-1/2"	1/16" each or 5	.25 -1.00
2088	3/4" x 3/4"	1/4"	3.00
2174	3/8" x 15/16"	1/8"	.25
1618	21/32" x 7/16"	1/16" 2 for	.25
1887	1/2" x 1/2"	1/4"	3.00

ROUND FLAT FIRST SURFACE MIRRORS

CAT. #	DIAMETER	THICKNESS	PRICE
1699	20mm	2mm	$ .35
1945	39mm	8mm	1.00
2133	57mm	5mm	2.00
1698	82mm	6mm	3.00

FIRST SURFACE MIRROR

Government surplus mirror has slightly rounded corners and beveled edges 2-11/16" wide, 7½" long and 5/16" thick.

Cat. #1668 $2.00 Postpaid

FIRST SURFACE SPHERICAL MIRRORS

First surface spherical mirrors which have been polished to a 1/4 wave accuracy. All are aluminized and have a silicon monoxide protective coating.

CAT.#	DIAMETER	FOCAL LENGTH	POSTPAID
2215 *	65mm	20mm	$ 3.00
2212	48mm	21mm	2.25
2214 *	65mm	30mm	3.00
1724	50mm	37mm	2.00
2213	52mm	37mm	2.50
1723	24mm	42mm	.50
1726	63mm	43mm	1.50
1727	89mm	70mm	4.00

* Aperture 50mm.

The first surface spherical mirrors listed below are not war surplus. They are stock items manufactured by us and fit our mirror mount, catalog #1633.

CAT.#	DIAMETER	FOCAL LENGTH	POSTPAID
2204	4¼"	9"	$25.00
2205	4¼"	11"	25.00
2206	4¼"	16"	25.00
2207	4¼"	21½"	20.00
2208	4¼"	26-3/4"	20.00
2209	4¼"	31½"	20.00
2210	4¼"	34½"	20.00
2211	4¼" PYREX	45"	13.50

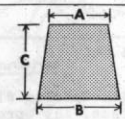
ROUND FIRST SURFACE MIRROR



Round first surface mirror made of a high quality optical glass. Polished flat within 1/4 wave. Is 1-7/8" in diameter and 1/2" thick.

Cat. #2087 $4.50 ppd.

TRAPEZOID SHAPED FIRST SURFACE MIRRORS



Cat. No.	SizeA	SizeB	SizeC	Thickness	Price Ppd.
1732	6-1/2"	8-1/2"	10"	1/8"	3.00
1733	5-1/2"	8-7/8"	8-7/8"	1/4"	3.00
1734	4-5/8"	7-5/8"	7-7/8"	1/4"	2.50
1735	5-3/8"	6-5/8"	5"	3/16"	1.75
1736	3-1/8"	5-3/16"	3-7/8"	1/8"	1.00
1737	3-1/4"	3-3/4"	5"	1/8"	1.00

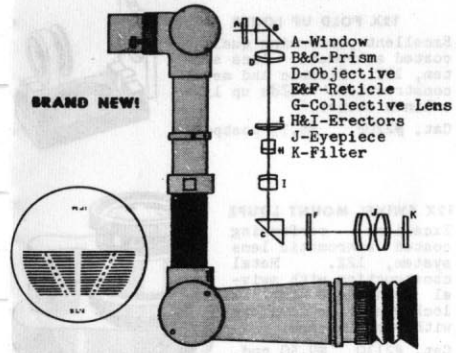
REFLECTORS - SECOND SURFACE

Ground and polished glass spherical mirrors which have been aluminized and coated with black paint to protect the surface. Ideal to get a great concentration of light in your projector.

Cat.#2275 2" Dia. x 3/4" F.L. $1.50 Ppd.
Cat.#1716 2⅛"Dia. x 1-11/16" F.L. 1.50 Ppd.

TELESCOPE M60

BRAND NEW!

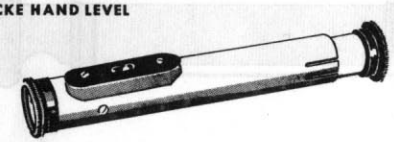


3 Power periscope type military observation telescope with lens erecting system and all coated optics. Achromatic objective. Large Symmetrical Eyepiece 50mm in diameter. Field of view 13 degrees 25 minutes. Also contains 2 right angle prisms, military reticle with provision for illumination, monocular eyeguard and 3 filters. They are neutral, amber and red. Objective is located under the upper prism. Line of observation is 12" above the observers line of vision. Height 14", base 10½" and weight 10 lbs.

Cat. #2091 $18.75 postpaid

LEVELS

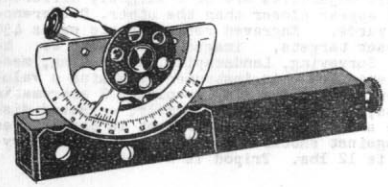
LOCKE HAND LEVEL



An indispensable tool for preliminary survey work. Contains magnifying glass to magnify bubble. Eyepiece to be drawn out. Comes to you complete with leather case and belt loop with snap fastener.

Cat. #2099 $8.75 postpaid

ABNEY LEVEL



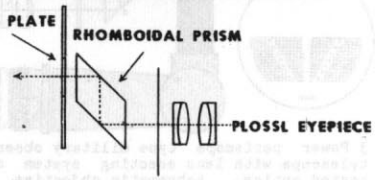
Top quality level that enables contracter to determine more accurate calculations in measuring ground elevations, slopes, running a line on levels, etc. Arc is divided in degrees, each side of zero ranging from 0° to 60°. Has adjustable bubble level. Complete with leather case, shoulder strap and belt loop. Length is 5".

Cat. #2099 $14.95 postpaid

HEIGHT FINDER PARTS

MOUNTED EYEPIECE ASSEMBLY

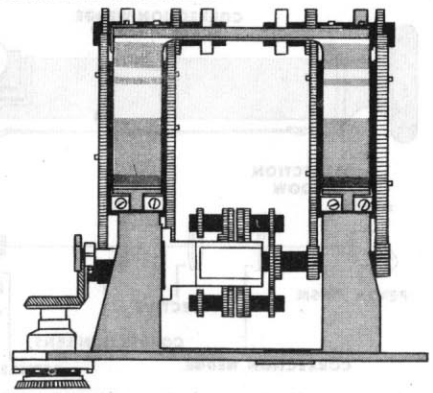




From U. S. Army Height Finder M1 - Consisting of 2 Plossl type eyepieces which contain two cemented achromats, diopter scale and rubber eyeshield for each eyepiece. Focal length is 27mm. Easy interpupilary adjustment from 58 to 72mm. Contains two 1" rhomboidal prisms which displaces the image horizontally by 1". Five rotating filters - dark, amber, clear, blue and red. Shipped completely assembled. Used, in good condition. Height is 5", width 10", weight 7 lbs.

Cat. #2092 $20.00 postpaid

GEAR TRAIN AND WEDGES

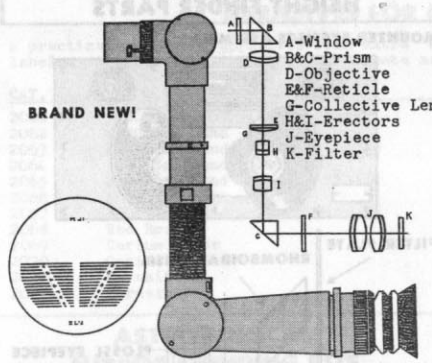


4 ACHROMATIC WEDGES
Contains four achromatic wedges (same as our Cat. #2032) which provide deviation without breaking up light into its component color bands. Its two elements consist of flint and crown glass. Wedges are 64mm in diameter, wedge angle 23 minutes, approximate deviation 12 minutes. These wedges ordinarally sell for $5.00 each. Easy to dismount.

GEAR TRAIN SYSTEM
Contains an abundance of gears made of bronze and brass worth well over $150.00. Just look at this fabulous assortment: 1 - Helical gear system, 2 - Planetary (differential) gear systems, 13 - Pinion gears, 12 - Spur gears, half of a universal joint, bearing blocks, shafting, etc. Mounting is cast aluminum. Use as is or dismantled, these valuable parts may be adapted to various applications. Size is 8½" long, 7½" high and 5½" wide. Weight about 10½ lbs.

Cat. #2086 $22.50 postpaid

TELESCOPE M60



3 Power periscope type military observation telescope with lens erecting system and all coated optics. Achromatic objective. Large Symmetrical Eyepiece 50mm in diameter. Field of view 13 degrees 25 minutes. Also contains 2 right angle prisms, military reticle with provision for illumination, monocular eyeguard and 3 filters. They are neutral, amber and red. Objective is located under the upper prism. Line of observation is 12" above the observers line of vision. Height 14", base 10½" and weight 10 lbs.

Cat #2091 $18.75 postpaid

12X ENGRAVERS LOUPES

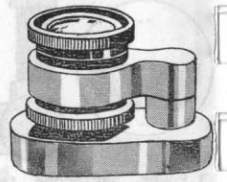
12X FOLD UP LOUPE



Excellent performing quality coated achromatic lens system, 12X. Plastic and metal construction. Folds up like a linen tester.

Cat. #2108 $6.75 postpaid

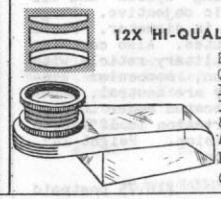
12X SWIVEL MOUNT LOUPE



Excellent performing coated achromatic lens system, 12X. Metal construction with swivel mount and aluminum lock washer. Complete with pigskin case.

Cat. #2110 $9.50 ppd.

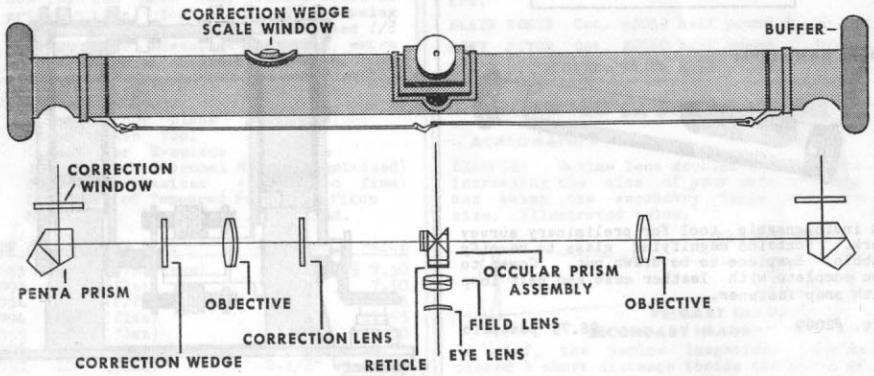
12X HI-QUALITY LOUPE



Excellent performing Hi-Quality coated achromatic lens system (4 elements), 12X. Clear lucite frame 87mm long and 26mm high. Aluminum lock washer and pigskin carrying case.

Cat. #2109 $12.00 ppd.

RANGE FINDER



War surplus 80 Centimeter Range Finders of 10X. Field of view 4 degrees 30 minutes. Instrument is of the azimuth type rotating of its vertical axis. Produces an erect and inverted split images. The left and right achromatic objectives are of a slightly different magnification, therefore one of the images will appear closer than the other. Difference of magnification only becomes apparent after 450 yards. Engraved reticle scale reads 450 yards to 10,000 then infinity. If used for closer targets, images will appear to be the same magnification. Countless applications: Surveying, Landscaping, map making, measuring distances, etc. If you should desire, dismantled this instrument contains a valuable assortment of adaptable optical parts. You get - A focusing eyepiece, 2 achromatic objectives, 2 correction windows, 2 penta prisms, occulat prism assembly, engraved distance reticle, correction lens, correction wedge and 2 filters. Instrument is constructed of durable brass with padded buffers to protect against shock. Shoulder strap and carrying case are included. Length is 36" and weight is 12 lbs. Tripod is available.

Cat. #2102	Without Tripod	25 lbs.	$60.00	F. O. B. Lynbrook, New York
Cat. #2103	With Tripod	40 lbs.	$75.00	F. O. B. Lynbrook, New York

CONDITION: Instruments are in the same condition as recieved from the government when they were discontinued. We guarantee that there are no broken or missing parts, slightly used condition. Some may need minor adjustments. Better instruments will be sold on a "first come, first served" basis.

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DO IT!

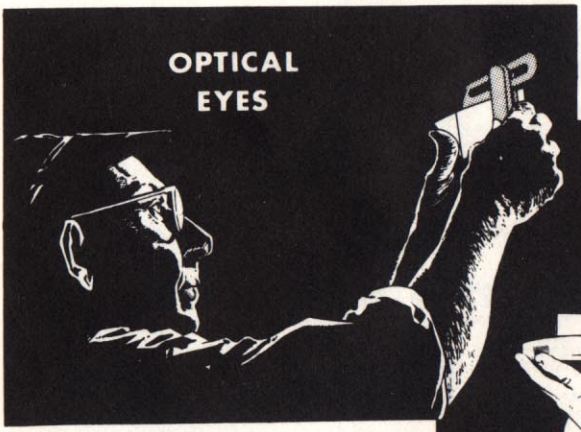
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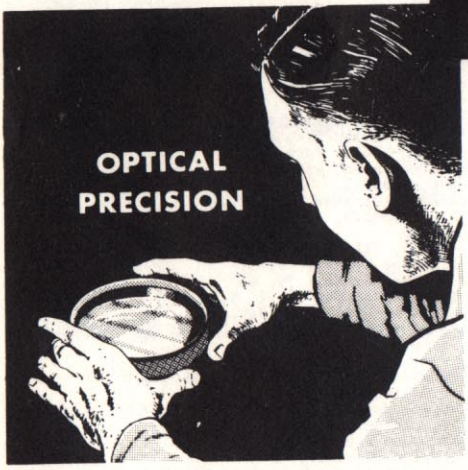
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