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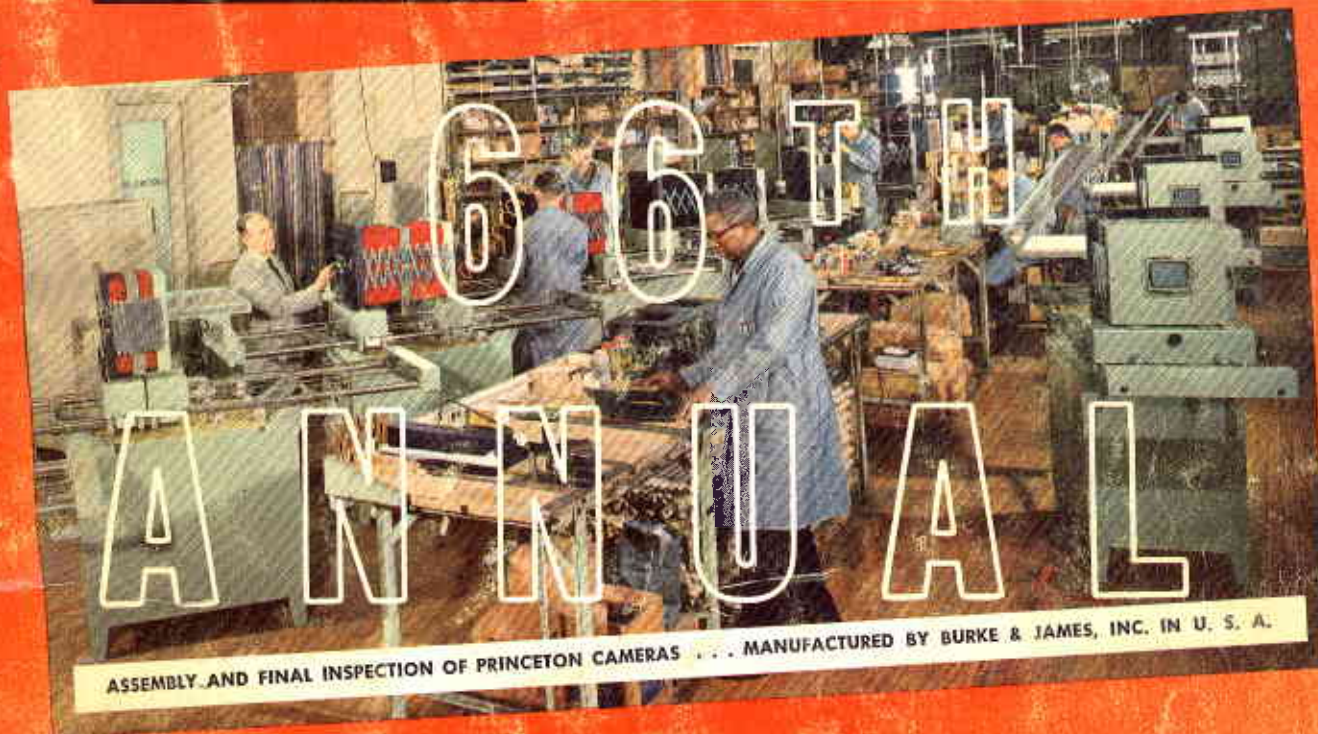
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**Burke
&
James**

**PHOTOGRAPHIC
EQUIPMENT
AND INSTRUMENTATION**



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66TH ANNUAL CATALOG NO. 663-A

**PHOTO TOOLS FOR
COMMERCIAL-INDUSTRIAL
SCIENTIFIC-GRAPHIC ARTS.**

PROFESSIONAL CAMERAS - ENLARGERS -

PHOTO LAB EQUIPMENT - LENSES

FOR EVERY USE - LABORATORY CAMERAS

- THIN - FILM OPTICS - PROCESS CAMERAS -

APOCHROMATIC LENSES - VACUUM PRINTING

EQUIPMENT - OVER 10,000 RELATED PRODUCTS



**WORLD FAMOUS
"LENS BANK" SERVICE**
Skilled Coating, Collimating,
Engraving

1897 Burke & James, Inc. 1963

WORLD'S FINEST PHOTOGRAPHIC EQUIPMENT FOR OVER 66 YEARS

321 SOUTH WABASH AVENUE • CHICAGO, ILL., 60604-USA •

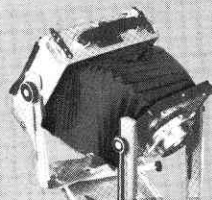
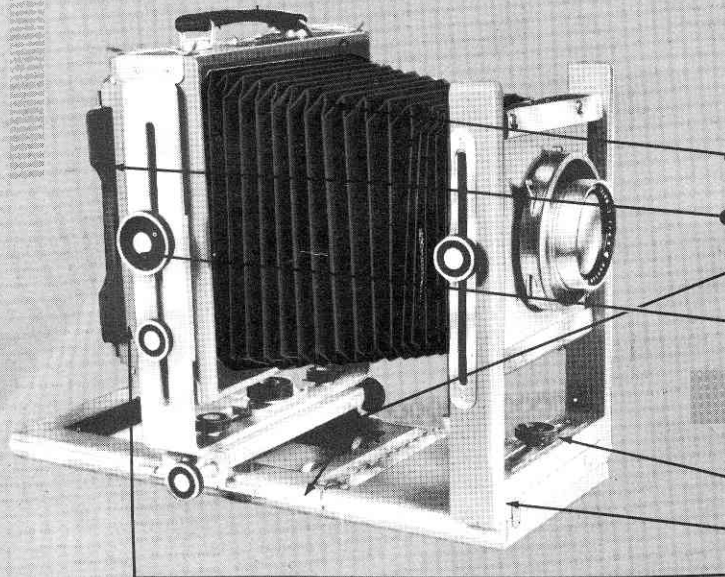


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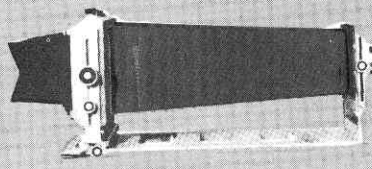


BURKE & JAMES COMMERCIAL VIEW CAMERA

4x5 - 5x7



Full Correction Controls



Double Extension Bellows and Bed

THE CAMERA OF 1001 USES — FOR EVERY PROFESSIONAL AND AMATEUR NEED.

GREAT FEATURES THAT MAKES B & J VIEW THE OUTSTANDING VALUE IN ITS PRICE CLASS

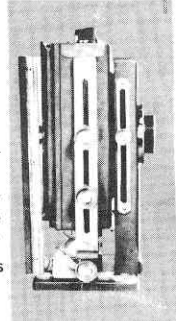
SPECIFICATIONS:

- **BELLOWS:** Bellows provides full 21 inch extension. Demountable extension bed with metal inset track for smooth operation — and perfect back alignment.
- **FULL HOODED FOCUSING SCREEN:** Has full size ground glass folding type focusing hood. Hood cuts off top, bottom and side light — makes it easy to arrange composition.
- **WIDE FOCUSING TRACK:** Wide focusing track of all metal construction, provides for smooth easy rack and pinion focusing. Lock lever permits adjustment of friction on the focusing action to suit the operator.
- **RIISING - FALLING ADJUSTMENTS:** Front adjustments include a full 5 inch rise with 3 1/4 inch horizontal shift. Rear adjustments include 7 inch rise with full 5 inch horizontal shift.
- **STURDY** — A life-time camera for the serious worker. All 4 x 5", 5 x 7" and 8x10 B & J View camera structural parts are made of steel or polished aluminum and knobs of aluminum and brass. Note well that all moving structural parts are metal to metal; and wood is used only as housing and supporting member for the structural metal parts, thus reducing the overall weight of the camera and yet providing for maximum wear.
- **UNLIMITED SWING - TILT:** The angle of horizontal swing on both front and rear and the angle of vertical tilt on both front and rear exceeds the capacity of the lens.
- **ATTRACTIVE FINISH:** The camera is attractively finished in a durable silver-grey with red bellows. Metal trim in bright chrome finish.
- **REVERSIBLE BACK:** The reversible back makes it simple to switch from vertical to horizontal pictures. Metal dowel pins and snap springs hold the back securely in position.
- **GREAT RIGIDITY:** Front standards support the heaviest of lenses.

FIELD OR STUDIO

FOLDS COMPACTLY: The removable bed extension permits these cameras to fold compactly for easy portability. Carrying cases are available as shown in the accessory listing. — Folded size 5 3/4 x 11 1/2 x 9 1/2". Weight 6 1/2 lbs.

APPROVED CAMERA SUSPENSION: The slotted "U" Standards with two sets of knobs on each side of the B & J View Camera provides for two kinds of pivoting. By using one set of knobs, one can pivot the camera on the optical center or by using the other set of knobs one can pivot off center.



4x5" and Smaller Field Cameras

- No. 411-A(w/3Y)—4x5" B&J Commercial View Camera as described above (no lens, holders, or accessories)..... \$124.50
- No. 402-A(U)—4x5" B&J View Camera with 6 3/8" f/4.5 coated anastigmat lens in shutter..... \$149.50
- No. 414-A(U)—4x5" "Economy Camera" as above except with 5 1/4" f/4.5 coated lens in self-cocking shutter..... \$149.50
- No. 404-A(U)—4x5" POLAROID—B&J View Camera Outfit with 5 1/4" f/4.5 Carl Zeiss (Jena) Tessar in Compur M-X shutter, Style 500 Polaroid 4x5 cut film adapter and carrying case..... \$274.50
- No. 405-A(U)—4x5" PUBLICITY OUTFIT. Consists of B&J View Camera with 5 1/4" f/4.5 German Anastigmat Coated lens in Compur M-X shutter for general use. Also, 12" f/7.7 Coated Dallmeyer Telephoto Lens in self-cocking X shutter for "head-and-shoulder" publicity pictures without distortion. Three cut film holders and carrying case for above. Portable sturdy Camera Stand — all ready to go to work..... \$349.50
- No. 415-A(U)—Professional 4x5" B&J View Camera with coated 6" f/6.8 Berlin Dagor lens in Compur M-X shutter..... \$249.50
- No. 409-A(U)—COLOR OUTFIT: 4x5" B&J Commercial View Camera, 6" f/9 Goerz "Red-Dot" coated ARTAR lens in Compur M-X shutter; three 4x5 cut film holders; carrying case for above..... \$299.50

LENSES AND ACCESSORIES

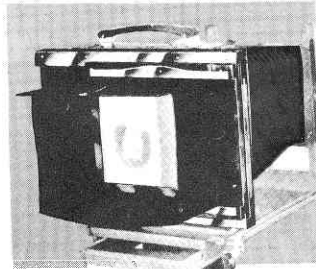
- No. 434-A(V)—WIDE ANGLE Schneider Angulon 3 1/2" f/6.8 coated lens in Compur M-X on special recessed board..... \$124.50
- No. 435-A(U)—6 1/2" f/6.8 Ernemann coated anastigmat lens in self-cocking X shutter..... \$44.50
- No. 423-A(V)—Schneider SYMMAR coated lens 6" (150mm) f/5.6 in Compur M-X Synchro shutter..... \$164.50
- No. 433-A(U)—SUPERB Schneider Xenotar coated lens 6" f/2.8 in New Style Compur X shutter..... \$349.50
- No. 441-A(W)—Camera Carrying Case for camera, holders, accessories, etc. —17 3/4 x 12 1/2 x 7 1/4" —10 lbs..... \$29.50
- No. 436-A(W)—Reducing Back (see page 36)..... \$36.00
- No. 437-A(W)—Sliding Carriage to make 2 exp. on 4x5..... \$48.00
- No. 438-A(U)—4x4" Lensboard adapter to camera..... \$16.00
- No. 444-A(W)—B&J Portable Studio Stand..... \$44.50
- No. 445-A(U)—Perle focusing cloth, 36x48"..... \$2.50
- No. 446-A(U)—Spare 5 1/4 x 5 1/4" wood lens board..... \$3.00
- No. 485-AA—Mounting customers lens to board (labor) — Net..... \$4.00

5x7" B & J Commercial View Camera

- No. 464-A(W/3Y)—5x7" B&J Commercial View Camera described above (no lens, holders or accessories)..... \$149.50
- No. 453-A(U)—5x7" View Camera with coated Bausch & Lomb 7 1/2" f/4.5 Tessar lens in self-cocking shutter..... \$225.50
- No. 455-A(U)—5x7" View Camera with coated Schneider Xenar 7 1/8" f/4.5 in self-cocking shutter..... \$239.50
- No. 457-A(U)—COLOR OUTFIT: Consisting of 5x7" View Camera; 8 1/4" f/9 Goerz "Red-Dot" Artar coated lens in Compur M-X shutter; three cut film holders; carrying case for above..... \$349.50
- No. 459-A(U)—PROFESSIONAL OUTFIT: Consisting of 5x7" View Camera; 7 1/8" f/6.8 Goerz (Berlin) Dagor coated lens in self-cocking X synchro shutter; three cut film holders; carrying case for above..... \$274.50

SPECIAL 4x5" and 5x7" MODELS with Sliding Carriage Backs

- No. 467-A(W)—5x7" View Camera as above except with sliding carriage to make two 3 1/2 x 5" exposures on one 5x7" film (Bare camera—no lens, holders, etc.)..... \$179.50
- No. 468-A(W)—TWO-ON-4x5" Sliding Carriage Back on 5x7" View Camera Chassis (bare camera)..... \$179.50



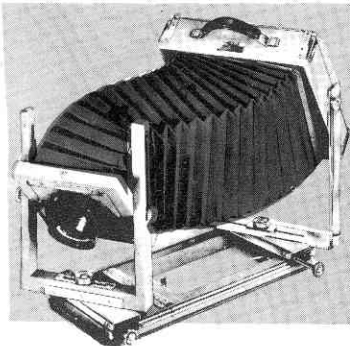
LENSES AND ACCESSORIES

- No. 490-A(V)—WIDE ANGLE Schneider Angulon 4 3/4" (120mm) f/6.8 Coated in Compur M-X shutter..... \$144.50
- No. 491-A(V)—Schneider SYMMAR 7 1/8" f/5.6 coated in Compur M-X synchro shutter..... \$184.50
- No. 473-A(U)—8 1/4" f/4.5 Carl Zeiss (Jena) Tessar, coated in Compound shutter..... \$179.50
- No. 474-A(U)—8 1/4" f/6.8 GOERZ (Berlin) DAGOR, coated in Compur M-X shutter..... \$189.50
- No. 475-A(U)—12" f/4.5 GUNDLACH RADAR lens in Betax self-cocking shutter..... \$169.50
- No. 480-AA(W/12Y)—5 x 7" Fidelity Cut Film Holder..... \$6.50
- No. 482-A(W)—Camera Carrying case for camera, holders, accessories, etc. 17 3/4 x 12 1/2 x 7 1/4" —10 lbs..... \$29.50
- No. 483-A(W)—Film Holder case for 24—5x7 holders..... \$24.50
- No. 484-A(U)—Spare 5 1/4 x 5 1/4" wood lens board..... \$3.00
- No. 485-AA—Mounting Customers lens to board (labor)..... (Net) \$4.00

8 x 10" - 11 x 14" - 8 x 20"
COLOR or BLACK & WHITE

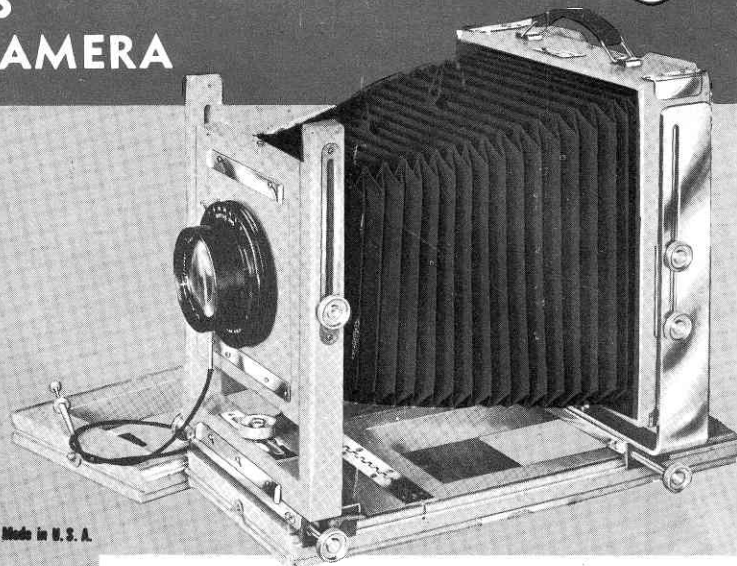
Designed for all types of exacting studio photography

Here is the camera of cameras for general all-around studio use. For fine portraiture, still life, commercial studio, pictorial, illustrative and record photos as well as for copying, this great B&J 8x10" Commercial View has won the acclaim of photographers everywhere.



ADJUSTMENT RANGE EXCEEDS ALL NORMAL CAMERA REQUIREMENTS

The adjustment range of the B&J 8x10 inch View Camera far exceeds the normal covering power of a normal lens. It gives you safety reserve that is always there should it be needed.



Made in U.S.A.

When you work with this fine camera you will come to appreciate more and more its general versatility and the wide range of adjustments it provides. For difficult angle shots where control of perspective is essential, you can take full advantage of the covering power of your lens. Note the illustrations below. The big, square type, double extension bellows has extra deep gussets permitting these unusual angle adjustments without strain on the bellows.

SPECIFICATIONS:

CONSTRUCTION — Kiln-dried hardwood, sealed to prevent size change, fitted with aluminum and chrome plated hardware at all wear points.
BED — Three section hardwood, hinged for portability. Removable extension section. Lined with high-test aluminum guide rails for carriage travel and support. Focusing rear rack integral with rail guide.
BELLOWS — Modern bevel-corner construction with reinforced gussets for sturdy long life. Bellows extension for 8 x 10"—29"; for 11 x 14"—43"; for 8 x 20"—29".
FRONT BOARD — Oversize board for those large lenses used on large format cameras. 8 x 10" and 8 x 20" have 6x6" boards and the 11 x 14" camera except 9x9" board.
CARRIAGES — Solid metal carriages for both front and back. Both right and left-hand controls. Focusing knobs adjacent to carriage lock for quick easy manipulation. Focus at lens support or film support as desired.
U-STANDARDS — Sturdy U-standards are mounted on the movable carriages. Slotted at the base, they may be turned at any angle from the center line of the camera; or at will, they may slide right or left as desired. The vertical arms are also slotted to raise or lower the lens or camera body as desired. Swing on vertical axis is also unlimited. The lens board standard normally moves squarely up or down. By releasing a pair of guides back of the lens board retainer, you can easily tilt the lens as required.
RISE and FALL — Front U-standard permits a total movement of 3". The rear U-standard provides 6 3/4" movement.

SWINGS — Unlimited swings are available as indicated.
HORIZONTAL MOVEMENT — Slots in front lens support permit 3 1/2" movement to right or left. The rear adjustment is 7".
REVERSIBLE BACK — All cameras have removable camera backs which can be used for either vertical or horizontal pictures. (The 8 x 20" camera is not reversible).
DIMENSIONS — When folded the cameras readily fit into standard carrying case. 8 x 10" folds to 6 1/2 x 14 3/4 x 12 3/4", weighs 13 1/2 lbs.; 11 x 14" camera folds to 9 1/2 x 19 x 20", weighs 24 lbs.; 12 x 20" camera folds to 8 x 14 3/4 x 26", weighs 20 lbs.
FILM HOLDERS — Camera backs accept standard plate and cut film holders. The 8x10" and 8x20" sizes are of the ASA type. The 11x14" camera accepts Sterling Type holders only. (See page 43 for explanation of types.)
CAMERA SUSPENSION — The slotted "U" Standard with two sets of knobs on each side of the B & J View Camera provides for two kinds of pivoting. By using one set of knobs, one can pivot the camera on the optical center or by using the other set of knobs one can pivot off center.
FOCUS FROM FRONT OR REAR — Focusing adjustments are provided at both front and rear of camera. The extra wide focusing track is recessed into the bed. The gear ratio on the rack and pinion drive has been computed to provide a smooth, positive focusing action with metal-to-metal contact.

8 x 10" CAMERA

- No. 511-A (W)—8x10" B & J Commercial View Camera as described (less lens and accessories) \$199.50
- No. 512-A (U)—8x10" B & J View Camera as above with 12" f/4.5 Bausch & Lomb Tessar, coated in synchro shutter, one cut film holder..... \$449.50
- No. 513-A (U)—8-10" B & J Camera as above with 12"—f/4.5 Gundlach Radar in Self-Cocking shutter (not coated)..... \$299.50
- No. 514-A (U)—8x10" Camera outfit like 513-A(U) except with coated lens and X synchro shutter \$334.50
- No. 515-A (U)—8x10" Camera with 12"—f/4.5 coated Carl Meyer Anastigmat in M-X synchro shutter..... \$349.50
- No. 516-A (U)—Special 8x10" View Camera Chassis with 5x7" Reversible Camera Back (no lens or holders)..... \$199.50
- No. 517-A (U)—Special 8x10" View Camera Chassis with 4x5" Reversible Camera Back (no lens or holders)..... \$199.50

FURNITURE CAMERA

- No. 509-A (U)—Complete Outfit consisting of 8x10" B & J Commercial View Camera with 19 1/2" f/7 Bausch & Lomb Tessar in synchro shutter, three cut film holders, carrying case and B & J Studio Stand \$587.50

ACCESSORIES

- No. 522-A (V)—8x10" Double Cut Film Holder..... \$15.00
- No. 523-A (U)—8x10" Double Plate Holder..... \$21.00
- No. 530-A (W)—Reducing Backs (see page 41)..... \$48.00
- No. 529-A (W)—Sliding Carriage for 2 3/8" Negs. on 8x10" film..... \$99.50
- No. 520-A (V)—12"—f/4.5 Schneider Xenar, coated, in Compound-X synchro shutter \$375.00
- No. 521-A (U)—12"—f/6.8 GOERZ "Golden Dagor" coated in Acme M-X synchro shutter \$398.00
- No. 524-A (V)—7 1/8"—f/6.8 GOERZ (Berlin) Dagor coated in Compur M-X shutter (wide-angle) \$169.50
- No. 528-A (V)—6 1/2"—f/8 Schneider Super-Angulon, coated in Compur M-X shutter (wide-angle) \$495.00

11 x 14" CAMERA

- No. 555-A (W)—11x14" B & J Commercial View Camera as described (less lens, shutter and holder)..... \$324.50
- No. 552-A (U)—11x14" Camera Outfit as above with 19 1/2" f/6.3 Bausch & Lomb Tessar, coated, in barrel with iris, No. 6 Packard synchro shutter and one cut film holder \$499.50
- No. 553-A (U)—11x14" Camera Outfit as above with 16 1/2" f/5.5 Goerz (Berlin) Dogmar, coated, in barrel with iris, No. 6 Packard synchro shutter. No film holder \$494.50
- No. 554-A (U)—11x14" Camera Outfit as above with coated German Anastigmat 14 1/2" f/4.5 with No. 6 Packard. Synchro shutter, one cut film holder \$445.00

8 x 20" CAMERA

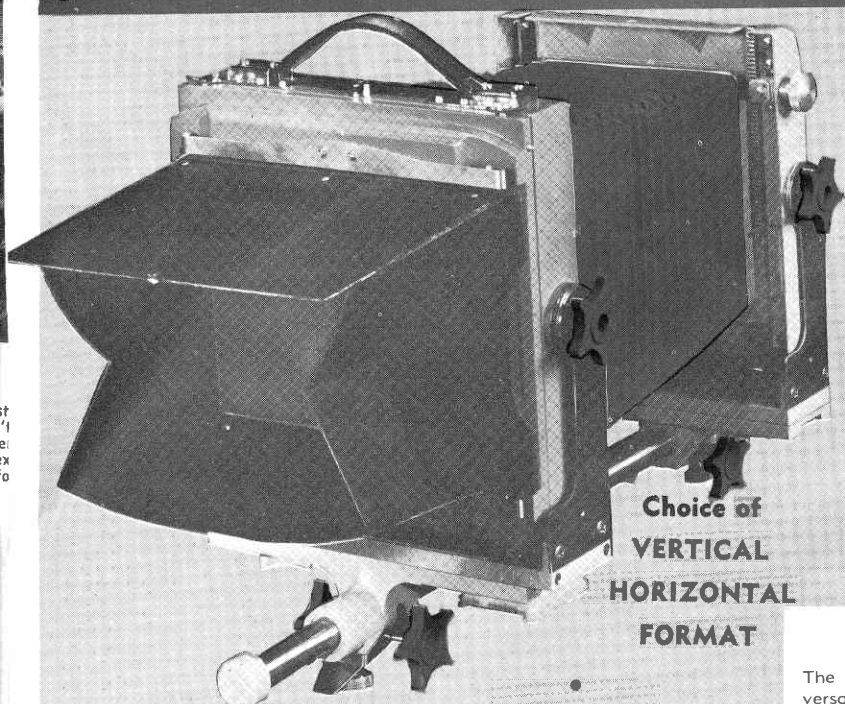
- No. 566-A (U)—8x20" Panorama or Banquet Camera as described (less lens and accessories) \$324.50
- No. 562-A (U)—8x20" B & J View Camera as above, complete with 16 1/2" f/7.7 Goerz (Berlin) Dagor in synchro shutter, with 1 cut film holder \$699.50
- No. 563-A (U)—8x20" B & J Banquet Camera, as above, complete with 14 1/2" f/5.6 Schneider Symmar, coated, in Compound synchro shutter, one cut film holder \$724.05
- No. 564-A (U)—8x20" B & J Panoramic Camera, as above, complete with 19 1/2" f/7 Bausch & Lomb Tessar in synchro self-cocking shutter, cut film holder and case \$689.50

ACCESSORIES

- No. 572-A (U)—8x20" Cut Film Holder..... \$39.50
- No. 573-A (U)—9x9" Recessed lens board (see p. 143) from..... \$28.00
- No. 574-A (U)—6x6" Recessed lens board (see p. 143) from..... \$18.00
- No. 567-A (V)—14 1/2"—f/5.6 Schneider Symmar in Compound X..... \$548.00
- No. 568-A (V)—19 1/2"—f/4.5 Schneider Xenar in barrel..... \$675.00
- No. 569-A (V)—8 1/4"—f/8 Super-Angulon in Compound X..... \$775.00
- No. 558-A (U)—14 1/2"—f/7.7 Goerz (Berlin) Dagor Ctd., shutter..... \$425.00
- No. 559-A (U)—16 1/2"—f/7.7 Goerz (Berlin) Dagor Ctd., shutter..... \$399.50
- No. 560-A (U)—19 1/2"—f/7.7 Goerz (Berlin) Dagor, Ctd., shutter..... \$469.50
- No. 574-A (U)—19 1/2"—f/7 B&L Tessar Ctd., shutter..... \$249.50

Special lens mounting, shutters, etc. on custom-basis available from our instrument shop. Please specify completely for quotation.

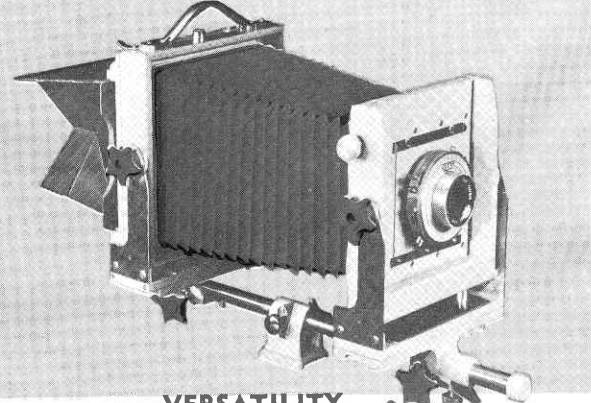
Note:—For complete listing of camera backs see page 41.



Choice of
VERTICAL
HORIZONTAL
FORMAT

REVERSIBLE BACK

Choice of Interchangeable
REDUCING and SLIDING CARRIAGE BACKS
ROLL - FILM MAGAZINES, ETC.



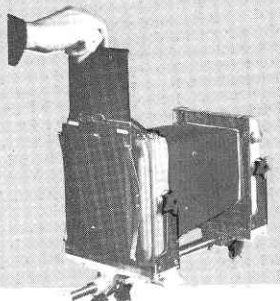
• **VERSATILITY** •

MADE IN U.S.A. BY
BURKE & JAMES, INC.

• SPECIFICATIONS •

- Size Overall — 12" x 9 1/2" x 20"
- Actual Weight — 12 lbs.
- Camera Body — Kiln dried hardwood
- Hardware — Chrome plated for wear.

Friction Drive



5 x 7" ORBIT CAMERA designed for versatility and ease of operation. The illustrator's "dream camera". Combining the one-hand control and versatility of the 4 x 5" all metal **ORBIT** camera with improved camera body (hardwood) and removable camera back, the 5 x 7" **ORBIT** is even more adaptable to meet your varied need. Instead of a revolving back, the model has a reversible back which can be replaced by a series of reducing backs, magazines, sliding carriages, etc. All for more versatility!

• CONTROLLED SWINGS •

Easily controlled swing adjustment for lens board or camera body. Rising front for perspective correction by precision rack and pinion control. Calibrated fine-ground precision focusing screens quickly tell you when the proper perspective correction has been attained. Lenses may be quickly interchanged to control depth of field, image size and spatial proportions. Standard 4 x 4" lensboards snap into place and are readily available.

• CHOICE OF MODELS •

• 5 x 7" CAMERAS •

- No. 601-A (W)—5 x 7" ORBIT camera with 7 1/8" (180mm) f/6.8 Goerz (Berlin) Dagor lens in Compur M-X (1/400th) shutter **\$349.50**
- No. 602-A (W)—ORBIT Camera as above with carrying case **\$384.50**
- No. 603-A (W)—5 x 7" ORBIT Camera with 7 1/2" Bausch & Lomb Tessar coated lens in self-cocking synchro shutter **\$299.50**
- No. 604-A (W)—5 x 7" ORBIT Camera as above with carrying case. . . **\$334.50**
- No. 606-A (W)—5 x 7" ORBIT Camera with 7 1/8" Series VIIa Protar lens in self-cocking shutter, synchro. Convertible lens with separate elements for 1 1/8" and 1 3/8" focus — combined focus 7 1/8" **\$389.50**
- No. 607-A (W)—5 x 7" ORBIT Camera as above with three cut film holders and carrying case **\$424.50**
- No. 611-A (W)—Bare 5 x 7" ORBIT Camera including 4 x 4" lensboard and camera back with focusing hood **\$174.50**
- No. 615-A (W)—SPECIAL 5 x 7" ORBIT CAMERA as above. Bare camera except with special 26" bellows **\$219.50**

• ACCESSORIES •

- No. 621-A (W)—Spare lens board 4 x 4" **\$4.00**
- No. 622-AA (W)—5 x 7" CUT FILM HOLDER — Fidelity **\$6.50**
- No. 623-A (W)—CARRYING CASE for No. 615-A (W) camera above **\$35.00**
- No. 630-AA (W)—CARRYING CASE for No. 615-A (W) camera above **\$42.00**
- No. 624-AA (W)—REDUCING CAMERA BACK 4 x 5" **\$27.00**
- No. 625-AA (W)—REDUCING CAMERA BACK — Lantern Slide **\$27.00**
- No. 626-A (W)—Coloroll Sliding Carriage for eight pictures 2 1/4 x 3 1/4" on roll of No. 120 film **\$89.50**
- No. 627-A (W)—KORONA FOTOROLL 70 for 330 pictures 2 1/2 x 3 1/4" on 100 ft. spool of film with counter **\$148.00**
- No. 628-A (W)—35mm Reflex Viewer with focal plane shutter, synchro for 36 exposures on standard cartridge **\$124.50**
- No. 629-A (W)—35mm Sliding Carriage back for 36 exp. 1 x 1 1/2" on standard 135 film **\$99.50**

• SPECIAL MODELS •

- No. 651-A (W)—4 x 5" ORBIT Reversible Back Camera with 4 x 4" lens-board (no lenses) **\$174.50**
- No. 652-A (W)—3 1/4 x 4" Lantern Slide ORBIT Camera with 4 x 4" lens-board, 4 1/8" f/4.5 KODAK Lens in synchro shutter **\$199.50**
- No. 653-A (W)—4 x 5" ORBIT Reversible Back Camera with 7 1/2" f/4.5 ORBITAR Anastigmat Lens in self-cocking synchro shutter, carrying case and three cutfilm holders **\$329.50**
- No. 654-A (W)—70mm x 100 ft. Rollfilm ORBIT Camera; sliding carriage for focusing; 6" f/4.5 Imported Anastigmat lens in Compur synchro shutter **\$485.00**
- No. 655-A (W)—2 1/4 x 3 1/4" Coloroll — ORBIT Camera with sliding carriage back for focusing — uses No. 120 film for color — 5 1/4" f/4.5 Coated Imported Anastigmat Lens in self-cocking synchro shutter. . . **\$319.50**
- No. 656-A (W)—35mm sliding carriage ORBIT Camera to make 2 x 2" slides (1 x 1 1/2" image) with 5 1/4" (135mm) f/4.5 Imported Anastigmat Lens Coated in synchro shutter **\$324.50**

• SUPPLEMENTS •

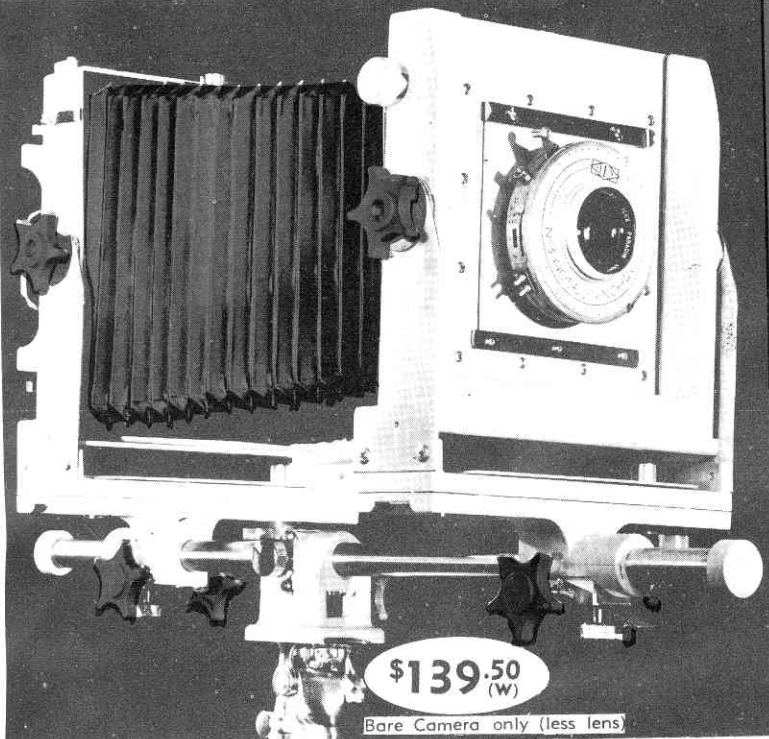
- No. 681-A (W)—4 x 5" Cutfilm Holder — Fidelity **\$4.50**
 - No. 682-A (W)—3 1/4 x 4 1/4" Cutfilm Holder — Fidelity **\$4.50**
 - No. 683-A (W)—2 1/4 x 3 1/4" Cutfilm Holder — Fidelity **\$4.50**
 - No. 684-A (W)—36 x 48" Perle Focusing Cloth **\$2.50**
 - No. 685-A (W)—B & J Folding Studio Stand 34". Measures closed and opens to 82" with 92" tilt head **\$44.50**
- Strobe Flash illumination is listed on pages 44, 51, 52. Other illumination equipment is available per index pages 146-147. Processing, Developing and Darkroom needs — see index.
- No. 694-A (V)—90mm (3 1/2") SCHNEIDER ANGULON WIDE ANGLE lens for 4 x 5" in Compur M-X shutter. **\$109.50**
 - No. 695-A (V)—120mm (4 3/4") SCHNEIDER ANGULON WIDE ANGLE lens for 5 x 7" in Compur M-X shutter. **\$144.50**
 - No. 688-A (V)—120mm (4 3/4") GOERZ (Berlin) DAGOR coated lens in Compur shutter f/6.8 **\$89.50**
 - No. 689-A (V)—150mm (6") GOERZ (Berlin) DAGOR coated lens in self-cocking synchro shutter f/6.8 **\$109.50**
 - No. 690-A (V)—180mm (7 1/8") GOERZ (Berlin) DAGOR coated lens in self-cocking synchro shutter f/6.8 **\$129.50**
 - No. 691-A (V)—15" f/5.6 Coated Telephoto lens in synchro self-cocking shutter **\$195.00**
 - No. 692-A (V)—20" f/5.6 Bausch & Lomb coated telephoto lens in self-cocking synchro shutter **\$387.00**

NEW 4x5" ALL METAL



● FEATURES ●

- **All metal construction.** — Improved design.
- **Light weight.** Pressure cast aluminum parts.
- **Corrosion proofed.** For use in any climate!
- **Revolving Back** enables you to compose and take pictures at any desired angle from horizontal to vertical.
- **Vertical Swings** about the horizontal axis up to 30°. Pivoted on the optical axis to correct distortion or to increase depth of focus in vertical plane. Available on both front and rear carriages.
- **Horizontal Swings** about the vertical axis up to 12° in either direction. For controlling depth of focus. Available front and rear.
- **Horizontal Shift** on both carriages allows movement 7/8" to avoid obstruction and for proper centering of subject.
- **Lens Elevation** by rack and pinion control of front board frame. For control of foreground.
- **Bellows** has laminated construction for long wear. Light proof.
- **Lever Release** of ground glass frame.
- **Big Control Knobs** for easy manipulation.
- **Quick-Focus** release on both carriages.
- **Metal Lens Board.** Standard 4 x 4" size.
- **Single Controls.** — Large knobs on right side of camera permit easy adjustment for best perspective.
- **Sliding Tripod Block.** — Easily balances camera on tripod for quick use.
- **Spirit Level.** — For quick leveling to check perspective.



\$139.50
(W)

Bare Camera only (less lens)

Pictures in LIVING COLOR

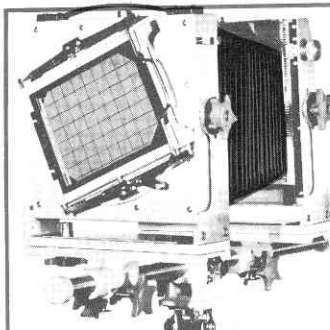
MANUFACTURED IN U.S.A.

The choice of our best illustrators! Orbit Camera design allows full freedom of action! Plan your illustrations in color — this camera does the work. So easy to manipulate. It's really a pleasure.

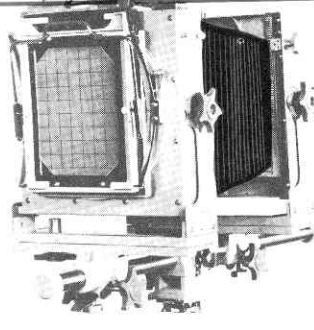
● SPECIFICATIONS ●

Vertical Swing — 30°
Rising Front — up 3" — down 1"
Revolving Back — 360°
Bellows Draw — 3 5/8" to 16"
Size Overall — 11 1/4" x 8" x 20"

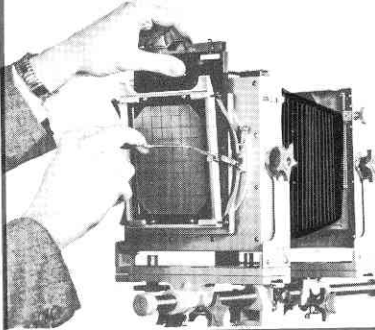
Horizontal Swing — 12°
Horizontal Slide — 7/8"
Lens Board — Std. 4 x 4"
Sliding Tripod Block —
Shipping Weight — 17 lbs.



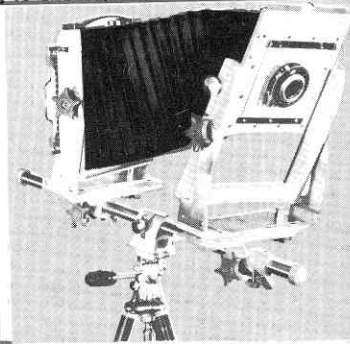
Full 360° revolving back permits use at any desired angle for best composition. Easy free manipulation with positive lock lever when desired angle is found.



Rear view camera showing the sturdy construction and clean design lines. Stainless steel U-Std. supports maintain overall squareness.



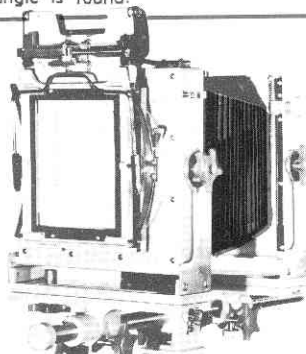
Easy loading of cutfilm holder in camera is ensured by the large lever release. It pulls the ground glass retainer away and opens the holder socket with ease.



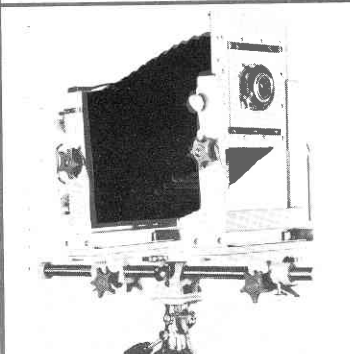
Extreme flexibility is obvious in the above illustration. Note rise and tilt of the lens about both axes! Also note swings at the rear carriage, and adjustable tripod block.

● PRICES ●

- No. 741-A(V)—4x5" All-metal ORBIT CAMERA with 6" (150mm) GOERZ GOLDEN DAGOR lens in Compur M-X shutter (1 sec. to 1/400th) . . . \$295.00
- No. 744-A(V)—4x5" ORBIT CAMERA as above but with 6" (150mm) Schneider SYMMAR lens in Compur M-X shutter (1 sec. to 1/400th) . . . \$275.00
- No. 702-A(W)—Fitted carrying case for above . . . \$35.00
- No. 703-A(W)—Metal lens board (4 x 4") for above . . . \$4.00
- No. 704-A(W)—4 x 5" Cutfilm holder — Fidelity . . . \$4.50
- No. 720-A(U)—4 x 4 x 5/8" Recessed Lensboard . . . \$9.00
- No. 705-A(W)—Bare Camera only (less lens) . . . \$139.50
- No. 718-A(V)—4 x 5" ORBIT Camera with 6 1/2" f/4.5 coated Orbital lens for general work; 3 1/2" f/6.8 coated Orbital wide-angle lens for close-up; 12" f/4.5 coated Tele-Orbital lens for distant shots. All lenses in synchro shutter. Carrying case for above with six double cutfilm holders . . . \$495.00
- No. 719-A(V)—ULTRA OUTFIT consisting of ORBIT Camera as above, with the following optics:
90mm f/6.8 Schneider Super Angulon Lens
150mm f/6.8 GOERZ GOLDEN DAGOR Lens
9 1/2" f/5.6 Schneider Symmar Convertible Lens
All mounted for above with six double cutfilm holders . . . \$765.00
- No. 710-A(W)—B & J Monorail Studio Stand . . . \$44.50
- No. 715-A(W)—SPECIAL 4 x 5" ORBIT as above except with 26" bellows extension . . . \$189.50
- No. 714-A(W)—CARRYING CASE for 715-A(W) camera . . . \$42.00
- No. 717-A(U)—LONG BELLOW'S ORBIT CAMERA No. 715-A(W)—complete with 7 1/2" f/4.5 B & L Tessar coated lens in synchro shutter, film holder and carrying case . . . \$295.00

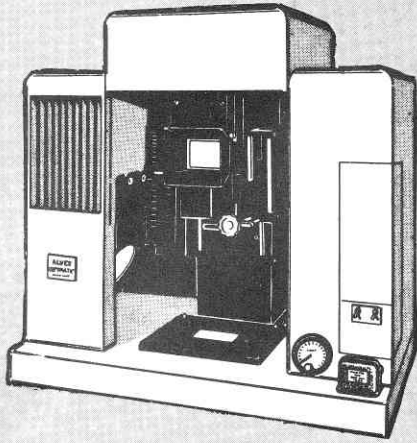


Installation of the new 4 x 5" POLAROID cutfilm holder. Permits making 10-second pictures on the spot. Sturdy camera construction easily supports the increased weight. Positive focal - plane positioning makes for sure-shot needle sharp pictures every time.



Controlled foreground with rising front board frame.
Rack and pinion adjustment with lock at the desired position.
Architectural photography is easy with such important aids.
Oversize sturdy front frame is clearly shown above.

COPYING—QUANTITY PRODUCTION SIMPLIFIED



PAKO COPYMATIC

70mm.
35mm.

●
COLOR
or
Black & White
●
Automatic Exposure.

100 Ft. Spools

SPECIFICATIONS

DIMENSIONS — 36" W x 24" D x 35" H.
DOMESTIC SHIPPING WEIGHT — Approx. 290 lbs.
EXPORT SHIPPING WEIGHT — Approx. 325 lbs.
NET WEIGHT (Less Magazine) — Approx. 192 lbs.
VOLTAGE — 115 V 50/60 cycle A. C. — **CURRENT** — 4.5 amps.
REFLECTED LIGHT SOURCE — (2) 150 W Lamps
TRANSMITTED LIGHT SOURCE — (1) 30 W Lamp
TIMER RANGE — 0-15 sec. (Adjustable)
EXPOSURE — Av. 2-4 sec. B/W. Av. 4-8 sec. Color Dupe Material
NEGATIVE SIZE — 35mm 1-5/32 x 1 1/8 — 70mm 2 1/2 x 3 3/8"
PRINT SIZES COPIED — on 35mm thru 3 3/4" x 5 1/4" — on 70mm thru 8" x 10 3/4"
RANGE OF REDUCTION — 1 to 1 to 3.2 diameters
LENS — 100mm/ F4.5 Coated
FILM MAGAZINE — Modified Beattie Portronic 35mm or 70mm
WEIGHT — Net 4 lbs. Gross 6 lbs.

SIMPLIFIED PROCESSING

Complete 100 ft. rolls of film are easily developed, fixed and dried by using WATSON ECONOMY Equipment listed on page 88 or Nikon on page 99. Shorter lengths of film may be processed by using 36"x70mm reel No. 8909-A in available deep tanks.

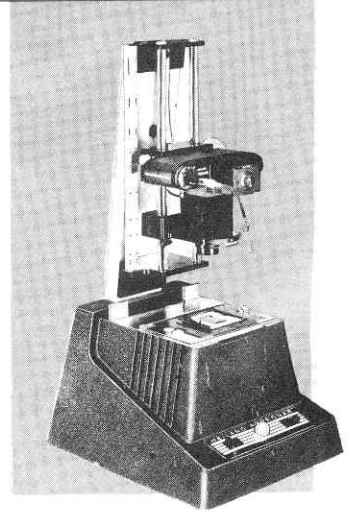
Projection printing from same-size to over-size or selected areas of copy is easily done via Pakomatic Printer or SOLAR® Production Enlarger listed elsewhere in this catalogue.

- No. 1261-A—70mm PAKOMATIC Copy Camera complete with lens, lights, film magazine and ten assorted copy masks of your choice—ready to go to work for younet **\$2200.00**
- No. 1262-A—Spare 70mm magazine for above.....net **\$350.00**
- No. 1263-A—35mm PAKOMATIC Copy Camera complete with lens, lights, film magazine and ten assorted copy masks of your choice—ready to go to work for younet **\$2200.00**
- No. 1264-A—Spare 35mm magazine for above.....net **\$350.00**

HEILAND REPRONAR

READY TO GO TO WORK FOR YOU
\$350.00

COLOR COPIES
36 Exp. Spools
LOW FIRST-COST



SIMPLE TO OPERATE

A girl who can take pictures with a good amateur camera can easily learn to handle the HEILAND REPRONAR in a hour! The simple instructions with each copy camera are easy to follow. No calculations are necessary. A wide range of material from 2 1/4 inch slides to single frame film strips can be copied in color!

VARIABLE MAGNIFICATION

You decide how much of the original picture is to be reproduced! The simple instructions with the outfit enable you to change the scale at will. STROBE-TYPE illumination assures perfect sharp reproduction. The color scale is controlled and the final result is magnificent. Direct viewing of the field ensures perfect results.

RAPID SERVICE

Ordinary 35mm color film such as is used in amateur-cameras is used. Processing is prompt and hence delivery to your customer is all he expects. Photo-finishers and shops processing Ektacolor and similar materials can finish the film in their own shops. Others may use Kodachrome or similar materials. All are finished promptly for amateurs and users of this equipment.

- No. 1251-A (Net)—35mm HEILAND REPRONAR COPY CAMERA and light source with 4 film holders, 2 filters, caps, dust cover, etc., ready to work **\$350.00**



"Panoram 120"



View Camera

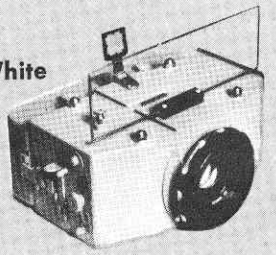
USES STANDARD 120 ROLL FILM

Film Held in Flat Plane — No Distortion!

Above views, 7" wide, were made with the Panoram 120 wide-angle camera, using standard 120 roll film. Camera covers an extreme wide angle of view without the distortion common to circuit cameras. Custom remodeled of light-weight aluminum. Lighter, more compact than other wide angle cameras. Excellent for convention groups, sports, etc., indoor and outdoor, in B & W or color.

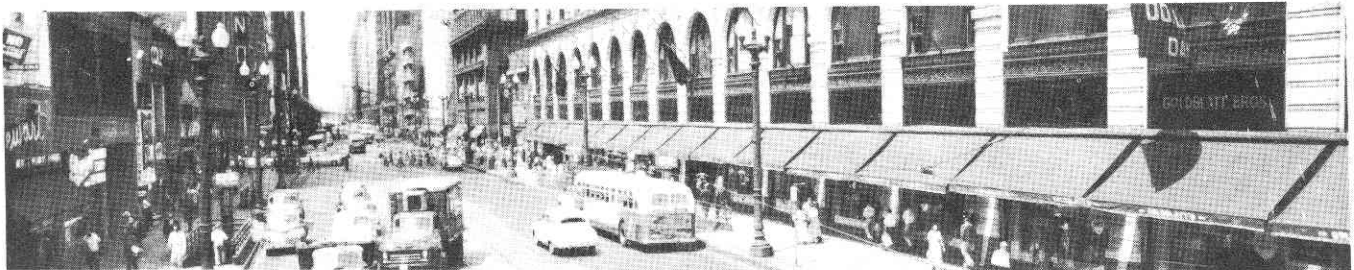
Makes four 7" x 2 1/4" exposures on standard 120 roll film. 5" F/4 Ross lens in nonfocusing mount. (Made views shown.) Single speed, 1/100 second only louver type shutter. Wide frame viewfinder. Weight only 9 lbs. Dimensions: 4 1/2" high, 10" wide, 8 1/4" deep. Two detachable magazines and detachable ground glass back included. Standard tripod socket.

COLOR
or
Black & White



Make Distortion-Free Wide-Angle Pictures On Readily Available No. 120 Roll-Film

- No. 1222-A (W) PANORAM 120 MARK II Camera 5" f/4 Lens in focusing mount for near and far pictures. Strobe-synchronized shutter — 1/100th second **\$199.50**
- No. 1224-A (W) PANORAM 120 MARK III Camera with 4 3/4 inch f/6.8 Goerz (Berlin) DAGOR, coated in full synchro variable speed shutter and focusing mount for far or near pictures..... **\$289.50**
- No. 1225-A (W) Fibre Carrying case for camera **\$27.00**
- No. 1226-A (U) Spare Magazines for Panoram 120..... **\$24.00**
- No. 1227-A (U) Spare Focusing Panel.... **\$18.00**



CAMERAS FOR SCIENTIFIC, INDUSTRIAL, HOSPITAL NEEDS

SELECTED CAMERA OUTFITS

Every item in these outfits has been carefully selected to give flexibility and high quality results at moderate cost. Experts in these specialized fields use this equipment. Moreover, the basic utility of these outfits can be greatly increased by the addition of items listed on our accessory pages.



PUBLICITY DEPT. OUTFIT

An all-around complete outfit to make you self-sufficient for those rush or special assignments. — Outfit consists of:
 8 x 10" View Camera.
 12" F/4.5 Anastigmat lens in self-cocking shutter.
 7" F/12.5 Wide Angle lens.
 Extra 5 x 7" Reducing Camera Back.
 3—8 x 10" Cut Film Holders.
 3—5 x 7" Cut Film Holders.
 Studio Stand and Focusing Cloth.
 No. 1438-A(V)—Publicity Outfit \$499.50

5x7 CLINICAL CAMERA OUTFIT

5x7" B&J Commercial View Camera with back for 3—2 1/4 x 5" Silhouette pictures on one film. Outfit includes Lens, shutter, Stand and 3—5x7 Cut film Holders and white Background.
 No. 1472-A(U)—Somato type Outfit. \$295.00
 No. 1473-A(U)—As above except with 10" lens \$385.00

KIDNAPPERS OUTFIT

4x5" REMBRANDT Portrait Camera complete with 6 1/2" f/6.8 Anastigmat Coated lens in self-cocking Shutter with cable release.
 No. 1401-A(V)—Kidnappers Outfit. \$189.50

DELUXE PORTRAIT OUTFIT

5 x 7" Rembrandt I Portrait Camera with 8" F/2.9 Dallmeyer Pentac coated lens in bbl. with iris. 2 3/4" opening Packard Shutter with Bulb and 10 ft. tubing.
 No. 1402-A(V)—Deluxe Outfit \$289.50

330 to 1400 Pictures per Load

ROLL FILM CAMERA OUTFITS FOR:
 SCHOOLS IDENTIFICATION CONVENTIONS PROMOTION COMMUNION GRADUATION



Complete outfits including lens, precision shutter, strobe synchronized illumination, camera, stand, etc. Merely load film in magazine, focus and start shooting as fast as subjects can take place! All components highest quality. Uses 100 ft. rolls of film, short rolls or even cut-film (special cut-film model—prices on request) Outfits combine the famous REMBRANDT camera on B & J folding studio stand, KORONA FOTO-ROLL 70 or FOTO-ROLL 35 Camera back with Hershey ring—lite, high output 50 watt-seconds electronic flash. Available at extra cost up to 200 WS. Precision coated lens in auto shutter—offering you the finest equipment at a low budget cost. Below you will find a wide variety of outfits described. If you have other needs, please write for quotation and specify needs fully.

No. 1425-A (U) 35mm x 100 FT. OUTFIT for single frame (3/4x1") exposures. Makes 1400 per full roll. . . \$397.00
 No. 1426-A (U) 35mm x 100 FT. OUTFIT for double frame (1x1 1/2") exposures. Makes 700 per full roll. . . \$397.00
 No. 1427-A (U) 70 mm x 100 FT. OUTFIT for 2 1/2 x 3 1/4" exposures. Makes 330 per full roll. \$397.00
 No. 1428-A (U) 70 mm x 100 FT. OUTFIT for 1 5/8 x 2 1/2" exposures. Makes 660 per full roll. \$397.00
 No. 1429-A (U) 35 mm x 46 EXPOSURE OUTFIT for 1x1 1/2" exposures on standard 135 color or B&W film in cartridge. \$345.00
 No. 1430-A (Net) ELECTRIC RECORDER FOR 70 mm OUTFITS 1427-A and 1428-A above. Photographs number or name from sitting card to edge of film for identification. Specify when ordering camera and add to price \$60.00

CUSTOM PORTRAIT OUTFIT

REMBRANDT Portrait Camera with split back to make 2—3 1/2 x 5 exp. on 5x7 film with 7 1/2" f/4.5 Bausch & Lomb Coated Tessar Lens in self-cocking shutter.
 DeGroff Airway Shutter Release.
 Bulb and 10 ft. tubing.
 6—5 x 7" Cut Film Holders.
 B & J Portable Studio Stand. (Less Case)
 No. 1468-A(V)—Custom Outfit \$319.50

SUPER PORTRAIT OUTFIT

Split 4 x 5" Rembrandt Portrait Camera (makes 2—2 1/2 x 4" exposures on one 4x5" film), with 6 1/2" F/4.5 Kodak Anastigmat coated lens in self-cocking shutter.
 6—4 x 5" Cut Film Holders.
 B & J Portable Studio Stand.
 No. 1412-A(V)—Super-Portrait Outfit . . . \$279.50

35mm PULSE RECORDING CAMERA

Remote Control No. 0-15 Recording Camera was designed for Radar image recording. With modification it may be used for other purposes.

Sturdy construction of this 35mm camera insures long life and dependability. Designed for use on 28 volt DC power supply with 10 amp. current, may be used on conventional 115 volt AC by means of an auxiliary rectifier-transformer kit.

Magazine accepts 100 ft. roll of 35mm perforated film to produce 1600 pictures 1 x 1", with 20 millisecond film transport time. Magazine weighs 4 1/2 lbs.

The camera body includes a 35mm f/2.3 pre-focused lens with iris diaphragm adjustable to f/1.6. The main shutter is of the scissors type, and operates with an auxiliary capping shutter.

Camera has supplementary recording chamber with internal illumination, which permits recording of clock face (not incl.), sequence identification, plus other information as coded thru six on-off lights. Weight — 9 lbs.

Control and intervalometer are mounted in a separate chassis weighing 5 lbs. Internal relays and external control knobs on selector switch permit choice of pulse rates from one output pulse for every other input pulse to one for every 12 input pulses. Also variations such as 30 consecutive output pulses for every 12 input pulses, etc. can be programmed.

- No. 1491-A (T)—No. 0-15 Radar Recording camera only with lens (35mm f/2.3) . . . \$485.00
- No. 1492-A (T)—100 ft. Magazine for above \$165.00
- No. 1493-A (T)—Control Box for above (28 volt) \$225.00
- No. 1494-A (T)—Periscop Mounting for above \$185.00

SURVEILLANCE and SURVEY CAMERA — Completely Automatic

Takes Pictures of any normally illuminated area without attention during any hours, day or night.

Makes continuous pictorial record of events in any area lit by the equivalent of normal room light, without conspicuous flash. If camera is concealed behind wall, showcase, placard, etc., subjects are unaware of its operation.

Outfit consists of electrically driven fully automatic Watson-Holmes camera controlled by two timers.

Quickly set for intervals of operation. Magazine loads easily in room light with 100 feet of film. Connecting camera to 115 v. 60 cycle AC. starts operation.

Camera complete with lens suited for normal light conditions. Needs no attention except for change of film. On a program of one picture every 20 seconds for 8 hours, with a 35mm unit, film need be changed only once a day. Other programs have proportionate film requirements.

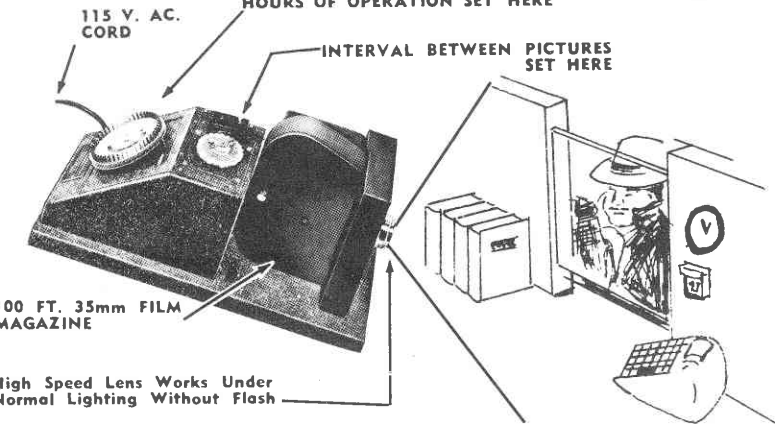
- Typical Programs: Here are a few of the operating programs possible:
- One exposure every 2 1/2 sec., 8-11 AM, 12-6PM, 6:30-10PM.
 - One exposure per minute, 6AM-6PM.
 - One exposure every 30 sec., 2-6AM, 7-10AM, 11AM-5PM.
 - One exposure every 15 sec., 6PM-8AM.

Range of Programs: Minimum "on" or "off" period 30 min. Time adjustable by half-hour steps.

Interval between exposures adjustable from 2 1/2 sec. to one minute in 2 1/2 second steps, 1-60 minutes in 2 1/2 minute steps, 1-24 hours in on-hour steps.

- No. 1463-A (T)—16mm Surveillance and Survey Camera, 100 ft. capacity (4000 pictures), 1" lens \$1395.00
- No. 1464-A (T)—35mm Surveillance and Survey Camera, 100 ft. capacity (1400 pictures) 2" lens \$1495.00
- No. 1465-A (T)—70mm Surveillance and Survey Camera, 100 ft. capacity (330 pictures) 4" lens \$1965.00

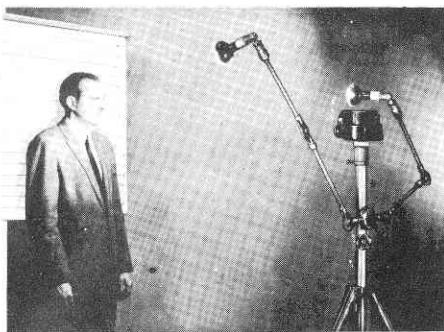
SELECT PROGRAM FOR YOUR NEEDS
 HOURS OF OPERATION SET HERE



USED BY BANKS, LOAN FIRMS, INDUSTRIAL SECURITY DEPARTMENTS, MARKETING RESEARCH FIRMS, MANAGEMENT CONSULTANTS, MUNICIPAL GOVERNMENTS, ETC.

Economy Identification Outfit

Black & White or 35mm Color



A new series of "mugging-cameras" for law enforcement agencies. Color pictures make identification sure!

100 ft. 35mm automatic camera outfit — modified Bell & Howell Eyemo single shot camera on stand, two strobe lights, calibrated background screen to show height of prisoner. Complete as described.

No. 1601-A (U) 18x24mm pictures (1600 per roll) \$849.50

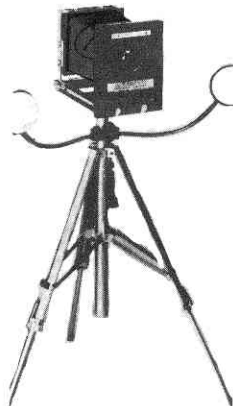
100 ft. 35mm manual camera outfit with high speed lens and shutter, flash synchronized lights, calibrated background to record height. Camera stand, etc.

No. 1606-A (U)—35mm Camera Outfit for 1x1 1/2 pictures (800 per 100 ft. Roll) \$745.00

36 exposure 35mm outfit takes standard cassettes, complete with lens, stand, flash connections, reflectors and height - calibrated background.

No. 1603-A (U) 24x36mm pictures (36 per roll) \$299.50

REMBRANDT "MUGGING" OUTFIT



A practical Complete Outfit including the latest model

REMBRANDT CAMERA.

Comes complete with sliding carriage. Makes 2 1/4 x 4" pictures on one std. 4 x 5" film. Lens is 6 1/2" in F/6.8 in self-cocking shutter. Speeds 1/100th to one sec. T & B (synchro).

TWIN-LAMP adjustable lighting with cord and switch. All secured to studio stand. Three double film holders, focusing cloth and adjustable stand included.

May be used with POLAROID QUICK - FINISH holder at \$49.50 net additional.

No. 1631-A (U)—REMBRANDT MUGGING OUTFIT \$239.50

Police Identification Outfit

A complete camera outfit especially designed for general utility, laboratory as well as police identification work. Camera makes two 2 1/4 x 4" exposures on one 4 x 5" film. Perfect for "mugging." Versatile and compact for all general police work. Enlarge, reduce or make pictures same size.

B & J View Camera has a 4 x 5" sliding carriage making 2 exposures (2 1/2 x 4") on a 4 x 5" film.

6 1/2" F/6.3 Anastigmat coated lens in self-cocking shutter (1-1/100 sec. T&B).

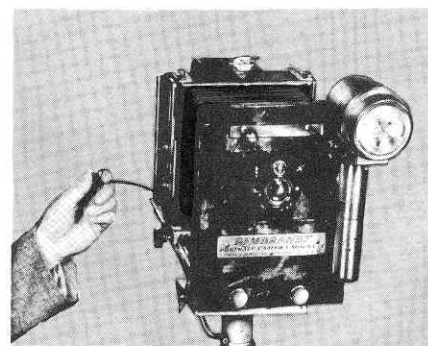
3—4 x 5" Film Holders.

Cable release.

Carrying case and B & J Portable Studio Stand with tilt head.

No. 1632-A (U)—POLICE ID Outfit. \$269.50

330 to 1400 Pictures per Load



Complete outfits including lens, precision shutter, strobe synchronized illumination, camera, stand, etc. Merely load film in magazine, focus and start shooting as fast as subjects can take place!

All components highest quality. Uses 100 ft. rolls of film, short rolls or even cut-film (special cut-film model — prices on request). Outfits combine the famous REMBRANDT camera on B & J folding studio stand, KORONA FOTO-ROLL 70 or FOTO-ROLL 35 camera back with Strobe unit, precision coated lens in automatic shutter — offering you the finest equipment at a low budget cost.

Below you will find a wide variety of outfits described. If you have other needs, please write for quotation and specify needs fully.

35mm x 100 ft. roll film outfit for single frame or double frame exposures (up to 1400 pictures per roll) as above.

No. 1661-A (U) \$397.00

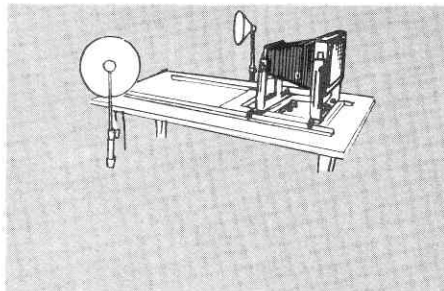
70mm x 100 ft. roll film outfit for 2 1/2 x 3 1/4" or 1 3/4 x 2 1/2" pictures (up to 660 pictures per roll) as above.

No. 1662-A (U) \$389.50

35mm x 36 exposure outfit for standard 135 color film or black and white.

No. 1663-A (U) \$344.50

REXO COPY OUTFIT



SIMPLIFIED COPY SET - UP

Comes complete with lens and shutter as well as film holders for the size shown. Camera will accept all the various camera backs listed under 5 x 7" GROVER on page 39. Lights and table support not included. Use wall or bulletin-board as a copy easel.

No. 1611-A (U) 4x5" REXO Copy Outfit. \$139.50

No. 1612-A (U) 5x7" REXO Copy Outfit. \$149.50

No. 1613-A (U) 3 1/4 x 4" Lantern Slide Outfit \$149.50

No. 1614-A (U) 4x5" Polaroid REXO Outfit \$194.00

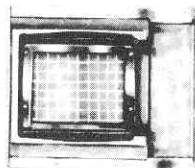
All above outfits permit you to focus image on ground-glass. You can see in advance what you are going to get. No. 1614-A (U) outfit includes the 4 x 5" POLAROID Style 500 4 x 5" magazine, to make finished pictures in a minute.—No darkroom required. Low first cost.

TIGHT BUDGET?

As suppliers to the government for over 50 years, we are prepared to help you meet budget problems.

If you are urgently in need of our products, we can help you meet your needs within the regulations. In some cases, we rent equipment. In other cases, special rental-purchase plans are used. Often, when your petty-cash limitations prohibit the purchase of an outfit, we can offer components at a price within your expenditure limits.

Write us fully regarding your needs, future plans, etc. Our staff will be happy to work with you to meet your photographic and optical needs.



Identoscope IX 2-on-4x5 In.

Modern version of the famous police department "mugging-camera". Fixed camera stand and seat for permanent installation. Makes full-face and profile view on same film. Camera with F/6.3 precision lens in self-setting shutter, support and pair of flood lights on adjustable arms. Identification board with interchangeable numbers. Outfit may be used for color as well as black and white identification.

No. 1635-A (U) Identoscope IX \$289.50

As above, except with synchronized flash-bulb electrical system controlled by shutter release.

No. 1636-A (U) Identoscope IX flash. . . . \$349.50

As above, except with synchronized high-speed strobe system for color identification, etc.

No. 1637-A (U) Identoscope IX strobe. . . \$429.50

Law Enforcement Outfit



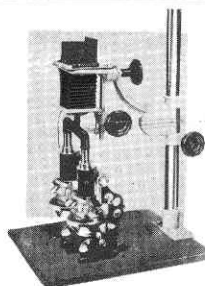
WATSON-HOLMES fingerprint camera outfit.—Case and six 2 1/4 x 3 1/4" cut film holders with above. 4 x 5" GROVER-POLAROID Universal Camera. Quick-Finish Polaroid 4 x 5" film for above. — (Style 400).

Folding Grover Camera Stand with tilt-top. Portable Flashlamp to make pictures after dark.

No. 1658-A (T) WATSON-GROVER Outfit \$495.00

SOLAR MICROSCOPE CAMERA

FOR MATCHING BULLETS, SPLINTERS, ETC.



MICROSCOPE NOT INCLUDED

Simple, low cost camera outfit with base to support your comparison microscope. Includes microscope adapter with exposure controlling shutter (standard 1" ocular). If your microscope requires other diameter, please specify size. This camera may also be used with single microscope or for direct photography.

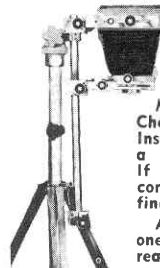
No. 1684-A (U)—2 1/4 x 3 1/4 Model \$145.00

No. 1685-A (U)—4x5 Model \$145.00

No. 1686-A (U)—4x5 POLAROID* MODEL (cut film) \$194.50

No. 1687-A (U)—5x7 Model \$165.00

EVIDENCE OUTFIT



Pictures in one minute! On-the-spot. Polaroid equipped 4 x 5" GROVER precision camera. Works at all angles! Complete with stand, lens and shutter.

May be used indoors, or in the field. Check your picture on the ground-glass. Insert film holder, click shutter and in a moment you have a finished picture. If you don't like the first one, you can correct errors etc, and make another finished picture in a minute.

A few minutes instruction and any one can make important pictures. Outfit ready to go to work at once.

No. 1695-A (U) Grover-Polaroid outfit \$289.50



Watson-Holmes FINGERPRINT CAMERA

Here for the first time is a camera that really meets the needs of the law enforcement officers. It is designed by experts and when you see it you will agree that it has everything that a camera of this type should have and more!

"2 1/4 x 3 1/4"

HERE'S WHY MORE AND MORE AGENCIES ARE CHOOSING WATSON-HOLMES

- **RUGGED AND SIMPLE** — the Watson-Holmes Fingerprint Camera is made to stand up under heavy usage. The mechanism has been simplified to provide dependable operation day-after-day, year-after-year.
- **SMALL SIZE** — the Watson-Holmes Camera will get into wall corners (within 3/8" of the facing wall!). Under ledges, desk tops, etc.
- **COMPLETELY SELF CONTAINED** — the Watson-Holmes Camera needs no tangling AC wires or heavy shoulder case. The camera contains its own light and power and is carried instantly ready for use.
- **NEW SYSTEM OF LIGHT DIFFUSION** — spreads light evenly over the entire film area — minimizes "bright spots".
- **PHOTOGRAPHS DIRECTLY INTO MIRROR, GLASS, ETC.** — exclusive baffling system prevents reflection of camera light bulbs from bouncing off polished surfaces and into lens. Excellent for those hard to get rear view mirror prints.
- **1-TO-1 RATIO** — **EXACT REPRODUCTION** — negatives show image same size as original subject automatically. Permits taking measurements directly from negative. Also is admissible as evidence where under-and-oversize negatives are not.
- **EXCLUSIVE!** Autograph Model (Pat. Pend.) photographs date and signature of operative on edge of film for incontestible evidence. Has "same size" measuring scale on opposite edge of film.
- **ADJUSTABLE LENS** — permits setting of camera to record textures and designs, whether light or dark. Prevents washed out areas or dark muddy prints.
- **USES STANDARD SUPPLIES** — takes 8 ordinary D size flash light cells, 4 standard lantern bulbs. Parts are available in almost every hardware or general store.
- **HIGH QUALITY COATED SHARP ANASTIGMAT LENS** — Variable lens aperture from F/4.5 to F/22 and variable shutter speeds from Bulb to 1/150 second if needed for out-of-the-ordinary shots.
- **LIGHTWEIGHT** — only 4 lbs. 12 ounces. Measures 5x5 1/2x12". Stout carrying handle. All Metal body. Gray finish.



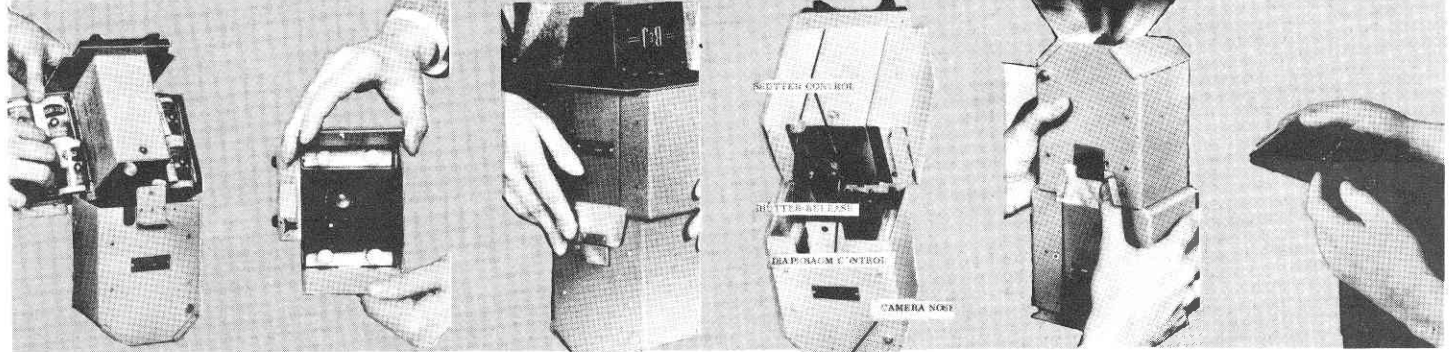
FROM DRIVER'S SEAT

FOR LAW ENFORCEMENT AGENCIES

- F/4.5 HIGH SPEED LENS!
- SAME SIZE PICTURES!
- ORDINARY BATTERIES!
- SIMPLE TO OPERATE!
- SAFE! SURE TO GET PICTURE!

No. 1711-A (V)—Camera only, less holders.....	\$135.00
No. 1712-A (U)—As above but 115V AC Model.....	\$150.00
No. 1713-A (W)—Sturdy Compartment Case.....	\$ 24.50
No. 1714-A (6W)—2 1/4x3 1/4 Double Cut-Film Holders @.....	\$ 4.50
No. 1715-A —2 1/4x3 1/4 Film Pack Adapters.....	Net \$ 13.95
No. 1706 (U)—Complete lot of Nickel-Cadmium Storage Batteries with built-in chargers.....	\$ 39.50

● LOOK AT THESE TERRIFIC FEATURES ●



Swing-out compartments hold 8 flash light batteries, makes loading and unloading quick, easy.

Bulb arrangement with reflective backing for even illumination. Simple shutter release mechanism coupled to lighting system, turns it on automatically when picture is taken.

Camera in use showing external light indicator and fingerprint operation.

Main camera and mechanism. Note simplicity and sturdiness of the unit.

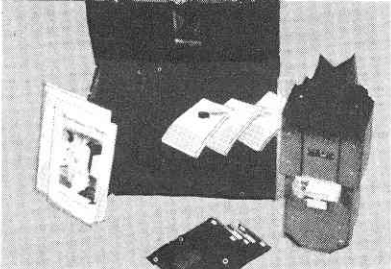
"Taking a tough shot" under a table ledge. See how snugly the camera fits back into the recess.

Inserting film holder on pack adapter. Film carriers slide smoothly in place are held tight-tight by spring back arrangement.

● WATSON - HOLMES COMPLETE OUTFIT ●

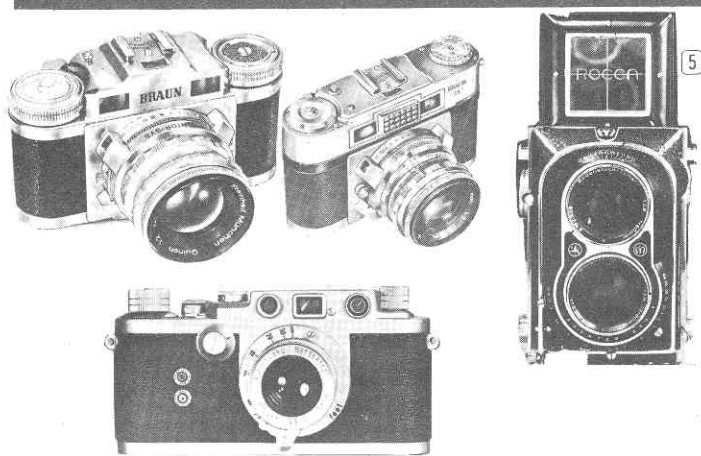
Everything you need to shoot the pictures except the film. Complete kit consists of camera, film holders, storage case and maintenance supplies. In short, all the things necessary to store the camera, carry it, hold the film and keep the camera clean. An outfit chosen to meet the needs of both the newly organized department first getting into fingerprint work and also the replacement needs of older organizations. Outfit includes WATSON-HOLMES MODEL II FINGERPRINT CAMERA as described above, sturdy lightweight fiber carrying case with reinforced corners and edges, 8 batteries, 4 lamps, 3 double cut film holders (hold 6 cut films), dustbrush, lens tissue and full instructions. — **SAVE — BUY THE COMPLETE OUTFIT.** **\$177.50**

No. 1710-A(W) WATSON-HOLMES COMPLETE OUTFIT



Burke & James, Inc., 321 So. Wabash Ave., Chicago 4, Ill., Phone: Area Code 312-427-8393

SPECIAL CLOSE OUTS — 16mm — 35mm — 120 CAMERAS!



Braun 35mm with Film Advance Lever — INTERCHANGEABLE LENSES COUPLED TO R. F.

Prontor SVS shutter, both M&X settings, speeds thru 1/300 sec. T&B. Built-in self timer. Double exposure prevention. Rapid film advance lever.
 No. 2237-A (W)—BRAUN 35 with 45mm f/2.8 Steinheil Lens.....\$64.50
 No. 2238-A (W)—Case for above.....\$6.95

BRAUN 35 SUPER II-B Similar to above, includes built-in Bewi light meter and film rewind lever.
 No. 2240-A (W)—BRAUN 35 Super II B with f/2.8 Coated Lens.....\$87.50
 No. 2241-A (W)—Eveready Case for above.....\$6.95
 No. 2242-A (W)—COMBI-CASE, Leather with chrome trim—for Camera, flash, meter, etc. Also accepts Leica Type Camera.....\$14.95

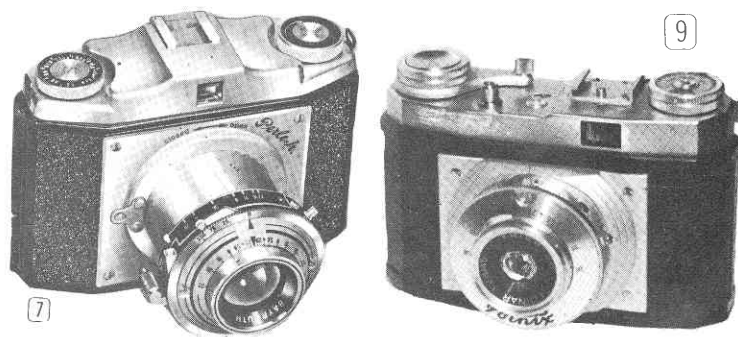
4 HONOR 35mm - HIGH PRICE FEATURES LOW PRICE TAG!

Compares with cameras at twice the price! Handles a wide range of subjects—from everyday shots in the home to Medical, Dental and Scientific photography. Choice of F/3.5 or F/1.9 lens. 1 - 1/500 sec., focal plane shutter synchronized for bulbs and electronic flash (FP-X). Coupled rangefinder, interchangeable lenses. Accepts all Leica mount lenses and accessories (except M type). Precision made throughout.

No. 2244-A (W)—HONOR 35 (Japanese) With 50mm f/3.5 Lens.....\$114.50
 No. 2245-A (W)—Eveready Case for above.....\$10.95

5 ROCCA REFLEX - Fast Lens Camera for 120 Roll Film

Waist level viewing and focusing of full negative size image. Twin 80mm F/2.8 Rodenstock Trinar lenses, Prontor SVS shutter speeds 1 - 1/300 sec., T&B. Synchronized at all speeds for bulbs and strobe light. Delayed release. Easy focusing, double exposure prevention, sports finder. 12 pictures, 2 1/4" square per roll. Made in Germany.
 No. 2207-A (W/2Y) ROCCA REFLEX F/2.8\$59.50
 No. 2208-A (W/2Y) CUSTOM LEATHER CASE\$10.50



7 Real Value! PERLE Jr. - 120 ROLL FILM CAMERA

Hard coated, F/3.5 (75mm) Steiner Lens for needlesharp color or black and white. Vario Shutter, speeds of bulb 1/25, 1/75, 1/200 sec. Flash Synch. for action indoors or out. 12 big pictures, a roll: 2-1/4x2 - 1/4 on standard. 120 roll film. Makes beautiful enlargements. Center Optical Eye-Level Viewfinder. Metal construction, Pebble grain black cover, satin finish metal trim. Shoe for standard flash, other accessories. FULLY GUARANTEED

No. 2252-A (W)—PERLE JR. 120 Camera with Ctd. Lens.....\$21.95
 No. 2253-A (W)—Eveready Case for above.....\$2.95
 No. 2255-A (W)—828 ADAPTER—Converts camera to make eight color slides for 2x2 mount on 828 Roll Film.....\$6.95

9 FOINIX 35mm with Film Advance Lever F/2.8 LENS FOR DIM OR BRIGHT LIGHT

Compact, easy to use camera that's perfect for travel and home photography. Makes an appreciated gift, too!

Simple flip of one lever advances film sets the shutter and advances the counter — all automatically.

Shutter has speed for low light, snapshots and action. (8 speeds, from 1-1/300 sec., plus "B"). It is synchronized at all speeds for strobe light and flash bulbs, and has built-in release delay so you can get in your own pictures.

The 45mm F/2.8 lens is excellent for color or black and white. Has anti-reflection coating for clearer pictures, focuses as close as three feet.

Clear optical viewfinder, standard tripod socket, accessory shoe. All metal construction.

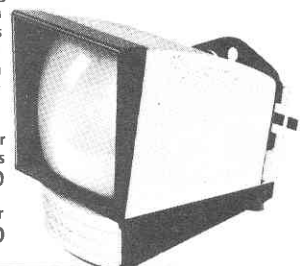
No. 2257-A (W)—FOINIX 35mm Camera with Ctd. f/2.8 Lens.....\$29.50
 No. 2258-A (W)—Eveready Case for above.....\$4.95

TABLE VIEWER FOR 16mm SLIDES — MINOX, MINICORD, MINOLTA, RICOH 16, ETC.

No. 2231-A (W/2Y)—Illuminated magnifying table viewer shows sub-miniature slides in 2 x 2" mounts at their brilliant best! Enlarges slides to over 4 3/8" square. Curved screen produces corner-to-corner sharpness, even lighting. Convenient compartment in base for storing connecting cord. 110 volt A.C.

No. 2231-A (W/2Y)—TELERAMIC VIEWER for sub-miniature slides in 2 x 2" mounts and strips\$28.50

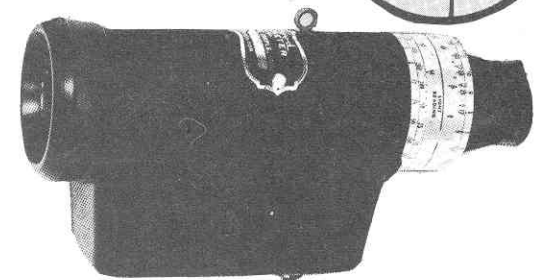
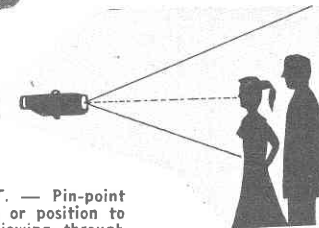
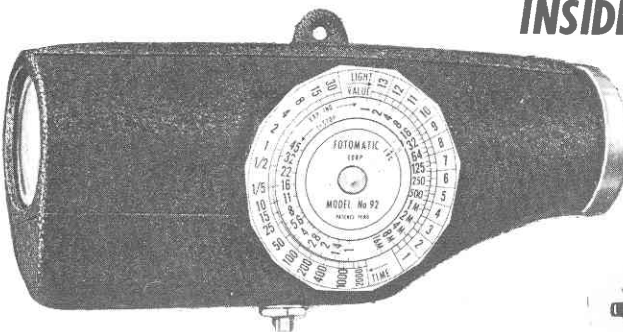
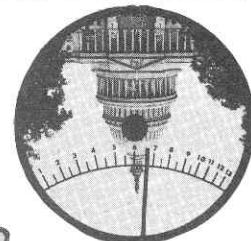
No. 2232-A (W/2Y) TELERAMIC VIEWER for Stylophot slides in strip mounts...\$24.50



PROFESSIONAL EXPOSURE -MEASURING EQUIPMENT FOR ALL PURPOSES

INSIDE THE FOTO-METER You See

1. The scene
2. The photosensitive spot
3. The meter reading



AN EXPOSURE METER WITH THE ACCURACY OF A BULLET. — Pin-point meter readings of small areas of your subject from any distance or position to give exact settings for top quality negatives or transparencies. Viewing through eyepiece shows scene, meter needle, scale, and center dot covering area measured. LVS 1-18 scale, 3 1/2° angle of measurement Polaroid scale. F/stops F/1-F/45. Lightweight, shutter speeds 30-1/2000 sec. Film speeds 0.2 to 6400.— 8-80FPS, movie setting.

Portable. Operate on miniature mercury battery with 2 year life. Calibrated for both still and cine settings. Extremely accurate and sensitive. Measures 7x3x2", weighs only 12 ounces.

No. 2235-A(U) -ECONOMY FOTOMETER No. 92 including case \$49.50

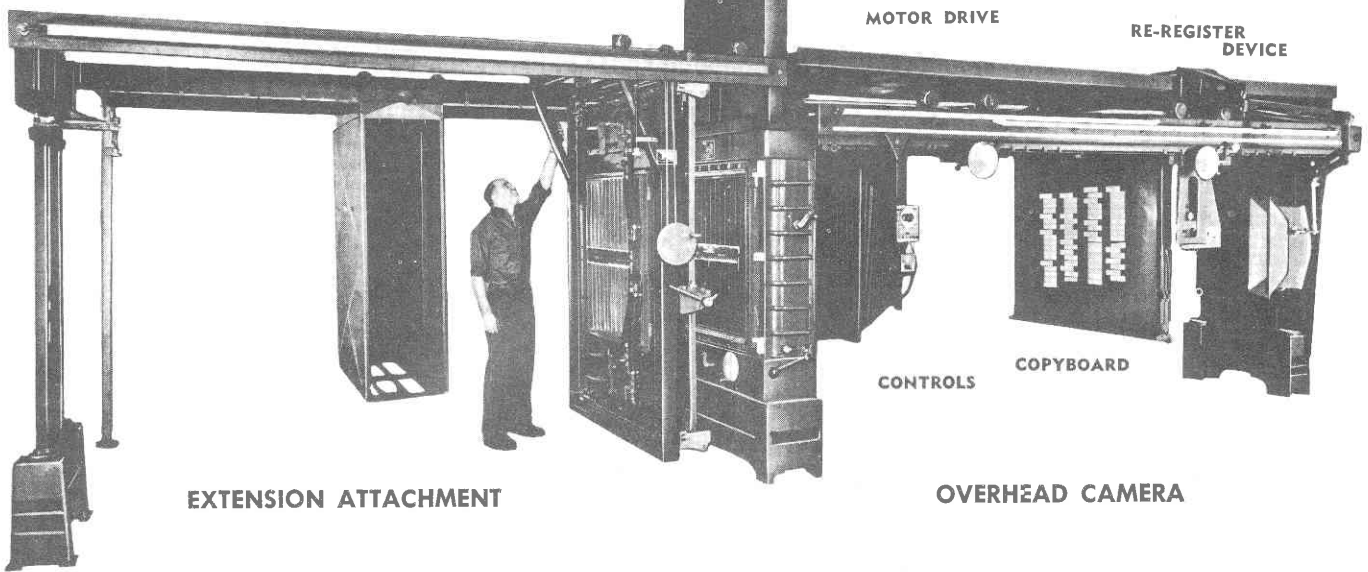
No. 4929-AA (U)-DE LUXE FOTOMETER, Model Z-4. Measures light levels four stops lower than No. 92. Measurement angle 2°. Four times brighter viewing image. Uses two mercury batteries, one 22 1/2 V flash-type battery.

No. 2236-A(U) -DE LUXE FOTOMETER, Model Z-4 including case ... \$104.95

BORROWDALE

FUTURE FOTO

CAMERAS

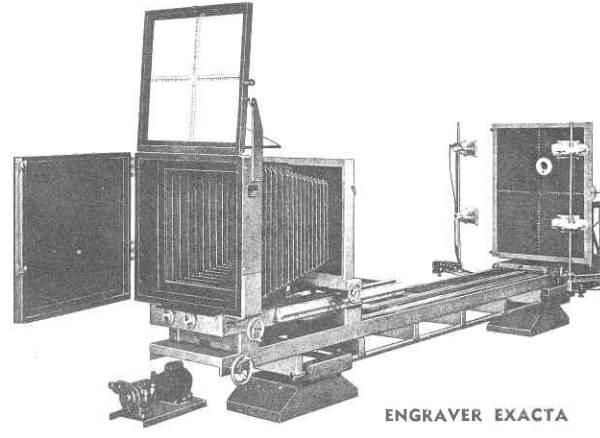
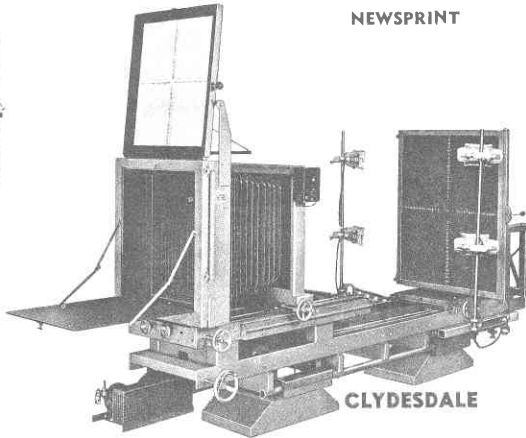
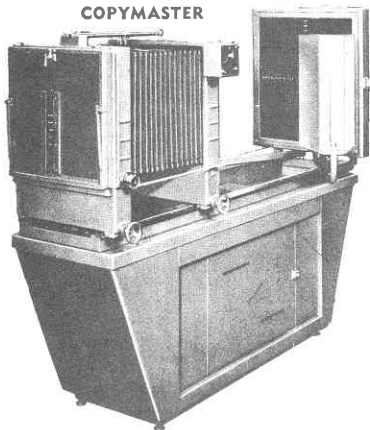


Custom erected and tested at your site by the manufacturer BORROWDALE offers the BEST CAMERAS MADE. Listed below are base units with a wide choice of EXCLUSIVE Film Holders, Copyboards, Controls, Verniers, indicators etc.

- These basic units have structural steel bed 14'-6" long E. H. machined type center guide rail with 3-point ball suspension. 30x40" Copyboard; airplane cable drive; twin hollows for 3.6X Enlargement and 6X Reduction when using 19" lens (not included); Vacuum film holder. Crating and Shipping Additional.
- No. 2731-A—16x20" Film Size OVERHEAD Camera as above less lens, lights, accessories, etc.net **\$6335.00**
 - No. 2732-A—20x24" Film Size OVERHEAD Camera as above less lens, lights, accessories, etc.net **\$7400.00**
 - No. 2733-A—24x28" Film Size OVERHEAD Camera as above less lens, lights, accessories, etc.net **\$8225.00**

Motor-Driven control from the darkroom—with PRECISION is only one feature of the BORROWDALE FUTURE-FOTO Camera. Integrity and long practical experience is evident in the design and final product.

- The following units are built on 18'-6" long structural steel bed with basic 40x40" all metal copyboard. 2.5X Enlargement and 6X Reduction when using 24" lens (not included). Crating, Shipping, erection and Field Testing Additional.
- No. 2734-A—30x40" Film Size OVERHEAD Camera as above less lens, lights, accessories, etc.net **\$10,045.00**
 - No. 2735-A—48x48" Film Size OVERHEAD Camera as above less lens, lights, accessories, etc.net **\$13,750.00**
- TO MEET YOUR NEEDS please write fully so that we can prepare complete quotation including all necessary features for best work. Above listings cover bare cameras only to serve as a guide only.



12x15" — CLYDESDALE ECONOMY — 17x17"

- Self-Contained Camera Outfit with 72" Track Assembly on Stand; 21x25" Copyboard; Ground Glass focusing; Economy Lights with contactor; Electric Shutter and 3 minute electric timer; 10 1/2" coated lens and percentage scale. Occupies 20x72" Floor Space. 3X Enlarging—4X Reduction.
- No. 2702-A—COPYMASTER CAMERA as above with back to accept EKTALITH adapter, including cratingnet **\$1173.00**
 - No. 2704-A—COPMASTER CAMERA as above but with 12x15 VACUUM BACK including pump, motor, and cratingnet **\$1258.00**
 - No. 2705-A—COPYMASTER CAMERA as above but with back to accept XEROX® Adapter (not included) and cratingnet **\$1163.00**
 - No. 2706-A—COPYMASTER CAMERA as described, with 12x15 VACUUM BACK, pump and motor, open-face VACUUM COPYBOARD, cratednet **\$1483.00**
 - No. 2707-A—Simple Table Model Camera (No Base) with 12x15 Stayflat Camera Back, cratednet **\$995.00**
 - No. 2710-A—Similar to above except with 15" Process Lens and 17x17" Vacuum Back with pump and motor. Floor Space 3 ft. x 8 ft.; 2 1/2X Enlarging—4 1/2 Reduction; Manual Vertical and Horizontal Lens movement. Includes Crating. 17" PHOTODRAMA Darkroom Camera.net **\$1790.00**
 - No. 2717-A—18x22" Maximum Film Size; 30x40" Glass Covered Copyboard; 10 ft. Bi Rail track Assembly; 16 1/2" Goerz Artar Lens for 2X Enlargement and 4X Reduction; Includes percentage scale, Electric shutter, timer, Vacuum Film Holder with pump and motor. Vertical and Horizontal lens-board movement (Manual); Colortran 4-Linelite Unit with control. INDUSTRIAL MODEL II including crating.net **\$2678.00**

DARKROOM PROCESS CAMERAS

- No. 2718-A—19x23" Film Size Camera as above except with four quartz lights (2 on each side) and 20x24 transparency opening. NEWSPRINT MODEL III, including crating.net **\$2575.00**
 - No. 2719-A—24x24" Film Size Camera as above except with 16-ft. BiRail track Assembly; 19" Goerz Artar Lens (No Lights) 2X Enlargement—7X Reduction. LITHOMASTER MODEL VII, including crating.net **\$2917.00**
 - No. 2720-A—25x25" Film Size Camera as above but including Screen Mechanism and bars, Compensating Glass, Flash Lamp, and Quartz Lights on off-the-floor carriers. ENGRAVER EXACTA XI, including crating.net **\$3365.00**
 - No. 2727-A—32x32" Film Size Darkroom Camera as above except 18 ft. BiRail track Assembly; 24" Goerz Red-Dot Artar Lens; 2X Enlargement—5 1/2X Reduction (No Lights or Control) COLORAMIC MODEL XIII, including crating.net **\$3789.00**
 - No. 2728-A—38x38" Film Size Camera as above except with 40x50" Tilting Copyboard; 30" Goerz Red-Dot Artar Lens; 2X Enlargement—5X Reduction. (No Lights or Control) COLORAMIC MODEL XI, including cratingnet **\$4185.00**
- All of the above cameras are available with choice of Lighting, supplementary Camera Backs, Screen Mechanism, Timers etc. (See attached pages or write for specific quotation.)
- TO MEET YOUR NEEDS please write fully so that we can prepare complete quotation including all necessary features for best work. Above listings cover bare cameras only to serve as a guide only.

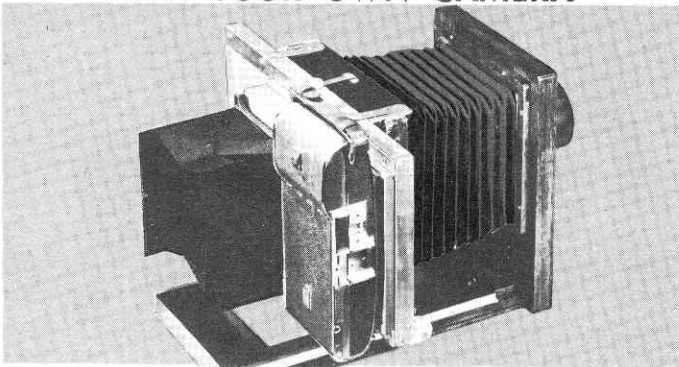
5 x 7" CAMERAS


 ORDER BY STOCK NUMBER
 UNDER YOUR MAKE OF CAMERA

 SEE LIST BELOW FOR TYPES OF BACK AVAILABLE
 TO FIT YOUR CAMERA.

			PRICE	5X7 KORONA GUNDLACH	5X7 KODAK 33A	PRICE	5X7 SINAR SILAR	5X7 KARDAN
One	5x7	picture on 5 x 7 cut film	\$ 48.00	1-5K7A(W)	1-5E7A (W)			
Two	3 1/4 x 5	pictures on 5 x 7 cut film	\$ 48.00	2-5K7A(W)	2-5E7A (W)	\$ 89.50	2-5S7A(V)	2-5L7A(V)
Three	2 1/4 x 5	pictures on 5 x 7 cut film	\$ 48.00	3-5K7A(W)	3-5E7A (W)	\$ 89.50	3-5S7A(V)	3-5L7A(V)
Four	2 1/4 x 3 1/4	pictures on 5 x 7 cut film	\$ 72.00	4-5K7A(W)	4-5E7A (W)	\$ 124.50	4-5S7A(V)	4-5L7A(V)
Six	2 x 2 1/4	pictures on 5 x 7 cut film	\$ 76.00	6-5K7A(W)	6-5E7A (W)	\$ 124.50	6-5S7A(V)	6-5L7A(V)
Eight	1 3/8 x 2 1/4	pictures on 5 x 7 cut film	\$ 84.00	8-5K7A(W)	8-5E7A (W)	\$ 137.50	8-5S7A(V)	8-5L7A(V)
18	1 1/16 x 1 5/8	pictures on 5 x 7 cut film	\$ 112.00	18-5K7A(W)	18-5E7A (W)	\$ 149.50	18-5S7A(V)	18-5L7A(V)
		Focusing Hood \$6.50 additional						
One	4x5	picture on 4 x 5 cut film	\$ 40.00	1-4K7A(W)	1-4E7A(W)	\$ 74.50	1-4S7A(V)	1-4L7A(V)
Two	2 1/4 x 4	pictures on 4 x 5 cut film	\$ 48.00	2-4K7A(W)	2-4E7A(W)	\$ 89.50	2-4S7A(V)	2-4L7A(V)
Nine	1 1/16 x 1 5/8	pictures on 4 x 5 cut film	\$ 99.50	9-4K7A(W)	9-4E7A(W)	\$ 149.50	9-4S7A(V)	9-4L7A(V)
		Focusing Hood \$6.50 additional						
One	3 1/4 x 4 1/4	picture on 3 1/4 x 4 1/4 cut film	\$ 40.00	1-3K7A(W)	1-3E7A(W)	\$ 74.50	1-3S7A(V)	1-3L7A(V)
One	3 1/4 x 4	picture on Lantern Slide	\$ 40.00	1-3K7A(W)	1-3E7A(W)	\$ 74.50	1-3S7A(V)	1-3L7A(V)
One	2 1/4 x 3 1/4	picture on 5 x 7 cut film	\$ 40.00	1-2K7A(W)	1-2E7A(W)	\$ 74.50	1-2S7A(V)	1-2S7A(V)
		Focusing Hood \$6.50 additional						
Eight	2 1/4 x 3 1/4	pictures on 120 roll film — COLORROLL	\$ 99.50	8-RK7A(W)	8-RE7A(W)	\$ 149.50	8-RS7A(V)	8-RL7A(V)
One	4x5	picture on Polaroid speed film	\$ 99.50	1-PK7(U)	1-PE7A(U)	\$ 140.00	1-PS7A(U)	1-PL7A(U)
700	1 x 1 1/2	pictures on 100 ft. roll of perf 35mm film. Manual advance. FOTO-ROLL	\$ 174.50	35-PK7(U)	35-PEA(U)	\$ 199.50	35-PS7(U)	35-PL7(U)
700	1 x 1 1/2	As above but Electric Drive 115 V A.C.	\$ 295.00					
1400	3/4 x 1	pictures on 100 ft. roll of perforated 35mm film. Manual advance. FOTO-ROLL	\$ 174.50	35-EK7(U)	35-EEA(U)	\$ 360.00	35-ES7(U)	35-EL7(U)
1400	3/4 x 1	As above but Electric Drive — 110 V A.C.	\$ 295.00	35-FK7(U)	35-FEA(U)	\$ 199.50	35-FS7(U)	35-FL7(U)
				35-HK7(U)	35-HEA(U)	\$ 360.00	35-HS7(U)	35-HL7(U)
600	1 1/4 x 1 3/8"	Microfilms on 100 ft. roll of unperforated 35mm film. Manual advance. FOTO-ROLL	\$ 174.50	35-MK7(U)	35-MEA(U)	\$ 199.50	35-MS7(U)	35-ML7(U)
600	1 1/4 x 1 3/8"	As above but Electric Drive — 110 V A.C.	\$ 295.00	35-BK7(U)	35-BEA(U)	\$ 360.00	35-BS7(U)	35-BL7(U)
330	2 1/2 x 3 1/4	pictures on 100 ft. roll of unperforated 70mm film. Manual advance. FOTO-ROLL	\$ 148.00	70-K7(U)	70-EA(U)	\$ 175.00	70-S7(U)	70-L7(U)
330	2 1/2 x 3 1/4	As above but Electric Drive — 115 V A.C.	\$ 295.00	70-EK7(U)	70-EEA(U)	\$ 360.00	70-ES7(U)	70-EL7(U)
660	1 3/8 x 2 1/2	pictures on 100 ft. roll of unperforated 70mm film. Manual advance. FOTO-ROLL	\$ 148.00	70-HK7(U)	70-HEA(U)	\$ 175.00	70-HS7(U)	70-HL7(U)
660	1 3/8 x 2 1/2	As above but Electric Drive. — 115 V A.C.	\$ 295.00	70-BK7(U)	70-BEA(U)	\$ 360.00	70-RS7(U)	70-RL7(U)
36	1 x 1 1/2	pictures on standard 35mm roll film 36 Exposure Cartridge — Reflex Viewer	\$ 124.50	35-RK7(U)	35-REA(U)	\$ 125.00	35-RS7(U)	35-RL7(U)
One	3 1/4 x 4 1/4	picture on Polaroid 3 1/4 x 4 1/4 roll film	\$ 169.50	PL-K7(U)	PL-EA(U)	\$ 199.50	PL-S7(U)	PL-L7(U)
One	2 1/4 x 3 1/4	picture on Polaroid 2 1/4 x 3 1/4 roll film	\$ 149.50	PS-K7(U)	PS-EA(U)	\$ 179.50	PS-S7(U)	PS-L7(U)
4-5 SLIDING CARRIAGE with fixed 4x5 calibrated focusing screen in plane to match receptacle for 4x5 GRAFLOK Accessories held in place by side sliding bars.			\$ 69.00	G4K7 (W)	G4E7 (W)	\$ 99.00	G4S7 (V)	G4L7 (V)

• HOW TO ORDER FROM THESE PAGES — SEE SIMPLE INSTRUCTIONS ON PAGE 37 •
QUICK - FINISH "POLAROID" PRINTS WITH YOUR OWN CAMERA **70mm Electric Magazine for 100 ft. Rolls**


Finished Prints in Just 60 Seconds

This is a sturdy wood and metal Sliding Carriage Camera Back. It is sold as a complete unit only and consists of the following: a permanent built-in back of the Polaroid Land Camera; a Standard Ruled Ground Glass; Focusing Hood (4 sides).

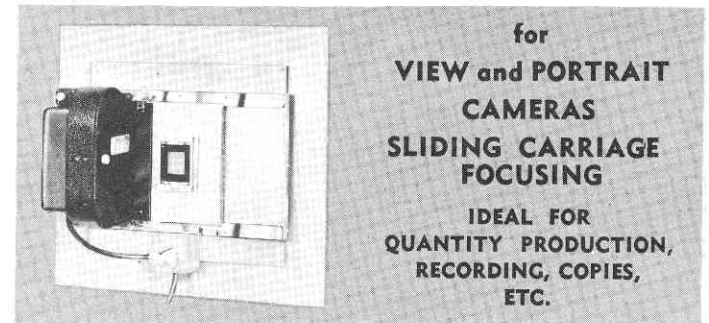
2 1/4 x 3 1/4" model has 2 1/4 x 3 1/4" focusing screen with 4-sided hood, and takes 2 1/4 x 3 1/4" film holders and film pack adapter.

Many valuable features: Genuine Land Camera shots with all the advantages of the Commercial View Camera, i.e., Lens interchange, corrective movements, ground glass focusing, economy of film, etc.

Adds 2 7/8" from Front Board to Film Plane. Weight is 9 lbs. For light weight cameras, reinforcing for greater support of unit in daily use may be desired.

Two different roll-film models available as listed on the following pages — 2 1/4 x 3 1/4" and 3 1/4 x 4 1/4". Each model is identified by its own catalogue number.

Prices start at **\$169.50** For price and correct stock number of back to fit your camera, see table at top of preceding and following pages.



for
**VIEW and PORTRAIT
 CAMERAS
 SLIDING CARRIAGE
 FOCUSING**
**IDEAL FOR
 QUANTITY PRODUCTION,
 RECORDING, COPIES,
 ETC.**

INTERCHANGEABLE camera back, replaces the cut-film or plate holder back on your camera. Saves hours of work dusting, loading and unloading cut film holders. One loading equals 170 cut film holders! Also save processing, drying and printing separate sheets. The entire roll may be handled on modern continuous processing and printing equipment (listed elsewhere in this catalogue).

MOTOR - DRIVEN FILM ADVANCE may be controlled by action of camera shutter or flash synchronization. Connects to standard 110 volt AC power supply. Uses minimum wattage, may be connected to light extension outlet.

Many Different Models are available to fit existing cameras. See preceding pages and select proper model for your camera. Special models for 2 1/4 x 2 1/4" exposure and other sizes available on special order. Full size 2 1/2 x 3 1/4" or half-size 1 5/8 x 2 1/2" frame exposure models on request also. When used on larger cameras, the entire backing may be rotated 90° to change format. Sliding carriage mounting permits ground glass focusing to secure perfect pictures.

Prices start at **\$295.00** For price and correct stock number of back to fit your camera, see tables at top of preceding and following pages.

5x7" CAMERAS



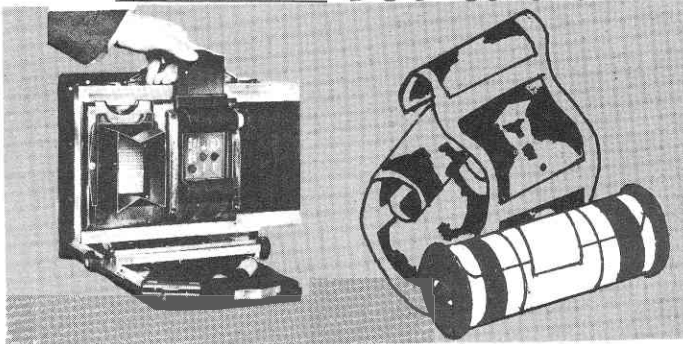
ORDER BY STOCK NUMBER
UNDER YOUR MAKE OF CAMERA

SEE LIST BELOW FOR TYPES OF BACK AVAILABLE
TO FIT YOUR CAMERA.

			PRICE	5X7 ANSKO AGFA	5X7 GROVER B&J VIEW WATSON KEITH	5X7 KODAK 2D EASTMAN REMBRANDT	5X7 DEARDORF
One	5x7	picture on 5x7 cut film	\$ 48.00	1-5A7A(W)	1-5G7A(W)	1-5R7A(W)	1-5D7A(W)
Two	3 1/4 x 5	pictures on 5x7 cut film	\$ 48.00	2-5A7A(W)	2-5G7A(W)	2-5R7A(W)	2-5D7A(W)
Three	2 1/4 x 5	pictures on 5x7 cut film	\$ 48.00	3-5A7A(W)	3-5G7A(W)	3-5R7A(W)	3-5D7A(W)
Four	2 1/4 x 3 1/4	pictures on 5x7 cut film	\$ 72.00	4-5A7A(W)	4-5G7A(W)	4-5R7A(W)	4-5D7A(W)
Six	2x2 1/4	pictures on 5x7 cut film	\$ 76.00	6-5A7A(W)	6-5G7A(W)	6-5R7A(W)	6-5D7A(W)
Eight	1 5/8 x 2 1/4	pictures on 5x7 cut film	\$ 84.00	8-5A7A(W)	8-5G7A(W)	8-5R7A(W)	8-5D7A(W)
18	1 1/8 x 1 3/8	pictures on 5x7 cut film	\$112.00	18-5A7A(W)	18-5G7A(W)	18-5R7A(W)	18-5D7A(W)
One	4x5	picture on 4x5 cut film	\$ 40.00	1-4A7A(W)	1-4G7A(W)	1-4R7A(W)	1-4D7A(W)
Two	2 1/4 x 4	pictures on 4x5 cut film	\$ 48.00	2-4A7A(W)	2-4G7A(W)	2-4R7A(W)	2-4D7A(W)
9	1 1/2 x 1 5/8	pictures on 4x5 cut film	\$ 99.50	9-4A7A(W)	9-4G7A(W)	9-4R7A(W)	9-4D7A(W)
One	3 1/4 x 4 1/4	picture on 3 1/4 x 4 1/4 cut film	\$ 40.00	1-3A7A(W)	1-3G7A(W)	1-3R7A(W)	1-3D7A(W)
One	3 1/4 x 4	picture on Lantern Slide	\$ 40.00	1-3A7A(W)	1-3G7A(W)	1-3R7A(W)	1-3D7A(W)
One	2 1/4 x 3 1/4	picture on 2 1/4 x 3 1/4	\$ 40.00	1-2A7A(W)	1-2G7A(W)	1-2R7A(W)	1-2D7A(W)
Eight	2 1/4 x 3 1/4	pictures on 120 roll film — COLOROLL	\$ 99.50	8-RA7A(W)	8-RG7A(W)	8-RR7A(W)	8-RD7A(W)
One	4x5	picture on Polaroid speed film	99.50	1-PA7(U)	1-PG7(U)	1-PR7(U)	1-PD7(U)
700	1x1 1/2	pictures on 100 ft. roll of perf. 35mm film. Manual advance. FOTO-ROLL	174.50	35-PA7(U)	35-PG7(U)	1-PR7(U)	35-PD7(U)
700	1x1 1/2	As above but Electric Drive — 115 V. A.C.	295.00	35-EA7(U)	35-EG7(U)	35-ER7(U)	35-ED7(U)
1400	3/4 x 1	pictures on 100 ft. roll of perf. 35mm film. Manual advance. FOTO-ROLL	174.50	35-FA7(U)	35-FG7(U)	35-FR7(U)	35-FD7(U)
1400	3/4 x 1	As above but Electric Drive — 115 V. A.C.	295.00	35-HA7(U)	35-HG7(U)	35-HR7(U)	35-HD7(U)
600	1 1/4 x 1 3/8"	Microfilms on 100 ft. roll of unperf. 35mm film. Manual advance	174.50	35-MA7(U)	35-MG7(U)	35-MR7(U)	35-MD7(U)
600	1 1/4 x 1 3/8"	As above but Electric Drive — 115 V. A.C.	295.00	35-BA7(U)	35-BG7(U)	35-BR7(U)	35-BD7(U)
330	2 1/2 x 3 1/4	pictures on 100 ft. roll of unperf. 70mm film. Manual advance. FOTO ROLL	148.00	70-A7(U)	70-G7(U)	70-R7(U)	70-D7(U)
330	2 1/2 x 3 1/4	As above but Electric Drive — 115 V. A.C.	295.00	70-EA7(U)	70-EG7(U)	70-ER7(U)	70-ED7(U)
660	1 3/8 x 2 1/2	pictures on 100 ft. roll of unperf. 70mm film. Manual advance. FOTO-ROLL	148.50	70-HA7(U)	70-HG7(U)	70-HR7(U)	70-HD7(U)
660	1 3/8 x 2 1/2	As above but Electric Drive. — 115 V. A.C.	295.00	70-BA7(U)	70-BG7(U)	70-BR7(U)	70-BD7(U)
36	1x1 1/2	pictures on standard 35mm roll film 36 Exposure Cartridge — Reflex Viewer	\$124.50	35-RA7(U)	35-RG7(U)	35-RR7(U)	35-RD7(U)
One	3 1/4 x 4 1/4	picture on Polaroid 3 1/4 x 4 1/4 roll film	169.50	PL-A7(U)*	PL-G7(U)	PL-R7(U)	PL-D7(U)
One	2 1/4 x 3 1/4	picture on Polaroid 2 1/4 x 3 1/4 roll film	169.50	PS-A7(U)	PS-G7(U)	PS-R7(U)	PS-D7(U)
4-5 SLIDING CARRIAGE with fixed 4x5 calibrated focusing screen in plane to match receptacle for 4x5 GRAFLOK Accessories held in place by side sliding bars.			\$69.00	G4A7(W)	G4G7(W)	G4R7(W)	G4D7(W)

• HOW TO ORDER FROM THESE PAGES — SEE SIMPLE INSTRUCTIONS ON PAGE 37 •

TAKE COLOR PICTURES ON 120 ROLL FILM DE LUXE MODEL B & J "COLOROLL"



The B & J DE LUXE COLOROLL sliding-carriage puts you into today's big color market at lowest cost. Many models are available for your camera — from 5x7" to largest.

Sliding-carriage for focusing and fast work. The ground-glass panel will accept standard 2 1/4 x 3 1/4" Graphic-type cut-film holder. Removable roll-film magazine for No. 120 Roll-film allows easy loading. Spare roll-holders available for B & W or different color emulsions.

Select proper model by reference to ordering sheets on these pages — according to size and make of your camera. Makes 8 - 2 1/4 x 3 1/4" exposures per roll. Magazine has automatic film-advance stop. Steel-reinforced, with safety lock.

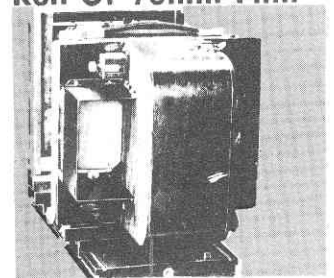
Prices start at \$99.50 However, select proper carriage for your camera as shown in listing at the top of pages 38 to 42.

"COLOROLL BACKS" are listed there under "8 - 2 1/4 x 3 1/4" pictures on 120 roll film".

No. 3914-AA(U)—SPARE 120 ROLL FILM MAGAZINE.....\$49.50

No. 3915-A(U)—SPARE 35mm MAGAZINE.....\$59.50

330 Pictures On Single Roll Of 70mm Film SCHOOL — PICTURES PROMOTIONS SMALL COPY WORKER 70mm - 2 1/2 x 3 1/8"



Save time, money ... no more heavy film holders ... get clean, scratch-free negatives ... Foto-roll replaces the present ground glass back on your portrait, view or studio camera.

The KORONA FOTO-ROLL-70 attaches to your camera just like any other camera-back and replaces the regular ground-glass-back, which comes on the camera. The unit is made like a sliding-back with a ground glass to focus the image and carriage for the roll film mechanism. A precision counter is built into each unit to record the number of exposures made.

Accepts Kodak No. 474 or equal standard film on metal daylight loading spool. Unique film feed requires no pressure plate — hence negatives are scratch-free. Construction permits simple interchange with cut-film backs or other camera-back to fit your copy or view camera.

On special order, Korona - FOTO - FOLL - 70 is available for half size 70mm pictures by use of mask and feed lock. This makes picture 1 5/8 x 2 1/2" which are the same size as former 46mm perforated film; but offers a big saving in film cost.

Negative Identification—Electric recorder to photograph name or number from "sitting-card" to edge of film is available as an accessory at \$60.00 net additional. This can be supplied on your order now or installed later at the factory. Operation is simple. Connect cord to electric light supply. Insert card in slot. Push button. Remove card. The number is now photographed on the edge of film — does not interfere with pose.

For price, catalogue number, etc. see tables at top of preceding and following pages.

SHADOWLESS LIGHTING — Up to 30 feet away!

HERSHEY Around-the-Lens SUN-RING



COLOR or BLACK and WHITE

See how this party gets a lift from shadow-free Sun-Ring



Hershey Sun-Ring on B & J Grover Monorail View Camera

FITS VIEW, PRESS, SINGLE-LENS REFLEX and POLAROID CAMERAS

Used by commercial photographers, doctors, dentists, engineers, biologists — wherever shadow-free well-detailed pictures are needed.

Sun-Ring light penetrates deep into complex electronic and mechanical assemblies, eliminates confusing shadows from one part on to others, depicts relation of parts clearly.

Invaluable for medical photography — illuminates subjects and specimens with even light that brings out maximum detail.

Commercial photographers find its shadow-free light ideal for the softly-lit photographs so much in demand by clients.

Sun-Rings gives 67 degrees of coverage, weighs only 5 oz. Light is daylight color temperature, suited to color film as well as B & W. Brightness of light depends on power supply used. (See choices below.)

The Sun-Ring is threaded to screw into any standard Series VII adapter ring. Use stepdown rings listed below as necessary to fit your camera's adapter ring.

Outlet is provided for standard shutter connecting cord with two-prong household type plug (not included).

POWER SUPPLY. — The Sun-Ring does not come with a power supply. It may be used with many different power supplies, including some existing flash units. — See listings below.

450 V type works with all power supplies below, many flash units. 900 V. Sun-Rings fit only units shown.

- No. 5025-A (W/3Y)—HERSHEY SUN-RING 450 V. \$39.95
- No. 5026-A (W)—SUN RING 900H fits STROBONAR 91B and III. \$47.50
- No. 5027-A (W)—HERSHEY SUN-RING 900-A fits Ascor 405, 406, 422, 423. \$47.50
- No. 5028-A (W)—HERSHEY SUN-RING 900-M fits Megalume I, II, IV. \$47.50

POWER SUPPLIES

The Sun-Ring may be powered in three basic ways:

1. By any of the power supplies listed below.
2. By any of the Hershey lights listed on pages 50, 51 and 52. (All Hershey lights come with Sun-Ring outlet installed except Hi-Pro 150 and 75 which can be special ordered, and Sun-Lite Speed flash units which require SL-2 adapter cord below).
3. By some Graflex, Braun, Heiland, Ascor and Hico flash units, using adapter cords below.

POWER PACKS

- No. 5031-A (W/3Y)—50 W/S AC. POWER PACK, 6 sec. recycling time. \$29.95

No. 5033-A (W/3Y)—100-50-25 W/S Push-Button Power Supply #100-B. Match the light to the job. Low power for close-ups, high power for distant subjects. Recycles 10-12 sec. @ 100 W/S, 5-6 @ 50 W/S. Uses #497 or equal Battery (not included). \$59.95

No. 5034-A (W/3Y)—Battery No. 497 for above. \$15.95

No. 5035-A (W/3Y)—AC. POWER CARTRIDGE. Replaces battery in 100 B power pack, changes recycle time to 6-8 sec. @ 100 W/S. \$24.95

No. 5036-A (W/3Y)—200-100-50-25 W/S High Power Push-Button AC supply. Recycles in 7-10 sec. @ 200 W/S, less at lower power. \$109.95

CONVERSION CORDS TO FIT OTHER BRANDS and POWER PACKS

Sun-Ring fits directly to Heiland-Honeywell with Proxo-Lite adapter. Two-piece units (head separate from power pack) such as Ascor, Braun, and some Ultrablitz can often be converted at the factory. For latest information on available conversions, write HERSHEY, Inc., Department B-462, 853 Dundee Avenue, Elgin, Illinois.

No. 5037-A (W/3Y)—GSA Adapter for Graflex Strobflash II, III, IV. \$2.95

No. 5038-A (W/3Y)—GSM Adapter for Graflex Strobomite. \$2.95

No. 5039-A (W/3Y)—SL-2 Adapter for Hershey Sunlite II 250, 110. \$2.95

No. 5040-A (W/3Y)—EF-3 Adapter for Braun EF-3. \$2.95

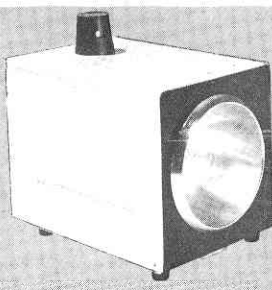
SHUTTER CONNECTING CORDS — See page 136.

STEP DOWN RINGS — Adapt Series VI Thread of Sun-Rings to fit your Series VI or V Adapter Ring.

No. 5041-A (W)—Step-Down Ring, Series VII to VI. \$2.70

No. 5042-A (W)—Step-Down Ring, Series VII to V. \$1.90

DE LUXE STUDIO PRO - LITES



150-75 Watt/Second PROLITE Modeling Light — Self Contained— Slave or direct control

"See the lighting before you shoot" — modeling light makes for perfect lighting on every shot. Covers exact flash field and is exactly proportionate to flash intensity.

All controls on back panel. Half-Power Switch Built-in photo tripper for slave operation. 150 watt-seconds — self-contained power.

Light easily portable — weighs only 6¾ lbs. Measures just 6"x6"x8".

Fast recycling and dependable, accurate, ready light.

Outlet for Sun-Ring auxiliary light, plus 110 volt convenience outlet.

110 volt AC. operation — just plug it in and shoot. AC. 15 ft. cord included.

¾" — 16 threaded hole for accessory stand, etc.

SPECIFICATIONS: ECPS—3600. BCPS—4000. Angle of Coverage—55°. Flash Duration — 1/750 sec. Color Temperature — 6400° K. Recycling Time 6 to 9 seconds.

- No. 5051-A (W/3Y)—PRO-LITE 1500. \$129.95
- No. 5052-A (W/3Y)—BARN DOORS for above. \$6.95
- No. 5053-A (W/3Y)—SWIVEL BRACKET — fits ¼ or ⅜" threaded stand. \$4.95



75 Watt/Second Modeling Light — Slave Operation

Smaller edition of the Pro-Lite 1500, with almost identical features, but lower in power. Self-contained unit puts out 75 watt-seconds in highly compact form. 35 watt modeling lamp for easy, dependable exposures every time. Ready light.

Slave operation with photo tripper which rotates through 360 degrees.

100 v. AC. operation, just plug it in. 15 ft. cord included. Weighs only 4 pounds. Outlet for Sun-Ring auxiliary flash plus convenience outlet.

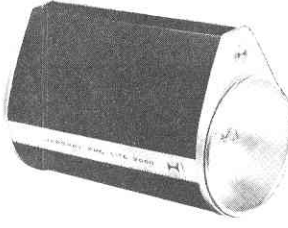
Controls conveniently grouped on end panel as illustrated. — Completely new, efficient design. ¾" — 16 Threaded hole for accessory stand, etc.

SPECIFICATIONS: — ECPS-1800. BCPS-2000. Angle of Coverage — 55° Flash Duration — 1/500. Color Temperature — 6400° K. Recycling Time — 6 to 9 seconds.

No. 5054-A (W/3Y)—PRO-LITE 750. \$99.95

No. 5055-A (W/3Y)—BARN DOORS for above. \$6.95

No. 5056-A (W/3Y)—SWIVEL BRACKET — fits ¼" or ⅜" Threaded Stand. \$4.95



50 Watt/Sec. — PRO 2000 Slave — Modeling — 6400°

A handsome unit, the Pro-Lite 2000 is covered in vinyl, trimmed with embossed aluminum. Completely self-contained, the unit puts out 50 watt-

SPECIFICATIONS:—ECPS 1650, BCPS 1670 at full power; ECPS 705, BCPS 720 at half power; 55 deg. coverage; Flash duration 1/750th sec. at full power, 1/1500th at half power; Recycling time 5 sec.; Ready Lite, shutter cord outlet, Sun Ring Outlet, photo tripped for slave operation.

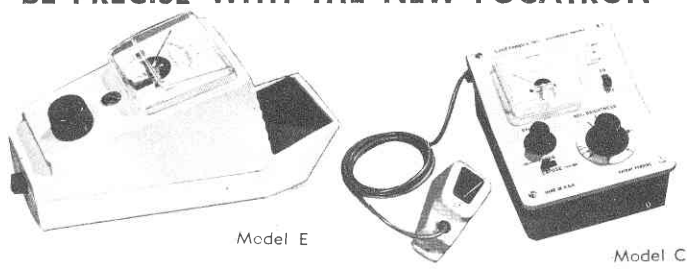
No. 5071-A (W/3Y)—PROLITE 2000 with slave. \$54.95

No. 5072-A (W)—BARN DOORS for above. \$6.95

No. 5073-A (W)—SWIVEL BRACKET, Specify ¼" or ⅜". \$4.95

ARE YOU IN SHARP FOCUS?

BE PRECISE WITH THE NEW FOCATRON®



ELECTRONIC PRECISION

New Electronic System using a pair of Integrated Photo cells with precision meter gives a Direct Meter Reading at maximum image sharpness and brightness. Ideal for calibrating Focusing Scales, Tapes etc.; determine Best Lens Stop to use; check parallelism. Measures in Focal Plane. Automate processing without calculation for magnification, lens opening, incident light on copy, etc. Ideal for laboratory and work shop. Field-Tested and found useful for many other needs such as reflection, transmission, optical thickness, monitoring, etc.

FOR ENLARGING

WORKS WITH ANY ENLARGER! Simple-Foolproof-Precise. More sensitive than the eye. Merely place test target in film plane and FOCATRON on the easel. Focus to sharp point by reading maximum on the electronic meter. SAVES REMAKES—SAVES EYES—SAVES TIME—SAVES MONEY.

- No. 6805-A (T)—Model E FOCATRON Meter with one each 65 and 150 line transmission target \$92.75
No. 6806-A (T)—4x5x.005 Film TRANSMISSION TARGET, choice of 65, 110, 150 lines per inch (specify) \$4.00
No. 6807-A (T)—4x5x.005 TARGET as above except 300 lines \$5.00
No. 6808-A (T)—8x10x.005 Film TRANSMISSION TARGET, choice of 65, 110, 150 lines per inch (specify) \$12.00
No. 6809-A (T)—8x10x.005 TARGET as above except 300 lines \$15.00

FOR CAMERA WORK

FOR STUDIO and COPY CAMERAS, as well as ENLARGERS. Available in several models. 9 1/4 x 5 x 3 1/2" Heavy Duty Case; transistorized; weight-2 lbs.; Ultra-sensitive to 0.01 ft.-candle over full visible spectrum. Model CC Probe it may be attached to ground glass, film holder, or Enlarger Easel. Model CV probe comes mounted on ground glass for insertion in either 4x5 or 8x10 view camera.

- No. 6825-A (T)—Model C FOCATRON Meter for Cameras with CC probe and attached 6 ft. cable; one each 60 line (reflect), 65-150 line transmission targets \$249.50
No. 6826-A (T)—CV PROBE with 10 ft attached cable and 7 1/2 line reflective target for 4x5 or 8x10 View Cameras (Specify Size) \$73.50
No. 6827-A (T)—MF-R PROBE for use on Recorded Microfilm Cameras with 10 ft. cord and 7 1/2 line reflect target \$73.50
No. 6828-A (T)—8x10" REFLECTIVE TARGETS; choice of 7 1/2, 15, 30, 60 lines per inch; specify; pkg. of 6 \$2.00

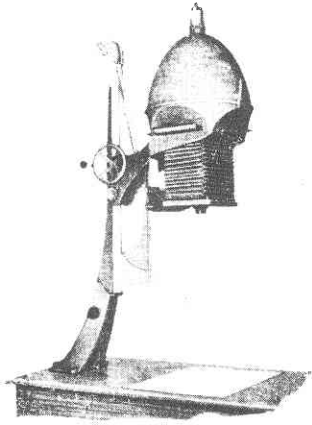
8 x 10" PROFESSIONAL ENLARGER

Covers the entire 8 x 10" negative perfectly to the extreme corners, gives the contrast and brilliancy required for commercial work. Even illumination makes it unequalled for color separation work. Long bellows extension is sufficient for small-size reductions and long focal length lenses. Built for the professional photographer who uses negatives up to 8 x 10", but it gives equally good results for 3 1/4 x 4 1/4", 4 x 5", 5 x 7", etc.

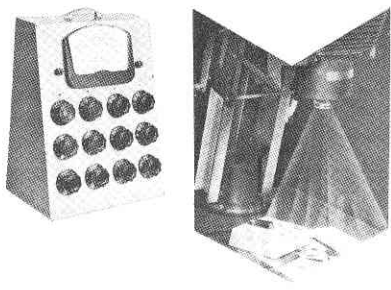
Sold without base and is intended for mounting on a rigid bench or table. A cast steel baseboard can be furnished at extra cost.

SPECIFICATION

- Height of vertical standard . . . 68"
Greatest height over all . . . 94"
Greatest distance; negative to paper . . . 72"
Light recommended — Opal enlarging bulb, 150 to 300 watt
Focusing Rack and Pinion
Bellows extension 30"
Enlarges with 10" lens . . . 40 x 50" (5" diameters)
Reduces with 10" lens 3 1/4 x 4 1/4" (1/2" diameter)
Weight boxed for shipment 210 lbs.



- No. 6841-A (T)—Elwood C-2 Commercial 8 x 10" Enlarger with 48" main slide \$565.00
No. 6852-A (T)—Color Slide for holding color filters above the negative — additional \$45.00
No. 6843-A (T)—Elwood C-2 Commercial 8 x 10" Enlarger with 72" main slide in place of 48" slide. \$590.00
No. 6844-A (T)—Cast Base steel baseboard for 8 x 10" C-2 Models. \$135.00
No. 6855-A (T)—5 x 7" Negative Carrier for C-2 Enlarger, with glass \$13.90
No. 6855-A (T)—4 x 5" Negative Carrier for C-2 Enlarger with glass \$13.90
No. 6856-A (T)—3 1/4 x 4 1/4" Negative Carrier for C-2 Enlarger, with glass \$13.90
No. 6858-A (T)—Color Slide Conversion — converts existing 8 x 10" model C-2's to take color filters \$90.00
No. 6859-A (T)—No. 2 Lensboard to fit C-2 enlarger \$3.60



- READS
COLOR BALANCE
OF 20X ENLARGEMENT
ACCURACY 1-1000th
SIMPLE
SPEEDY
TOP QUALITY

NEW ELECTRONIC PRECISION

SPEEDMASTER is the new electronic Direct-Reading Color Analyzer for Production and Quality. Overall size 12x7 1/2 x 15 1/4" Tall. UL approved for 110 volt 60 cycle AC, consumes only 10 watts. Average warm-up time for stability is only 10 seconds.

The illuminated meter with 7" wide scale indicates color balance directly in filter values. Accurate to .01 density.

Separate triple Decade Controls for each color (with indicator light to show which color is being read) provide infinite range of settings from any area on the negative.

Movable Probe Box available with choice of three apertures from .060 to .020 inch. Filters in probe box are automatically changed as channel selector switch is moved from Red to Green to Blue.

- No. 5861-A (T)—SPEEDMASTER COLOR ANALYZER \$645.00

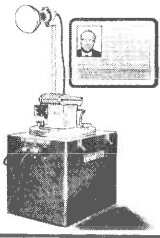
SHOOT "SCREENED-PRINTS" IN ONE SHOT

INSTANT PHOTOSCREEN is the new method for using POLAROID® cut-film adapter to produce an immediate "screened-print" as well as "screened-negative." Can be used with any 4x5 camera instead of cut film holders.

CHOICE OF LINES PER INCH. Adapted to No. 500 Polaroid Film Holder instantly by MAGNETIC RETAINER.

- N. 6874-A—4x5 POLAROID Film Adapter No. 500. Net \$49.50
No. 6875—SCREENED ADAPTER to make HALFTONES with the above. Choice of 65, 85, 100, 120, 133 line per inch (specify). Net \$59.50
No. 6876-A—4x5 ADAPTER with SCREEN SELECTED. Net \$99.50

NEW ID CARD CAMERA



"ONE-SHOT" CARDS IN 10 SECONDS FOR BADGES, PASS CARDS, ETC.

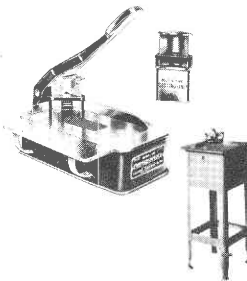
Produces 2 1/4 x 3 1/4" ID card with photo on Polaroid 10-second film quickly, easily, without special skills.

Unique mount makes lining up subject simple and fast. No need to set exposure, focus or lighting. Records pen, pencil, crayon, etc. with no change in settings.

Completely self-contained in 2 1/2 x 12 x 15" case, weighs 25 bs. 115 v. AC. With all lamps, power cable, etc. Ready to operate.

- No. 6871-A — COLOTRAN FOTO-SURE CAMERA as above (Net) \$695.00
For full information, write to BURKE & JAMES, Inc., 321 So. Wabash Ave., Chicago 4, Ill.

CORNER ROUNDER FOR ID CARDS PHOTOS, ETC.



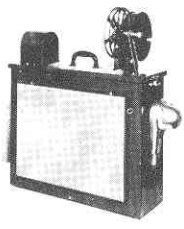
Used in Photo Studios, Personnel Depts., Letter Shops, Engineering Depts., Schools, Offices.

Rounds single sheets or stocks up to 1/2". Cuts paper, plastic, fibre, leather, celluloid.

Accommodates stock up to 8 1/2 x 11", larger if necessary. Sharp cutting unit gives clean cuts. Choice of 4 corner sizes — 1/8", 1/4", 3/8" or 1/2" radius, including 1 cutting unit. Cutting units interchange. No need to buy more than one corner rounder.

- Specify size cutting unit desired.
No. 6881-A (T)—Model 120 Desk Type Corner Rounder \$25.00
No. 6882-A (T)—Model 150 Floor Type Foot-Operated Corner Rounder \$78.00
No. 6883-A (T)—Extra Cutting Unit. — Specify 1/8", 1/4", 3/8" or 1/2" \$9.00

Lightweight 16mm Automatic Film Processor



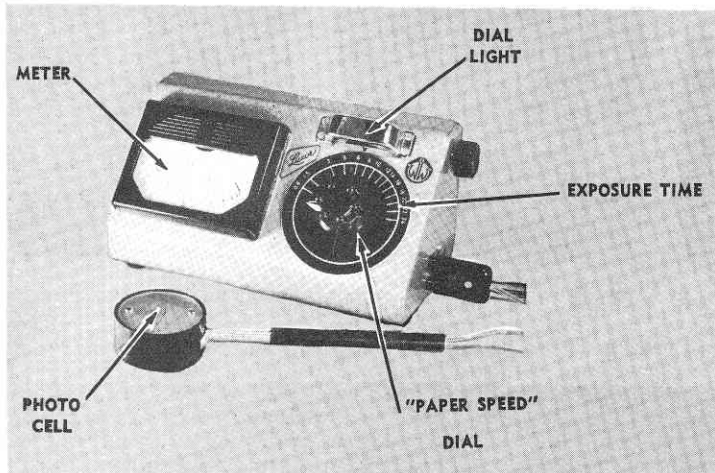
Low-priced, completely portable, precision-made automatic reversal processor. Operates on 117 v. AC current, requires no complicated plumbing. Designed to last for years. 10 stainless steel solution tanks hold a maximum of 1/2 gallon of solution, process up to 200 ft. of 16mm (or 8/mm) B & W film in less than one hour. Unit is compact (9 x 32 x 24"), lightweight (55 pounds). Film uniformly dried by continuous flow of warm air. Automatic micro-switch stops machine after film is processed. May be used for negative and positive processing.

- No. 6892-A—200 ft.—16mm PROCESSOR net \$675.00

SPEED UP YOUR ENLARGING WITH AUTOMATIC CONTROLLERS. METERS

ELECTRONIC DARKROOM EXPOSURE METER

Shows Exact Number of Seconds Exposure Required.
Reads Directly In Seconds — No Figuring Needed!



FOR CONTACT PRINTING OR ENLARGING

Super-sensitive meter that measures the light coming thru the negative in your printer or enlarger to give accurate times without test strips or other wasted time.

FAST OPERATING — NO FIGURING

Easy to use — after setting dial for the paper you are using, place the photocell in the most important part of your enlarger image or negative on printer. Turn exposure time knob until meter needle is at zero. Dial then reads correct exposure in seconds.

Photo cell face is 2" in diameter. May be masked to any area totaling about one square inch if desired, for measuring very small areas. (Masks not supplied).

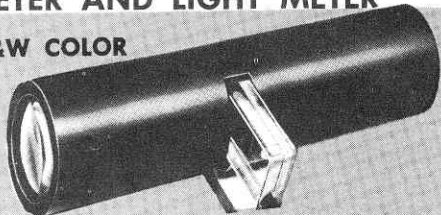
Range 1/4 - 64 seconds. Photo cell cord 3 ft. long. 5 ft. line cord. 7 x 5 x 5" meter cabinet. 115 v. AC operation.

No. 7015-A (U)—LUXOR DARKROOM EXPOSURE METER.....\$125.00

DENSITOMETER AND LIGHT METER

FOR B&W COLOR

LIGHT PROBE
(PHOTO CELL)



CONVERTED FOR USE AS
"AT THE CAMERA"
EXPOSURE METER

DENSITOMETER WITH
PROBE ATTACHED

PHOTO PRINTING
GRAPHIC ARTS
PROCESSING
LABORATORIES



Saves time and material, gives better results

Accurately measures light intensity. Calculates exposure time, aperture settings. May be used at the camera as an ultra sensitive light meter for determining exposure time and lens openings.

Used in enlarging to determine the negative density and con contrast qualities, proper contrast of paper, and correct exposure. Particularly suited for color due to extreme sensitivity to entire color range. Graphic Arts used include preparation of half tones and color separation negatives. Processing Laboratories can use Safelight illumination as a standard of light transmission for setting up continuous processing lines.

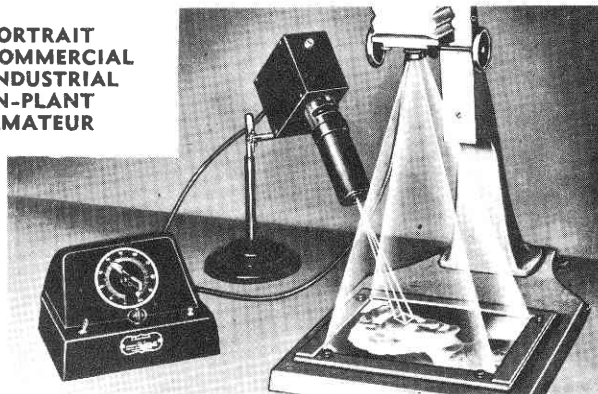
The unit consists of Lights Probe in plastic case, 6-Range Meter, and self contained power supply and special tube for "at-the-camera" light meter readings. The unit is oortable, battery powered. Batteries have life of approximately 3 years.

No. 7003-A (U — ELWOOD DENSITOMETER MODEL MA-1-BATTERY. —
Batteries incl.148.00

FULLY AUTOMATIC EXPOSURE CONTROLLERS

Calculate and Time Enlarging Exposures Electronically
Work with any Enlarger for B & W or Color

PORTRAIT
COMMERCIAL
INDUSTRIAL
IN-PLANT
AMATEUR



SIMPLE! AIM THE CELL — PUSH A BUTTON FOR PERFECT PRINTS EVERY TIME!

Combination Densitometer-Timer collects and measures the light reflected from chosen area of the easel. Automatically computes exposure and turns off enlarger after proper exposure time.

REDUCE PRINTING TIME, CUT PAPER EXPENSE

Guarantee a quality print every time. Eliminates test printing, make-overs, lack of uniformity in quality runs.

CHANGE f/STOP, MAGNIFICATION OR NEGATIVE — UNITS STILL EXPOSE CORRECTLY

Once dial on meter is set for the paper you are using, these units will make correct exposures — regardless of f/stops, degree of enlargement or density of negative.

PAYS FOR ITSELF IN TIME AND PAPER SAVINGS

Either of the models below will soon pay dividends in time, labor expense and materials — plus better quality prints!

PRECISE CONTROL OF PICTURE QUALITY

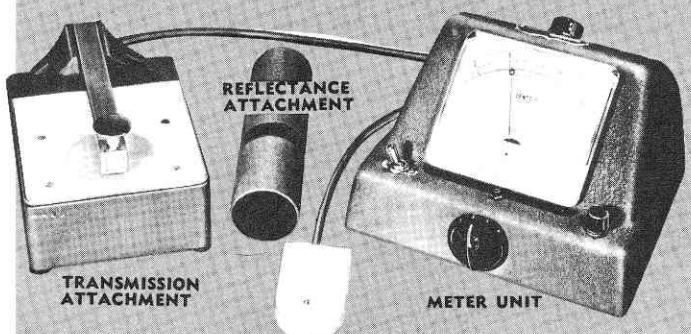
Adjustable photocells reads large areas for standard negs, can be set to read small spots or "problem negs", or forehead skin on portraits. 115 V. 60 cycle AC operation.

- A. **STANDARD MODEL** includes all features above. Handles enlarging lamps up to 400 watts. With standard base and arm.
No. 7021-A (U)—FC Fotomatic Photric Timer, Model 4000\$176.00
No. 7022-A (U)—FC Fotomatic Photric Timer, Model 4000 as above, but with Luxo-Arm counter-balanced extra long swinging arm assembly in place of standard base\$187.50
No. 7023-A (U)—By-Pass Relay for 2500 watt capacity with Model 4000 Timer\$29.00
No. 7024-A (U)—Attachment for operation with your Automatic Easel \$29.00

- B. **STUDIO MODEL** has all features of A. above plus pilot light "on" indicator, complete automatic voltage fluctuation control, and Luxo-Arm photo cell support. Handles studio enlarger lamps up to 1200 watts.
No. 7031-A (U)—FC Fotomatic Photric timer, Model 1200\$365.00
No. 7032-A (U)—Attachment for operation with your automatic easel \$29.00
No. 7033-A (U)—Remote Control for Model 1200\$14.00

DENSITOMETER - LIGHT METER FOR B & W

COMBINATION UNIT SERVES IN CAMERA OR DARKROOM
CONVERTS IN SECONDS FROM JOB TO JOB



CADMIUM - SULFIDE
PHOTO-CELL

Sensitive, accurate unit does many jobs — reads negative densities for fast, uniform printing, takes reflected light readings from subjects for accurate exposures, takes light readings off the ground glass for distant subjects or where bellows extension changes f/value of lens, checks evenness of copy board lighting, measures contrast ranges, checks consistency of illumination, etc.

Simple to operate — only two controls. No warm-up required. Complete instructions furnished. 95-140 v. 60 cycle AC. Has voltage stabilizing transformer. Includes meter unit, transmission, reflectance and incident light attachments.

No. 7025-A (U)—FOTOMATIC MR-2 DENSITOMETER,
COMPLETE WITH ATTACHMENTS\$284.00

Burke & James, Inc., 321 So. Wabash Ave., Chicago 4, Ill., Phone: Area Code 312-427-8393

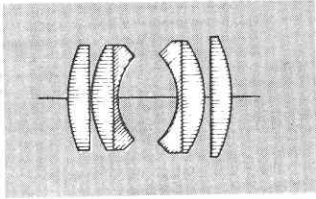
www.orphancameras.com

• ASTRO SUPERSPEED LENSES •

HIGH RESOLUTION SUPERLATIVE COLOR CORRECTION.

GAUSS-TACHAR, PANTACHAR. 25-150mm

FOR MOVIE AND STILL CAMERAS



GAUSS TACHAR F/2

ASTRO — WORLD WIDE REPUTATION.
All Astro-Tachar and Pantachar Lenses offer Higher Resolution, Superlative Color Correction and Increased Contrast in Focal Lengths from 25 to 150 Millimeters.

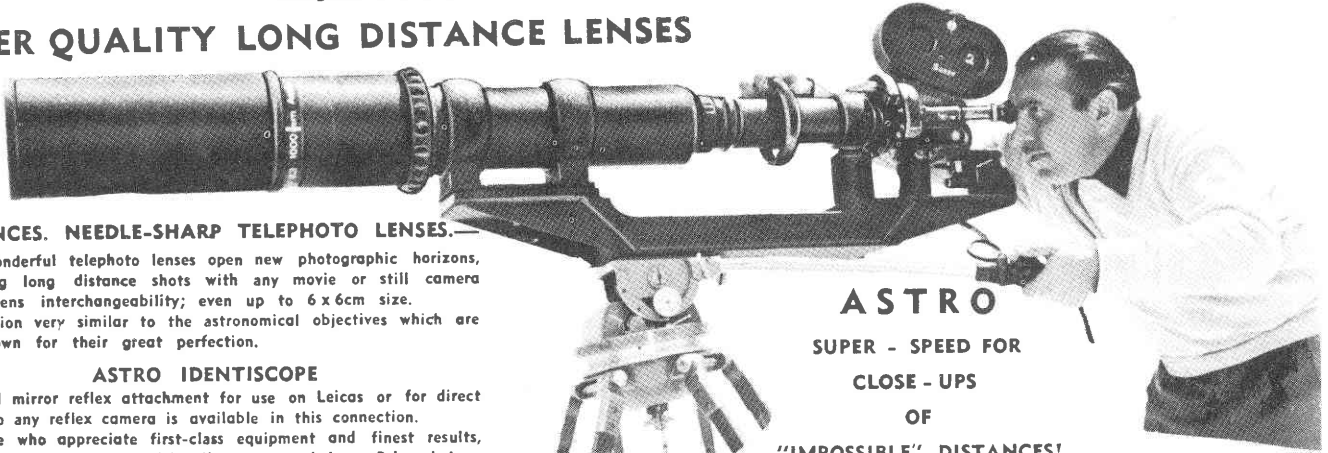
Used by the world's foremost explorers, scientists, professional movie makers and news photographers. Astro lenses have been making photographic history the world over.

Designed and produced in Germany. — Prices listed below.



Seeing thru the camera's eye with the **ASTRO CINE IDENTOSCOPE.**

SUPER QUALITY LONG DISTANCE LENSES



DISTANCES. NEEDLE-SHARP TELEPHOTO LENSES.

These wonderful telephoto lenses open new photographic horizons, permitting long distance shots with any movie or still camera having lens interchangeability; even up to 6 x 6cm size. Construction very similar to the astronomical objectives which are well known for their great perfection.

ASTRO IDENTOSCOPE

A special mirror reflex attachment for use on Leicas or for direct mount to any reflex camera is available in this connection.

For those who appreciate first-class equipment and finest results, the Astro lenses are unconditionally recommended. — Prices below.

ASTRO

SUPER - SPEED FOR

CLOSE - UPS

OF

"IMPOSSIBLE" DISTANCES!

Price List for ASTRO Lenses. • Barrel, 16-35mm, Cine Mounts

FOCAL LENGTH		Speed or Aperture	PRICE In Barrel with Iris	PRICE In focusing mount for 16mm Cine Specify Type S-Kodak Type C B & H	PRICE In focusing mount for 35mm Cine Specify Eyemo	PRICE In focusing mount for 35mm Cine Specify Mitchell Arriflex	PRICE In focusing mount including Reflex Viewer for Cine Cameras
Inch	mm						
1	25	F/2	\$157.50	\$237.50	\$237.50	\$237.50	\$
1 3/8	32	F/2	\$159.60	\$242.75	\$242.75	\$242.75	
1 5/8	40	F/2	\$168.00	\$246.75	\$246.75	\$246.75	
2	50	F/2	\$172.50	\$252.00	\$252.00	\$252.00	
3	75	F/2	\$204.00	\$289.00	\$289.00	\$289.00	
4	100	F/2	\$262.50	\$350.00	\$350.00	\$350.00	
5	125	F/2.3	\$175.00	\$225.00	\$225.00	\$225.00	\$425.00
6	150	F/2.3	\$265.00	\$310.00	\$310.00	\$310.00	\$510.00
6	150	F/1.8	\$350.00	\$395.00	\$395.00	\$395.00	\$595.00
8	200	F/3.5	\$265.00	\$310.00	\$310.00	\$310.00	\$510.00
12	300	F/3.5	\$395.00	\$450.00	\$450.00	\$450.00	\$650.00
12	300	F/5	\$175.00	\$206.75	\$206.75	\$206.75	\$406.75
16	400	F/5	\$245.00	\$278.25	\$278.25	\$278.25	\$478.25
20	500	F/4.5	\$630.00	\$675.00	\$675.00	\$675.00	\$875.00
20	500	F/5	\$395.00	\$450.00	\$450.00	\$450.00	\$650.00
25 1/2	640	F/5	\$740.00	\$787.50	\$787.50	\$787.50	\$987.50
32	800	F/5	\$925.00	\$971.00	\$971.25	\$971.25	\$1171.25
40	1000	F/6.3	\$1195.00	\$1233.75	\$1233.75	\$1233.75	\$1433.75
80	2000	F/10	\$4000.00	\$4750.00	\$4750.00	\$4750.00	\$4950.00

Price List for ASTRO Lenses. • 35mm — 6 x 6cm — Reflex Mounts

FOCAL LENGTH		Speed or Aperture	PRICE In focusing mount for Contax S Pentax Praktika 35mm	PRICE In focusing mount for Leica with Leitz Reflex focusing 35mm	PRICE In focusing mount for Master Reflex Primartflex 6 x 6 Specify make	PRICE In focusing mount for Exakta 66 Hasselblad 6 x 6 Specify make	PRICE In focusing mount including Reflex Viewer for Hand Cameras
Inch	mm						
5	125	F/2.3	\$225.00	\$375.00	\$225.00	\$225.00	\$375.00
6	150	F/2.3	\$310.00	\$460.00	\$310.00	\$310.00	\$460.00
6	150	F/1.8	\$395.00	\$545.00	\$395.00	\$395.00	\$545.00
8	200	F/3.5	\$310.00	\$460.00	\$310.00	\$310.00	\$460.00
12	300	F/3.5	\$450.00	\$600.00	\$450.00	\$450.00	\$600.00
12	300	F/5	\$205.50	\$354.00	\$205.50	\$205.50	\$354.00
16	400	F/5	\$276.00	\$428.25	\$276.00	\$276.00	\$428.25
20	500	F/4.5	\$675.00	\$825.00	\$675.00	\$675.00	\$825.00
20	500	F/5	\$450.00	\$600.00	\$450.00	\$450.00	\$600.00
25 1/2	640	F/5	\$787.50	\$937.50	\$787.50	\$787.50	\$937.50
32	800	F/5	\$971.25	\$1121.25	\$971.25	\$971.25	\$1121.25
40	1000	F/6.3	\$1233.75	\$1383.75	\$1233.75	\$1233.75	\$1383.75
80	2000	F/10	\$4750.00	\$4900.00	\$4750.00	\$4750.00	\$4900.00

Order Number 10901 AA (W) Specify fully

Burke & James, Inc., 321 So. Wabash Ave., Chicago 4, Ill., Phone: Area Code 312-427-8393

SEE GUARANTEE ON PAGE 3

5 1/2 inch (139mm) — Coated — F/4.5
BAUSCH & LOMB TESSAR
 Covers 4x5 inches.
 In barrel with iris \$59.50
 In Self-cocking shutter ... \$74.50
 In Compur M-X shutter ... \$99.50
 Order by No. 11102-A (V)

5 1/4 inch (135mm) — Coated — F/10
BOYER APO SAPHIR
 In barrel with iris, covers 4x5 inches.
 No. 11103-A (V) \$124.50

5 inch (125mm) — Coated — f/4
CARL MEYER SPEED
 In barrel with iris, covers 4x6 inches.
 No. 11120-A (U) \$99.50

5 1/2 inch (140mm) — Coated — F/2
T. T. H. COOKE SPEED
 Covers 2 3/4 x 2 3/4 inches — for color.
 No. 11105-A (U) \$448.00

5 inch (125mm) — Coated — F/2.9
DALLMEYER SPEED
 In barrel with iris, covers 3 3/4 x 4 1/4 in.
 No. 11106-A (U) \$148.00

5 inch (127mm) — Coated — F/4.7
EASTMAN KODAK EKTAR
 Covers 4x5 inches.
 In barrel with iris \$69.50
 In Supermatic Synchro shutter \$94.50
 Order by No. 11118-A (V)

5 inch (125mm) Coated F/2
CARL MEYER ANASTIGMAT
 In barrel with iris. Covers 3x4 inches.
 No. 11109-A (U) \$299.50

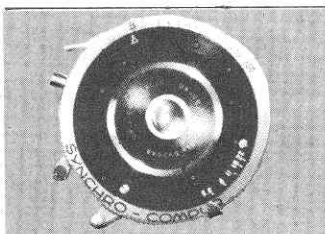
5 inch (125mm) Coated F/2.9
CARL MEYER ANASTIGMAT
 In barrel with iris. Covers 3x4 inches.
 No. 11110-A (U) \$169.50

5 1/4 inch (135mm) — Coated — f/4.5
ENLARGING EKTANON
 In barrel with iris covers 4x5 inches.
 No. 11122-A (T) \$102.00

5 1/4 inch (135mm) — Coated — F/6.3
GOERZ TENASTIGMAT
 Covers 4x5 inches.
 In self-cocking shutter ... \$29.50
 Order by No. 11112-A (V)

5 1/4 inch (135mm) — Coated — F/4.5
IMPORTED ANASTIGMAT
 Popular German Brands too numerous to itemize. Covers 4x5 inches.
 In barrel with iris \$39.50
 In Self-cocking X shutter ... \$49.50
 In Compur shutter \$49.50
 In Compur M-X shutter ... \$84.50
 Order by No. 11126-A (V)

5 1/2 inch (140mm) — Coated — F/4.5
ILEX PARAGON
 Covers 4x5 inches.
 In barrel with iris \$49.50
 In Self-cocking shutter \$84.50
 In Acme M-X shutter \$119.50
 Order by No. 11139-A (V)



5 1/4 inch (135mm) F/6.8
GOERZ (Berlin) DAGOR Series III
 Covers 4x5 inches.
 In barrel with iris \$99.50
 In self-cocking shutter ... 99.50
 Order by No. 11114-A (U)

5 1/4 inch (130mm) F/8
GERMAN ANASTIGMAT
 In self-cocking shutter. Covers 4x5 in.
 No. 11111-A (V) \$19.50

5 1/4 inch (135mm) — Coated — F:3.5
HUGO MEYER PRIMOTAR
 In Compur shutter, covers 3 3/4 x 4 1/4 in.
 No. 11115-A (U) \$89.50

Lens—RENTALS—Camera

For that SPECIAL JOB demanding lenses or cameras not in your regular kit, Burke & James, Inc., now offers a new rental service. Select the lens you need, charge the rental fee to the job—no capital investment—Use the rental equipment freely to make a profit.

Rental fees start at \$25.00 per month minimum. This includes all charges except transportation and insurance which are expense on your account. Fees average 17% per month of the prices shown in this catalogue. A few examples follow:

- No. 12130-AA (Net)—Rental 16 1/2" Goerz Dagor per month \$65.00
- No. 12131-AA (Net)—Rental 19 1/2" B & L Tessar per month \$42.00
- No. 12132-AA (Net)—Rental 5 x 7" Wide-Angle Camera with 3" Goerz Hypergon Lens, Film Holder, Tripod, per month..... \$ 75.00
- No. 12133-AA (Net)—Rental 8 x 10" Wide-Angle Camera with 3 1/2" Goerz Hypergon Lens, Film Holder, Tripod, per month..... \$ 89.50
- No. 12134-AA (Net)—Rental 11 x 14" Wide-Angle Camera with 4 1/2" Goerz Hypergon Lens, Film Holder, Tripod, per month..... \$115.00

5 1/2 inch (140mm) - Coated - F/4.5
KODAK ANASTIGMAT
 Covers 4x5 inches.
 In barrel with iris \$54.95
 In self-cocking shutter ... \$49.50
 In Compur shutter \$67.50
 Order by No. 11128-A (V)

5 1/4 inch (135mm) — Coated — F/3.9
LAACK ANAST
 In Compur shutter, covers 4x5 inches.
 No. 11129-A (V) \$44.50

5 1/4 inch (135mm) — Coated — F/3.5
MEYER PRIMOTAR
 In barrel with iris, covers 4x5 inches.
 Price each \$69.50

5 1/4 inch (135mm) — Coated — f/5.6
SCHNEIDER COMPONON
 In barrel with iris, covers 4 x 5 inches.
 No. 11140-A (V) \$89.50

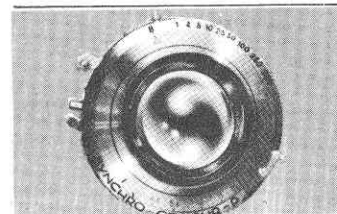
5 1/4 inch (135mm) — Coated — f/5.6
SCHNEIDER SYMMAR
 Covers 4 x 7 inches (convert.).
 In barrel with iris \$89.50
 In Compur M-X shutter \$119.50
 Order by No. 11145-A (V)

5 1/4 inch (135mm) — Coated — F/4.5
SCHNEIDER RADIONAR
 In Ibsor shutter. Covers 4x5 inches.
 Price each \$39.50

5 1/4 inch (135mm) — Coated — F/4.5
SCHNEIDER XENAR
 Covers 4x5 inches.
 In barrel with iris \$59.50
 In Compur M-X shutter \$119.50
 Order by No. 11143-A (V)

5 1/4 inch (135mm) - Coated - F/3.5
SCHNEIDER XENOTAR
 Covers 3 1/4 x 4 1/4 inches.
 In barrel with iris \$157.00
 In Compur M-X shutter \$219.00
 Order by No. 11168-A (U)

5 1/4 inch (135mm) — Coated — F/3.5
SCHNEIDER XENAR
 In barrel with iris \$84.50
 In Compur shutter \$99.50
 In Compur M-X shutter \$124.50
 Order by No. 11152-A (V)



5 inch (125mm) - Coated - F:1.5
TAYLOR HOBSON COOKE
 In barrel, no iris, covers 2x2 inches.
 No. 11156-A (T) \$595.00

5 1/4 inch (135mm) — Coated — F/5.5
SCHNEIDER XENAR
 In Betax shutter, covers 4x5 inches.—
 Price each \$34.50

5 1/4 inch (135mm) — Coated — f/4.7
SCHNEIDER XENAR
 Covers 4x5 inches.
 In barrel with iris \$59.50
 In Compur M-X shutter ... \$119.50
 Order by No. 11141-A (V)

5 1/4 inch (135mm) — Coated — F/3.5
STEINHEIL CASSAR
 Covers 4x5 inches.
 In barrel with iris \$99.50
 In Alpha synchro shutter. 129.50
 Order by No. 11155-A (U)

5 1/4 inch (135mm) - Coated - F:4.5
VOIGTLANDER SKOPAR
 Covers 4x5 inches.
 In barrel with iris \$54.00
 In self-cocking shutter ... \$54.00
 In Compur shutter \$69.50
 In Compur M-X shutter ... \$94.50
 Order by No. 11157-A (V)

5 1/4 inch (135mm) F/6.8
VOIGTLANDER COLLINEAR
 In Compur shutter, covers 4x5 inches.
 No. 11159-A (U) \$59.50

5 1/4 inch (135mm) — Coated — F:4.7
WOLLENSAK RAPTOR
 In Rapax FLASH-SYNCHRO shutter.
 Covers 4x5 inches.
 No. 11161-A (V) \$109.50

5 inch (125mm) - Coated - F:4.5
WOLLENSAK ANASTIGMAT
 In Rapax shutter. Covers 3 1/4 x 4 1/4 in.
 No. 11163-A (V) \$69.50

5 1/4 inch (135mm) — Coated — F/4.5
CARL ZEISS TESSAR
 Covers 4x5 inches.
 In barrel with iris \$64.50
 In Compur shutter \$74.50
 In Compur M-X shutter ... \$105.00
 Order by No. 11176-AA (U)

5 inch (125mm) Coated F/9
CARL ZEISS GOERZ DAGOR
 In Compur MX Synchro shutter. Covers 5x7 inches.
 No. 11164-A (U) \$174.50

5 1/4 inch (130mm) — Coated — F/6.3
CARL ZEISS TRIOTAR
 In Compur "MX" synchro shutter.
 Covers 4x5 inches.
 No. 11165-A (V) \$38.50

5 1/4 inch (135mm) - Coated - F:6.3
CARL ZEISS (Jena) TESSAR IIb
 In Compur shutter, covers 4x5 inches.
 In barrel with iris \$39.50
 In Prontor II shutter ... \$39.50
 In Self-cocking X shutter. \$49.50
 In Compur shutter \$64.00
 In Compur M-X shutter ... \$79.50
 Order by No. 11177-A (V)

5 1/4 inch (135mm) - Coated - F:3.5
CARL ZEISS (Jena) TESSAR
 In barrel with iris, covers 3 1/4 x 4 1/4 in.
 No. 11178-A (U) \$97.50

5 1/2 inch (140mm) - Coated - F/1.5
CARL MEYER SPEED
 Covers 1 3/4 x 2 1/4" in barrel with iris
 No. 11181-A (T) \$749.50

6 inch (150mm) — Coated — F/1.8
ASTRO PAN TACHAR
 In barrel with iris, covers 2 1/4 x 2 3/4 in.
 No. 11182-AA (U) \$349.50

6 inch (150mm) Coated F/2.3
ASTRO PAN TACHAR
 In barrel with iris, covers 3 1/4 x 4 1/4 in.
 No. 11183-A (U) \$229.50

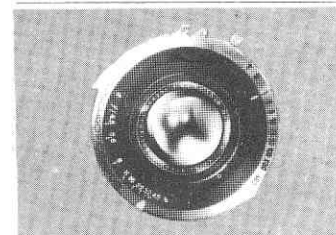
6 inch (158 mm) — Coated — F:6.3
BAUSCH & LOMB TESSAR IIb
 In Barrel, with Iris. Covers 4x5 inches.
 No. 11184-A (V) \$47.50

6 inch (150mm) — Coated — F/2.7
BAUSCH & LOMB BALTAR
 In barrel with iris covers 2x2 in.
 No. 11185-A (T) \$249.50

6 inch (150mm) — Coated — f/3.5
BERTHIOT (France) STELLOR
 In barrel with iris, covers 4 x 5 inches.
 No. 11168-A (U) \$72.50

6 inch (150mm) — Coated — F/3.5
CARL MEYER ANASTIGMAT
 In barrel with Iris. Covers 4x5 inches.
 No. 11169-A (U) \$149.50

6 inch (150mm) F:6.8
GOERZ AMERICAN Anastigmat
 In Barrel, with Iris. Covers 4x5 inches.
 No. 11189-A (V) \$57.50



6 inch (150mm) Coated F/4.5
GOERZ DOGMAR
 In barrel with iris. Covers 4x5 inches.
 No. 11190-A (V) \$54.50

6 inch (150mm) — Coated — F/6.8
GOERZ AEROTAR
 Covers 4x5 inches.
 In barrel with iris \$89.50
 In Prontor Flash synchro shutter \$99.50
 Order by No. 11191-A (U)

6 inch (150mm) — Coated — F/9
GOERZ APOCHROMAT ARTAR
 Covers 3 1/4 x 4 1/4 to 6 1/2 x 8 1/2 inches. — (Same size).
 In barrel with iris \$139.50
 In Compur M-X shutter ... \$144.50
 Order by No. 11192-A (U)

6 inch (150mm) — Coated — F/9
GOERZ "RED-DOT" ARTAR
 Covers 3 1/4 x 4 1/4 to 6 1/2 x 8 1/2 (same size).
 In barrel with iris \$149.50
 In self-cocking X shutter \$149.50
 In Compur M-X shutter. \$169.50
 Order by No. 11193-A (U)

6 inch (150mm) F/6.8
GOERZ (Berlin) DAGOR Series III
 Covers 4x5 inches.
 In barrel with iris \$99.50
 In Compur shutter \$109.50
 In self-cocking syn. shutter 109.50
 In Compur M-X synchro 129.50
 Order by No. 11194-A (U)

6 inch (152mm) — Coated — F/6.8
GOERZ GOLDEN DAGOR (USA)
 Covers 4x5 inches to 5x7 inches @ F/45
 In barrel with iris \$168.00
 In Self-cocking X shutter ... \$175.00
 In Compur M-X shutter ... \$186.00
 Order by No. 11198-A (U)

TELEPHOTO LENSES FOR "CLOSE-UP" PHOTOGRAPHY



★ TELEPHOTO LENSES ★

The Lenses listed below are "true" Telephotos. That is, they have a short back focus while their equivalent length is as indicated. This means that it is possible to use a long Telephoto Lens on a small camera. For example a 4x5" Press Camera will accept a 17" to 20" Telephoto but only a 7" or 8" normal lens. All Telephoto Lenses are coated to reduce internal reflections.

Focal Length	Aperture	BRAND	Mounting	Coverage	Price
3 1/8	f/3.5	Meyer Goerlitz	focusing	1x1 1/2	\$ 69.50
3 1/2	f/3.5	Schneider Tele-Xenar	barrel	1x1 1/2	\$ 39.50
3	f/3.8	Schneider Tele-Xenar	barrel	1x1 1/2	\$ 39.50
3 1/8	f/2.8	Carl Zeiss Tessar	focusing	1x1 1/2	\$ 99.50
3 1/8	f/2.8	Carl Zeiss Biometer	focusing	1x1 1/2	\$124.50
4	f/4	Dallmeyer	barrel	2x2	\$ 42.50
4	f/4.5	Wollensak Raptar	barrel	1x1 1/2	\$ 59.50
4 3/4	f/6.3	Carl Zeiss Tele Tessar	barrel	2x2	\$ 42.50
Order by No. 12006-A(U)					
5 1/2	f/4.5	Berthiot	barrel	2x2	\$ 49.50
5 1/2	f/6.3	B&L for Nat. Graflex	Special	2x2	\$ 69.50
5 1/4	f/2.8	Iscaron (Germany)	focusing	1x1 1/2	\$110.00
5 1/4	f/2.8	Steinheil Quinar	focusing	2x2	\$185.00
5 1/4	f/4.5	Travegon	focusing	1x1 1/2	\$ 69.50
5 1/4	f/3.5	Travegon	focusing	1x1 1/2	\$ 93.00
5 1/4	f/4.5	Travegon	focusing	1x1 1/2	\$ 61.50
Order by No. 12007-A(U)					
6	f/4.5	Bell & Howell Eymax	barrel	2x2	\$ 59.50
6	f/4.5	Cooke Telekinic	Special	3/4x1	\$ 89.50
6	f/4.5	Dallmeyer	barrel	2x2	\$ 89.50
6	f/5.5	Meyer Tele-Megor	barrel	2x2	\$ 57.50
6	f/4.5	Wollensak	barrel	2 1/4x2 1/4	\$ 79.50
6	f/5.5	Schneider Tele-Xenar	Alphax-X	1x1 1/2	\$129.50
Order by No. 12008-A(U)					
7 1/8	f/2.8	Iscaron	focusing	1x1 1/2	\$199.50
7 1/8	f/5.5	Meyer Tele Megor	barrel	3 1/4x4 1/4	\$ 54.00
7 1/8	f/5.5	Meyer Tele Megor	Acme	3 1/4x4 1/4	\$109.50
7 1/8	f/3.5	Primotar	focusing	2x2	\$ 99.50
7 1/8	f/5.5	Schneider Tele-Xenar	Comp M-X	3 1/4x4 1/4	\$114.50
7 1/8	f/4.5	Schneider Tele-Xenar	barrel	3 1/4x4 1/4	\$ 79.50
7 1/8	f/3.5	Schneider Tele-Xenar	Pront. II	3 1/4x4 1/4	\$ 79.50
7 1/8	f/5.5	Schneider Tele-Xenar	barrel	3 1/4x4 1/4	\$ 79.50
7 1/8	f/4.5	Zeiss Tele-Tessar	barrel	2x2	\$119.50
7 1/8	f/6.3	Carl Zeiss Tele-Tessar	barrel	2 1/4x3 1/4	\$ 79.50
Order by No. 12015-A(U)					
8 1/2	f/5.6	Cooke Telephoto	barrel	2 1/4x3 1/4	\$149.50
8 1/4	f/5.4	Plaubel Tele-Makinar	barrel	2 1/4x3 1/4	\$119.50
8 1/4	f/6.3	Plaubel Tele Makinar	barrel	2 1/4x3 1/4	\$ 72.50
8	f/4.5	Voigtlander	barrel	2 1/4x2 1/4	\$129.50
8	f/5.6	Wollensak	Alphax M-X	2 1/4x3 1/4	\$149.50
8	f/5.6	Wollensak Tele Raptar	barrel	2 1/4x3 1/4	\$119.50
Order by No. 12009-A(U)					
9	f/4.5	Carl Meyer Telephoto	barrel	3 1/4x4 1/4	\$119.50
9	f/6.5	Dallmeyer	barrel	2x2	\$119.50
9	f/5.5	Ross Teleros	Compursynch.	3 1/4x4 1/4	\$129.50
9 1/2	f/5.5	Schneider Tele-Arton	Compur-X	4x5	\$284.50
9 1/2	f/5.5	Schneider Tele-Arton	Comp. M-X	2 1/4x3 1/4	\$289.50
9 3/4	f/4.5	Schneider Tele Xenar	Compur	3 1/4x4 1/4	\$199.50
9	f/4	Tele-Megor	barrel	2x2	\$239.50
9 1/2	f/5.5	Voigtlander	Compur M-X	2 1/4x3 1/4	\$189.50
Order by No. 12010-A(U)					
10	f/4.5	Bell & Howell Eymax	barrel	2 1/4x3 1/4	\$ 99.50
10 5/8	f/7	Busch	barrel	2x2	\$119.50
10	f/4.5	Carl Meyer Telephoto	barrel	2 1/4x3 1/4	\$129.50
10	f/6	Dallmeyer	barrel	2x2	\$129.50
10 1/2	f/6.7	Dallmeyer Telephoto	Compur	3 1/4x4 1/4	\$ 98.50
10	f/5.6	Dallmeyer	barrel	2 1/4x3 1/4	\$139.50
10	f/4.5	Dallmeyer Tele	barrel	3 1/4x4 1/4	\$155.00
10	f/6.3	Voigtlander	Compur-X	2 1/4x3 1/4	\$189.50
10	f/6	Schneider Aerotar	barrel	2 1/4x3 1/4	\$169.50
10 3/4	f/5.5	Schneider Tele-Arton	Comp-X	3 1/4x4 1/4	\$324.50
10	f/5.5	Tele-Megor	focusing	2 1/4x2 1/4	\$149.50
10	f/5.6	Wollensak Tele Raptar	Rap. syn.	3 1/4x4 1/4	\$180.00
10	f/5.6	Wollensak Telephoto	barrel	3 1/4x4 1/4	\$139.50
10	f/6.3	Zeiss Tele-Tessar	barrel	2x2	\$139.50
10	f/10	Carl Zeiss Tele Tessar	barrel	2 1/4x3 1/4	\$ 99.50
Order by No. 12016-A(U)					

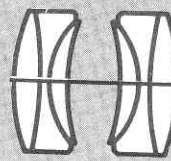
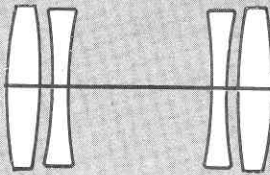
Focal Length	Aperture	BRAND	Mounting	Coverage	Price
11	f/5.6	Carl Meyer Telephoto	barrel	4x5	\$119.50
11	f/5.6	Dallmeyer Tele	barrel	3 1/4x4 1/4	\$129.50
11	f/5.6	Taylor, Hobson Tele.	barrel	4x5	\$149.50
11 1/2	f/6.3	Voigtlander Tele Dynar	barrel	3 1/4x4 1/4	\$ 89.50
Order by No. 12017-A(U)					
12	f/7.7	Dallmeyer Dallon	barrel	4x5	\$ 89.50
12	f/7.7	Dallmeyer Tele	Ibsor-X	4x5	\$ 99.50
12	f/7.7	Dallmeyer Telephoto	Compur M-X	4x5	\$149.50
12	f/4.5	Dallmeyer Tele	barrel	4x5	\$174.50
12	f/5.6	Dallmeyer Tele	barrel	4x5	\$144.50
12	f/5.6	Carl Meyer Orbitor	Alphax-X	4x5	\$389.50
12 1/2	f/5.6	Schneider Tele-Xenar	Comp-X	4x5	\$199.50
12	f/8	Zeiss Tele-Tessar	barrel	2 1/4x3 1/4	\$129.50
Order by No. 12016-A(U)					
13 1/2	f/7	Busch	Compound	2 1/4x3 1/4	\$199.50
14 1/2	f/9	Busch	barrel	4x5	\$199.50
14	f/5.6	Carl Meyer	barrel	4x5	\$224.50
14	f/4.5	Carl Meyer Telephoto	barrel	4x5	\$249.50
14	f/4.5	Dallmeyer Telephoto	barrel	4x5	\$234.50
14	f/5.6	Dallmeyer Telephoto	barrel	4x5	\$169.50
14 1/2	f/5.5	Schneider Tele-Xenar	barrel	4x5	\$174.50
Order by No. 12025-A(U)					
15	f/5.6	Carl Meyer Tele	barrel	4x5	\$224.50
15	f/5.6	TTH Cooke Telephoto	barrel	5x7	\$249.50
15	f/5.6	Wollensak Tele	Alph. M-X	4x5	\$249.50
15	f/5.6	Wollensak Tele	barrel	4x5	\$200.00
Order by No. 12026-A(U)					
16	f/7	Busch	barrel		\$249.50
16	f/5.6	Carl Meyer Tele	barrel		\$249.50
16	f/4.5	Carl Meyer Tele	focusing	1x1 1/2	\$325.00
16 1/2	f/5.5	Huao Meyer Tele Megor	barrel	4x5	\$239.50
16	f/4.5	Schneider Tele-Xenar	barrel		\$325.00
17	f/5.6	Dallmeyer Telephoto	barrel	5x7	\$229.50
17	f/4.5	Dallmeyer Telephoto	barrel	5x7	\$295.00
17	f/5.4	Ross Telecentric	barrel	4x5	\$229.50
18	f/5.6	Carl Meyer Tele	barrel		\$249.50
Order by No. 12027-A(U)					
20	f/5.6	Bausch & Lomb Tele.	barrel	5x7	\$275.00
20	f/5.6	Carl Meyer Tele	barrel	5x7	\$319.00
20	f/6.3	Carl Meyer Tele	barrel		\$249.50
24	f/4.5	Carl Meyer Tele	focusing	2x2	\$495.00
20	f/5.6	Dallmeyer Telephoto	barrel	5x7	\$299.50
20	f/5.6	Mirror-Optics	focusing	1x1 1/2	\$465.00
20	f/5.5	Schneider Tele-Xenar	barrel	5x7	\$449.50
20	f/5.6	TTH Cook Telephoto	barrel	5x7	\$445.00
Order by No. 12028-A(U)					
22	f/7.7	Busch	barrel		\$299.50
24	f/6.5	Dallmeyer Telephoto	barrel	5x7	\$395.00
30	f/6.3	Carl Meyer Tele	barrel		\$495.00
32	f/8	Dallmeyer Tele	focusing		\$595.00
36	f/8	Kodak Tele-Aero	barrel		\$349.00
36	f/6.3	Dallmeyer Tele	barrel		\$790.00
36	f/8	B&H Aero	barrel		\$324.00
36	f/6.3	British Aero	barrel		\$385.00
Order by No. 12029-A(U)					
40	f/8	Dallmeyer Tele	barrel		\$740.00
40	f/8	Bausch & Lomb Tele.	barrel	10x10	\$485.00
40	f/5.6	Bausch & Lomb Tele.	barrel	8x10	\$995.00
60	f/8	Dallmeyer Tele	barrel	10x10	\$2950.00
Order by No. 12035-A(U)					

• MIRROR OPTICS •

COMPACT FOLDED-PATH Optical Systems are available in long focal length lenses on special order. Custom-built to meet requirements per specifications, BURKE & JAMES, INC., solicits your inquiries.



SYNCHRO-COMPUR SHUTTER



ACME SYNCHRO SHUTTER



GOERZ RED DOT ARTAR

Design Properties

The GOERZ RED DOT ARTAR is truly an apochromatic lens—which means that the highest degree of color correction over the entire spectrum has been attained. In other words, chromatic aberrations which cause an effect often referred to as "soft-focus" are completely eliminated. The GOERZ RED DOT ARTAR produces needlesharp and completely matched color separation negatives from color transparencies or reflection copy. Its symmetrical construction eliminates distortion, coma and lateral color—three of the most disturbing defects found in lenses of inferior quality. The optical corrections incorporated in the design of the GOERZ RED DOT ARTAR and maintained in its meticulous manufacture have distinguished the ARTAR for its excellent and uniform covering power. The GOERZ RED DOT ARTAR produces a negative which is evenly illuminated and sharply defined to the very limit of its rated covering power.

Minimum Loss of Subject Contrast

GOERZ RED DOT ARTAR lenses are treated with an extra hard anti-reflection coating. Consequently, light transmission is brought to a maximum. The GOERZ coating eliminates internal reflection and ghost images, thus producing a very crisp negative. The unparalleled accuracy and the extreme care exercised during the complex stages of manufacture make the GOERZ RED DOT ARTAR a lens which for all practical purposes has no flare.

High Resolution

The resolution of the ARTAR is close to the theoretical limit and is uniform over its entire 46° field. This has been achieved by working to unimaginably close tolerances—both in controlling the choice of optical glasses and their manufacture into lenses as well as the precise hand-fitting into barrels.

Order by Catalogue No.	Focal In.	Length mm	Speed	Covers of Same Size	Barrel with Iris	M-X Synchro Shutter	Prism	Flash Stops	Gelatine Filt. Hold.	Lenscap	Flange	
No. 13001-A (U)	4	102	F/9.5	2x3 to 4x6"	\$145.00	\$165.00*	2"	\$195.00	\$2.50	\$3.25	\$1.75	\$6.00
No. 13002-A (U)	6	150	F/9	3¼x4¼ to 6x9"	\$157.00	\$178.00*	2"	\$195.00	\$2.50	\$3.25	\$1.75	\$6.00
No. 13003-A (U)	8¼	210	F/9	4x5 to 9x12"	\$188.00	\$215.00*	2¾"	\$285.00	\$2.50	\$3.25	\$1.75	\$6.00
No. 13004-A (U)	9½	240	F/9	5x7 to 10x14"	\$215.00	\$239.00*	2¾"	\$295.00	\$2.50	\$4.00	\$1.75	\$6.00
						\$267.50†						
No. 13305-A (U)	10¾	270	F/9.5	5x7 to 12x14"	\$230.00	\$257.00*	2¾"	\$295.00	\$2.50	\$4.00	\$1.75	\$6.00
						\$283.00†						
No. 13006-A (U)	12	300	F/9	6½x8½ to 12x17"	\$284.00	\$325.00*	2¾"	\$295.00	\$3.00	\$4.50	\$3.25	\$7.00
						\$340.00†						
No. 13007-A (T)	14	360	F/9	7x10 to 16x20"	\$325.00	\$375.00†	2¾"	\$285.00	\$3.00	\$4.50	\$3.25	\$7.00
No. 13008-A (T)	16½	420	F/9.5	9x12 to 18x22"	\$345.00	\$399.00†	2¾"	\$290.00	\$4.00	\$8.25	\$3.25	\$8.00
No. 13009-A (T)	19	480	F/11	10x14 to 20x24"	\$365.00	\$415.00†	2¾"	\$290.00	\$4.00	\$8.25	\$3.25	\$8.00
No. 13057-A (T)	24	600	F/11	to 24x32"	\$496.00	\$544.00†	3¼"	\$315.00	\$5.00	\$9.25	\$5.00	\$10.00
No. 13012-A (T)	30	750	F/12.5	to 30x40"	\$740.00		3¾"	\$388.00	\$5.00	\$9.25	\$5.00	\$10.00
No. 13014-A (Net)	35	890	F/12.5	to 36x45"	\$998.00		3¾"	\$398.00	\$6.00	\$11.00	\$6.00	\$14.00
No. 13042-A (Net)	42	1065	F/14	to 48x56"	\$1220.00		5"	\$775.00	\$6.00	\$11.00	\$6.00	\$14.00
No. 13048-A (Net)	47½	1205	F/15	to 48x64"	\$1495.00		5"	\$775.00	\$6.00	\$11.00	\$6.00	\$14.00
No. 13049-A (Net)	70	1850	F/16	to 72x90"	\$3050.00						\$9.00	

* Compur M-X Synchro shutter

** Compur X-Synchro shutter

† Acme M-X Synchro shutter

GOERZ GOLDEN DAGOR

Lens Corrections

In the GOERZ DAGOR spherical and chromatic aberrations, curvature of field, distortion and particularly astigmatism have been eliminated to such a degree it is now recognized as a standard for excellence among the finest photographic lenses of today.

Covering Power

GOERZ DAGOR lenses are widely known for their remarkable covering power. They will embrace an angle of view of 87° which is equivalent to covering a film with a diagonal of twice the focal length. The DAGOR will also give great satisfaction for wide-angle work. A 6" GOERZ DAGOR, for instance, rated to cover 4" x 5" at F:6.8 will cover almost an 8" x 10" film when stopped down.

Speed

It must be understood that great speed can be had only at the sacrifice of other qualities, such as depth of focus, angle of view and covering power. The GOERZ DAGOR is well known for these characteristics and therefore is capable of producing negatives of a quality unmatched by comparably faster lenses. Improved film emulsions and the widespread use of flash equipment tend to stimulate a preference for medium speed lenses comprising all the added and proven advantages not found in so-called fast lenses. Don't ask for speed—ask for quality!

* Compur M-X Synchro shutter

** Compur X-Synchro shutter

† Acme M-X Synchro shutter

Order by Catalogue No.	Focal In.	Length mm	Speed	Coverage	Barrel with Iris	Self-cocking Shutter	M-X Shutter
No. 13071-A (U)	1½	40	F/6.8	1x1½ to 1¾x2¼"	\$180.00	\$200.00	\$225.00*
No. 13072-A (U)	2¾	60	F/6.8	1½x2½ to 2½x3¾"	\$205.00	\$225.00	\$250.00*
No. 13073-A (U)	6	150	F/6.8	4x5 to 5x7"	\$168.00	\$175.00	\$186.00*
No. 13074-A (U)	8¼	210	F/6.8	5x8 to 10x12"	\$220.00	\$235.00	\$247.00*
							\$272.00†
No. 13075-A (U)	9½	240	F/6.8	6½x8½ to 11x14"	\$265.00	\$285.00	\$307.00**
							\$318.00†
No. 13076-A (U)	10¾	270	F/6.8	7x9 to 12x16"	\$324.00	\$348.00	\$375.00†
No. 13077-A (U)	12	300	F/6.8	8x10 to 14x17"	\$346.00	\$375.00	\$398.00

LENSES FOR POPULAR CAMERAS



COLUMBIA — EDIXAFLEX — PENTAX — PENTACON — EDIXA — PRAKTIKA — CONTAX D, S, DA (Screw Threads)

In.	mm	Apert.	Name	Price
1 1/8	28	f/3.5	ANGENIEUX	\$139.50
1 1/8	28	f/4	SCHNEIDER	\$142.50
1 5/8	40	f/4.5	SCHNEIDER	\$ 49.50
2	50	f/2	COOKE AMATOL	\$ 89.50
2	50	f/3.5	PRIMOTAR	\$ 39.50
2	50	f/2	SCHNEIDER XENON	\$112.50
2	50	f/2.9	VICTAR	\$ 39.50
2	50	f/2.8	ZEISS TESSAR	\$ 69.50
2	50	f/3.5	ZEISS TESSAR	\$ 49.50
2	50	f/1.5	ANGENIEUX	\$199.50
2	50	f/1.9	WESTROCOLOR (Auto)	\$ 49.50
2 1/4	54	f/3.5	EXAKTAR	\$29.50
2 1/4	58	f/1.9	PRIMOPLAN	\$ 57.50
2 1/4	58	f/2	ZEISS BIOTAR	\$139.50
2 3/8	58	f/2	ZEISS BIOTAR (Auto)	\$169.50
3	75	f/1.5	CULMINON	\$169.50
3	75	f/1.5	ZEISS BIOTAR	\$299.50
3 1/4	80	f/2.8	ZEISS TESSAR	\$ 79.50
3 1/4	80	f/2.8	ZEISS BIOMETER	\$ 89.50
3 1/4	80	f/3.5	PRIMOTAR	\$ 49.50
3 3/8	85	f/2.8	CULMINAR	\$ 69.50
3 3/8	85	f/2	KALIMAR	\$169.50
3 3/8	85	f/1.5	LITHAGON	\$299.50
3 3/8	85	f/2.8	TELEGON	\$ 64.50
3 1/2	90	f/4.5	CHALIER	\$ 79.50
3 1/2	90	f/1.8	ANGENIEUX	\$299.50
4	100	f/2.5	COOKE SPEED	\$174.50
4	100	f/5.6	DALLMEYER TELE	\$ 69.50
4	100	f/3.5	PIESKER (Germany)	\$ 64.50
4	100	f/4.5	WESTAR	\$ 49.50
4 1/8	105	f/4	TELEPAR	\$ 49.50
5 1/4	135	f/3.8	KILFITT KILAR	\$119.50
5 1/4	135	f/3.5	PRIMOTAR	\$ 69.50
5 1/4	135	f/2.8	SOLIGOR (Japanese)	\$149.50
5 1/4	135	f/2.8	TELE-ISCARON	\$119.50
5 1/4	135	f/4	ZEISS TRIOTAR	\$ 89.50
5 1/4	135	f/2	TOPCOR	\$895.00
6	150	f/5.5	SCHNEIDER TELE	\$ 99.50
6	150	f/5.5	TELE-PICON	\$ 99.50
7 1/8	180	f/5.5	TELE PICON	\$149.50
7 1/8	180	f/5.5	TELE-MEGOR	\$ 79.50
7 1/8	180	f/2.8	ZEISS SONNAR	\$369.50
8	200	f/2.9	CARL MEYER	\$299.50
8	200	f/3.5	KOMURA (Japanese)	\$129.50
8	200	f/2.8	PROMINAR	\$249.50
8	200	f/5.5	TELE-XENAR	\$134.50
9 1/2	240	f/5.5	TELE-XENAR	\$119.50
10	250	f/4.5	CARL MEYER (Amer.)	\$199.50
10	250	f/5.5	TELE-MEGOR (Germ.)	\$139.50
10	250	f/5.5	CARL MEYER	\$174.50
12	300	f/5	ASTRO (German)	\$199.50
12	300	f/2.8	CARL MEYER	\$389.50
12	300	f/5.6	ROKUNAR (Japanese)	\$119.50
12	300	f/4	ZEISS SONNAR	\$395.00
15	355	f/5.6	SOLIGOR (Japanese)	\$139.50
16	400	f/5	VOTAR (Germany)	\$199.50
16	400	f/5.5	TELE-MEGOR (Germ.)	\$199.50

Order By No. 13261-A(V)

LENSES FOR BERTRAM

In.	mm	Apert.	Name	Price
2 1/2	65	F/6.8	SCHNEIDER ANGULON (V)	\$49.50
3	75	F/3.5	SCHNEIDER XENAR (V)	\$44.50
4 1/8	105	F/4.5	SCHNEIDER XENAR (V)	\$34.50
7 1/8	180	F/5.5	SCHNEIDER Tele-Xenar (V)	\$79.50

Factory mounted. Automatic coupled. Limited stock.
Order By No. 13262-A(V)

KARDON - NIKKA - TOWER - 35

In.	mm	Apert.	Name	Price
1 5/8	38	F/4.5	WESTRON	\$39.50
1 1/8	28	F/4.5	LYCOMAR WIDE ANGLE*	79.50
1 3/8	35	F/2.8	CARL ZEISS BIOGON	159.50
1 3/8	35	F/3.5	ELMAR WIDE ANGLE*	69.50
1 3/8	35	F/4.5	STEINHEIL ORTOSTIGMAT*	54.50
2	50	F/2	COOKE AMATOL*	74.50
2	50	F/1.4	CARL ZEISS JENA BIOTAR*	229.50
2	50	F/3.5	CARL ZEISS JENA TESSAR*	49.50
2	50	F/1.5	CARL ZEISS JENA SONNAR	189.50
2 1/4	60	F/1.5	CARL ZEISS JENA SONNAR	249.50
3 3/8	85	F/5.6	TELO	\$49.50
3 1/2	90	F/3.8	TELO	\$69.50
5 1/4	135	F/2.8	STEINHEIL QUINAR	162.50
6	150	F/5.5	SCHNEIDER XENAR	79.50
7 1/8	180	F/2.8	CARL ZEISS SONNAR	399.00
8	200	F/4.5	STEINHEIL TELE-QUINAR	169.50
10	250	F/4.5	CARL MEYER TELEPHOTO	169.50
12	300	F/4.5	CARL MEYER TELEPHOTO	224.50
20	500	F/5.6	BAUSCH & LOMB TELE	319.50

*Coupled to Range Finder
Order By No. 13263-A(V)

ASAHI FLEX - TOWER REFLEX 35

In.	mm	Apert.	Name	Price
2	50	f/3.5	TAKUMAR	\$49.50
2	50	f/3.5	TAKUMAR	\$ 52.50
2 1/4	58	F/2.4	TAKUMAR	89.50
3 1/4	80	F/2.8	TAYLOR HOBSON COOKE	\$99.50
3 1/4	80	F/2.8	CARL ZEISS TESSAR	89.50
3 1/4	80	f/2	CARL ZEISS BIOTAR	\$184.50
3 1/4	85	F/5.6	TELO	49.50
3 1/2	90	F/3.8	TELEPAR	69.50
4 1/8	105	f/3.8	STEINHEIL CASSAR	\$84.50
4 1/8	105	F/3.5	CARL ZEISS TESSAR	99.50
5 1/4	135	F/3.5	MEYER PRIMOTAR	\$89.50
7 1/8	180	F/5.5	TELE-PICON	\$79.50
6	150	F/4.5	CARL MEYER	\$89.50
10	250	F/4.5	CARL MEYER TELEPHOTO	179.50
20	500	F/5.6	BAUSCH & LOMB TELEPHOTO	299.50

MOUNTING FLANGE \$ 3.75
EXTENSION TUBES SET OF 4 16.95
MICROSCOPE ADAPTER 17.95
Order By No. 13264-A(V)

SOLIGOR - 66 - KALIMAR

In.	mm	Apert.	Name	Price
2 1/8	52	F/3.5	CARL MEYER WIDE ANGLE	\$124.50
3 1/8	80	F/3.5	CARL ZEISS TESSAR	\$ 99.50
3 1/4	80	f/3.5	SOLIGOR	\$49.50
5 1/4	135	F/3.5	TELEGON (German)	89.50
6	150	f/4	SOLIGOR	\$72.50
6	150	F/4.5	CARL MEYER	92.50
7 1/8	180	F/3.5	MEYER PRIMOTAR	159.50
7 1/8	180	F/5.5	TELEGON	99.50
8	200	F/2.9	CARL MEYER VIDEOTEL	275.00
9 3/4	240	F/4.5	SCHNEIDER TELEPHOTO	169.50
10	250	F/5.5	MEYER TELE MEGOR	149.50
10	250	f/4.5	CARL MEYER TELE	\$149.50
12	300	F/7.7	DALLMEYER TELEPHOTO	119.50
14	350	F/5.6	MEYER TELEPHOTO	199.50
16	400	F/5.6	MEYER TELEPHOTO	239.50
20	500	F/5.6	BAUSCH & LOMB TELEPHOTO	319.50

MOUNTING FLANGE \$3.50
EXTENSION TUBES 3/4", 1 1/2" or 3", each \$5.50
Order By No. 13265-A(V)

KORELLE - MASTER REFLEX

In.	mm	Apert.	Name	Price
2 1/8	52	F/3.5	CARL MEYER WIDE ANGLE	\$124.50
3	75	F/3.5	SCHNEIDER RADIONAR	44.50
3	75	F/2.9	SCHNEIDER RADIONAR	49.50
3	75	f/2.8	SCHNEIDER XENAR	\$79.50
3 1/4	80	f/3.5	STEINHEIL CASSAR	\$48.00
3 1/4	80	f/3.5	XENAR	\$ 59.50
3 1/4	80	f/3.5	ZEISS TESSAR	\$ 64.50
3 1/4	80	F/2.8	CARL ZEISS TESSAR	99.50
3 1/4	85	F/3.5	MEYER PRIMOTAR	74.50
4 1/8	105	F/4.5	SCHNEIDER XENAR	59.50
4 1/8	105	f/3.5	CARL ZEISS TESSAR	\$99.50
5 1/4	135	F/3.5	TELE-PICON	89.50
5 1/4	135	f/4.5	XENAR	\$ 99.50
6	150	f/5.6	DALLMEYER (British)	\$124.50
7 1/8	180	f/5.5	TELE-XENAR	\$139.50
7 1/8	180	f/3.5	PRIMOTAR	\$159.50
8	200	f/2.9	CARL MEYER (USA)	\$274.50

MOUNTING FLANGE \$3.50
EXTENSION TUBES 3/4" or 1 1/2" or 3", each \$5.50
NOTE: Early camera with small lens fronts must be adapted for large flange to fit above lenses over 6" focus.
Order By No. 13266-A(V)

CONTAX I-II-III - NIKON (Bayonet)

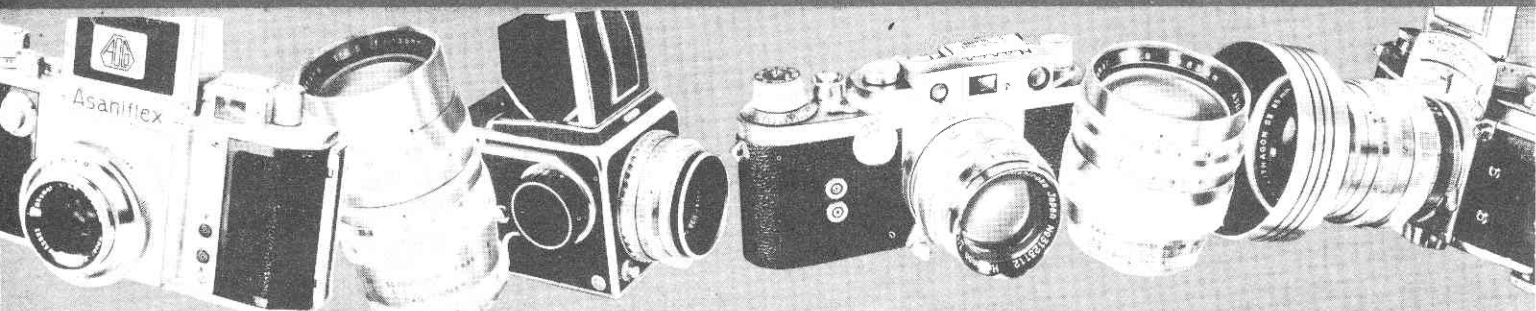
In.	mm	Apert.	Name	Price
1/3	8	f/8	NIKKOR (F)	\$449.50
4/5	21	f/4	NIKKOR (T)	\$189.50
4/5	21	f/4.5	ZEISS BIOGON	\$199.50
1	25	F/4	CARL ZEISS TOPOGON	\$199.50
1 1/8	28	f/8	ZEISS TESSAR	\$ 99.50
1 3/8	35	F/2.8	CARL ZEISS BIOMETER	\$199.50
1 3/8	35	F/2.8	CARL ZEISS JENA BIOGON	\$149.50
1 3/8	35	f/2.8	ZEISS BIOGON (T)	\$149.50
1 3/8	35	f/4.5	ZEISS ORTHOMETER (T)	\$119.50
2	50	f/2	NIKKOR (T)	\$ 94.50
2	50	f/1.4	NIKKOR (T)	\$129.50
2	50	f/2	ZEISS PLANAR	\$139.50
2	50	f/2	ZEISS SONNAR	\$109.50
2	50	f/1.5	ZEISS SONNAR	\$139.50
2	50	f/2.8	ZEISS TESSAR	\$ 49.50
2	50	F/2	CARL ZEISS SONNAR	109.50
2	50	F/1.5	CARL ZEISS SONNAR	\$189.50
3	75	F/1.5	CARL ZEISS BIOTAR*	\$299.50
3 3/8	85	f/2	NIKKOR (T)	\$174.50
3 3/8	85	f/1.5	NIKKOR (T)	\$299.50
3 3/8	85	f/4	ZEISS TRIOTAR	\$ 99.50
3 3/8	85	f/2	ZEISS SONNAR	\$189.50
3 1/4	85	F/2	CARL ZEISS SONNAR	199.50
4 1/8	105	f/2.5	NIKKOR (T)	\$174.50

*In focusing mount — not coupled.
LENS MOUNTING FLANGE \$4.50
FLEKTAGON Reflex Viewer for long-focus lenses \$269.50
Order By No. 13267-A(V)

NOTE: All lenses over 2" are in helical focusing mounts calibrated with distance scale. Viewfinders for long telephoto lenses available on special order (Telescopic sights, etc.).

See Guarantee on page 3

LEICA - CONTAX - TASSALBLAD - EXAKTA - ROBOT - ALFA - SOLIGOR - KALIMAR
KORELLE - NIKON - ASAHIFLEX - KARDON -- PRIMAFLEX - PRAKTICA - NIKKA - TOWER



EXAKTA - PRAKTINA

In.	mm	Apert.	Name	Price
1 3/8	35	F/3.5	TRAVEGON (Pre-set)	92.50
1 1/2	38	F/5.7	BERTHIOT OLOR	49.50
1 5/8	40	f/3.5	KILAR	99.50
1 5/8	40	f/4.5	MEYER	32.50
1 5/8	40	f/3.5	OLYMPUS	39.50
1 5/8	40	F/3.5	OLD DELFT WIDE ANGLE	34.50
1 5/8	40	f/3.5	STEINHEIL CASSARON	39.50
1 5/8	40	F/4.5	CARL ZEISS TESSAR	49.50
2	50	f/2.8	EXTENAR	29.50
2	50	F/2.9	LUDWIG MERITAR	29.50
2	50	F/2.9	MEYER TRIOPLAN	34.50
2	50	F/2.9	PEKONAR	\$32.50
2	50	f/3.5	PRIMOTAR	29.50
2	50	F/2.8	CARL ZEISS TESSAR	\$44.50
2	50	F/3.5	CARL ZEISS TESSAR	39.50
2	50	F/1.9	DALLMEYER	\$44.50
2 3/8	58	F/2	CARL ZEISS BIOTAR	124.50
3 3/8	85	f/1.4	KOMURA	\$248.00
3 1/8	80	f/1.8	KOMURA	\$189.50
3	75	F/1.9	PRIMOPLAN	\$114.5
3 1/4	80	F/3.5	MEYER PRIMOTAR	\$67.50
3 1/8	80	f/2.8	ZEISS Biometer	\$169.50
3 1/4	80	F/2.8	CARL ZEISS JENA TESSAR	89.50
3 1/4	80	F/2.8	ZEISS BIOMETER	\$114.50
3 3/8	85	F/2.8	STEINHEIL CULMINAR	74.50
3 3/8	85	F/5.6	TELO	\$49.50
4	100	F/2.5	COOKE PANCHROIAL	179.50
4	100	F/3.5	TELE PICON	64.50
4	100	F/4.5	ELGEET	\$49.50
4 1/8	105	F/3.8	TELE-KINE	\$48.50
4 1/8	105	F/3.8	STEINHEIL CASSAR	59.50
4 1/8	105	F/3.5	CARL ZEISS TESSAR	114.50
5 1/4	135	F/4.5	SCHNEIDER XENAR	\$69.50
5 1/4	135	f/3.5	VOTAR	\$69.50
5 1/4	135	F/2.8	ISCARON	\$99.50
5 1/4	135	F/2.8	SOLIGOR (Japanese)	99.50
5 1/4	135	f/3.5	TELE-SANDMAR	\$ 89.50
6	150	F/5.5	TELEGON	69.50
6	150	F/4.5	CARL MEYER	79.50
6 1/2	165	F/3.5	CARL ZEISS TESSAR	189.50
7 1/8	180	F/2.8	ISCARON	\$239.50
7 1/8	180	F/3.5	MEYER PRIMOTAR	\$139.50
7 1/8	180	F/5.5	SCHNEIDER Tele-Xenar	\$99.50
7 1/8	180	f/3.5	SOLIGOR	\$169.50
10	250	F/5.5	MEYER TELE MEGOR	149.50
10	250	F/4.5	CARL MEYER TELE	179.50
10	250	F/4.5	SOLIGOR	\$179.50
10 1/2	260	F6.7	DALLMEYER TELEPHOTO	117.50
12	300	f/5.6	ROKUNAR	\$169.50
12	300	f/4.5	TELEMEGOR	\$149.50
12	300	f/4	ZEISS Sonnar	\$298.00
14	350	f/5.6	SOLIGOR	\$189.50
16	400	f/5.5	TELEMEGOR	\$169.50
16	400	F/5.5	VOSS	\$174.50

For EXAKTA Lenses order by No. 13347-A(V)
For PRAKTINA Lenses order by No. 13348-A(V)
PRAKTINA Lenses listed above (when available) are priced average \$18.00 net additional. Due to variations in such cameras we suggest you send camera with your order. Use

LENSES ONLY FOR ROBOT

In.	mm	Apert.	Name	Price
1 1/8	30	f/3.5	ROBOT PRIMOTAR	89.50
1 1/8	30	f/3.5	SCHNEIDER XENAGON	89.50
1 1/8	30	f/2.8	CZJ TESSAR	99.50
1 1/8	30	f/3.5	CZJ TESSAR	89.50
1 3/8	35	f/2.8	SCHNEIDER XENAGON	\$119.50
1 1/2	37.5	F/2.8	CARL ZEISS TESSAR	89.50
1 1/2	38	F/2.8	SCHNEIDER XENAR	\$69.50
1 5/8	40	f/1.9	RODENSTOCK HELIGON	\$79.50
1 5/8	40	F/2	RODENSTOCK KILAR	59.50
1 5/8	40	F/1.9	SCHNEIDER XENON	79.50
1 5/8	40	F/2	CARL ZEISS BIOTAR	124.50
2	50	F/5.5	SCHNEIDER TELE XENAR	49.50
3	75	F/3.8	SCHNEIDER TELE XENAR	49.50
3	75	F/4	CARL ZEISS SONNAR	99.50

EXTENSION TUBES 1/2", 1" or 2", net each... \$3.50
Many other lenses may be mounted for these cameras.
Note: When ordering, please specify model and type of mounting. Bayonet mounts are net \$18.00 additional.

Order By No. 13342-A(V)

HASSELBLAD 1600 - 1000

In.	mm	Apert.	Name	Price
2	52	F/3.5	CARL MEYER W. A	139.50
3 1/4	80	F/2.8	CARL ZEISS TESSAR	\$119.50
3 1/4	80	f/2.8	KODAK EKTAR (U)	\$149.50
4	100	F/3.5	KODAK EKTAR (U)	\$199.50
4	100	F/2	CARL ZEISS BIOTAR	224.50
4	100	F/2.3	ASTRO (Berlin)	\$224.50
4 1/8	105	F/2.8	COLOR HELIAR	\$189.50
4 1/8	105	f/3.5	STEINHEIL CASSAR	\$179.50
4 1/8	105	f/3.5	CARL ZEISS TESSAR	\$199.50
5	125	F/2.3	ASTRO (Berlin) PAN TACHAR	199.50
5 1/4	135	f/2.5	ANGENIEUX	\$224.50
5 1/4	135	f/3.5	MEYER PRIMOTAR	\$129.50
5 1/4	135	F/3.5	MEYER PRIMOTAR	\$119.50
5 1/4	135	F/3.5	CARL ZEISS TESSAR	174.50
5 1/4	135	F/2.8	SCHNEIDER XENOTAR (U)	\$239.50
5 1/4	135	F/3.5	STEINHEIL CASSAR	\$129.50
5 1/4	135	f/3.5	VOIGT HELLAR	\$169.50
5 1/4	135	f/3.5	ZEISS SONNAR	\$189.50
6	150	F/2.8	SCHNEIDER XENOTAR (U)	\$329.50
6	150	f/2.5	KODAK EKTAR	\$269.50
6	150	f/2.5	CARL MEYER SPEED	\$299.50
6	150	f/2.7	WOLLENSAK	\$149.50
6	150	F/3.5	CARL ZEISS TESSAR	199.50
6 1/2	165	F/3.5	CARL ZEISS TESSAR	199.50
6 1/2	165	F/2.5	TAYLOR HOBSON COOKE	269.50
7	175	F/2.5	CARL MEYER TELEPHOTO	285.00
7 1/8	180	F/3.5	MEYER PRIMOTAR	169.50
7 1/8	180	F/2.8	CARL ZEISS SONNAR	\$395.00
8	200	F/2.9	CARL MEYER VIDEOSTIG	275.00
8 1/4	210	F/3.5	MEYER TRIOPLAN	\$229.50
8	200	f/5	SCHNEIDER FERN	\$189.50
10	250	F/4.5	CARL MEYER TELEPHOTO	219.50
10	250	F/5.6	CARL MEYER TELEPHOTO	199.50
10	250	F/5.5	MEYER TELEMEGOR	\$199.50
10	250	f/5.6	CARL ZEISS SONNAR	\$239.50
10	250	f/4	CARL ZEISS SONNAR	\$324.50
11	290	f/5.6	DALLMEYER TELE	\$199.50
11	290	F/6.3	VOIGTLANDER TELE	\$169.50
12	300	F/7.7	DALLMEYER	\$129.50
12	300	F/4.5	CARL MEYER TELEPHOTO	239.50
12	300	F/5.6	CARL MEYER TELEPHOTO	220.00
14 1/2	360	F/5.5	SCHNEIDER TELE-XENAR	215.00
16 1/2	400	F/5.5	MEYER TELEMEGOR	\$274.50
16	400	F/5.6	CARL MEYER TELEPHOTO	299.50
17	425	F/5.6	CARL MEYER TELEPHOTO	299.50
20	500	f/5	ASTRO	\$489.50
20	500	F/5.6	TAYLOR HOBSON COOKE	395.00
20	500	F/5.6	BAUSCH & LOMB TELE	349.50
20	500	f/8	CARL ZEISS TELE	\$249.50
40	1000	F/8	BAUSCH & LOMB TELE	485.00

EXTENSION TUBES 1" or 2" or 3", net each... \$20.00

Order By No. 13343-A(V)

LENSES ONLY FOR ALFA

In.	mm	Apert.	Name	Price
2	50	f/3.5	ALORAR	\$ 57.50
2	50	f/2.8	ALFINON	\$ 69.50
2	50	F/1.9	SCHNEIDER XENON	\$89.50
3	75	f/1.5	CZJ BIOTAR	\$299.50
3 1/4	80	F/2.8	CARL ZEISS TESSAR	134.50
3 3/4	85	F/2	STEINHEIL CULMINAR	174.50
3 3/8	85	f/2	SONNAR	\$229.50
4	100	f/2.5	COOKE DEEP FIELD	\$244.50
4	100	F/2	COOKE PANCHROIAL	179.50
4	100	f/2	KINOPTIK	\$269.50
4	100	f/2.8	VOTAR	\$139.50

Order By No. 13344-A(V)

NOTE: All lenses over 2" are in helical focusing mounts calibrated with distance scale. Viewfinders for long telephoto lenses available on special order (Telescopic sights, etc.).

See Guarantee on page 3

LEICA - NOT M3

In.	mm	Apert.	Name	Price
1 1/8	28	f/3.5	CANON*	\$119.50
1 1/8	28	f/3.5	Carl Meyer*	\$119.50
1 1/8	28	f/3.5	NIKKOR*	\$124.50
1 3/8	35	f/1.5	Cannon	\$199.50
1 3/8	35	f/2	FUJINON*	\$139.50
1 3/8	35	f/3.5	SUMMARON*	\$149.50
1 3/8	35	f/3.5	TRINON*	\$ 49.50
1 3/8	35	F/2.8	TRINON*	\$44.50
1 3/8	35	F/4.5	STEINHEIL ORTHOSTIG*	\$44.50
1 3/8	35	F/3.5	W. A. LYKEMAR	\$44.50
1 3/8	38	F/3.5	CHLORO WA	\$37.50
1 3/8	35	f/1.7	ZUNOW*	\$169.50
2	47	f/2	EKTAR*	\$ 99.50
2	48	f/1.9	MISSILTRONICS	\$ 94.50
2	50	f/1.5	ANGENIEUX*	\$199.50
2	50	f/2.8	ANGENIEUX*	\$ 89.50
2	50	f/1.5	CANON*	\$174.50
2	50	F/2	COOKE AMATOL*	74.50
2	50	f/2	HONOR*	\$ 99.50
2	50	f/1.5	NOKTON*	\$154.50
2	50	f/1.5	SCHNEIDER XENON*	\$179.50
2	50	f/1.5	SUMMARIT*	\$199.50
2	50	f/2	SUMMAR*	\$129.50
2	50	f/2	SUMMITAR*	\$139.50
2	50	f/2	SUMICRON* (M-3)	\$129.50
2	50	f/1.5	Carl Zeiss SONNAR*	\$199.50
2 1/4	58	F/2	CARL ZEISS BIOTAR*	159.50
3	73	F/1.9	HEKTOR*	\$164.50
3	75	f/1.5	Kino Plasmat	\$239.50
3	75	f/1.9	MEYER PRIMOPLAN*	\$119.50
3 1/4	85	F/2	DALLMEYER*	\$149.50
3 1/4	85	f/1.9	CANON*	\$139.50
3 1/4	85	F/1.5	CANNON*	\$189.50
3 1/4	85	F/1.5	LITHAGON*	199.50
3 1/4	85	f/1.5	NIKKOR*	\$269.50
3 1/4	85	f/2	NIKKOR*	\$219.50
3 1/4	85	f/1.5	SUMMAREX*	\$299.50
3 1/4	80	f/2	SCHNEIDER XENON*	\$219.50
3 1/4	85	F/2.8	STEINHEIL CULMINAR*	\$74.50
3 1/4	85	f/2	C.Z.J. SONNAR	\$229.50
3 1/4	80	F/2.8	CARL ZEISS TESSAR	89.50
3 3/8	85	F/5.6	TELO	49.50
3 1/2	90	F/3.8	TELENAR	69.50
4 1/8	105	f/2.5	NIKKOR (T)	\$159.50
5 1/4	135	f/3.5	SCHNEIDER XENAR	\$129.50
6	150	f/3.5	KILFITT-KLIAR	\$139.50
6	150	f/2.5	Carl Meyer	\$299.50
6	150	f/5.5	MEYER TELEMEGOR	\$ 89.50
9 3/4	240	F/4.5	SCHNEIDER TELE-XENAR	179.50
10	250	F/4.5	CARL MEYER TELEPHOTO	199.50
16	400	f/5.6	NOVOFLEX FERN	\$274.50
19	450	F/5.6	OLD DELFT FOTOTEL	\$465.00
20	500	F/5.6	BAUSCH & LOMB TELE	319.50

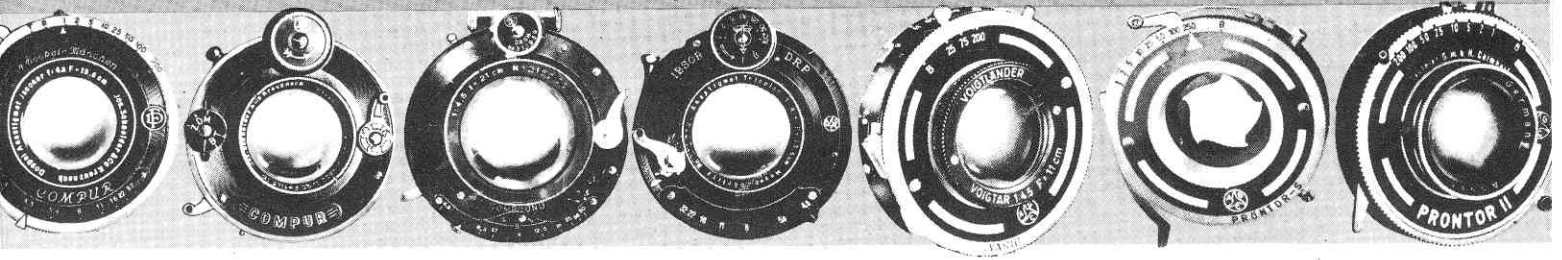
*Coupled to Range Finder
Order By No. 13345-A(V)

PRIMAFLEX - ASTROFLEX

In.	mm	Apert.	Name	Price
2 1/8	52	F/3.5	CARL MEYER WIDE ANGLE	\$124.50
3 3/8	85	f/3.5	MEYER PRIMOTAR	\$74.50
4	100	F/2.8	MEYER TRIOPLAN	109.50
4 1/4	110	F/2.7	ERNOSTAR	\$169.05
4 1/8	105	f/3.5	CARL ZEISS TESSAR	\$109.50
5 1/4	135	F/3.5	BERLIN ANASTIGMAT	99.50
6	150	F/5.5	TELE PICON	99.50
6 1/2	165	F/3.5	CARL ZEISS TESSAR	189.50
7 1/8	180	F/3.5	MEYER PRIMOTAR	159.50
7 1/8	180	F/5.5	TELEGON	99.50
8	200	F/2.9	CARL MEYER VIDEOTEL	275.00
10	250	F/5.5	MEYER TELE MEGOR	149.50
12	300	F/5.5	SCHNEIDER TELE XENAR	159.50
14	350	F/5.6	MEYER TELEPHOTO	199.50
16	400	F/5.6	MEYER TELEPHOTO	239.50
20	500	F/5.6	BAUSCH & LOMB TELE-PHOTO	319.50

Mounting Flange... \$3.50
Extension Tubes 3/4" or 1 1/2" or 3", each... \$5.50
Order By No. 13346-A(V)

IMPORTED SHUTTERS • COMPUR, COMPOUND, IBSOR, PRONTOR, VARIO



The IMPORTED CAMERA SHUTTERS listed represent the finest on the World's Market and we recommend all without reserve. — They are shown in condensed tabular form for ready reference. SPEED RANGES from Time (T) and Bulb (B) to fastest speed in fraction of a second is shown in Column 3. COCKING MECHANISM requires setting on all except IBSOR

DELAYED ACTION TIMER (to take your own picture etc.) is found only on the PRONTORS.

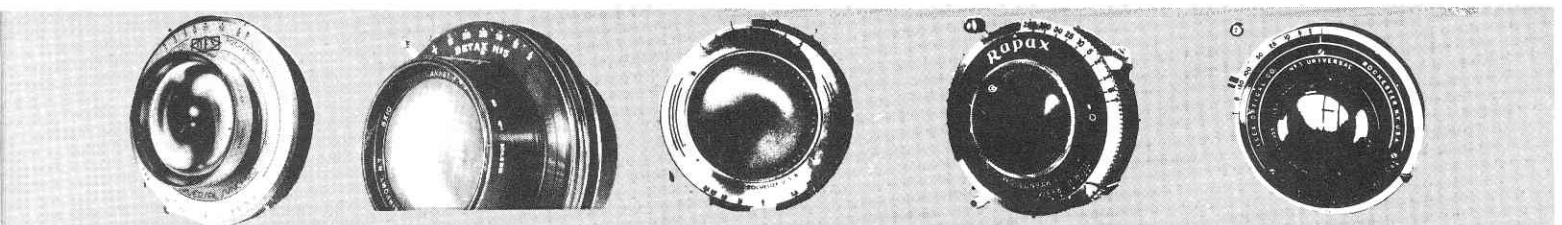
NOTE: Several Models come with "Bulb" settings only.
For such shutters we supply cable releases with time lock screws.

SOCKETS FOR CABLE RELEASE in all except Compur OOS. — FLASH SYNCHRONIZATION (built in) is available only in the following: Compur ISF, Vario OSLF, Prontor S and Prontor II OOSLF.

Due to slight differences in thread etc., it is best that customer send us his lens for estimate and fitting. Frequently, there is little or no Fitting Charge as lens may be screwed directly into new shutter, but it is best if checked carefully by our lens experts, and estimate submitted in advance.

FLASH SYNCHRONIZATION is denoted by "X" or "M-X". The symbol "X" denotes equipment for strobe at all speeds. Where "M-X" is shown there is a choice via lever control from X (strobe) or M which provides a 20 millisecond delay for flash bulbs. Cord attachment type is shown on page 136. (Types A or D only)

	SHUTTER PRICE	FITTING CHARGE APPROX. (Net)	FLANGE PRICE	MAXIMUM IRIS OPENING	FRONT LENS THREAD DIAM.	REAR LENS THREAD DIAM.	FLANGE THREAD DIAM.	OUTSIDE DIAMETER	SPEEDS
No. 13751-A(U)—COMPUR MX—No. 00	\$ 39.50	\$14.00	\$2.10	11/16"	7/8"	7/8"	1"	1-3/4"	B-1 sec.-1/500
No. 13752-A(U)—PRONTOR II—No. 00	\$ 12.00	\$14.00	\$2.10	11/16"	7/8"	7/8"	1"	1-7/8"	B-1 sec.-1/500
No. 13753-A(U)—PRONTOR II-X—No. 00	\$ 16.00	\$14.00	\$2.10	5/8"	7/8"	7/8"	1"	1-7/8"	T&B, 1 sec.-1/200
No. 13754-A(U)—COMPUR X—No. 0	\$ 32.00	\$16.00	\$2.10	15/16"	1-1/8"	1-1/8"	1-9/32"	2-1/4"	B-1 sec.-1/400
No. 13755-A(U)—COMPUR M-X—No. 0	\$ 45.00	\$16.00	\$2.10	15/16"	1-1/8"	1-1/8"	1-9/32"	2-1/4"	B-1 sec.-1/400
No. 13756-A(U)—PRONTOR SX—No. 0	\$ 22.00	\$16.00	\$2.10	15/16"	1-1/8"	1-1/8"	1-9/32"	2-1/4"	B-1 sec.-1/250
No. 13757-A(U)—PRONTOR II—No. 0	\$ 20.00	\$16.00	\$2.10	15/16"	1-1/8"	1-1/8"	1-9/32"	2-1/4"	B-1/25-1/200
No. 13758-A(U)—VARIO-X—No. 0	\$ 18.00	\$16.00	\$2.10	7/8"	1-1/8"	1-1/8"	1-9/32"	2-1/4"	T&B, 1 sec.-1/150
No. 13759-A(U)—IBSOR-X—No. 0	\$ 28.00	\$16.00	\$2.10	7/8"	1-1/8"	1-1/8"	1-9/32"	2-5/16"	T&B, 1 sec.-1/125
No. 13760-A(U)—IBSOR-X—No. 1	\$ 44.00	\$18.00	\$2.50	1-3/16'	1-1/2"	1-3/8"	1-17/32"	2-13/16"	T&B, 1 sec.-1/125
No. 13761-A(U)—PRONTOR-P—No. 1	\$ 54.00	\$18.00	\$2.50	1-3/16'	1-1/2"	1-3/8"	1-17/32"	2-3/4"	T&B, 1 sec.-1/200
No. 13762-A(U)—COMPUR M-X—No. 1	\$ 60.00	\$18.00	\$2.50	1-1/8"	1-1/2"	1-3/8"	1-17/32"	2-13/16"	T&B, 1 sec.-1/400
No. 13764-A(U)—COMPUR X—No. 24	\$ 70.00	\$20.00	\$3.00	1-3/8"	1-9/16"	1-9/16"	1-3/4"	3-1/8"	T&B, 1 sec.-1/200
No. 13765-A(U)—COMPUR X—No. 25	\$ 70.00	\$20.00	\$3.50	1-3/8"	1-3/4"	1-3/4"	2"	3-1/8"	T&B, 1 sec.-1/200
No. 13766-A(U)—COMPUR X—No. 26	\$ 70.00	\$20.00	\$3.50	1-3/8"	1-15/16"	1-15/16"	2-3/16"	3-3/16"	T&B, 1 sec.-1/200
No. 13767-A(U)—COMPOUND X—No. 37	\$ 80.00	\$24.00	\$4.50	1-5/8"	2-3/16"	2-3/16"	2-3/8"	3-1/2"	T&B, 1 sec.-1/100
No. 13769-A(U)—COMPOUND X—No. 49	\$ 90.00	\$24.00	\$5.00	2-1/16"	2-5/8"	2-5/8"	3"	4-1/4"	T&B, 1 sec.-1/75
No. 13770-A(U)—COMPOUND X—No. 512	\$108.00	\$26.00	\$6.00	2-1/2"	3-1/4"	3-1/4"	3-1/2"	5"	T&B, 1 sec.-1/50



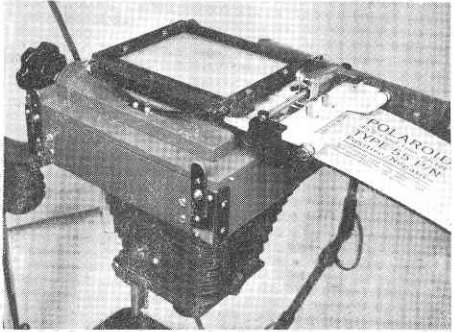
AMERICAN SHUTTERS • ACME • BETAX • ALPHAX • UNIVERSAL

The following listing covers the most popular larger sizes of American shutters. In addition we carry nominal stocks of smaller shutters for replacement. However, we strongly urge that you send in your old shutter **with lens** for estimate on replacement, repairs, etc. Converting older shutters for flash has not proved economical. Instead, we suggest replacement of entire shutter.

The following list are all self-cocking except ACME which is a set and release type (two levers). Also ACME has press-focus control. When available, Alphax shutters can be supplied with press focus at \$20.00 net additional.

FLASH SYNCHRONIZATION is denoted by "X" or "M-X". The symbol "X" denotes equipment for strobe at all speeds. Where "M-X" is shown there is a choice via lever control from X (strobe) or M which provides a 20 millisecond delay for flash bulbs. Cord attachment type is shown on page 13. (Type B only) Type "C" is used on Kodak shutters.

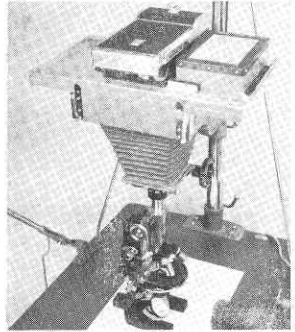
NAME	PRICE	FITTING CHARGE APPROX. (Net)	MAXIMUM IRIS OPENING	LENS THREAD DIAM.	FLANGE THREAD DIAM.	OUTSIDE DIAMETER	SPEEDS †	FLANGE PRICE
No. 13711-A(U)—UNIVERSAL—No. 3—SC	\$ 49.50	\$20.00	1-3/8"	1-3/4"	1-15/16"	3-3/8"	1-1/50	\$3.50
No. 13712-A(U)—UNIVERSAL-X—No. 3—SC	\$ 64.00	\$20.00	1-3/8"	1-3/4"	1-15/16"	3-3/8"	1-1/150	\$3.50
No. 13714-A(U)—ACME M-X—No. 3—SR	\$ 99.50	\$20.00	1-3/8"	1-3/4"	1-15/16"	3-3/8"	1-1/200	\$3.50
No. 13715-A(U)—ALPHAX M-X—No. 3—SC	\$108.00	\$20.00	1-13/64"	1-35/64"	1-43/64	2-7/8"	1-1/200	\$3.00
No. 13721-A(U)—UNIVERSAL—No. 4—SC	\$ 54.00	\$22.00	1-3/4"	2-5/16"	2-1/2"	4"	1-1/100	\$4.00
No. 13722-A(U)—UNIVERSAL-X—No. 4—SC	\$ 66.00	\$22.00	1-3/4"	2-5/16"	2-1/2"	4"	1-1/100	\$4.00
No. 13723-A(U)—ACME M-X—No. 4—SR	\$ 99.00	\$22.00	1-3/4"	2-5/16"	2-1/2"	4"	1-1/150	\$4.00
No. 13724-A(U)—ALPHAX M-X—No. 4—SC	\$110.00	\$22.00	1-11/16"	2-27/64"	2-5/8"	3-3/4"	1-1/50	\$4.00
No. 13731-A(U)—UNIVERSAL—No. 5—SC	\$ 55.00	\$24.00	2-1/2"	3"	3-1/4"	5"	1-1/50	\$6.00
No. 13732-A(U)—UNIVERSAL-X—No. 5—SC	\$ 78.00	\$24.00	2-1/2"	3"	3-1/4"	5"	1-1/50	\$6.00
No. 13733-A(U)—UNIVERSAL M-X—No. 5—SC	\$ 99.00	\$24.00	2-7/32"	2-15/16"	3-1/8"	5 1/4	1/2-1/50	\$6.00
No. 13734-A(U)—ALPHAX M-X—No. 5—SC	\$120.00	\$24.00	2-7/32"	2-15/16"	3-1/8"	4-3/4"	1/2-1/50	\$5.00



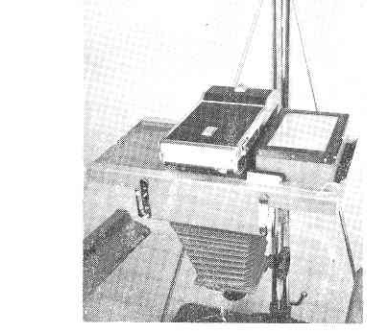
4 x 5" Copies in an Instant

FIELD TESTED OVER 30 YEARS
The basic design and components of the camera have been proven through thirty years of field usage in industry, medicine, education and business. The prototype model was placed in use in 1932, and is still in operation.

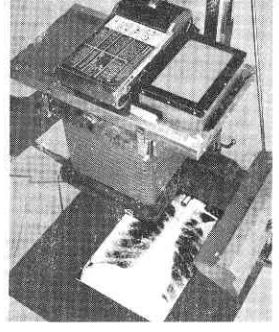
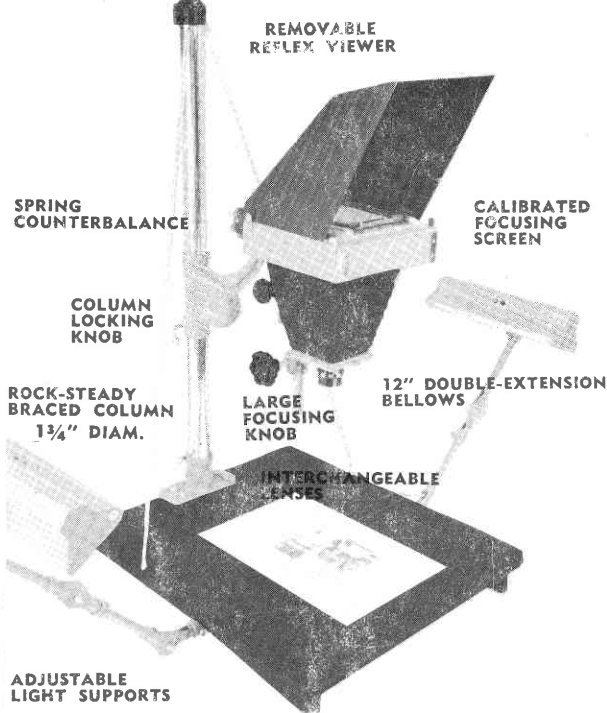
REASONABLE PRICES
The modest price level of these cameras permits their inclusion in any budget. The complete outfits below include everything necessary to start taking pictures except film.



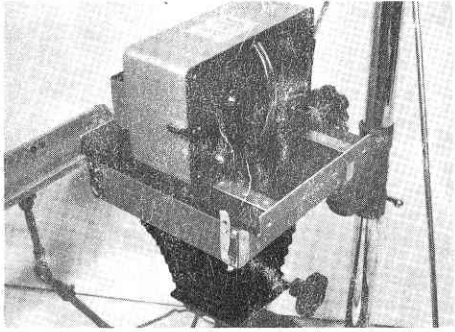
Photomicrographs in an Instant



Slides in an Instant

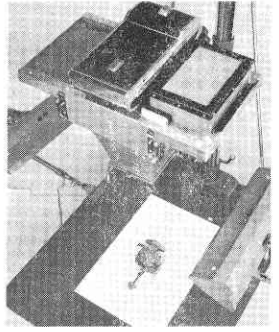


X-Ray Copies in an Instant



70mm x 100 Ft. Roll Film

EASY REFLEX VIEWING
Permits comfortable focusing. Large, well-hooded mirror reflects ground-glass image to allow viewing from front or side of camera. Focusing screen is calibrated in 1/2" squares, making aligning of subject simple. Removable Reflex Viewer fits camera with all accessory backs.

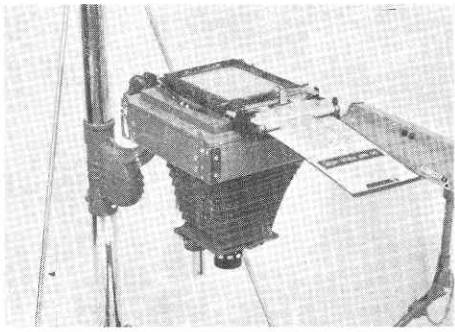


Macrographs in an Instant

VERTICAL or HORIZONTAL
Allows photographing of large originals. Camera portion can be turned to face right or left so that large subjects can be mounted on a wall for copying.

HEAVY-DUTY CONSTRUCTION
Column is 3/4" diameter plated steel tubing. Base is 3/4" thick composition material formulated to remain square and flat. Heavy-duty materials, reinforced at points of wear, are used throughout. The camera has been designed to hold up under steady day-after-day usage in labs, clinics, etc.

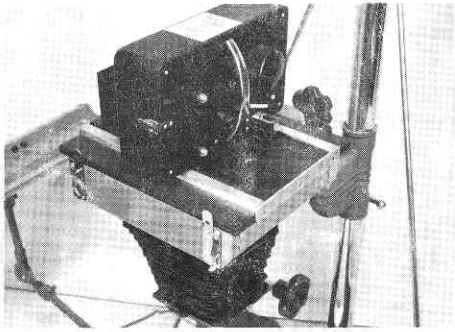
MODULAR CONSTRUCTION
Basic camera body accepts all camera backs from 5x7" to 35mm shown on page 39. Interchangeable Lenses and Lensboards permit wide range of magnification, reduction, high resolution, etc.



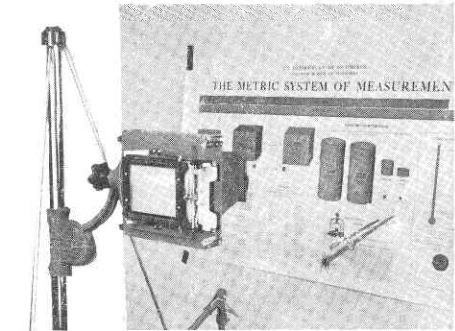
4 x 5" Prints and Negatives—Now!

PRICES, ACCESSORIES, ETC.

- No. 14865-A (U)—4x5" ORBITAR-REFLEX Camera with reversible back and 4 1/8" f/4.5 Coated Lens in shutter \$299.50
 - No. 14866-A (U)—3 1/4" x 4 1/4" ORBITAR-REFLEX Camera with Sliding focusing carriage and POLAROID Roll film camera and 4 1/8" f/4.5 Coated Lens in shutter \$399.50
 - No. 14817-A (U)—70mm x 100 ft. ORBITAR-REFLEX Camera with sliding focusing carriage and 4 1/8" f/4.5 Coated Lens in shutter \$445.00
 - No. 14818-A (U)—35mm x 100 ft. ORBITAR-REFLEX Camera with sliding focusing carriage and 3" f/4.5 Coated Lens in shutter \$445.00
 - No. 14919-A (U)—35mm x 36 exp. ORBITAR-REFLEX Camera with focusing carriage and 3" f/4.5 Coated Lens in shutter \$385.00
 - No. 14854-A (U)—FLASH RING LIGHT with power source for Shadowless photograph \$62.50
- Swinging-Arm support and base-mounted models available on special order to meet specific needs.
- No. 14850-A—4x5" POLAROID Cut Film Adapter No. 500 Net \$49.50



35mm x 100 Ft. Roll Film



Camera In Horizontal Position



Jeweler's Camera