

AMAZING NEW IMPORT
TERRESTRIAL & ASTRONOMIC TELESCOPE

83 POWER—40 POWER or 23 POWER PLUS A VARIABLE 25 and 60 POWER TERRESTRIAL TELESCOPE

Look what you get at this Low Price PLUS a Money Back Guarantee & a 10 Day FREE Trial! You can't lose unless you miss this!

- 1—Astronomical LENSES—Three of 23X, 40X and 83X magnification. Achromatic & precision ground.
- 2—Variable Power LENS of 25 & 60X for straight through viewing. Fully corrected for Terrestrial sighting.
- 3—BODY—Steel for a lifetime of use.
- 4—LENGTH—19-1/2" & 22-1/2" extended.
- 5—Objective LENS—Coated large 50mm.
- 6—Top Quality SUN FILTER
- 7—One Diagonal PRISM
- 8—4 Power x 10mm Searching Scope with cross hair reticle.
- 9—ADJUSTMENTS—Both free-swinging and universal with lock for positioning.
- 10—Hardwood TRIPOD—Two section type, 30" folded, 4-1/2 ft. extended.
- 11—Fitted Hardwood CASE for all parts.

7995 WITH TRIPOD

DISCOVER THE STARS

FREE BOOK ON STARS—Tells you all about the stars and the constellations—Where to find them at different times—How to identify them and many other intriguing facts on astronomy.

EXTRA 100X EYEPIECE 750 125X EYEPIECE 995

83 and 40 POWER ASTRONOMICAL SCOPE

Very similar to scope above but has 83X & 40X eyepieces with a 40MM objective lens. Also has a variable eyepiece of 25-30X. Steel tube body is 26" long, included with scope is sunglasses, a pair of prisms (1 erecting), a hardwood tripod and a fitted case.

Only 4995

25 POWER x 30 MM TELESCOPE & TRIPOD

Nowhere but at PALLEY'S can you find a buy like this! Here's a scope, complete with a sturdy metal tripod, that you can have a lot of fun with. Use it to spot hits on the target, for star-gazing, interesting views at the beach, etc. Made of aluminum and chrome plated brass. Field: 62 ft. at 1000 yds. 1-3/16" dia. lens.

NEW 895 2500 VAL.

AMAZING NEW DESIGN
60 to 600 POWER—2 EYEPIECE
SPECIAL MICROSCOPE

HAS 60-120-200-300-400 & 600 POWER MAGNIFICATION WITH ILLUMINATED SUB-STAGE MIRROR and TRIPLE TURRET

Now you can change magnification with a simple shift of the dual eyepiece turret. No loss of focus—No re-adjustments—Your choice of 6X or 20X eyepiece with any of the objective lenses instantly!

INCLUDES THESE ADDED FEATURES:

- Has triple revolving turret with 10X, 20X, & 30X precision ground and polished lenses—Dual eyepiece turret with 6X and 20X lenses—New Patented Sub-Stage with a built-in, battery operated light, no external light source needed—A large sub-stage mirror with revolving variable iris—All-metal precision made body, inclines through 90°—Special fitted hardwood case and glass slides. Ideal Xmas Gift!

NEWLY DEVELOPED IMPORT

SPECIAL \$1695

AMAZING NEW DESIGN MICROSCOPE
60 to 450 POWER

Take advantage of our tremendous foreign purchase. Ideal for use by the Amateur, Scientist, Student.

- 1—Has Triple Revolving Turret with 10X, 20X and 30X precision ground and polished lenses.
- 2—Two interchangeable eyepieces of 6X and 15X with precision ground and polished lenses.
- 3—SIX MAGNIFICATIONS for all purposes—80X, 120X, 150X, 180X, 300X and 450X.
- 4—New Patented Sub-Stage with SELF-CONTAINED LIGHT. No external light source is needed.
- 5—Large sub-stage mirror for use with external light when desirable.
- 6—All Metal Body—precision made. Inclines through 90 degrees.
- 7—Special hardwood case and 3 glass slides included.

HAS 60, 120, 150, 180, 300 and 450 POWER MAGNIFICATION

FREE WITH MICROSCOPE
 This slight piece dissecting set contains: Scalpel, Tweezers, etc. Free with microscope above.

1295

SAVE PALLEY 100-200-300X BUY NOW MICROSCOPE
 Perfect GIFT for STUDENT—AMATEUR SCIENTIST

A triple revolving, objective lens turret allows selection of 100, 200 or 300 POWER magnification. Has fine, ground and polished lenses and ALL METAL construction. This instrument is NOT A TOY! Right or left hand rock & pinions make smooth, precise adjustments. Body inclines 90°.

WAS 1295 NOW 795

NEW ILLUMINATED MAGNIFIER

Provides 5 POWER magnification with brilliant illumination for precise inspection of any substance, material or specimen. The head contains a 50 MM lens and has internal calibrated scale to show relative size of subject. Body is nickel plated metal and holds 2 flashlight batteries. Head is molded bakelite. Takes a regular flashlight bulb.

1295 VALUE ONLY 495

LARGEST FIRM OF ITS TYPE IN THE WORLD

NEW NAVY 6 POWER SCOPE

A remarkable Navy Surplus Bargain. Originally designed as an Azimuth Telescope which mounted above the Gyro Compass, Has approx. 6 POWER. Finest Quality fully coated lenses, Crashair reticle. Adjustable eyepiece, A Sun filter and a Haze filter. New cond. Cost Gov't \$150.00

2495

NEW COMBINATION 4-6 or 10X EYE LOUPE

The newest in Eye Loupes. A 2-piece, 10X precision unit with a 6X lens that screws on, a 4X base lens. Can be used as a 4X, 6X or 10X magnifier.

125

10 POWER NAVY SPYGLASS

450° VAL.

Here's a real optical bargain. Manufactured by Wollensak for the U.S. Navy, Bureau of Ships. A 10 POWER 'Officer of the Deck' Spyglass. Has top quality, fully coated, precision ground lenses. Adjustable eyepiece. Overall lght., 22 1/2". Comes in a sturdy hardwood case with brass hinges and locks.

2275

SPYGLASS—Same as above but ALL NEW—2995

SAVE ON GOV'T SURPLUS LENSES

NEW EASTMAN 178MM AERO EKTAR f/2.5 CAMERA LENS WITH 7" FOCAL LGTH.

Originally designed for use on the K-21 and K-24 Aerial Cameras. A genuine EASTMAN AERO EKTAR, 178mm lens. Has f-stops from 2.5 to 16. Focal length is 7". This amazing lens is NEW—in original can. Guaranteed perfect condition. Excellent for Color or Black & White. Exceptionally fine for night work or in poor light conditions. Comes with 2 filters—1 Polarized for haze, etc., and one yellow. Also included is a filter adapter, a lens heater for high altitudes and a lens dust cap. Can be adapted to 35mm or Speed Graphic Cameras as a telephoto lens.

6950 2000 VAL.

SPEED GRAPHIC ADAPTERS for above lens—
 Includes Lens Board, Extension Tube and Bed Support.

2-1/4x3-1/4" **2175** 3-1/4x4-1/4" **1875**
 4x5" **1425**

35 MM ADAPTERS FOR ABOVE LENS—
 Complete—no other parts to buy. Will focus from 8 ft. to infinity—setting marked on the mount.

LEICA—CONTAX S&D—EXACTA 8950

CONTAX 2A . . . \$109.50 HASSALBAD . . . \$139.50

NEW 9" NAVY PROJECTOR LENS

Originally used as a Motion Picture Projector Lens. Contains the very finest coated, optical lens in a precision machined, stainless steel barrel. Has a 9" focal length. Lens diameter is 1 1/2". Ideal for use on a 35mm Slide Projector or for larger 2 1/4" x 2 1/4" to 4" x 5" transparencies.

1595

MICROSCOPE SUB-STAGE CONDENSER

\$4500 VAL. ONLY 1250

Made by Bausch & Lomb. Contains two precision, optical lenses that are worth much more than this low price. Objective lens is an Abbe 1.25 N.A. Has an iris diaphragm. Adaptable to use in photomicrography or as reduction lens.

10" f4.5 EYEMAX TELEPHOTO LENS

Made by Bell & Howell for the Eymo Camera but easily adapted to any single-lens camera with a 25mm (or larger) lens diameter. Has f-stops from 4.5 to 22. Focal length is 10" (254mm). Makes a terrific telephoto lens for all cameras up to 5" x 7" size. Overall length 10". Comes with built-in sunshade. ALL NEW! Guaranteed perfect!

6750

4 SPEED BARBECUE AND HOBBY MOTOR

A rugged, precision built electric motor—uses 110 Volt, 60 cycle current. Originally built for the Navy—NOW converted for YOU! Has four take-off shafts for different speeds of 5, 25, 150 and 4000 RPM. A \$35.00 Value

895

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Questions

CHEMISTRY—Which of the body's waste products is re-used by the body? p. 91.
 Why do people suffering from phenylketonuria have white hair? p. 89.

GENERAL SCIENCE—At what age is the human embryo most sensitive to radiation? p. 83.

GEOLOGY—What new geological fault has been found near Los Angeles? p. 92.

MEDICINE—What tranquilizing drug slows the growth of cancer? p. 89.

METEOROLOGY—Predictions of what storm may become a regular part of routine weather service? p. 87.

PHYSICS—Which of his inventions was Edison's favorite? p. 90.

SURGERY—From what part of the leg has useless tissue been removed in order to straighten deformed legs and feet? p. 88.

Photographs: Cover, U. S. Air Force; General Electric, p. 83; North American Aviation, p. 85; Fremont Davis, p. 87; Thomas Alva Edison Foundation, Inc., p. 90; Bakelite Company, p. 96.

PHYSICS

Neutrinos Now Detected Nearly One Per Minute

➤ **NEUTRINOS**, an uncharged atomic ghost particle with a vanishingly small mass, are now being detected at the rate of nearly one per minute using a counter installed deep underground near the Atomic Energy Commission's Savannah River Plant in South Carolina.

Dr. Frederick Reines of the Los Alamos Scientific Laboratory, Los Alamos, N. Mex., reported that this relatively high rate means that more neutrinos were falling on the detector each second than the number of seconds since the beginning of the universe.

He explained to the American Physical Society meeting in New York that, although the giant scintillation counter used was very sensitive, it still detected only one neutrino for every ten million million million (10 to the 19th power) neutrinos hitting it.

Dr. Reines said Dr. Clyde Cowan, Jr., also of Los Alamos, assisted by Drs. H. W. Kruse, R. Jones and M. P. Warren, cooperated in measuring the energy distribution of neutrinos.

More than 20 years ago two Nobel laureates, Wolfgang Pauli and the late Enrico Fermi, suggested the existence of a neutrino in order to account for the mysterious disappearance of energy from a radioactive process known as beta decay.

The energy distribution measurements reported at the meeting give a further check to this 20-year-old theory.

Science News Letter, February 9, 1957