

# MEDO

*Photo Supply Corp.*

15 WEST 47th STREET

JUST WEST OF FIFTH AVE.

*MEdallion 3-2535-6-7-8-9*

NEW YORK

ILLUSTRATED CATALOGUE

*of*

PHOTOGRAPHIC

SUPPLIES

#7-36

SOLE DISTRIBUTORS  
FOR U. S. A.

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See Pages 65 to 73 and Pages 74 to 80

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**MEDO PHOTO SUPPLY CORP.**  
**15 West 47th Street** **New York**

MEdallion 3-2535-6-7-8-9

# FOREWORD



TO PROVIDE more extensive accommodations to meet the steady development of Medo during 20 years in the Photographic Supply Business, we have located our new store at 15 West 47th Street, just off 5th Avenue, New York, near Radio City.

The location is in the heart of New York's most central and selected shopping centre and is easily accessible from everywhere. Our new Home is one of the largest, most modern and complete Camera and Photographic Supply Houses.

We maintain a staff whose every effort is directed towards giving you complete satisfaction. Our large assortment and complete stock enables us to take care of your every photographic need.

New items are demanded by both amateur and professionals to meet the new trends in photography. A carefully compiled index will help you select any desired item.

As complete as we have tried to make this catalogue, no doubt, many items have been overlooked; however, always remember, "That Medo Sells Everything that is used in Photography"—Guaranteed—and at the right price.

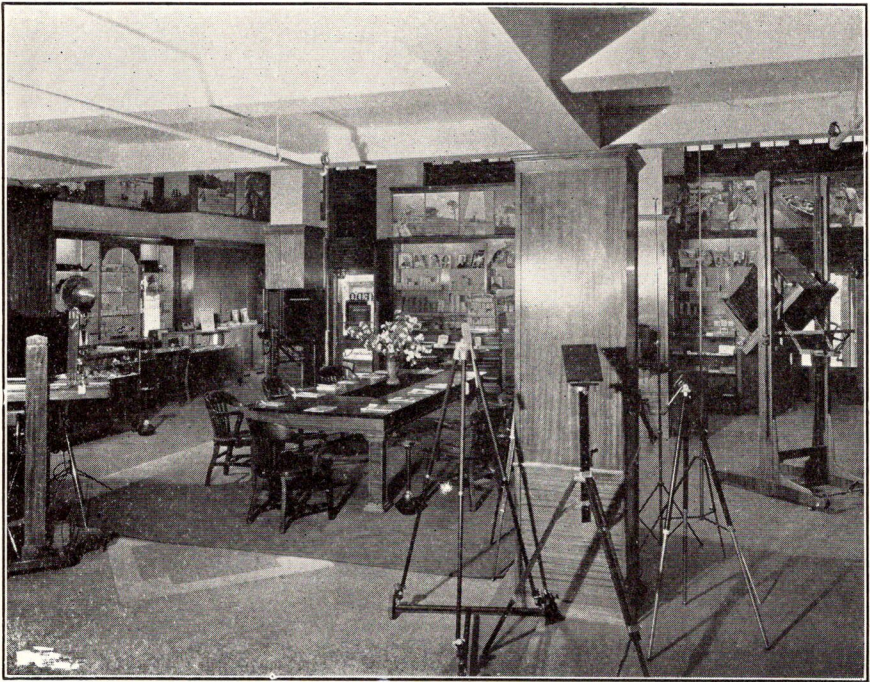
MEDO PHOTO SUPPLY CORP.



View of Our Spacious Modern Showroom and Store.  
Here, Photo Enthusiasts, both Amateur and Professional, spend many delightful hours browsing through Our Photographic Books and Magazines.



Professional Department, Completely Stocked with Everything for the Professional Photographer.  
We are Ultra-Modernly Equipped to Insure Efficient Service.



General View of Our Showroom, looking toward the Front of Our Store.  
Darkroom for Your Convenience is on the Extreme Left.



Portion of the General Office on the Mezzanine Floor  
Where the Most Favorable Working Conditions Exist to Aid in Serving You Efficiently.

**ACCOUNTS**—To establish credit relations with us kindly send the name of your Bank and two or more business houses with whom you have credit accounts.

**C. O. D.**—You can save time and money by sending remittance with order. Persons with whom we are not acquainted, must remit at least one-quarter the value of order to guarantee carrying charges both ways. The full amount paid, will be credited.

**TO ORDER GOODS**—Before writing your order, kindly refer to catalogue for description of goods, giving name, quantity, size, color and contrast. We shall be glad to send you a supply of our regular order blanks on application.

Do not omit the size, grade, contrast, weight and quantity of sensitized products.

Be sure to sign your name in full and give name of town, county and state. Also state whether goods are to be shipped by freight, express or parcel post. When your order does not specify we endeavor to ship the cheapest way, unless the character of the goods require otherwise.

**RESPONSIBILITY**—All goods are carefully packed and delivered to the carrier in first class condition. If goods are received in damaged condition, either by freight or express, the extent of the damage should be noted at once on the delivery receipt and claim made against the carrier without delay.

**PRICES AND TERMS**—All trade discounts have been deducted. A Cash Discount of 2% is allowed on all C. O. D. purchases and on all open accounts paid on or before the 10th of the following month. **All prices are subject to change without notice.**

**EXTENDED PAYMENTS**—Arrangements for extended payments on Lenses, Studio Outfits and Apparatus can be made. Write for particulars.



# INDEX

A	Acid Hypo ..... 62 Adapters, Film Pack ..... 52 Airbrushes ..... 8 Albums and Leaves ..... 8 Aprons and Smocks ..... 8 Art Corners ..... 8 Art Gum ..... 8	Cover Glass ..... 63 Crocks ..... 28 Cutters ..... 123, 124
B	Baby Holders ..... 11 Backing Cloth ..... 11 Backgrounds ..... 8 Backs ..... 8 Balopticans ..... 11 Bellows ..... 11 Binding Strips ..... 60, 63 Blotters ..... 9 Books ..... 9 Bottles ..... 11 Boxes, Lantern Slide ..... 63 Bromide Paper Holders ..... 61 Bromoil Material ..... 10 Bromoil Paper ..... 89 Brushes ..... 10 Bulbs and Tubing ..... 10	D Dallmeyer Lenses ..... 74 to 80 Dark Room Lights ..... 39, 81 De Luxe Bromide ..... 89 Desensitizers ..... 37 Desk, Retouching ..... 109 Developers ..... 24, 25 Developing and Fixing Boxes ..... 30, 118, 119, 120, 121 Developing Outfits ..... 38 Developing Racks ..... 31, 32 Developing Tanks ..... 118, 119, 120, 121 Diffusion Discs ..... 40, 41, 54 Direct Positive Paper ..... 90 Doper ..... 108 Dryers ..... 33, 34, 35, 36, 37 Drying Racks ..... 32 Dry Mounting Press ..... 37 Dry Mounting Tissue ..... 37 Dufay Color Film ..... 49
C	Cable Releases ..... 25 Cameras ..... 12, 13, 14, 15, 16, 17, 18, 19, 20 Camera Dressing ..... 38 Camera Stands ..... 112, 113, 115, 116, 117 Caps, Flash ..... 56 Caps, Lens ..... 26 Carbons ..... 26 Carrying Cases ..... 28, 29, 30 Castors ..... 112, 113 Celluloid ..... 26 Cement, Rubber ..... 109 Changing Bags ..... 25 Chemicals ..... 24, 25 Chromatone ..... 90 Cine Material ..... 21, 22, 23 Clips ..... 26 Clocks ..... 26 Cloth, Backing ..... 11 Cloth, Focusing ..... 56 Cloth, orange, ruby ..... 47 Colors ..... 27 Color Plate Material ..... 49, 95 Commercial Developing Outfits ..... 120 Condensing Lenses ..... 30 Copylites ..... 28 Cotton ..... 28 Couplers ..... 26	E Easels, Enlarging ..... 45 Easels ..... 87 Electric Bulbs ..... 44 Embossing Tools ..... 44 Enamel Graduates ..... 60 Enamel Pails ..... 60 Enamel Trays ..... 122 Enclosures, Glassine ..... 45 Enlargers ..... 39, 40, 41, 42, 43 Envelopes ..... 45 Exposure Meters ..... 46, 47
		F Fabric, orange, ruby ..... 47 Ferrotypes Solution ..... 47 Ferrotypes Plates ..... 47 Film ..... 48, 49, 50, 51, 52 Film Holders ..... 54 Film Sheaths ..... 52 Filmachines ..... 107 Filters ..... 52, 53, 54 Filter Holders ..... 55 Filter Paper ..... 94 Filter Test Charts ..... 54 Finders ..... 55 Finger Tips ..... 55 Fixing Boxes ..... 30, 31, 119, 121 Flanges, Iris ..... 55 Flash Accessories ..... 55, 56

## INDEX—(Continued)

Flash Bulb Guns .....	56	Lamps, Electric .....	44
Flash and Flood Bulbs .....	56	Lamps, Projection .....	44
Flash Powder .....	55	Lantern Slide Material .....	63
Focusing Cloth .....	56	Leads, Pencil .....	99
Folders .....	87	Leather Dressing .....	38
Frames .....	57	Leather-Covered Tripod .....	116
Framing Tools .....	57	Leaves for Albums .....	8
Funnels .....	57	Legs, Tripod .....	117
<b>G</b>			
Glass, all kinds .....	58, 59	Lens Boards .....	82
Glasses, Retouching .....	58	Lens Caps .....	26
Glasses, Safelight .....	81, 82	Lens Cleaning Material .....	64
Glassine Enclosures .....	45	Lens Hoods .....	64, 99
Gloves, Rubber .....	60	Lenses, Condensing .....	30
Glue .....	59	Lenses, Dallmeyer .....	74 to 80
Graduates .....	60	Lenses, Ross .....	65 to 73
Ground Glass .....	58	Lights .....	81 to 87
Ground Glass Substitute .....	58	Linen Tester .....	58
Groupers .....	28	<b>M</b>	
Gum Paper .....	60, 63	Magazines (Books) .....	9
<b>H</b>			
Handi Hinges .....	60	Magazine, Plate and Film .....	99
Hangers, Developing .....	31, 32	Magnifying Glasses .....	58
Head Screens .....	61, 62	Magnifier, Tripod .....	58
Heaters, Hot Breeze .....	60	Mask Charts .....	87
Hinges .....	11	Mats, Lantern Slide .....	63
Holder, Paper .....	61	Medo Developing Tanks .....	30
Holder, Film .....	54	Mezzo Plates .....	26
Holder, Filter .....	55	Mounting Press .....	37
Holder, Plate .....	99	Mounting Tissue .....	37
Hoods, Lens .....	64	Mounts .....	87
Hydrometers .....	61	<b>N</b>	
Hypo .....	62	Negative Albums .....	8
Hypo Jug .....	61	Negative Paper .....	89
<b>I</b>			
Illingworth De Luxe Bromide .....	89	Negative Preservers .....	45
Illingworth Plates .....	95, 97, 98	Negative Racks .....	32
Ink .....	62	<b>O</b>	
Intensifiers .....	62	Oil Colors .....	27
Iris Flanges .....	55	Opaque .....	87, 88
<b>J</b>			
Jugs, Hypo .....	61	Optipod .....	119
<b>K</b>			
Kits .....	62, 63	Outfits, Bromoil .....	10
Knives, Etching .....	45	<b>P</b>	
Kodalak .....	38	Paddles, Print .....	100
Kodaloid .....	26	Paint .....	88
Kodapod .....	119	Pako Apparatus .....	105, 106, 107, 108
<b>L</b>			
Lacquer .....	37	Pako Parts .....	106
Lamps, Dark Room .....	44, 81, 82	Paper .....	88 to 94
		Paper Holder, Bromide .....	61
		Paste .....	59
		Pencils .....	99
		Photomailers .....	45
		Plates .....	95, 96, 97, 98
		Plates, Ferrottype .....	47
		Plate Holders .....	99



## INDEX—(Continued)

Pola Screen .....	100	Spotlights .....	85, 86, 87
Polishing Solution .....	47, 106	Spotting Colors .....	27
Posing Chairs .....	28	Squeegees .....	112
Press, Dry Mounting .....	37	Squeegee Plates .....	47
Primers .....	56	Stain Remover Formula .....	128
Printers .....	102 to 106	Stirring Rods .....	111
Print Frames .....	100	Straighteners, Print .....	101
Print Lustre .....	88	Studio Outfits .....	13, 14
Print Machine .....	108	Studio Registers .....	112
Print Paddles .....	100	Studio Stands .....	112, 113, 115, 116, 117
Print Straighteners .....	101	Studio Stand Tilting Device .....	15
Print Tongs .....	100	Sunshades .....	64
Probus Paint .....	88	Switches .....	106
Processing Frames .....	100	Synchronizers .....	113, 114
Projectors, Cine .....	22, 23		
Projector Lamps .....	44	<b>T</b>	
Push Pins .....	102	Tabloid Products .....	25
		Tanks, all kinds .....	118 to 121
<b>R</b>		Tape .....	60, 63
Racks .....	31, 32	Thermometers .....	121
Reading Glasses .....	58	Tilting Device .....	15
Redevelopers .....	122	Timers .....	26
Reducers .....	109	Tissue, Dry Mounting .....	37
Reducing Backs .....	8	Toners .....	122
Reflectors .....	61, 62	Tongs, Print .....	100
Retouching Frames .....	109	Tops, Tilting .....	117
Retouching Glasses .....	58	Tops, Tripod .....	117
Retouching Pencils .....	99	Traceolene .....	94
Retouching Solution .....	109	Tray Siphon .....	122
Rollers, Print .....	101	Trays .....	122
Ross Lenses .....	65 to 73	Trimmers .....	123, 124
Rubber Cement .....	109	Tripod Brace .....	119
Rubber Gloves .....	60	Tripod Magnifier .....	58
Rulers, Transparent .....	109	Tripod Shoes .....	118
		Tripods .....	112, 113, 115, 116, 117
<b>S</b>		Tripod Accessories .....	117, 119
Safelights .....	81, 82	Tubing .....	10
Scales .....	110		
Scotch Tape .....	63, 64	<b>V</b>	
Screens, Cine .....	24	Varnish, Retouching .....	124
Self Timers .....	112	Ventilators .....	124
Seltona Paper .....	89	View Finders .....	55
Septums .....	99	Vignettors .....	124
Sharpeners, Pencil .....	99		
Sheaths .....	52	<b>W</b>	
Shutters .....	110, 111	Washers .....	124, 125, 126
Siphon, Tray .....	122	Waxing Solution .....	128
Slides .....	112	Wellington Bromide .....	88, 89
Smocks .....	8	Wringers .....	127
Sponges, Viscose .....	111		
		<b>X</b>	
		X-ray Materials .....	128

Catalogues available upon request

Backgrounds, Graflex Equipment, Elwood Enlargers, Bausch & Lomb Lenses, Goerz Lenses, Wollensak Lenses, Carl Zeiss Lenses, Eastman Formula Books, Defender Gevaert, Ansco, Hammer Products, Graphic Art Supplies, Cine Kodak Catalogue, Bell & Howell Filmo Equipment, Leica and Contax.



BLOTTERS

WORLD BLOTTERS, LINTLESS, WHITE 19"x24"

	Doz.	¼ Ream	½ Ream	Ream
100 lb.	.65.....	\$5.95	\$11.10	\$21.30
120 lb.	.70.....	6.50	12.00	23.30
140 lb.	85.....	7.75	15.00	29.00
Kodak Blotter Roll .....				\$1.35
Blotter Book 8x10 .....				.65

LINEN FINISH BLOTTER 19" x 24"—100 LB.

	Doz.	¼ Ream	½ Ream	Ream
\$ .65.....		\$5.95	\$11.10	\$21.30

BOOKS & MAGAZINES ON PHOTOGRAPHY

	Copy		Yr. Sub.
American Photography .....	\$ .25		\$2.50
Camera .....	.25		2.50
Camera Craft .....	.25		2.50
Movie Makers .....	.25		3.00
Photo Art .....	.25		2.50
Pocket Photo Monthly .....	.15		1.50
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American Annual .....	Paper 1.50	Cloth	2.25
British Journal Almanac .....	1.00	"	1.50
Elementary Photographic Chemistry .....			1.00
Fundamentals of Photography .....			1.00
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Photography of Colored Objects .....			.50
Photomicrography .....			.50
Wratten Light Filters .....			.50
Photographic Sensitometry .....			1.50
Commercial Photography .....			3.00
Rollieflex Book .....			1.60
Technique of Color Photography .....			2.00
Deutsch Lichtbild .....			5.00
Body Beautiful .....			3.00
Press Photography .....			3.00
Modern Miniature Cameras .....			2.00
Deluxe Leica Data Book .....			1.00
Leica Manual .....			4.00
Modern Photography .....		— Paper \$2.50 — Cloth	3.50
Photo Enlarging .....			3.50
Colour Photography .....			3.75
Study Portrait Lighting .....			4.50
Bromoil & Transfer .....			2.50
Retouching & Finishing .....			1.25
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Projection Control .....			1.75
Pictorial Lighting .....			2.00
U. S. Camera .....			2.75
Telephotography .....			1.25
Commercial Photography .....			3.00
Infra Red Photography .....			1.50
Making a Photograph .....			3.50
Wellington Handbook .....			.50
Iford Manual of Photography .....			1.00
Selo Handbook .....			.50

**BROMOIL MATERIAL**

Drem Trial Outfit, consisting of: Brush No. 8, Tube Black Ink, Spreader, Tube Drem Medium, Tube Novo Medium, Two Cartridges of Bleacher, Cartridge of Special Developer, Piece of Mastic Rubber, One Bromide Print for Illustration, One Bleached Print 3x4. Outfit Complete .....	ea.	\$5.50
Drem Bromoil Transfer Presses with Steel Rollers and Metal Table Boards: U. W. 30 12" Rollers, Wt. 40 lbs. ....	ea.	85.00
Copperplate Transfer Paper, Single Sheets, White Double Wt. 11¼x15¾ .....	ea.	.25
Package of 10 Sheets .....		2.00
Lechertier-Barble, Ltd., Bromoil Pigments:		
Hard Inks, in Pots .....	ea.	.90
Soft Inks, in Tubes .....	ea.	.60
Lechertier-Barbe, Ltd., Bromoil Pigments:		
Drem Three-Color Pigment Set: Red, Yellow and Blue		
Single .....	\$1.00	Per Set .....
		2.70
Drem Medium .....	per tube	.50
Drem Novo Medium .....	per tube	.50
Drem Bromoil Pigments in Collapsible Tubes .....	ea.	.60
Drem Bromoil Brushes:		
No. 4—¾" .....	\$1.50	No. 16—2" .....
No. 8—1-3/16" .....	2.50	No. 20—2-7/16" .....
No. 12—1-9/16" .....	4.00	No. 24—3" .....
		6.00
		9.00
		14.50
L-B, Ltd., Small Size Polecat Fitch Brushes:		
No. A—1/16" .....	\$ .50	No. D—5/32" .....
No. B—3/32" .....	.60	No. E—3/16" .....
No. C—¼" .....	.65	No. F—7/32" .....
		.70
		.75
		.80
L-B, Ltd., Genuine Polecat Fitch Bromoil Brushes: with Individual Metal Cones		
No. F-2—5/16" .....	\$1.50	No. F- 8—½" .....
No. F-4—¾" .....	1.75	No. F-10—9/16" .....
No. F-6—7/16" .....	2.00	No. F-12—5/8" .....
		2.75
		3.75
		5.00
L-B, Ltd., Mixed Fitch-Hair Bromoil Brushes: with Individual Metal Cones		
No. M- 2—5/16" .....	\$1.00	No. M-18—3/16" .....
No. M- 6—7/16" .....	1.50	No. M-22—15/16" .....
No. M-10—9/16" .....	2.00	No. M-26—1-3/16" .....
No. M-14—11/16" .....	2.50	
		4.00
		5.50
		7.00
Sinclair Bromoil Pigments .....		Tube .60

**BRUSHES**

**RUBBER SET**

Black Bristles Style A No. 80	Camel's Hair Style B, No. 68
1" .....	1" .....
1½" .....	1½" .....
2" .....	2" .....
2½" .....	2½" .....
3" .....	3" .....
3½" .....	3½" .....
4" .....	4" .....
\$ .45	\$ .75
.60	.90
.70	1.20
.80	1.50
1.00	1.95
1.20	2.50
1.50	3.00

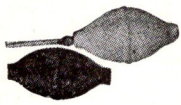
**WINSOR AND NEWTON RED SABLE**

No. 00 Round .....	\$ .30	No. 5 Round .....	\$ .65
No. 0 Round .....	.30	No. 6 Round .....	.85
No. 1 Round .....	.30	No. 7 Round .....	1.25
No. 2 Round .....	.35	No. 8 Round .....	1.50
No. 3 Round .....	.45	No. 9 Round .....	1.85
No. 4 Round .....	.55	No. 10 Round .....	2.40



**CAMERA BULBS AND TUBING**

No. 2—Medium Bulb, 6 in. Tubing .....	\$ .25
No. 3—Large Bulb, 12 in. Tubing .....	.35
No. 4—Red, 18 in. Tubing .....	.40
No. 6—Bulb, Red, No Tubing .....	\$ .75
White Bulb only .....	.35
Tubing, Red, White .....	per foot .10



**MEDO BACKING CLOTH  
HOLLISTON BACKING CLOTH**

An Ideal Backing for Photo Prints, Photostats, Blue Prints and Other Papers

**PRICE PER 100 SHEETS**

Size	100 to 500 Sheets	500 to 2500 Sheets	2500 to 5000 Sheets	5000 to 10000 Sheets	10000 Sheets or more
9x12	\$2.10	\$2.00	\$1.95	\$1.90	\$1.85
10x12	2.35	2.30	2.25	2.20	2.15
11x14	2.95	2.90	2.85	2.80	2.75
12x17	3.90	3.80	3.70	3.65	3.60
12x18	4.15	4.05	3.95	3.85	3.75
18x24	8.20	7.85	7.70	7.55	7.40

**PRICE PER YARD IN ROLLS**

Minimum Order 10 Yards

Less than roll (40 yards) lots				\$ .26
40 to 250 yards	\$ .24½	1000 to 2500 yards		.23
250 to 500 yards	.24	2500 to 5000 yards		.22½
500 to 1000 yards	.23½	5000 yards or more		.22

**PHOTO HINGES MATT AND GLOSSY**

IN PACKAGES OF 1000 ONLY

	Glossy	Matt		Glossy	Matt
1"x10"	\$3.00	\$1.25	2"x10"	\$5.75	\$2.00
1"x12"	3.50	1.25	2"x12"	6.50	2.00
2"x 8"	4.25	2.00	2"x17"	11.00	3.25

**BABY HOLDER**

The baby is held in a natural way and may be safely left to pose. No part of the holder shows in the picture and there is no bulging of the clothing ..... \$2.00

**BOTTLES**

FOR STORING STOCK SOLUTIONS

8 oz. ....\$ .12	16 oz. ....\$ .18	32 oz. ....\$ .25	Half Gal. ....\$ .35	One Gal. ....\$ .50
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**BELLOWS**

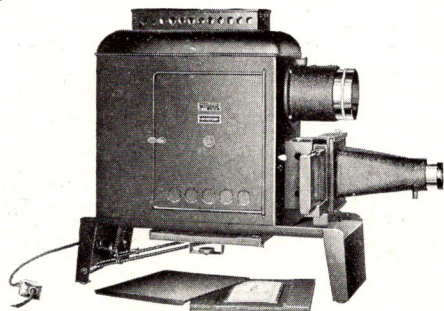
Size of Camera	Length	Price	Size of Camera	Length	Price
4 x 5 View	20"	\$ 6.00	5 x 7 Portrait	13½"	6.50
5 x 7 View	24"	7.50	6½x 8½ Portrait	16½"	7.75
6½x 8½ View	28"	8.75	8 x10 Portrait	18½"	9.00
8 x10 View	32"	10.50	7 x17 Panoramic	28"	11.50
7 x11 View	34"	12.00	8 x20 Panoramic	32½"	13.25
11 x14 View	42"	16.00	12 x20 Panoramic	22½"	12.75

All bellows are leatherette with leather corners eliminating necessity of all-leather bellows. Forward camera, or old bellows, including frames and we will do the rest.

**BAUSCH & LOMB BALOPTICONS**

The person interested in visual instruction methods and equipment will find that "Balopticon" stands for the highest type of "still projection apparatus. We will be glad to advise you without obligation regarding the best type of equipment to use.

Send for our complete illustrated catalogue. Priced from ..... \$57.50

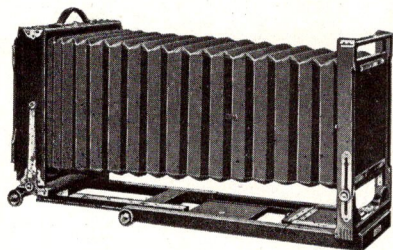


# CAMERAS

## EASTMAN VIEW CAMERA

5 x 7 AND 8 x 10 NO. 2D, AND 11 x 14

These cameras are all strong, durable, well reinforced, easily operated, and made to stand hard work. They have ample rising and falling fronts, reversible backs, horizontal and vertical swings, double extension beds, and front and back focusing adjustments operated by rack and pinion. They are sufficiently compact to permit the use of wide-angle lenses, and the 5 x 7 and 8 x 10 models have a sliding tripod block and cut-off boards which permit one to make two or four exposures on the film or plate. The bellows are of red morocco leather with spring support, the back extensions are removable, the front hinged, and clamps and a heavy screw give them great rigidity.

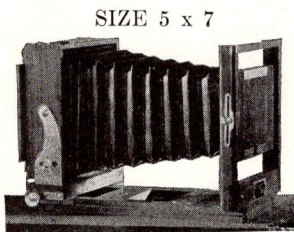


The cameras are finished in flat, dark mahogany with dull metal trimmings. Extensions are of cherry. A strong fiber case is furnished to hold camera, six holders, tripod and focusing cloth.

	5 x 7	8 x 10	11 x 14
Bellows draw	23 in.	29½ in.	37 in
Weight	7 lbs.	11¼ lbs.	14 lbs.
Lens Board	4½ x 4½ in.	6 x 6 in.	5¾ x 5¾ in
Size closed	11¾ x 9¾ x 5¾ in.	14¾ x 13 x 15¾ in.	19¾ x 17¾ x 5¾ in.
Eastman View Camera with Carrying Case and one	5 x 7	8 x 10	11 x 14
Eastman Film or Plate Holder	\$51.00	\$59.50	\$106.25
Extra Fiber Carrying Case	9.90	10.80	12.15
Extra Lens Board	.90	1.10	1.10
Extra Film or Plate Holders	2.20	2.80	8.40
Extra Reducing Back 8 x 10—5 x 7		14.40	

## EASTMAN VIEW CAMERA 33

The Eastman View Camera 33 is designed to meet the demand for an inexpensive 5 x 7 camera, rigidly constructed and easily manipulated. It has a rising and falling front, horizontal and vertical swing backs, single extension bed, back focusing operated by rack and pinion, and is sufficiently compact to permit the use of wide-angle lenses. The reversible back is fitted with a cut off board permitting two exposures on a 5 x 7 film or plate. The bellows has an extension of 13 inches, the lens board measures 4 x 4 inches. The finish is flat walnut, metal parts, satin finished. The camera weighs 4¾ pounds.



Eastman View Camera 33, 5 x 7, with one Film or Plate Holder	\$22.00
Black Fiber Carrying Case for camera and six holders	4.05

## EASTMAN VIEW CAMERA 33-A

Similar to Model 33, but with improved front to take a 4½" lens board and enlarged bellows to accommodate the larger front board .....\$24.65

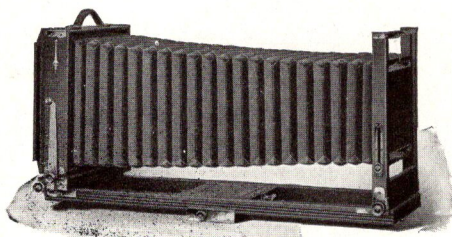
## KORONA CAMERAS

### VIEW CAMERA

Lens Boards—5x7—4½x4½"	8x10—6x6"
Bellows—5x7—24"	8x10—32"
With carrying case and I Film or Plate Holder.	
Price—5x7	\$45.25
8x10	51.65

### HOME PORTRAIT CAMERA

Complete with carrying case and I Plate or Film Holder.	
5x7	\$40.40
8x10	46.95



## MEDO DE LUXE STUDIO OUTFITS

NEGATIVE SIZE 8 x 10 and 5 x 7

Leather Bellows Draw 42" Lens Board 7½x7½"  
Elevation: Camera Bed from floor: Maximum  
5 feet 2" Minimum 28"

Rising Front, Tilting attachment, Back swing.  
All handles are conveniently located, assuring ease  
in operation. All handles and fittings are chromi-  
um plated. Box for plate holders at base of  
stand. Camera and Stand made of mahogany  
highly polished, with a beautiful and lasting fin-  
ish. .... \$250.00

### 8 x 10 and 11 x 14 Deluxe Outfits With 9 Ft. Stand

Has a bellows draw of 45", 7½" x 7½" lens  
board. Equipped with a 9 foot stand. Camera  
tilts on stand to a 90 degree angle, the only  
stand that has this built-in feature. This enables  
the photographer to make "shots" at any angle.

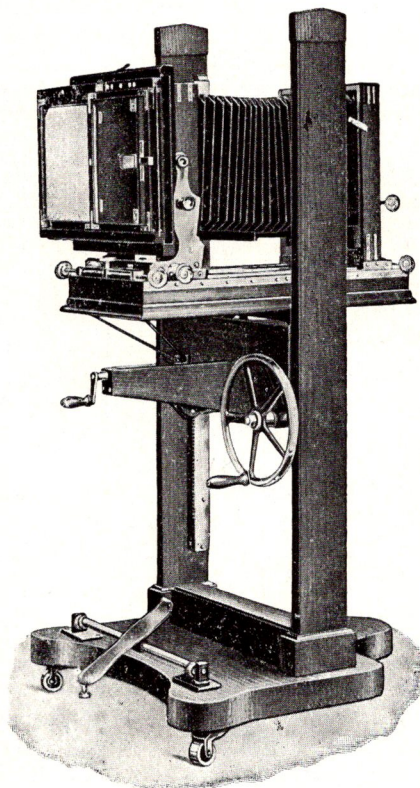
8x10 with 5x7 Back ..... \$325.00  
11x14 with 8x10 Back ..... \$400.00

## GLORIA VIEW CAMERAS

A View Camera That Will Serve Every Purpose

	Bellows Extension	Weight	Lens Board	Price
4x 5	17"	5 lb.	3" x3"	\$40.00
5x 7	22"	6 lb.	4½"x4½"	45.00
8x10	27"	8 lb.	5½"x5½"	50.00

These cameras are made of beautifully finished  
mahogany. They have a front tilting attachment  
to a 45 degree angle when shooting down and a 40  
degree angle upward.



## CENTURY STUDIO OUTFITS

8A, 10A, and 4A

The Century Studio Outfits 8A, 11 x 14, and 10A, 8 x 10, are adaptable to a wide  
range of studio and commercial work. All operations are simple and direct, controls are  
placed within convenient reach of the operator. They have ample vertical and horizontal  
swings and the Century Semi-Centennial Stand, with its tilting bed and counterbalancing  
spring, may be easily raised or lowered from a minimum of 14 inches to a maximum of  
49 inches. The cameras are substantially constructed of mahogany and cherry with mahog-  
any finish.

The new Century Sliding Ground Glass Carriage No. 2, which permits one to focus while  
the film holder is in the carriage with the slide withdrawn, is available with these outfits.  
The 8A has a bellows draw of 43 inches and a 10 x 10-inch lens board. The 10A bellows  
draw is 36 inches and the lens board 9 x 9 inches.

The Century Studio Outfit No. 4A is complete in every respect and is ideal for the small  
studio. It has a 22-inch bellows draw, 9 x 9-inch lens board, vertical and horizontal swings,  
Sliding Ground Glass Carriage, Reversible Adapter Back, and Stand.

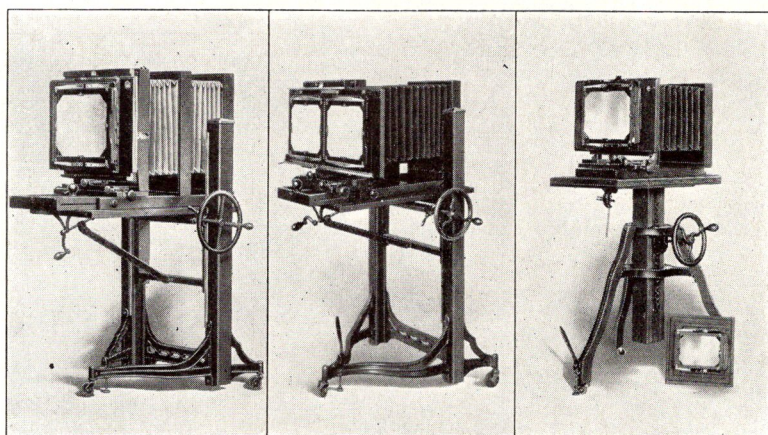
### COMBINATION A

8A Century Studio Outfit, complete, for making full 11 x 14, 8 x 10,  
5 x 7, and "two on" each ..... \$256.95

*Consists of:*

8A Century Studio Camera only ..... 112.95  
2A Century Semi-Centennial Stand ..... 58.50  
No. 1 Century Sliding Ground Glass Carriage, complete, for making  
full and "two on" 11 x 14, 8 x 10, and 5 x 7..... 85.50

## CENTURY STUDIO OUTFITS—Continued



8A

10A

4A

## COMBINATION B

10A Century Studio Outfit, complete, for making full 8 x 10, 5 x 7, and "two on" each. (Equipped with the Improved No. 2 Sliding Ground Glass Carriage.) .....	\$206.55
<i>Consists of:</i>	
10A Century Studio Camera only .....	64.80
1A Century Semi-Centennial Stand .....	54.00
No. 2 Century Sliding Ground Glass Carriage, complete, for making full and "two on" 8 x 10 and 5 x 7 .....	87.75

## COMBINATION C

10A Century Studio Outfit, complete, for making full 8 x 10, 5 x 7, and "two on" each .....	168.30
<i>Consists of:</i>	
10A Century Studio Camera only .....	64.80
1A Century Semi-Centennial Stand .....	54.00
No. 1 Century Sliding Ground Glass Carriage, complete, for making full and "two on" 8 x 10 and 5 x 7 .....	49.50

## COMBINATION D

4A Century Studio Outfit, complete, for making full 8 x 10, 5 x 7, and "two on" each .....	140.40
<i>Consists of:</i>	
4A Century Studio Camera only .....	50.40
4A Century Studio Stand .....	40.50
No. 1 Century Sliding Ground Glass Carriage, complete, for making full and "two on" 8 x 10 and 5 x 7 .....	49.50

## CENTURY SLIDING GROUND GLASS CARRIAGES

## COMBINATION E

No. 1 Century Sliding Ground Glass Carriage, complete, 11 x 14 (for 8A Century Studio Cameras) .....	\$85.50
<i>Consists of the following which may be purchased separately:</i>	
Carriage Chassis only .....	18.00
11 x 14—11 x 14 Reversible Adapter Back with Holder .....	23.40
11 x 14—8 x 10 Reversible Adapter Back with Holder .....	19.80
8 x 10—5 x 7 Reversible Adapter Back with Holder .....	14.40
"Two on" 11 x 14 Winged Kit .....	3.60
"Two on" 8 x 10 Winged Kit .....	3.24
"Two on" 5 x 7 Winged Kit .....	3.06



COMBINATION F

No. 1 Century Sliding Ground Glass Carriage, complete, 8 x 10 (for 4A, 7A, 9A, and 10A Century Studio Cameras) .....\$49.50  
*Consists of the following which may be purchased separately:*

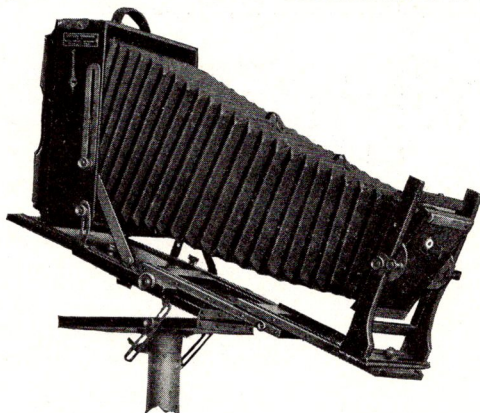
Carriage Chassis only .....	15.53
8 x 10—8 x 10 Reversible Adapter Back with Holder .....	16.20
8 x 10—5 x 7 Reversible Adapter Back with Holder .....	14.40
"Two on" 8 x 10 Winged Kit .....	1.80
"Two on" 5 x 7 Winged Kit .....	1.58

COMBINATION G

No. 2 Century Sliding Ground Glass Carriage, complete, 8 x 10 (for use on 7A, 9A, and 10A Century Studio Cameras) .....\$87.75  
*Consists of the following which may be purchased separately:*

Carriage Chassis only (with full-on kit) .....	20.48
2-8 x 10—8 x 10 Rev. Adapter Backs with Holder .....	Ea. \$16.20 32.40
2-8 x 10—5 x 7 Rev. Adapter Backs with Holder .....	Ea. 14.40 28.80
1 "two on" 8 x 10 Adjustable Winged Kit .....	3.15
1 "two on" 5 x 7 Adjustable Winged Kit .....	2.93

CENTURY UNIVERSAL CAMERA 8 x 10



The Century Universal combines the widest latitude of adjustments with substantial construction yet weighs but 9¾ pounds and measures 4½ x 11½ x 11¾ inches.

The center section of the triple extension bed is controlled by rack and pinion and may be locked in any position. The sliding sections are bound with duraluminum, closely fitted to assure rigidity.

The swinging back may be raised to form an angle of 45 degrees with the bed, or dropped through an arc of over 70 degrees. Rising, falling, and tilting front may be raised 3¼ inches above center and lowered ¾ of an inch below center. With a lateral movement of over 2 inches to right or left as well as a tilt, there are sufficient adjustments to satisfy the most exacting demands in commercial, industrial, and scientific fields.

This camera is constructed from selected cherry, stained a deep rich tone, with metal parts of duraluminum and brass in gray Duco finish.

8 x 10 Century Universal Camera, without lens or carrying case, with one Plate or Film Holder .....	\$81.90
With Fiber Carrying Case (single compartment) for camera and one holder .....	86.40
With Fiber Carrying Case (four-compartment) for camera, extra holders, tripod, and focusing cloth .....	92.70
8 x 10—5 x 7 Reducing Back with one Plate or Film Holder .....	14.40
Extra Lens Board .....	1.25
5 x 7 Century Plate or Film Holders .....	2.32
8 x 10 Century Plate or Film Holders .....	3.20

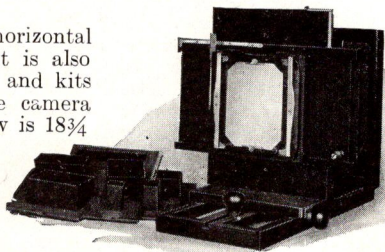
DELUXE TILTING DEVICE

Chromium plated adjustable tube that fits on all Semi Centennial Stands. Will give these stands a 90 degree angle .....\$10.00

### FOLMER MULTIPLE CAMERA AND MULTIPLYING BACK

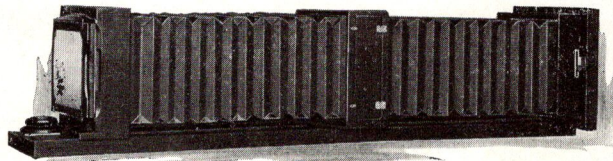
The Multiple Camera will produce 1, 2, 4, 9, 16, or 20 horizontal or vertical negatives on a 5 x 7 film or plate. A kit is also supplied for making 4 full length figures and the back and kits are reversible. All adjustments are easily made. The camera is well constructed of dark finished cherry; bellows draw is 18¾ inches; lens board 6¾ x 6¾ inches.

The Multiplying Back is supplied with the same kits and, when attached to 8 x 10 Eastman or Century View Cameras, these cameras will do the same work as the multiple camera.



**PRICES**

Folmer Multiple Camera with complete set of kits, one 5 x 7 Film or Plate Holder, without lens or shutter .....	\$81.90
With 8½" Kodak Anastigmat Lens and compound shutter .....	171.90
Prices with other lenses on application.	
Extra 5 x 7 Century Film or Plate Holder .....	2.32
Extra Lens Board .....	1.25
Folmer Reversible Multiplying Back complete, with 5 x 7 Holder .....	40.50
Adapter Frame for Century Outfits, Nos. 7A, 9A, and 10A .....	10.80



### CROWN ENLARGING, REDUCING, AND COPYING CAMERA, 8 x 10.

This is an ideal camera for the commercial or industrial studio. It is made in 8 x 10 size with 5-foot bed. As the openings in the front and center compartments are of the same size, the lens may be used either in the front or in the center.

This camera has a rising, sliding, and falling front, and a full set of reversible kits, accepting plates or films from 3¼ x 4¼ inches up to 8 x 10 size.

Weight, 35 lbs.; size of Lens Board, 11" x 11"; Extension Bed, 33½"; size closed, 35" x 15½" x 15½".

The Folmer Laboratory Stand has a base 20½ x 40¼ inches, is 39¾ inches high, and has a platform 16⅞ x 72 inches which may be extended to 7 feet 4 inches. It may be swung in an arc of 180 degrees and held in any position. Two sliding platforms hold a copy or negative holder, with which are furnished a springfinger copy holder, a set of springfinger kits, and a ground glass.

**PRICES**

The Crown Enlarging, Reducing, and Copying Camera, 8 x 10, including one Combination Bromide Paper and Plate Holder and complete set of Kits .....	\$189.00
Extra Combination Bromide Paper and Plate Holders .....	10.35
Attachment for making Lantern Slides, including 3¼ x 4 Holder .....	32.50
Extra Lens Board .....	2.50

### DEARDORFF COMMERCIAL CAMERA

Every photographer knows the necessity of having a camera with a double swing back—a rising front, a swing front and a supplementary rising front for ultra short focus lenses—an extra long, large roomy bellows—a reversible back and a large reversible front board.

5 x 7 Comm'l Camera .....	\$ 95.00	10 x 12 Comm'l Camera .....	\$245.00
8 x 10 Comm'l Camera .....	130.00	11 x 14 Comm'l Camera .....	385.00

### UNIVERSAL VIEW CAMERA

Camera	Maximum	Minimum	Weight	Price
8 x 10 .....	26½	4-1/16	13 lbs.	\$63.75
5 x 7 .....	20½	5¼	8½ lbs.	55.25

### UNIVERSAL JUNIOR VIEW CAMERA

Universal Junior Camera, with one 3¼ x 4½ cut film holder, 2 lens boards, and carrying case, but without lens or shutter .....	\$25.50
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# CONTAX THE IDEAL MINIATURE CAMERA

The Contax is small. It measures  $2\frac{7}{8} \times 1\frac{1}{4} \times 5\frac{1}{2}$  inches. Its body is of all metal construction. The focal plane shutter is made of metal and permits the use of time, bulb and 10 speeds from  $\frac{1}{2}$  to  $\frac{1}{1000}$  sec. The rangefinder allows the camera to be manipulated with one hand. Uses 36 exposure daylight loading film, Contax's removable back permits easier loading, cleaning, and the use of a plate back. There are 12 Zeiss lenses all interchangeable in a bayonet mount.



Contax I, without slow speeds; camera only, no lens .....	\$ 81.00
Contax II, with slow speeds of $\frac{1}{2}$ , $\frac{1}{5}$ , $\frac{1}{10}$ sec. (prices include cable release, film spool, one magazine in container, lens cap and neckstrap)	
With Carl Zeiss Tessar F/3.5, 50 mm. ....	156.00
With Carl Zeiss Tessar F/2.8, 50 mm. ....	168.00
With Carl Zeiss Sonnar F/2, 50 mm. ....	216.00
With Carl Zeiss Sonnar F/1.5, 50 mm. ....	299.00
Camera only, without lens or lens cap .....	106.50

*Further descriptive information of the CONTAX, the CONTAX lenses, and accessories for the CONTAX may be had on application.*



## EXAKTA REFLEX CAMERA MODEL B

The only Reflex Camera using full-size Vest Pocket film (127). Light metal body covered with leather. Ground glass focussing with self-erecting light hood, and built in focusing magnifier. Picture size is  $1\frac{5}{8} \times 2\frac{1}{2}$  inches. The image reflected in the mirror is the exact size of the finished picture. The shutter is a self capping focal plane with exposures up to  $\frac{1}{10000}$ th second as well as  $\frac{1}{10}$ ,  $\frac{1}{2}$ , and 1 to 12 seconds. Delayed action from  $\frac{1}{10000}$ th to 6 seconds.

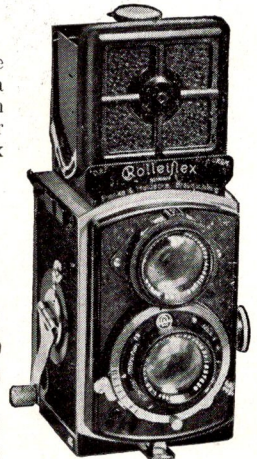
Exakta with F 3:5 Carl Zeiss Tessar	\$110.00
Exakta with F 2:8 Carl Zeiss Tessar	125.00
Exakta with F 2 Carl Zeiss Tessar	225.00
Carrying Case .....	7.50

Interchangeable Lenses:	
Hugo Meyer Tele-Megor 6" F 5:5	\$70.00
Zeiss Wide Angle $5\frac{1}{2}$ cm F 8	80.00
Dallmeyer 6" F 4:5	65.00

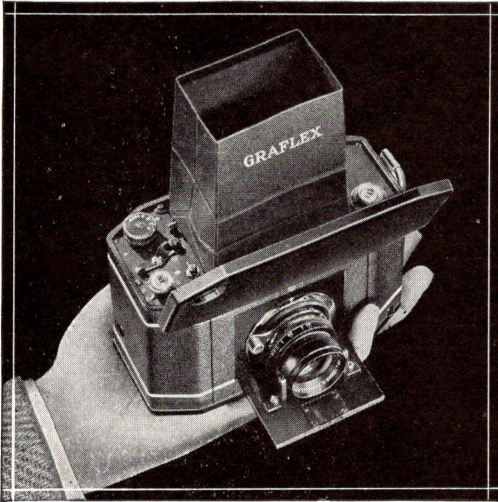
## ROLLEIFLEX

All the adjustments necessary for taking a photograph are made from above in the working position. Only the Rolleiflex has a combined peep-window for controlling both stop and speed with one glance. Only the Rolleiflex has the Compur singlelever shutter for tension and release with one grip. Only with the Rolleiflex can the film be changed with one swing of the crank.

- Size  $1\frac{5}{8} \times 1\frac{5}{8}$  uses No. 127 film
- Size  $2\frac{1}{4} \times 2\frac{1}{4}$  uses No. 117 or No. 120 film
- Size  $1\frac{5}{8} \times 1\frac{5}{8}$  weighs 19 oz.
- Size  $2\frac{1}{4} \times 2\frac{1}{4}$  weighs 22 oz.



	Size $1\frac{5}{8} \times 1\frac{5}{8}$	Size $2\frac{1}{4} \times 2\frac{1}{4}$
With Zeiss Tessar F.3.5 in Compur .....		\$112.00
With Zeiss Tessar F.2.8 in Compur .....	\$116.50	106.50
Complete with leather case		
Rolleiflex Yellow Filter .....	3.85	3.85
Sun Shade in Purse .....		2.15



**NATIONAL GRAFLEX**

Small, Light, Simple, with the famous Graflex features:—Takes 10 pictures 2¼ x 2½ from No. 120 eight exposure roll film.

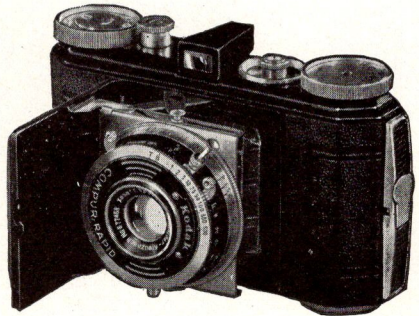
National Graflex Series II with 75 mm B and L Tessar Lens F3.5 .....\$74.25

Carry Cases:

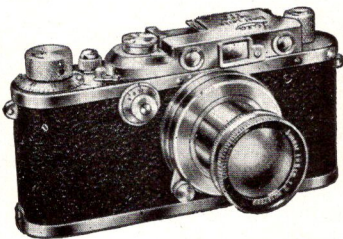
- Waterproof Suede ..... 3.15
- Grain Leather Case ..... 4.95
- Sportsman Case (Eveready) ..... 7.65
- Sunshade ..... 1.00
- Direct View Finder ..... 5.00

**KODAK RETINA**

Here is one of Eastman's latest . . . a precision-built, highspeed miniature. The f.3.5 anastigmat lens is mounted in the nine-speed Compur shutter (1 to 1/500 second.) Important accessories are the film-measuring mechanism, exposure counter, depth-of-focus scale, enclosed direct-view finder, and special plunger release. Loading is done in daylight . . . as with any roll-film camera . . . by means of convenient 36-exposure magazines of Kodak Panatomic or Kodak "SS" Film. All these features mean versatility . . . quick action . . . negatives so sharp that they can be greatly enlarged from their original size of about 1 x 1½ inches. Kodak Retina is a genuine "buy" for the miniature-camera enthusiast.



Kodak Retina, with f.3.5 lens, Compur-Rapid shutter .....\$51.75



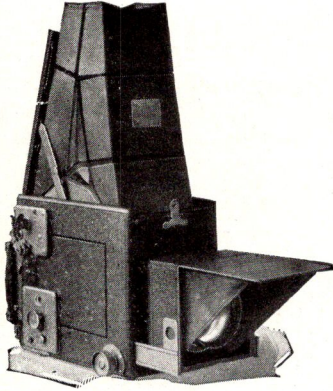
**LEICA—THE CAMERA OF TO-DAY**

The size of the Leica overall is 1⅞x2⅞x5¼ in. Weight 18 oz. Shutter speeds controlled by 2 dials from 1/20 to 1/500th. (1/1000th on model G). All metal construction assures freedom from warping and breaking. The built in range finder means sharp, crisp-clear pictures every time. All Leica lenses are interchangeable and screw into the lens mount. Loading the Leica is simple plus absolute assurity, because you can't load the Leica in any but the right way.

- Leica Autofocal Camera Model G, with Elmar 50mm focus f:3.5 lens .....\$175.50
- Leica Autofocal Camera Model F, with Elmar 50mm focus f:3.5 lens ..... 156.00
- Leica Camera Model E, complete with focal plane shutter with speeds from 1/20 to 1/500th second, special horizontal detachable range finder, Elmar 50mm focus f:3.5 lens, and one film magazine, black finish, without case ..... 99.00
- Leica Autofocal Camera Model D, with Elmar 50mm focus f:3.5 lens..... 130.50
- Leica Autofocal Camera Model FF, with Elmar 50mm focus, f:3.5 lens ..... 244.50

*Accessories:* Play an important part, and it can easily be understood that the more than four-hundred accessories for the Leica make it possible for it to be used in every photographic field. For items and accessories not listed here, please send for our general Leica Catalogue.

**GRAFLEX AND GRAPHIC CAMERAS**



**3 1/4" x 4 1/4" Graphic**

	Without Range Finder	With Range Finder and Mount
No lens, including one cut Film Holder	\$67.50	\$77.40
		In Barrel with Iris Diaphragm
		No Range Finder
With f.4.5 Kodak Anastigmat Lens	5 1/2"	\$ 97.88
With f.3.5 Dallmeyer Serrac Lens	5 1/4"	127.00
With f.4.5 Ross Xpres Lens	5 3/8"	107.50
With f.3.5 Dallmeyer Dalmac Lens	5"	145.00
With f.3.5 Ross Xpres Lens	5 3/8"	138.00

**4" x 5" Graphic**

Without Lens, including one Cut Film Holder ..... 72 00

	Focal Length	In Barrel with Iris Diaphragm	Between-the-lens Shutter
With f.4.5 Kodak Anastigmat Lens	5 1/2"	\$102.38	\$112.50
With f.4.5 Dallmeyer Serrac Lens	6"	139.50	
With f.4.5 Ross Xpres Lens	6"	117.50	
With f.3.5 Dallmeyer Dalmac Lens	6"	166.50	
With f.3.5 Ross Xpres Lens	6 1/2"	157.50	

**5 x 7 Speed Graphic**

Without Lens, including one Cut Film Holder ..... \$86.40

	Focal Length	In Barrel with Iris Diaphragm	Between-the-lens Shutter
With f.4.5 Kodak Anastigmat Lens	7 1/2"	\$131.40	\$156.15
With f.4.5 Kodak Anastigmat Lens	8 1/2"	149.40	176.40

**Revolving Back Series D**

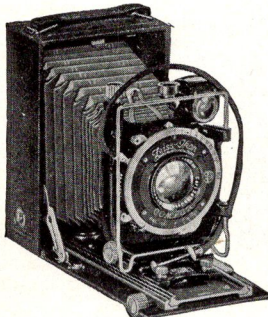
	3 1/4 x 4 1/4		4 x 5	
	Focal Length	Price	Focal Length	Price
Without Lens, including Film Pack Adapter		\$86.40		\$96.30
With f.4.5 Kodak Anastigmat Lens	6 3/8"	119.70	7 1/2"	141.30
With f.4.5 Dallmeyer Serrac Lens	6"	153.90	7 1/2"	183.80
With f.4.5 Ross Xpres Lens	6"	131.90	7 1/4"	156.30
F.4.5 Dallmeyer Telephoto Lens (cost additional)	12"	111.50	14"	135.50
With f.3.5 Dallmeyer Dalmac Lens	6"	180.90	7 1/2"	211.80
With f.3.5 Ross Xpres Lens	6 1/2"	171.90		
F.5.6 Dallmeyer Telephoto Lens (cost additional)	12"	111.50	14"	135.50
			17"	183.00
			20"	263.00
			24"	358.50

COMPLETE PRICE LIST OF GRAFLEX EQUIPMENT ON REQUEST

**ZEISS IKON CAMERAS**

**MAXIMAR A AND B FOR PLATES AND FILMPACKS**

These cameras embody many features of the more advanced ideal models, yet are moderately priced. Both have double bellows extension, permitting the use of Distar and Proxar Lenses. They are outstanding values for plate camera enthusiasts in all parts of the globe, seeking a finely finished camera that will handle practically every phase of photographic work.



With Carl Zeiss Tessar F/4.5, F.P.A., 3 P. H.,	A	B
no case	\$65 00	\$65.00

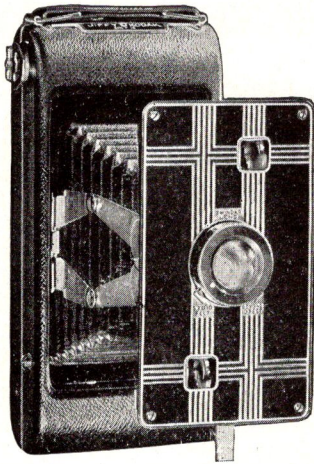
# KODAKS

## JIFFY KODAK

You'll see these popular cameras wherever you go. They're so compact—so handy to carry.

A touch of a button pops the Jiffy into rigid picture-making position. Press another button and the picture is yours. Jiffy Kodaks are beautifully finished in metals and enamels, and richly covered in black morocco grain. Fitted with the new-type Twindar lens that assures fine, clear snapshots.

Jiffy V. P. Kodak Doublet Lens .....	1 $\frac{5}{8}$ x2 $\frac{1}{2}$	\$4.50
Jiffy Kodak No. 620—Twindar Lens ....	2 $\frac{1}{4}$ x3 $\frac{3}{4}$	7.20
Jiffy Kodak No. 616—Twindar Lens ....	2 $\frac{1}{2}$ x4 $\frac{1}{4}$	8.10



## KODAK JUNIORS

SIX-16 AND SIX-20

This is a brand new line of moderate priced cameras, offering you unusual value for your money.

Kodak Jr.—No. 620	Doublet Lens .....	2 $\frac{1}{4}$ x3 $\frac{3}{4}$	\$ 9.00
Kodak Jr.—No. 620	F 6.3 Lens .....	2 $\frac{1}{4}$ x3 $\frac{3}{4}$	12.15
Kodak Jr.—No. 616	Doublet Lens .....	2 $\frac{1}{2}$ x4 $\frac{1}{4}$	10.80
Kodak Jr.—No. 616	F 6.3 Lens .....	2 $\frac{1}{2}$ x4 $\frac{1}{4}$	13.95

# KODAKS

SIX-16 AND SIX-20

Kodaks Six-16 and Six-20 are beautiful to look at . . . wonderfully smooth in operation. For their small size they take surprisingly large pictures (2 $\frac{1}{2}$ x4 $\frac{1}{4}$  and 2 $\frac{1}{4}$ x3 $\frac{3}{4}$  respectively).

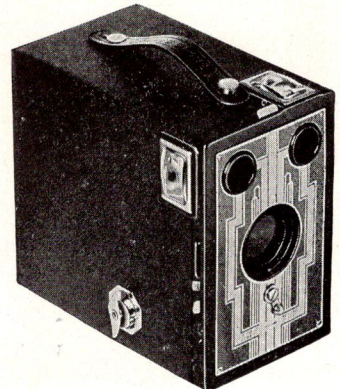
The "action front" springs into rigid position as you touch a button. The f.4.5 and f.6.3 models have both a brilliant reflecting finder and a collapsible direct-view finder; f.4.5 models carry the famous Compur shutter with built-in self timer.

Kodak—No. 620	Doublet Lens .....	2 $\frac{1}{4}$ x3 $\frac{3}{4}$	\$12.60
Kodak—No. 620	F 6.3 Lens .....	2 $\frac{1}{4}$ x3 $\frac{3}{4}$	15.75
Kodak—No. 620	F 4.5 Lens .....	2 $\frac{1}{4}$ x3 $\frac{3}{4}$	33.75
Kodak—No. 616	Doublet Lens .....	2 $\frac{1}{2}$ x4 $\frac{1}{4}$	14.40
Kodak—No. 616	F 6.3 Lens .....	2 $\frac{1}{2}$ x4 $\frac{1}{2}$	18.00
Kodak—No. 616	F 4.5 Lens .....	2 $\frac{1}{2}$ x4 $\frac{1}{4}$	36.00

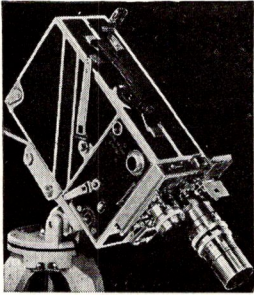
## BROWNIES

Six-16 Brownie .....	2 $\frac{1}{2}$ x4 $\frac{1}{4}$	\$3.38
Six-20 Brownie .....	2 $\frac{1}{4}$ x3 $\frac{3}{4}$	2.70
Six-16 Brownie Junior .....	2 $\frac{1}{2}$ x4 $\frac{1}{4}$	2.48
Six-20 Brownie Junior .....	2 $\frac{1}{4}$ x3 $\frac{3}{4}$	2.03
Baby Brownie .....	1 $\frac{5}{8}$ x2 $\frac{1}{2}$	.90

KODAK LITERATURE ON REQUEST



# CAMERAS — MOTION PICTURE



## CINE KODAK SPECIAL

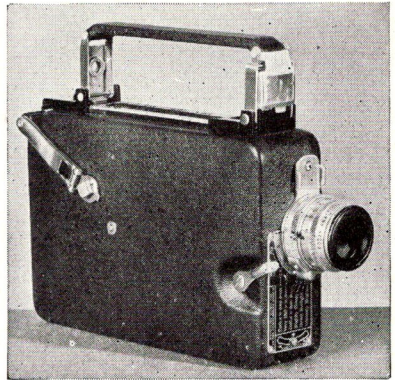
The Cine Kodak Special creates wholly new possibilities for making motion pictures. It frees the advanced worker from certain limitations of the simple home movie camera. It is the camera for the serious workers who wish to go beyond the average movie making technique. Uses standard 16mm. film. It will give you every possible effect that is obtainable in any professional movie camera.

Full descriptive booklet on request .....\$390.00

## MAGAZINE CINE-KODAK

Eastman's latest in movie cameras, no film threading, 50 foot of 16 mm. film is entirely enclosed in a light tight metal magazine. Three operating speeds, 8, 16, and 64 frames per second. Fully wound the motor exposes 11 feet of film, to preclude the possibility of overexposed frames as the spring motor slows down an automatic shut-off is built in the cameras. Compact in size 6¼" long, 2" wide, 4¾" high. There are five interchangeable lenses, footage indicator universal view finder and three types of film available.

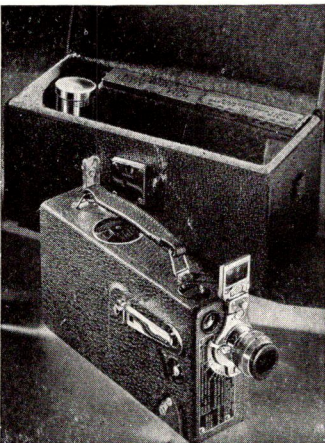
Magazine Cine Kodak with F 1.9 lens...\$112.50  
 Complete with Combination Case ..... 123.75  
 Adapter for extra lenses ..... 6.50  
 Soft leather pouch for camera alone ..... 4.00



## CINE KODAK '8

Compact in size, light in weight compact enough to be carried in your coat pocket. Yet you can count on it to perform with the same precision that made the large Cine Kodak famous the world over.

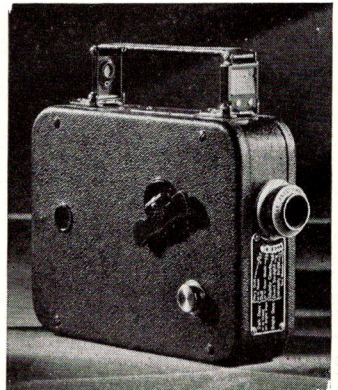
Model 20	Model 25	Model 60
F 3:5 LENS	F 2:7 Lens	F 1:9 Lens
\$31.05	\$41.50	\$82.35



## CINE KODAK "K"

Eastman's finest home movie camera, loads with full 100 feet of 16 mm. film. Simple for the beginner, versatile for the expert. Ideal for Kodachrome full color movies.

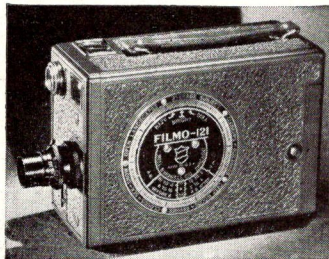
Camera Only .....\$101.25  
 Camera and Case ..... 112.50



**FILMO 8 mm.**

Easy loading no sprockets to thread. Equipped with 12½ mm. F 2.5 lens instantly interchangeable with extra special purpose lenses. Built in exposure calculator. Four film speeds.

Weight only 1 lb. 8 oz. .... \$69.00



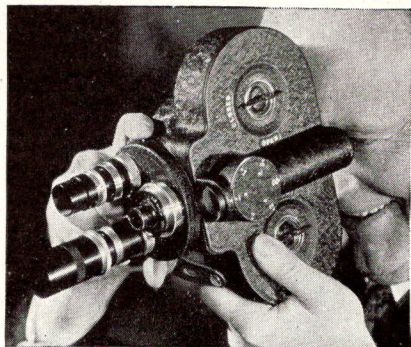
**FILMO  
16mm.  
CAMERAS**



Filmo 121—A light, compact, magazine-loading camera that permits free interchange of full color and monochrome film. Exquisite, amazingly versatile—two speeds and single frame exposures. Size, only 2¼ by 3½ by 5¼ inches. With F 2.7 lens, \$72.50.

Filmo 70-D—The “master of all personal movie cameras.” Produces finest Kodachrome full-color movies. In black-and-white, too, its performance is of theatre quality. Highly versatile, with triple-lens turret and seven speeds, including slow motion. With F 2.7 lens, \$188.

Filmo 70-E—Similar to the 70-D with interchangeable lens instead of turret, and four operating speeds. Capable of finest results in color and monochrome. With F 2.7 lens, \$133.



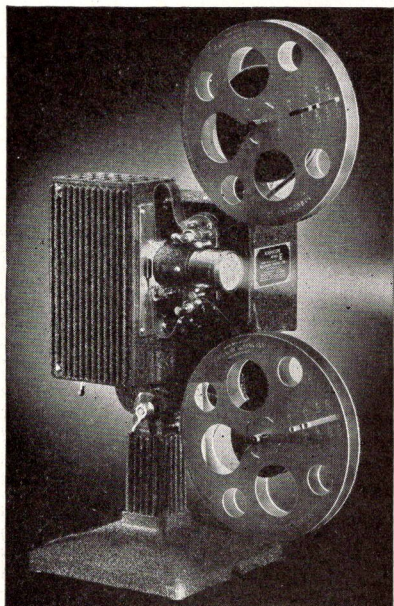
**KEYSTONE  
CAMERAS AND PROJECTORS**

COMPLETE DESCRIPTIVE CATALOGUES  
SENT ON REQUEST

**PROJECTORS****KODASCOPE MODEL E**

A new low priced 16 mm. projector. New in style, design, and performance. Uses a 2" F 2.5 lens or a 2" F 1.6 lens. Can be fitted with either a 400, 500, or 750 watt lamp. Uses either A C or D C current, motor driven rewind, joint at top of pedestal base provides tilt through 30 degrees for projector, the line switch is in the cord; the lamp switch is on the Kodascope.

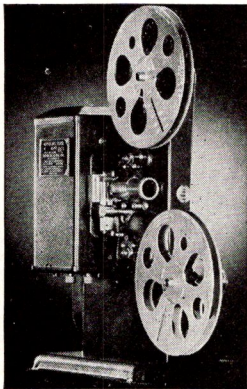
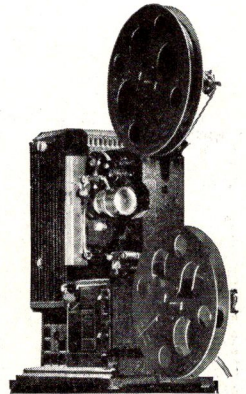
Priced from ..... \$59.85





### KODASCOPE "L"

The "L" offers you tailor-made projection. There are three lamps available for the "L"—400, 500, and 750 watt, and four lenses 1—inch F.2, 2—inch F.1.6, 3—inch F.2 and 4—inch F.2.5. You decide on the size screen you desire; ascertain the probable "throw" from projector to screen; then pick out the lens and lamp best suited for your needs. Priced from \$179.10.



### KODASCOPE EIGHT

#### KODASCOPE EIGHT MODEL 20

Simplest, lowest priced Kodascope, Model 20 is a real performer. For use with 60 cycle, 105 to 125 volt A. C. current. 200-foot film capacity. ..... \$23.40

#### KODASCOPE EIGHT MODEL 40

With its 200 watt lamp, Model 40 is capable of longer projection "throws." Operates on either A. C. or D. C. lines, 100 to 125 volts. .... \$35.10

#### KODASCOPE EIGHT MODEL 80 "NEW MODEL"

A *de luxe* projector. Its 300-watt lamp, affords long throws, brilliant pictures. A. C. or D. C. current. Very quiet. \$94.95 including carrying case.

## BELL & HOWELL FILMO PROJECTORS

### FILMO JS

FILMO JS—750-watt, 400-foot 16 mm. capacity

This is the finest projector for home, church, or classroom use—wherever 1600-foot film capacity and 1000-watt illumination are not required. Fully gear-driven, even to feed and take-up spindles. Price, \$252, complete with case.

### FILMO 129 A

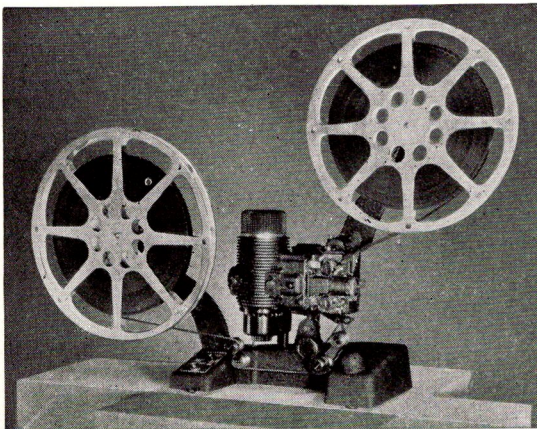
FILMO 129-A—750-watt, 1600-foot capacity 16 mm. Projector

Somewhat similar to Filmo 130 in appearance; 1600-foot capacity; power rewind; interchangeable lens; 750-watt lamp; is ideal where smaller audiences make 1000-watt illumination unnecessary. Price, \$185.00 complete with case.

### FILMO S

FILMO S—750-and 500-watt, 400-foot capacity Projector

For home or classroom use this Filmo will be found a superb projector. It possesses the same traditional precision manufacture that is inherent in every Filmo camera or projector. Has power rewind, reverse, interchangeable lens, stops for stills. Price, \$125. With 750-watt lamp, \$140. Case, \$10.



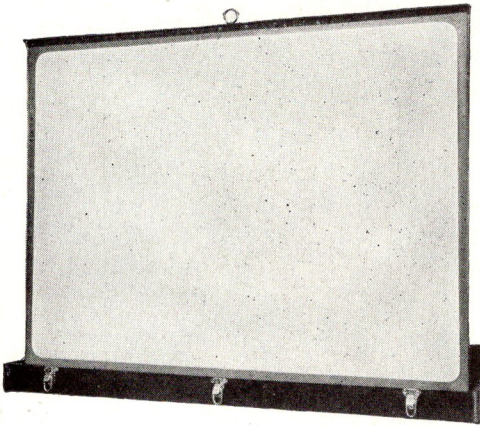
# SCREENS

## AUTOMATIC DELUX COLLAPSIBLE MODEL

Highest quality Crystal Beaded, Witelite or Haftone Screen on special spring roller in handsome leatherette covered fine wood case with nickel trimmings and solid leather carrying handle. One pull lifts into position for projection. Pull cord to return to the case.

Witelite and Haftone are both rubberized white surface screens for wide angle reflection. They are washable and can be folded without danger of injury.

	Beaded	Witelite	Haftone
22" x 30".....	\$12.00	\$15.00	\$16.00
30" x 40".....	15.00	18.00	20.00
36" x 48".....	17.50	22.00	25.00
39" x 52".....	25.00	30.00	30.00
45" x 60".....	35.00	35.00	40.00
54" x 72".....	60.00	60.00	70.00



### JUNIOR TABLE MODEL

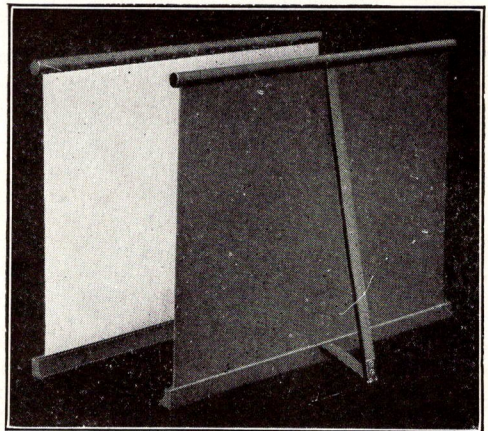
White Beaded or Haftone on wooden roller and batten, supported by strong wooden braces in the back. As illustrated.

	Beaded	Haftone
18" x 24".....	\$ 4.00	\$ 5.00
22" x 30".....	5.00	6.00
30" x 40".....	7.00	10.00
36" x 48".....	10.50	12.50
39" x 52".....	15.00	17.50

### JUNIOR HANGING MODEL

Same as Table Model but without wooden brace

	Beaded	Haftone
18" x 24".....	\$ 3.50	\$ 4.50
22" x 24".....	4.50	5.50
30" x 40".....	6.50	9.50
36" x 48".....	9.00	11.00
39" x 52".....	10.50	12.50
45" x 60".....	15.00	17.50



## CHEMICALS & DEVELOPERS

D 72	
1 Quart .....	\$ .25
1/2 Gallon .....	.35
1 Gallon .....	.60
5 Gallon .....	2.50
D 75 R	
5 Gallon .....	2.50
D 76	
1 Quart .....	.25
1/2 Gallon .....	.35
1 Gallon .....	.60
D 52 (Paper)	
1 Quart .....	.22
1/2 Gallon .....	.30
1 Gallon .....	.45

D 73	
1 Gallon .....	.70
5 Gallon .....	2.50
D 75	
10 Gallon .....	1.75
D 75 B	
10 Gallon .....	3.15
KODALK DEVELOPERS	
DK 50 10 Gallon .....	2.35
DK 50 R5 Gallon .....	2.50
DK 60 10 Gallon .....	2.65
DK 50 48 Gallon .....	10.25
DK 60 48 Gallon .....	11.25
D 85 (Kodalith)	
1 Gallon .....	.70
5 Gallon .....	2.75

CHEMICALS AND DEVELOPERS—Con't

Medo M. Q. Tubes	8 oz. size 6 for			\$ .25
M. P. G. Developer	32 oz. Bottle			1.25
Micrograin 8 oz.	55c	16 oz.	90c	32 oz. 1.30
Eastman Film and Plate Developer			Tube	.07
Hydroquinone Developer			Tube	.07
Pyro Developer			Tube	.06
Special Developer			Tube	.07
Eastman M. Q. Developer			Tube	.05
Kodak Developer			lb.	.30
Re-Developer Royal			Tube	.12
Tropical Developer			Tube	.09
Nepera Sol. 4 oz.	27c	16 oz.	77c	1/2 Gallon 2.24
Quinoline	75c		Perutz Tube	.27
Ultra Fine Grain Developer Pint		30c	Quart	.40
Tabloid Amidol Developer				.60
Tabloid Rytol Universal Developer				.60
Tabloid Rytol			100 in carton	1.95
Tabloid Tancol Developer				.60
Tabloid Hydroquinone (Quinol) Developer				.60
Tabloid Metol Developer				.60
Tabloid Metol-Quinol Developer				.60
Tabloid Pyro-Metol Developer (Imperial Standard Formula)				.60
Tabloid Pyro-Soda Developer (Ilford Formula)				.60
Tabloid Fine Grain				.60
No. 1 Kodak Film Pack Tank Developer Powders (package of 6 pairs)				.30
No. 2 Kodak Film Pack Tank Developer Powders (package of 6 pairs)				.40
No. 3 Kodak Film Pack Tank Developer Powders (package of 6 pairs)				.55
Kodak Tank Developer Powders, for 2 1/4-inch Tank, per 1/2 dozen				.20
Ditto, for 2 1/2-inch or 3 1/2-inch Tank, per 1/2 dozen				.25
Kodak Acid Fixing Powder, per 1/4-lb., 1/2-lb. or 1-lb. package			\$ .09 \$ .12	.18
Fixol	Quart.		\$ .60	Pint .35

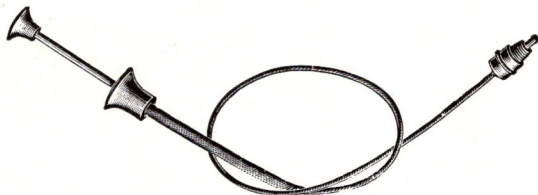
DIRECT POSITIVE PAPER DEV. OUTFIT

Complete Outfit for Sepia Effects		\$1.55
For Black and White Effects Only		1.25
Direct Positive Developer Only		.65
Positive Bleach		.35
Positive Clear		.25
Positive Sulphide Re-developer (Sepia)		.30

COMPLETE CATALOGUE of VEREBEST, TABLOID, AND EASTMAN DEVELOPERS on request

— SEND FOR OUR COMPLETE CHEMICAL LIST —

CABLE RELEASES



Wollensak 12" or shorter	\$ .85	20"	\$1.75
For Wollensak Studio Shutters, 36" long			3.75
For Kodak, Ilex, Compur Shutter 2" to 10"			.35
For Compur and Ilex—20"			1.00
For Compur and Ilex—36"			1.50
6 ft. Extension Release			2.25
9 ft. Extension Release			2.70
For Luc Shutter	16" \$ .60	20" \$ .90	40" 1.35

CHANGING BAGS

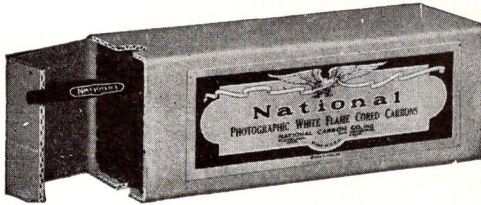
No. 1—4x5		\$4.95
No. 2—5x7	\$5.25	No. 4—8x10 \$5.50

**LENS CAPS**

Inside Diam.	Price	Inside Diam.	Price
1" and under .....	\$.75	4" and under .....	\$1.50
2" and under .....	1.00	5" and under .....	1.75
3" and under .....	1.25	Over 5" .....	2.00

**MEDO TUBING COUPLER**

For readily attaching bulbs and tubing to camera lens board. Made of brass .....\$ .45



**CARBONS**

These carbons made by the National Carbon Company are without question the best for photographic use.

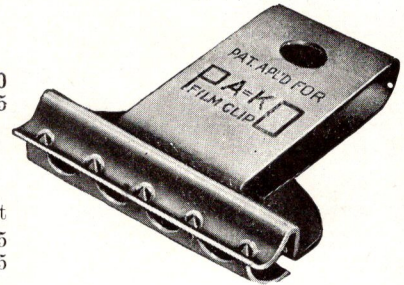
The sizes listed are regularly carried in stock but other styles and sizes can be supplied to order only. All carbons have plain tips and are polished.

Size	Each	Per Doz. Regular Panchro.	Per 100 Regular Panchro.	Per 250 Regular or Panchro
6mm.x 6" .....	\$.11	\$1.25	\$7.83	\$69.60
8mm.x12" .....	.17	2.00	13.50	120.00
10mm.x12" (3/8x12) .....	.13	.70	4.32	38.40
10mm.x 4" (3/8 x 4) .....	.06	1.50	9.36	83.20
13mm.x 4" (1/2 x 4) .....	.08	.95	5.67	50.40
13mm.x12" (1/2x12) .....	.15	1.80	11.34	100.80

**MEZZO PLATES**

**GROUND CELLULOID**

5 x7 Sheet .....	\$.20	8x10 .....	\$.40
6 1/2x8 1/2 Sheet .....	.30	11x14 .....	.75



**KODALOID**

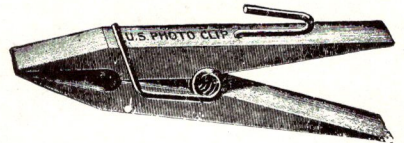
No. 1—Thin Transparent

No. 5—Orange and Ruby No. 6—Heavy Transparent

5 x7 .....	\$.10	8x10 .....	\$.25
6 1/2x8 1/2 .....	.15	11x14 .....	.35

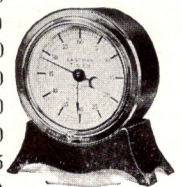
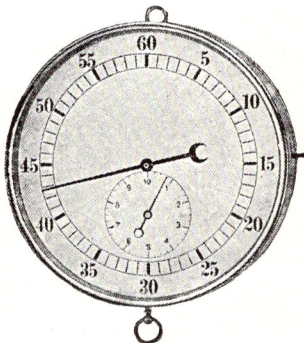
**PHOTO CLIPS**

U. S. Photo Clips	per doz. \$ .35	gross \$3.00
3 1/2" Metal Clips .....	per pr. .30	
Kodak Jr. Film Clips .....	.15	
Kodak Improved .....	.35	
Pako Clip .....	each \$ .10	per doz. 1.20

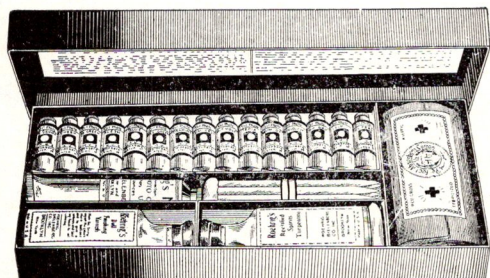


**CLOCKS FOR DARK ROOMS**

Kodak Timer .....	\$1.50
Victor X-Ray Timer .....	4.50
AnSCO Timer .....	4.50
Eastman Interval Timer Model B .....	4.50
Minuteminder with Stop Post .....	4.00
Giant Timer .....	15.00
Radium Timer .....	4.95
Hawkeye Electric .....	9.50
Gilbert Clock .....	3.50



# COLORS



## VELOX TRANSPARENT WATER COLOR STAMPS

Per Book of 12 Leaves ..... \$ .50  
 Water Color Outfit ..... 1.00

## ROEHRIG'S TRANSPARENT OIL COLORS

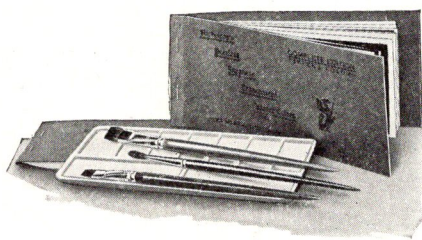
Price per Set, 14 Large Tubes ..... \$7.50  
 Price per Set, 15 Small Tubes ..... 2.47  
 Complete Set ..... 3.60  
 Large Tubes Colors,  
     Extra 3/4x4" ..... \$ .75   .80  
 Small Tubes Colors,  
     Extra 1/2x2" ..... 25   .30  
 Varnish, per Bottle ..... .50  
 Sizing ..... .35  
 Tube of Medium Quad. Size ..... .75  
 Tube of Medium 3/4x4" Size ..... .40

## JAPANESE TRANSPARENT WATER COLOR

Sample Book, Trial Size ..... \$ .45  
 Medium Size Book ..... .75  
 Complete Book ..... 1.00

## KODAK TRANSPARENT OIL COLORS

Complete Outfit ..... \$3.38  
 Per Set, 15 Tubes ..... 2.34  
 Per Set, 8 Tubes ..... 1.80  
 Extra Tubes, 1/2x2" ..... .25  
 Transparent Medium, 3/4x4" Tube ..... .35  
 Sizing Fluid, 1 oz. Bottle ..... .20  
 Cleaning Fluid, 1 oz. Bottle ..... .20  
 Stump Cotton, Per Package ..... .15  
 Skewers, Per Dozen ..... .20



## MARSHALL'S TRANSPARENT OIL COLORS

No. 0 Set, 4 Colors, Medium Solution, Cotton and Skewers ..... \$1.00  
 Students Complete Set, 8 Colors, Medium Solution, Cotton and Skewers ..... 2.00  
 15 Small Tubes of Colors, 1/2x2" Tubes ..... 2.75  
 Complete Set of 15 Colors, Medium, Turpentine, Varnish, Cotton and Skewers ..... 3.95

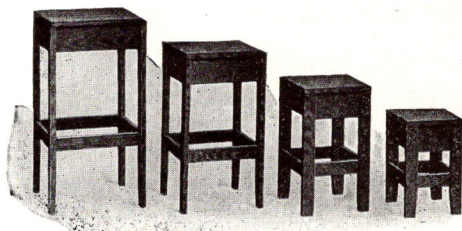
## EASTMAN SPOTTING COLORS

For spotting prints or negatives. Set of three colors: black, white, and sepia, on cellulose cards which may be used as a palette, per set ..... \$ .25

## VICTOR SPOTTING COLORS

No. 0 Pad ..... \$ .20                      No. 2 Pad ..... \$ .80  
 No. 1 Pad ..... .45                      No. 2 Jar ..... .20





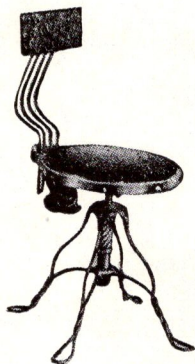
### EASTMAN "FOUR-IN-ONE GROUPERS

For posing groups in the studio these groupers are indispensable. When not in use they nest together in a floor space 12¼ x 12¼" The largest is 24 inches tall, the others respectively 20, 16, and 12. Made of solid oak, properly finished they are both substantial and good looking. Eastman "Four-in-One Groupers .....\$13.50

### POSING CHAIRS

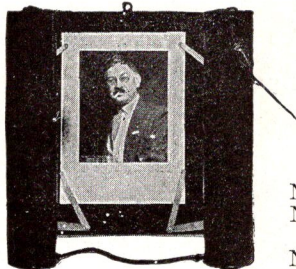
Substantial posing chairs with adjustable back and seat. Made of strong steel rods with oak back rest and seat.

- No. 1 .....\$11.25
- No. 2 has leather covered seat and back ..... 16.75



### COTTON

Absorbent cotton for filtering etc 1 lb. rolls only ..... .50



### COPYLITE

18" Copy Board and 4 Lights

- No. 1 Complete .....\$25.00
- No. 2-30 x 36"—6 Lights ..... 65.00
- Fingers for Copylite
- No. 1 ..... .50
- No. 2 ..... .75

### CROCKS

Straight side, Ceramic tank, cylindrical for storing developer or other solutions.

- 14 Gallon .....\$13.50
- 20 Gallon ..... 18.90
- Faucets for Ceramic Tanks 14 Gal.....\$8.65    20 Gal..... 9.50
- Red Wing Gray Stoneware Tank with cover and one faucet.
- 5 Gallon .....\$ 4.50
- 10 Gallon ..... 7.50



### CARRYING CASES FOR VIEW CAMERAS

MADE OF BLACK FIBRE AND 2 STRAPS  
TO HOLD CAMERA, 6 HOLDERS AND FOLDING TRIPOD

- 5x7 .....\$9.90      8x10 .....\$10.80
- 5 x 7 Eastman No. 33 .....\$4.05

**MEDO GRAPHIC CAMERA CASE**

For 3¼ x 4¼—4 x 5—9 x 12 and 10 x 15 cm. Cameras



Here is a camera carrying case that will take care of your every need when you go out to cover that assignment.

It actually holds all equipment as pictured. No need any more to stuff those flash bulbs and extra equipment in your pockets.

If you are not tall enough to shoot those "high" shots the case is strong enough for you to stand on.

Each case has key and snap locks, rings for a carrying strap and is finished in water proofed fibre .....\$ 8.50

De luxe model is made of wood box construction and leatherette finish ..... 12.00

**CARRYING CASES, LEATHER**  
FOR NATIONAL GRAFLEX

Grain Leather Carrying Case .....	\$ 4.95
Suede Carrying Case (waterproof) .....	3.15
Sportsman's Carrying Case (plush lined) .....	7.65

FOR Series B GRAFLEX CAMERAS:

3¼x4¼ .....	\$ 9.45
4 x5 .....	11.25
5 x7 .....	16.20

FOR R. B. Series B GRAFLEX CAMERAS:

2¼x3¼ .....	8.10
3¼x4¼ .....	10.80
4 x5 .....	13.50

FOR REVOLVING BACK AUTO GRAFLEX CAMERAS:

3¼x4¼ .....	12.15	4 x5 .....	12.40
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FOR REVOLVING BACK Series C GRAFLEX CAMERAS:

3¼x4¼ .....	11.70
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FOR REVOLVING BACK Series D GRAFLEX CAMERAS:

3¼x4¼ .....	10.80	4 x5 .....	13.50
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FOR HOME PORTRAIT GRAFLEX CAMERAS:

5 x 7 .....	23.85
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FOR SPEED GRAPHIC:

3¼x4¼ .....	9.90	4 x5 .....	11.25
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FOR 8 x 10 CENTURY UNIVERSAL CAMERA:

Fibre case, metal bound, single compartment for camera and one holder only.....\$ 4.50

Fibre case, metal bound, four compartments, for camera, tripod, holders etc. .... 10.80

## KODAK AND BROWNIE CARRYING CASES

SUEDE-FINISH CASE With hand strap for		GRAIN LEATHER CASE (velvet lined) With shoulder strap for
Baby Brownie .....	\$ .25	Kodak Six-20 and Kodak Junior, Six-20 .....
GRAIN COWHIDE CASE (velvet lined) With hand strap for		Kodak Six-16 and Kodak Junior, Six-16 .....
Jiffy Kodak V. P. ....	1.22	
GRAIN LEATHER CASE With shoulder strap for		SOFT LEATHER CASE (plush lined) With hand strap for
Jiffy Kodak, Six-20 and Kodak Junior, Six-20 .....	1.49	Kodak Retina .....
Jiffy Kodak, Six-16 and Kodak Junior, Six-16 .....	1.67	Kodak Vollenda .....
BROWN SOLE LEATHER CASE (velvet lined) with shoulder and hand straps for		BROWN LEATHER CASE (velvet lined) With shoulder strap for
Kodak Duo Six-20 .....	3.60	Kodak Recomar 18 .....
		Kodak Recomar 33 .....

## CONDENSERS FOR ENLARGING

No.	Diameter in inches	Focus in Inches	One Condenser Unmounted	Pair of Condensers Mounted
6½D	6½	10	\$ 6.00	\$19.00
8D	8	12	9.00	26.00
9D	9	14	12.00	33.00
10D	10	15	15.00	40.00
12D	12	18	30.00	72.00
14D	14	21	45.00	103.00

## MEDO HARD RUBBER DEV. AND FIXING TANK For Plates

Holds 24 4 x 5 — 10 x 15c or 12 5 x 7 plates in grooves. 4 quart capacity,  
with hard rubber cover ..... \$3.75

## ALTO HARD RUBBER FILM TANK

Holds 15 5 x 7 hangers or 15 4 x 5 hangers. Made of hard rubber,  
strong enough to hold 150 lb. weight. Capacity 4 quarts ..... \$3.75  
Cover to fit Alto Tank ..... 1.25

## LUZERNE DEVELOPING AND FIXING BOX

Made of hard rubber with a light tight cover and offset ledge for holding developing  
hangers. Acid resisting, with a smooth finish making it easy to clean.

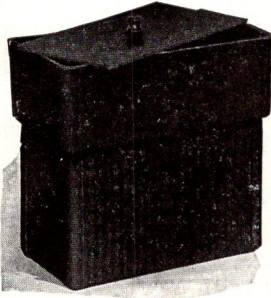
Holds twenty 5x7 or twelve 8x10 film hangers or core plate racks.  
Complete with cover ..... \$11.00

## EASTMAN HARD RUBBER FIXING BOX

This box is made of heavy, hard rubber, each size up to and including 8 x 10 holding one  
dozen plates, the 11 x 14 and 14 x 17 holding one-half dozen plates. The ribs are smooth,  
preventing scratches, and making the box easy to clean. A ridge at the bottom keeps  
the plates above sediment that may form.

3¼x4¼ .....	\$3.50	6½x 8½ .....	\$6.75
4 x5 .....	4.00	8 x10 .....	7.50
4¼x6½ .....	4.50	11 x14 .....	15.00
5 x7 .....	5.00	14 x17 .....	20.00





**EASTKO HARD RUBBER FIXING BOX**

This box is provided with grooves on all four sides. Each size will take several sizes of plates. The No. 1 Box will hold twenty 3¼ x 4¼ or 4¼ x 6½, or eleven 6½ x 8½ plates. The No. 2 Box will hold twenty-two 4 x 5, 5 x 7, or fifty four 5 x 8, or eleven 8 x 10 plates. A cover is supplied.

	No. 1	No. 2
Eastko Hard Rubber Fixing Box with cover .....	\$6.75	\$7.65

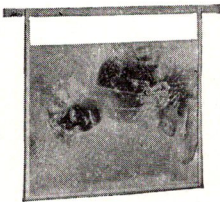
**EASTMAN DEVELOPING AND FIXING BOX**

Made of hard rubber, this box is light in weight but substantial and may be used for either developing or fixing.

It has no cover but hard rubber floating lids are supplied as listed below.

Eastman Developing and Fixing Box No. 2, for eight 5 x 7 Films or Plates in Eastman

Film Developing Hangers or Core Plate Racks .....	\$ 4.05
No. 3, for twenty 5x7, twelve 6½x8½ or 8x10 Films or Plates .....	6.08
No. 3A, for six 6½x8½ or 8x10 Films or Plates .....	5.18
Hard Rubber Floating Lid, for No. 2 Box .....	1.08
Do., for No. 3 Box .....	1.35



**CORE PLATE DEVELOPING RACK**

For use with dry plates only. May be used in any developing box of suitable size.

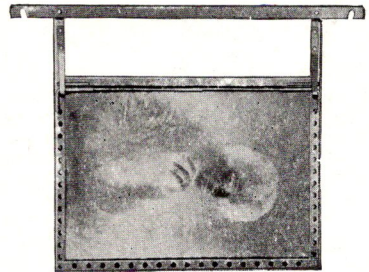
Core Plate Developing Rack:

<i>Plate Size</i>	<i>Bar Length</i>	<i>Price</i>
5 x 7 .....	9¾	\$ .48
8 x 10 .....	12¾	.60

**EASTMAN FILM DEVELOPING HANGERS Nos. 4 and 2**

The No. 4, the model illustrated, is most simple and convenient. The film slides through side channels into an end channel and is held in place by the hinged top.

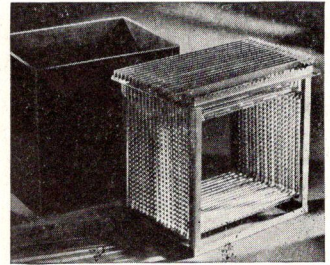
The No. 2 requires that the film be attached by hand to four metal clips at the corners.



<i>Film Size</i>	<i>No. 4</i>	<i>No. 2</i>	<i>Film Size</i>	<i>No. 4</i>	<i>No. 2</i>
4¼ x 6½—34 x 44 .....	\$ .48	\$ .48	8 x 10 .....	\$ .60	\$ .60
4¾ x 6½— 4 x 5 .....	.48		7 x 11 .....	.60	.60
5 x 7 — 9 x 12 .....	.48		10 x 12 .....	.80	.80
6½ x 8½ .....	.60		11 x 14 .....	1.08	1.08

**No. 4 DEVELOPING HANGER RACK**

This Rack, which has a capacity of fourteen 8 x 10 or nineteen 5 x 7 films in No. 4 Developing Hangers, eliminates the handling of individual films, and permits the entire lot of films to be agitated during development. The Rack is made of noncorrodible metal, in one size which fits the No. 3 Eastman Developing and Fixing Box.



No. 4 Developing Hanger Rack .....\$2.70

**EASTMAN ROLL FILM HANGERS**

No. 1—7¾ in.    No. 2—9¾ in.    No. 3—11⅝ in.    No. 4—10¾ in.  
 No. 5—9¼ in. .... \$ .32  
 Kodak Cut Film Developing Hanger for No. 1 Devel. Box .....each    .27

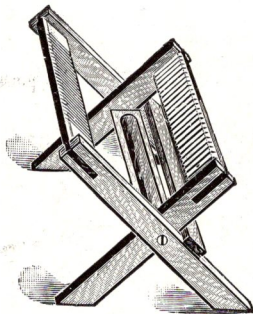
**PLANTE ROLL FILM HANGERS**

For deep tanks. Widths—7¾—9¾—11⅝—10¾—9¼ inch .....each    \$ .27

**EASTMAN FILM PACK DEVELOPING HANGER**

Each hanger takes an entire film pack, fastened to spring clips on each side of the hanger. It is doubled over the film hanger in tank by means of a hinge in the center.

Price ..... \$1.35  
 Extra spring clips for hangers .....per doz.    .85

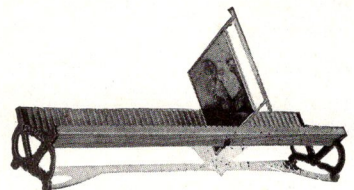


**MEDO DRYING RACKS**

Strongly made of well seasoned wood. Folds flat when not in use.  
 No. 1 for 24 plates—8 x 10 or smaller .....\$1.10  
 No. 2 for 24 plates—5 x 7 or smaller ..... .80  
 No. 3 for 24 plates—4 x 5 or smaller ..... .70

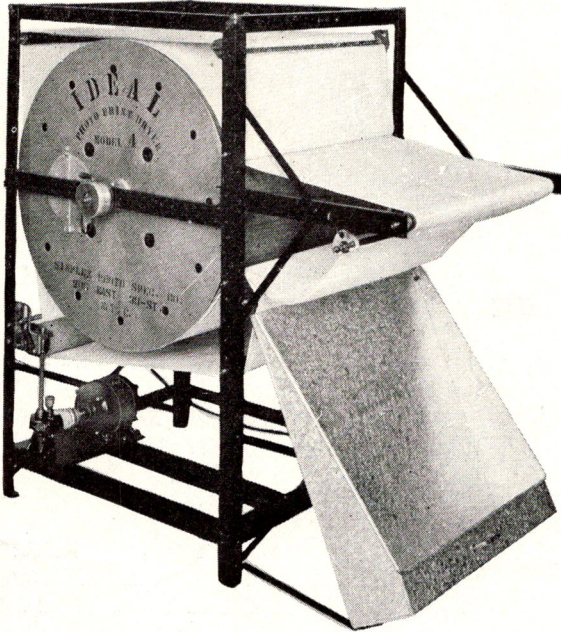
**FILM AND PLATE DRYING RACK**

A substantial rack that will hold 50 glass negatives or 50 film negatives in hangers. Measures 33 inches long, 9 inches wide, and 5½ inches high.  
 Eastman Film and Plate Drying Rack.....\$2.25



## DRYERS

### IMPROVED IDEAL PRINT DRYER



All models now have enclosed gears connected with motor with flexible coupling. All mounted on steel plate, thereby saving motor and gears.

Positive Traction. Positive automatic Control of Both Belts. Recognized as the only method of Drying Photo Prints.

	Height	Width	Length Front to Back
No. 4	48½"	29"	47½"
No. 5	48½"	39"	47½"
No. 6	48½"	49"	47½"
No. 10	48½"	59"	47½"

	Belt	Price
No. 4	Gas Heated 20"	\$175.00
No. 4	Electric 20"	225.00
No. 5	Gas Heated 30"	200.00
No. 5	Electric 30"	250.00
No. 6	Gas Heated 40"	325.00
No. 6	Electric 40"	375.00
No. 10	Gas Heated 50"	450.00
No. 10	Electric 50"	525.00

Fitted with either 110 or 220 Volt D C or A C Motor 60 Cycle Motor of 25 to 50 Cycle \$15.00 Extra Net F. O. B. New York.

### THE NEW FEDERAL PRINT DRYER

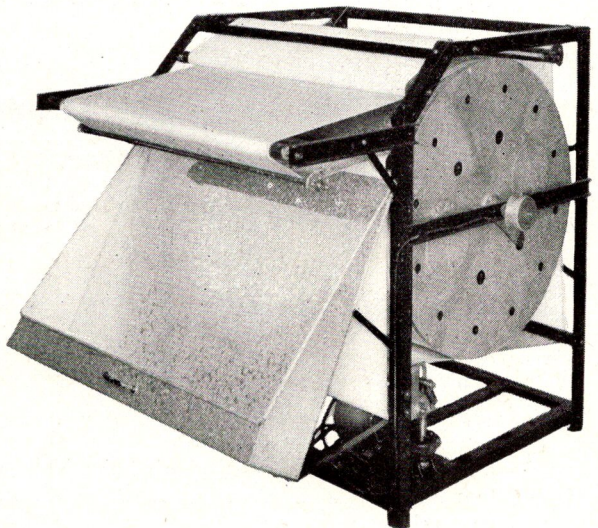
The most compact and efficient machine on the market

The new Front Drive with enclosed gears direct drive. Capacity of 2 feet of drying service per minute. Gas machine can be furnished to travel 4 feet. Drying service when so ordered without extra charge.

Positive Traction. Positive Automatic Control of Both Belts. Recognized as the only method of Drying Photo Prints.

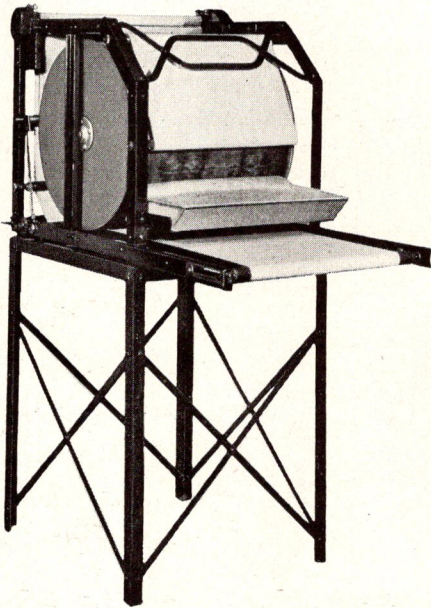
	Height	Width	Length Front to Back
No. 2	42"	29"	42"
No. 3	42"	39"	42"
No. 4	42"	49"	42"
No. 5	42"	59"	42"

	Belt	Price
No. 2	Gas Heated 20"	\$200.00
No. 2	Electric 20"	250.00
No. 3	Gas Heated 30"	225.00
No. 3	Electric 30"	275.00
No. 4	Gas Heated 40"	350.00
No. 4	Electric 40"	400.00
No. 5	Gas Heated 50"	500.00
No. 5	Electric 50"	600.00



Fitted with either 110 or 220 Volt D C or A C Motor 60 Cycle Motor of 25 to 50 Cycle \$15.00 Extra Net F. O. B. New York.

VICTOR JUNIOR SPEED PRINT DRYER



20" SINGLE BELT

A small Dryer with great capacity using very little room, is used by some of the best Photographers in New York for drying of proofs.

Can be used without stand and as an auxiliary with other equipment.

Will take prints up to and including 16 x 29".

Gas Machines are equipped with Pilot Light and Combination Gas Switch, making it impossible to turn off the motor without turning off the gas.

Has corrugated Steel Drive Rollers set in Ball Bearings and Double Pulley Belt to insure traction, also set in Ball Bearings.

SIZE OF MACHINE

Width 31"	Depth 45"	Height 56"
Gas Heated .....		\$200.00
Electric .....		250.00

SIMPLEX  
GLOSSY TABLE DRYER

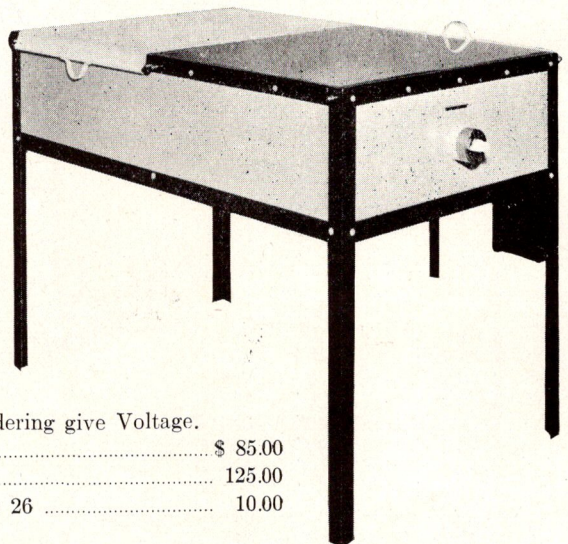
A new Glossy Dryer, simple in construction—decidedly effective in results—and as regards price—within the reach of all.

Highly Polished Chromium Plates on Copper Base, size 22 x 26.

You may have a one-plate machine size 22 x 26 or as many units as your work may demand. With a two-plate machine using 8 x 10 prints as a guide for production, you can have 120 prints, minimum, per hour and one employee can easily operate a two-plate machine. A curtain device over each plate ensures perfect prints. NO RINGS, NO SPOTS in the finished prints. Will operate

on A. C. or D. C. current. When ordering give Voltage.

One-plate machine .....	\$ 85.00
Two-plate machine .....	125.00
Extra Simplex chromium plates 22 x 26 .....	10.00



**PAKO VERTICAL DRYER**

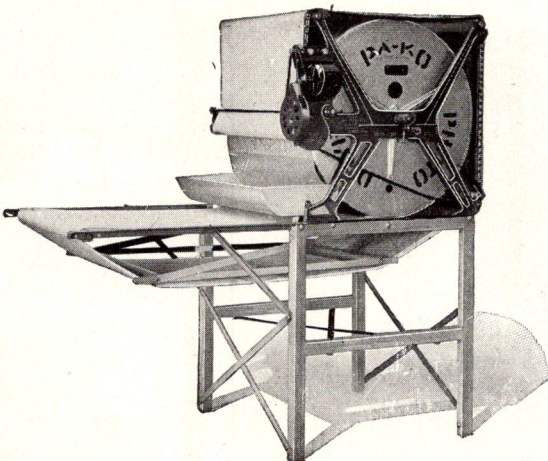
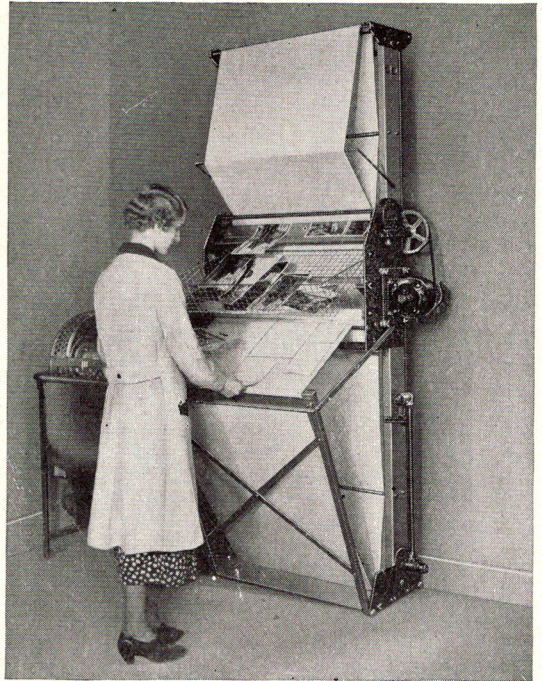
As will be noted from the illustration, the VERTICAL DRYER is compact and requires very little floor space, occupying an area of only 18 inches deep by 30 inches wide. Its height over all is 7 feet 6½ inches.

Having an unusually long apron travel, combined with generous width, this dryer provides adequate capacity for most requirements. It will easily handle three hundred 8 x 10 prints per hour.

The VERTICAL DRYER is gas heated and thermostatically controlled. While minimum of heat is necessary, thermostat may be adjusted for more or less heat to suit varying conditions.

Several new principles are embodied in the VERTICAL DRYER, making it peculiarly adapted to commercial and portrait studios. These features together with its low price and economy of operation, make it a valuable unit of studio equipment.

Gas Heated .....List \$225.00  
 Electric Heated .....List 255.00

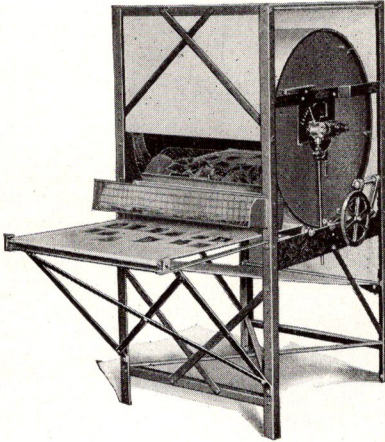


**PAKO PHOTO DRYER**

This machine has been standard for many years. Designed especially for matte, semi-matte and natural gloss prints. It has long been used in Commercial finishing Laboratories, and is extensively used for drying photostats and prints.

Price complete, gas heated List \$160.  
 Electrically heated .....List 225.

**PAKO ECONOMY DRYER**



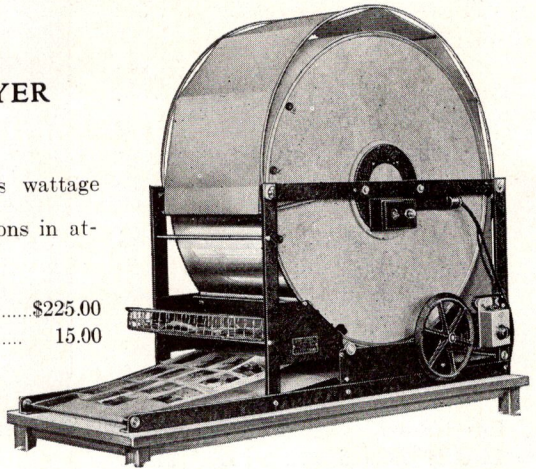
Basically, the ECONOMY DRYER is constructed along the same proven principles as other Glossy Dryers. However, it has been very greatly simplified in its construction, and has been built with this big idea in mind. The Economy Dryer is rugged and sturdy. The strong steel frame is built to give years of good service, but is light in weight and unbreakable. It is designed to occupy the minimum of floor space and will fit in at the end of the PRINTMACHINE or the Gang Rocker very nicely.

Gas Heated ..... List \$345.00  
 Electric Heated ..... List 375.00

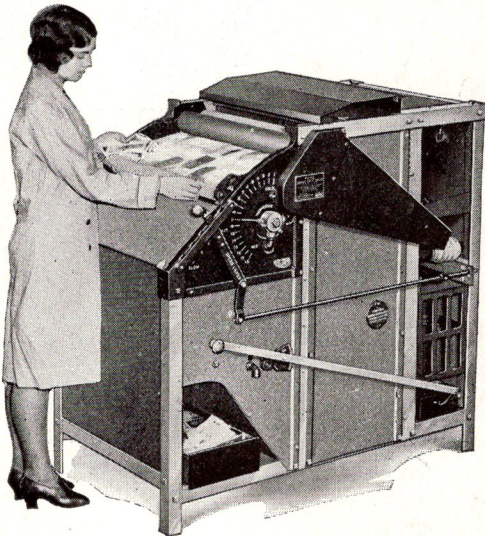
**PAKO ELECTROGLOSS DRYER**

Hourly Capacity:—400 Kodak prints.  
 Heat:—Electrically heated.  
 Heat Adjustment:—Automatically reduces wattage when drum surface is at proper heat.  
 Speed:—Controlled by rheostat for variations in atmospheric conditions.  
 Overall Dimensions 18x47x36.

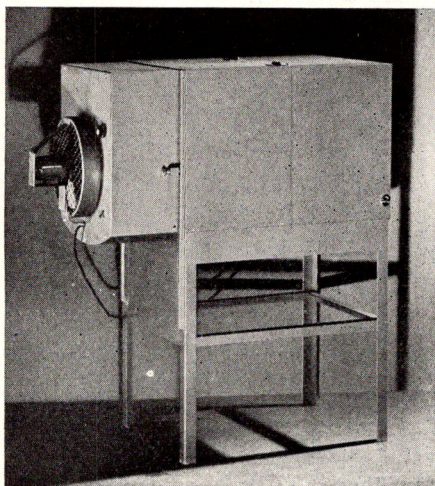
Price: For use with A. C. Current List .....\$225.00  
 D. C. Current Extra ..... 15.00



**PAKO DOUBLE DUTY DRYER**



A speedy, automatic glossy print dryer that is giving wonderful satisfaction the country over. Operator needs only to place prints on feedrack. Prints are held in contact against the highly polished, plated drum, and delivered in approximately four minutes to the convenient receiving tray. Semi-mattes are dried by laying prints face up on the Feeder. Glossy prints by laying them face down. Price \$645.00. List



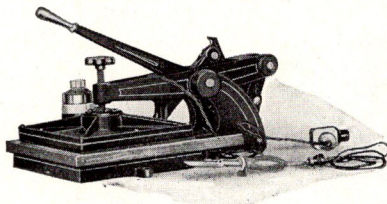
### EASTMAN PROFESSIONAL PRINT DRYER

The Model A dryer is a new all metal, electrically operated drying cabinet of advanced design for professional photographers and for photo finishers doing enlarging work. It has a capacity of 200 8" x 10" or an equivalent number of larger prints in 50 19" x 24" corrugated board and blotting paper drying units. The drying section has a concave bottom which gives the drying units the proper curvature to insure the prints drying flat. A 10" fan driven by a universal motor and a 750 watt space heater supply warm air for drying. A full load of double weight prints can be dried in about 2½ hours.

Complete with 50 drying units of corrugated board and blotting paper .....\$87.75

### DRY MOUNTING PRESS

- Kodak Dry Mounting Press Model E, 11 x 14, including electrically heated Tacking Iron, cord and plug .....\$67.50
- Extra Electric Tacking Irons, Model R, each ... 7.20
- Thermometer for Press ..... 2.70



### MOUNTING TISSUE (KODAK)

Size	Package	Gross	Crystal Gross Only
3¼x4¼	.....	\$ .30	\$ .50
3¼x5½	2 dozen .....	.15	.50
4 x5	2 dozen .....	.15	.50
5 x7	1 dozen .....	.15	.95
6½x8½	1 dozen .....	.18	1.35
8 x10	1 dozen .....	.23	1.71
11 x14	1 dozen .....	.41	3.38
Ten Yards, 20 inches, Crystal	.....	—	1.17
Five Yards, 20 inches, Kodak	.....	.64	—
Ten Yards, 20 inches, Kodak	.....	1.17	—
Five Yards, 30 inches, Kodak	.....	.90	—
Ten Yards, 30 inches, Kodak	.....	1.76	—
Five Yards, 40 inches, Kodak	.....	1.17	—
Ten Yards, 40 inches, Kodak	.....	2.25	—

### DENSENSITIZERS

	1 Gram	5 Grams
Pinakryptol Green .....	\$2.00	\$8.00
Pinakryptol Yellow .....	1.50	6.25
Meteor Desensol, ..... 4 oz. bottle.....	\$ .50	16 oz. bottle ..... 1.50
B. & W. Desensol (25 Tabloid) .....		.60
Prepared Desensitizer Solution .....		1.25

### KODALAK No. 4 BRUSH LACQUER

This black lacquer for the refinishing of metal parts is supplied to meet the requirements of dealers' repair departments. In 8-ounce bottles.

Kodalak No. 4 Brush Lacquer, per bottle .....\$ .60

### KODAK LEATHER DRESSING

A special preparation which we manufacture exclusively for a camera dressing; unsurpassed for refinishing all real and imitation black leather articles.

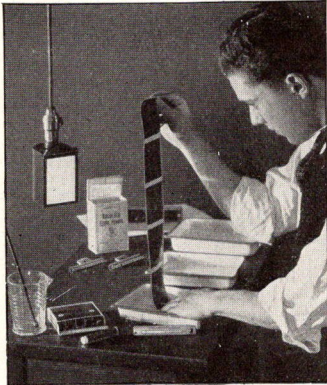
Kodak Leather Dressing, per pint can ..... \$ .75

### KODALAK W. P.

A very fine transparent lacquer for waterproofing prints so as to protect both surfaces. Produces no perceptible change in surface or tone. Kodalak W. P. Thinner, sold separately, is for use when Kodalak W. P., through air action, becomes too thick. Each in 16-ounce bottle.

Kodalak W. P. .... Per bottle \$ 1.00  
 Kodalak W. P. Thinner ..... 80

### KODAK DARKROOM OUTFIT NO. 1



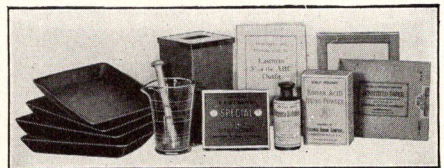
This outfit includes a Brownie Safelight Lamp (with Series 2 Safelight, unless otherwise specified), 10-watt Mazda Bulb, Kodak Auto-Mask Printing Frame, two 4 x 6 Enamelled Trays, 5 x 7 Enamelled Tray, 8-ounce Eastko Graduate, Hard Rubber Stirring Rod, Eastman Thermometer, 1 pair 3½" Eastman Film Developing Clips, 6 blotters (size 9½ x 12 inches), 2 packages (10 tubes) Eastman M. Q. Developer, 1 pound Kodak Acid Fixing Powder, instruction booklet, and the most informative book on amateur photography—"How to Make Good Pictures."

Kodak Darkroom Outfit No. 1, complete, packed in  
 in black fiber case ..... \$ 7.88

### DEVELOPING AND PRINTING OUTFITS

The Eastman 3A Outfit consists of a Kodak Candle Lamp, Printing Frame, glass for Frame, 4-ounce Graduate, Stirring Rod, 4 Developing Trays, 5 tubes Eastman Special Developer, ½ pound Kodak Acid Fixing Powder, 2 dozen 3¼ x 5½-inch Velox Paper, 2 ounces Nepera Solution for developing Velox, and an instruction booklet.

Eastman 3A Outfit, complete, neatly  
 packed ..... \$1.80



Eastman ABC Outfit, similar to 3A, but  
 providing for 4 x 5-inch or smaller  
 pictures ..... \$1.80

### KODAK DARK ROOM OUTFIT No. 2

Includes a ten-watt ruby bulb, 3¼ x 5½ Eastman Printing Frame with glass, 4 oz. Eastko graduate, three 4 x 6 Durez trays, one pair 3½" Eastman developing clips, package of developer tubes, half-pound Kodak Acid Hypo, special tray thermometer, 8 inch glass stirring rod. .... \$ 2.93



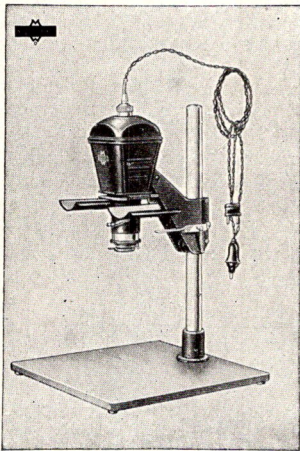
**DARK ROOM BULBS**

Ruby ..... \$ .75      Amber ..... \$ .75  
 Panchromatic ..... \$ .75



**OUTER GLOBES**

A genuine ruby or amber outer globe fitted with a screw cap. Uses an ordinary 10 to 25 watt "A" bulb which converts it into a hand dark room lamp.  
 Price ..... \$ 1.25



**FILMARUS O**

A moderate priced enlarger that will meet the most exacting requirements. For Leica, Contax and 1/2 vest pocket negatives. Fitted with F 6.3 anastigmat lens. Uses a 75 watt all frosted bulb. Fitted to a wooden base-board.  
 Price ..... \$25.00

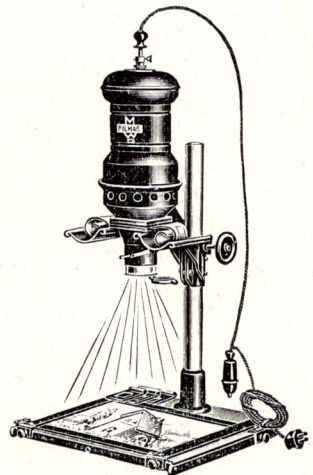
**IDEAL III**

Negative size 9 x 12 cm. Equipped with 160 mm. double condensers and F 4.5 lens. Focusing arrangement attached to extension arm and focused with geared wheel similar in construction to Filmarex II.  
 Price ..... \$120.00

This enlarger can be adapted to a miniature type by installing an extra set of condensers and a 7.5 cm F. 4.5 lens.  
 Price additional ..... \$25.00

**FILMAREX II**

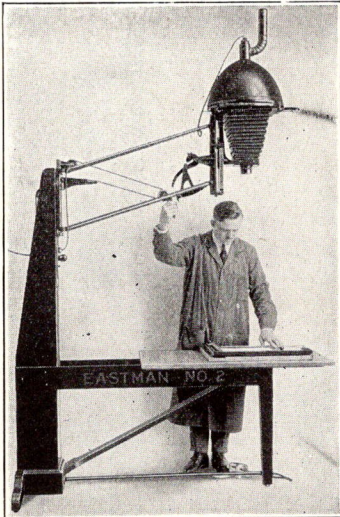
Negative Size; Leica 35 mm. to Rolleiflex 2 1/4 x 2 1/4.  
 Negative Carrier: Made with special pressure plate and clamps, negative held in place absolutely flat. Film can be enlarged from original roll without cutting. Side film rests built along side of negative carrier that are felt covered. Sets of 6 masks to kit carrier to desired sizes.  
 Lens: 9 cm F 4:5 Doppel anastigmat in Iris Diaphragm. Sliding ruby lens cap attached to lens board.  
 Illumination: Flood or 100 Watt frosted Lamp can be used. Bulb can be adjusted in condenser hood, includes connecting cord and switch, also a pair of 3 1/2 mounted condensers.  
 Paper Holder: Baseboard made of plywood, measuring 15" x 18". Set of 4 Ruby masks each measuring 14 1/2" x 14 1/2" x 1 1/4" attached to sliding brackets on baseboard.  
 Focusing Arrangement: 34" arm attached to baseboard geared wheel attached to camera to raise and lower the camera. Clamp attachment which facilitates raising and lowering camera without the use of geared wheel. Special independent focusing arrangement which allows the lens to be critically focused.



Price ..... \$80.00  
 Extra 5.5 cm. F 4.5 Lens and Extra set of 70 mm. Condensers ..... 20.00

**EASTMAN PROJECTION PRINTER No. 2**

Size 8 x 10



The Eastman Projection Printer accommodates 8x10 or smaller negatives and projects an image that is always in focus. It is only necessary to raise or lower the projector to change the image size. The projector is fitted with the Kodak Anastigmat F 4.5 Lens, 10-inch focus, a Scale Illuminator, and three Diffusing Discs for producing soft effects. An adjustable masking device permits one to quickly mask out any portion of the negative. A 1000-watt lamp gives ample speed for enlarging with such papers as Vitava Opal.

The Projection Printer will make prints up to 40x50 inches—from 1 to 5 diameters. A printing table is furnished for very large prints and an adjustable paper holder for smaller prints. This holder has masking arms which will mask prints from 3 x 3 to 17 x 20 inches. A paper guide is adjustable for white margins from 1/4 to 2 1/2 inches.

The printer occupies a floor space of 3 feet x 4 feet 8 inches. With the projector raised for a 5-diameter enlargement, the extreme height is 10 feet 4 inches.

Eastman Projection Printer No. 2, complete, including 8 x 10 projector with Kodak Anastigmat f.4.5 Lens,

- set of three Diffusing Discs, paper holder sliding table, 10-watt ruby bulb, and two 1000-watt Mazda Lamps ..... \$607.50
- Reducing Attachment, including a highly efficient f.7.9 lens paper holder and clips ..... 54.00

**EASTMAN AUTO-FOCUS ENLARGER AND REDUCING ATTACHMENT**

The Eastman Auto-Focus Enlarger takes negatives 5x7 inches and smaller, enlarging from 1 1/2 to 4 diameters. Maximum print size is 20 x 28 inches.

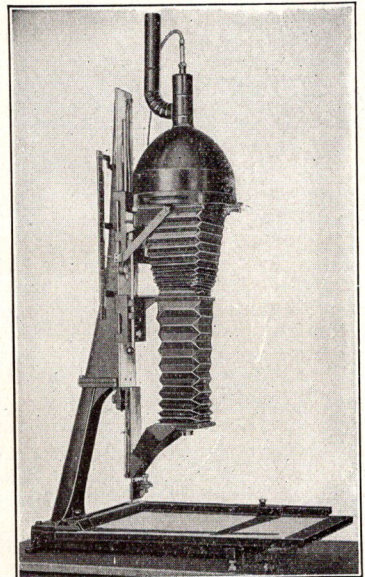
The projector is counterbalanced on an upright track, and an ingenious cam maintains accurate focus at all times. The projector moves up or down to change the image size.

The negative holder accommodates film, and four masking slides mask out any portion of the image. The paper holder has movable masking arms for prints up to 17 x 20 inches, and a margin gauge is adjustable for white margins from 1/4 to 2 1/2 inches.

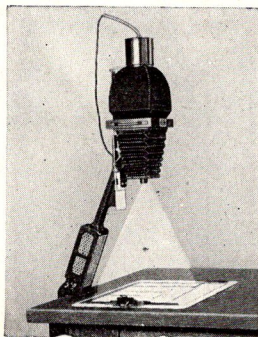
The lens is the Kodak Anastigmat f.4.5, 7 1/2-inch focal length, the lens board is fitted with a Scale Illuminator, and the 400-watt Projection Mazda Lamp, two of which are furnished, is in a thoroughly ventilated lamp house. A foot switch controls the light. The over-all height of machine extended is 69 inches; width, 29 inches; depth, 29 inches.

**PRICES**

- Eastman Auto-Focus Enlarger, complete, including 5x7 projector with Anastigmat F 4.5 Lens, two 400-watt lamps, paper holder, foot switch and electric cord (without Reducing Attachment) ..... \$180.00
- Eastman Auto-Focus Enlarger Reducing Attachment ..... 24.00
- Eastman Diffusing Discs, set of three ..... 22.50
- Supplied separately, each ..... 8.00
- Eastman Diffusing Disc Holder ..... 2.25
- Eastman Wet Film Holder 4 x 5 ..... 9.00
- Eastman Wet Plate Holder 4 x 5 ..... 4.05
- Extra Eastman Scale Illuminator ..... 2.00
- Extra 400-watt, Type C Pear-shaped Mazda Lamps, each ..... 3.60



### KODAK AUTO-FOCUS ENLARGER MODEL B



Similar in operation to the Eastman Auto-Focus Enlarger, the Kodak Auto-Focus Enlarger Model B has a 4 x 6 glass and accommodates popular size film or plate negatives, enlarging from 1½ to 3½ diameters, the largest print being 14 x 21 inches. It clamps on any table top and has a metal paper holder with clamps for holding the paper.

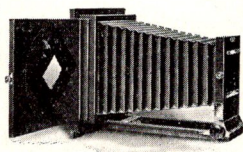
The lamp house takes a Mazda Photoflood lamp and switches permit either of two degrees of light intensity. Fitted with Kodak Anastigmat Lens. Diffusing Disc supplied extra.

#### PRICES

Kodak Auto-Focus Enlarger Model B, lens, electric cord, Photoflood lamp, seven flexible metal masks, and paper holder .....	\$32.00
Paper Holder only .....	6.75
Diffusing Disc .....	.90
Adapter for using Photoflood lamps on old model .....	7.20

### FOLMER R. B. ENLARGER

This is a very practical 8x10 enlarger with revolving negative carrier and nested kits to 3¼ x 4¼. It has a 22 inch bellows, rising and falling front, rack and pinion focusing, and 5½-inch lens board. Set in a darkroom wall, with easel inside and light outside, it makes enlarging simple.



Folmer R. B. Enlarger, 8 x 10, wth negative carrier, four kits, and one sheet of flashed opal glass, without lens .....	\$49.50
Extra Lens Board 5½ x 5½ .....	.80

### KODAK HOME ENLARGER



This is a simple enlarger offered for the picture taker's own use, and is particularly adapted to the beginner. It takes negatives from half vest pocket size up to and including 3¼ x 4¼ inch and 9 x 12 cm. A 3¼ x 5½ inch negative will fit in the holder but only 4½" of its length can be enlarged. Enlargements up to 11 x 14 inches can be made; up to 5 x 7 from half-vest pocket negatives, and proportionate enlargements from larger-sized negatives. Exact-size prints by projection also can be made. The easel measures 11½ x 14½ inches and has metal clips to hold the paper. Because of the speed, variety of surfaces, and degrees of contrast afforded by P.M.C. Bromide, this paper is recommended for use with the Home Enlarger.

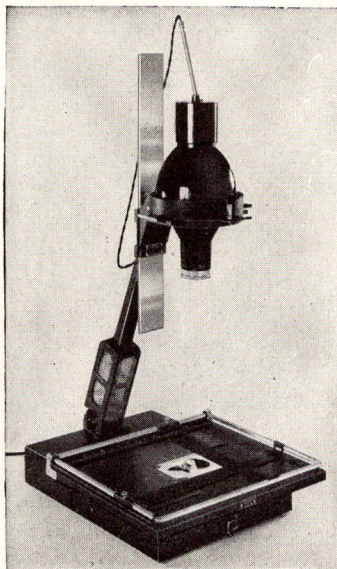
The lens is a Kodar, 98 mm., assuring good definition and even illumination of the entire field. An ordinary 60 watt lamp is used. The projector and its stand move in a groove to adjust the image to the desired size. Moving the lens support in a second groove gives sharp focus.

Price Complete (but without 60 watt bulb) .....	\$14.85
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## KODAK MINIATURE ENLARGER

The enlarger and its accessories comprise a complete outfit for making enlargements from miniature negatives. For example, an 11 x 14 enlargement can be made with it from a half Vest Pocket negative 1-3/16 x 1-9/16 inches. In the Miniature Enlarger, negatives up to 2 1/4 x 2 1/4 inches can be enlarged from 2 1/2 to 10 diameters. It is one of the enlargers which permits a wide range of small size negatives to be used even including the popular snapshot size, 2 1/4 x 3 1/4, provided its length is masked down to 2 1/2 inches. Negatives in the strip can be handled as conveniently as a single film negative.

Kodak Miniature Enlarger Outfit, including the Masking Paper Holder but not the Cabinet Base ..... \$60.75



## KODAK MINIATURE ENLARGER MODEL B

Several notable improvements have been incorporated in the new Model B, to distinguish it from its predecessor. Among them an Iris diaphragm to control exposure time, a magnification scale engraved on the lens barrel supplemented by an enlargement exposure calculator scale, fitted into the paper holder baseboard, cupped trays at each end of the negative carrier hold the rest of the film neatly in rolls.

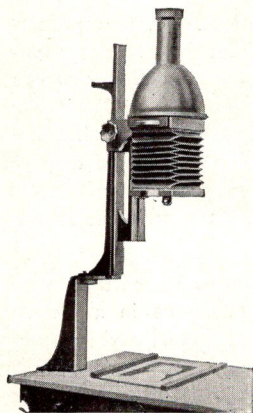
Complete with F4.5. lens, iris diaphragm and magnification scale masking paper holder .....	\$74.25
Same as above without Iris diaphragm .....	60.75
Same as above without making paper holder .....	47.25
Masking Paper Holder .....	15.75
Paper Cabinet Base .....	9.00
Assembly to convert Kodak Auto Focus Enlarger Model B to Miniature Type Enlarger including Kodak Anastigmat F4.5 lens .....	32.50

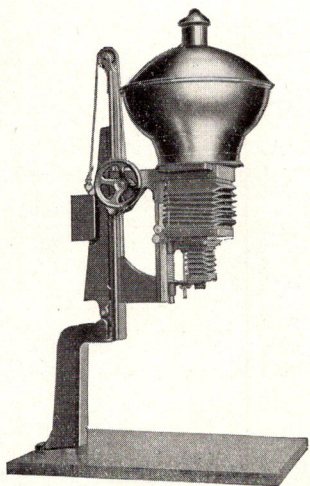
## ELWOOD STUDIO ENLARGER

This enlarger does not have the speed of the Special or 5 x 7 Auto Focus machines; however it does have sufficient illumination to use the slow enlarging paper with exposures of 20 to 25 seconds using a 100 watt light. For Bromide papers the exposures are very short, averaging about 2 or 3 seconds. The results obtained are in no way inferior to the more expensive machines. However, the light bulb is closer to the negative and radiated heat must be taken into consideration. With a 100 watt light, films will stand 10 minutes' exposure without buckling, and with a 200 watt light, 5 minutes.

This is a very popular machine with both amateur and professional photographers.

Price (Without Lens, but including 100 watt bulb and extension cord) ..... \$27.00





**SPECIAL 5 x 7 ELWOOD**

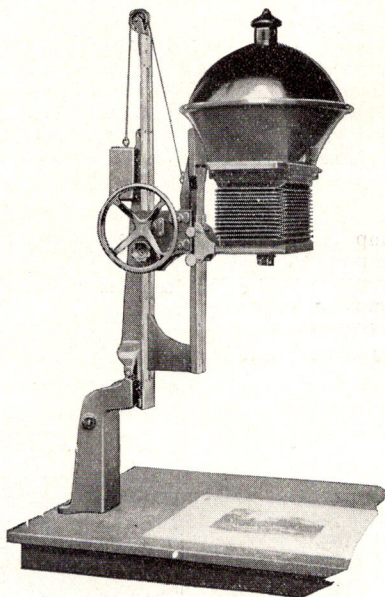
**SPECIFICATIONS**

Height of Vertical Standard .....	43"
Greatest Height Overall .....	62"
Upright Frame .....	Cast Iron
Focusing .....	Rack & Pinion
Diameter of Reflector .....	18"
Light Recommended All Frost	200, 250 or 400 Watt
Bellows Extended .....	16"
Enlarges .....	25" x35" 5 Diam.
Reduces .....	1 3/4" x 2 1/4" 1/3 Diam.
Greatest Distance Negative to Paper .....	43"
Price (Without Lens, but including 200 Watt bulb and 7 foot extension cord .....	\$56.70

**8 x 10 ELWOOD COMMERCIAL ENLARGER**

**SPECIFICATIONS**

Height of Vertical Standard .....	60"
Greatest Height Overall .....	80"
Greatest Height Negative to Paper .....	68"
Light Recommended-all frosted, 200, 250 or 400 Watt Bulb.	
Rack and Pinion Focusing .....	
Bellows Extension .....	26"
Enlarges .....	40x50" 5 Diam.
Reduces .....	3 1/4 x 4 1/4 1/3 Diam.
Price (Without Lens, but including 200 Watt bulb and switch .....	\$112.50



**CAMERA BACK**

A camera back can be furnished as extra equipment for the Enlarger, and it then becomes a most efficient Commercial copying camera which can be used either vertically or horizontally. The camera back must be ordered with the Enlarger as the regular Commercial Enlarger does not have a removable lamp house.

Price ..... \$27.00

**GRAFLEX ENLARG-OR-PRINTER**

Complete with Graduated Self-Centering Masking Device, Focusing Screen, Metal Lensboard, Lamps, Connecting Cord, Book-type Negative Holder, set of seven Masks and one copy of "Photographic Enlarging." (When specified, Strip Film Holder for miniature negatives will be substituted for the set of Masks.)

The Graflex Enlarg-or-Printer, without lens ..... \$78.75

# ELECTRIC BULBS

## Westinghouse Mazda

10 to 60 Watt .....	\$ .15	150 Watt I. F. A25 .....	\$ .25
10 Watt Ruby .....	.50	200 Watt P. S. Clear .....	.45
25 Watt Ruby .....	.50	500 Watt P. S. 40 Clear .....	1.40
10 Watt Amber .....	.40	1000 Watt P. S. 52 Clear .....	4.00
25 Watt Amber .....	.40	1500 Watt P. S. 52 Clear .....	5.75
40 Watt Amber .....	.40	500 Watt T 20 Clear .....	3.00
40 Watt Ruby .....	.50	1000 Watt T 20 Clear .....	6.50
60 Watt Amber .....	.45	250 Watt G 30 Clear .....	1.75
60 Watt Ruby .....	.55	400 Watt G 30 Clear .....	3.00
75-100 A Bulb .....	.20	1000 Watt G 40 Clear .....	6.75
150 Watt Clear A25 .....	.25	1500 Watt G 40 Clear .....	9.00

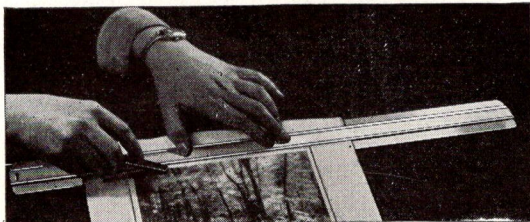
## LAMPS FOR MOTION PICTURE PROJECTORS

Ampro 200 Watt .....	\$2.20	Filmo 200 Watt 50 V. ....	\$3.00
Ampro 250 Watt .....	3.25	Filmo 250 Watt 50 V. ....	4.00
Ampro 300 Watt .....	3.10	Filmo 375 Watt 75 V. ....	5.00
Ampro 400 Watt .....	5.25	Filmo 400 Watt 100 V. ....	6.00
Ampro 500 Watt .....	5.50	Filmo 500 Watt 100 V. ....	7.00
Ampro 750 Watt .....	6.75	Filmo 500 Watt 120 V. ....	6.25
Kodascope "20" 50 Watt .....	.24	Filmo 750 Watt 100 V. ....	8.00
Kodascope "40" 200 Watt .....	2.20	Kodascope "60" Univ. 100 Watt.....	1.85
Kodascope "60" 100 Watt .....	1.70	Kodascope "80" 300 Watt .....	3.10
Kodascope "L" 750 Watt .....	7.75	Kodascope "B" 200 Watt .....	2.00
Kodascope "B" 250 Watt .....	2.75	Kodascope "C" 100 Watt .....	2.00
Kodascope "L" 500 Watt .....	5.50	Keystone Proj. Lamp Prices on Request	

## LIGHT BULBS FOR ELWOOD ENLARGERS

100 Watt White Frosted .....	\$1.00
200 Watt White Frosted .....	2.00
250 Watt White Frosted .....	3.00
400 Watt White Frosted .....	4.50

## EMBOSSING TOOLS



Eastman Tool .....	\$ .50	14" Drem Embosser wih Tool .....	\$1.80
Eastman Revolving Print Trimmer ....	1.50	20" Drem Embosser with Tool .....	2.25
Extra Post and Wheel .....	.50	Extra Embossing Tool .....	.25
Roover Embossers—Made up in hand form for Embossing Mounts Photos, etc.			
Price, according to design .....	\$2.00	\$2.50	\$3.50
			\$3.75

SEND FOR ILLUSTRATED PRICE LIST SHOWING STYLE

# ENVELOPES & ENCLOSURES

## OPEN END ENVELOPES, KRAFT OR MANILA

500 in Box	Per "C"	Per "M"	500 in Box	Per "C"	Per "M"
5½ x 7¾	\$ .35	\$3.15	11½ x 14½	\$1.15	\$10.35
8½ x 10½	.70	6.20	14½ x 17½	2.25	19.75

## NON-ACTINIC PROOF ENVELOPES

	Per 100	Per 500	Per 1000
Size 4½ x 6	\$ .35	\$1.50	\$3.00
Kraft Proof	.40	1.65	3.25

## NEGATIVE PRESERVERS (Kraft)

500 in Box	Per "C"	Per "M"	500 in Box	Per "C"	Per "M"
3¼ x 4¼	\$ .30	\$2.75	8x10	\$ .70	\$ 6.25
4 x 5	.35	3.00	10x12	1.35	12.00
5 x 7	.45	4.00	11x14	1.50	14.00
6½ x 8½	.55	5.00	14x17	2.50	23.75

## GLASSINE ENCLOSURES

500 in Box	Per "C"	Per "M"	500 in Box	Per "C"	Per "M"
4 x 5	\$ .95	\$8.55	8 x 10	\$ .90	\$ 8.25
5 x 7	.80	7.75	11 x 14	1.65	15.70

## PHOTOMAILERS

### "WORENCO DOUBLE BOARD STRING AND BUTTON TIE"

No.	Size	Per Dozen	Per 100	No.	Size	Per Dozen	Per 100
1	5¼ x 7½	\$ .50	\$ 3.70	6	10 x 12¾	.95	7.00
2	6¼ x 9½	.60	4.50	7	12½ x 15	1.15	9.00
3	6½ x 10½	.65	4.75	8	14¼ x 17¼	1.40	11.00
4	7¼ x 11½	.70	5.50	9	16¼ x 20¼	1.90	15.00
5	8¼ x 10¼	.75	5.60	(Quantities of 25 sold at 100 prices)			

## THOMPSON AND NORRIS (Reseal Back)

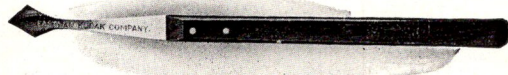
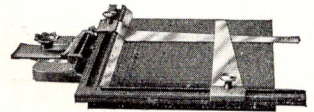
No.	Size	Number in a Box	Per 100	No.	Size	Number in a Box	Per 100
126	5½ x 7¾	50	\$3.25	142	9½ x 11½	25	\$5.85
131	6½ x 9⅞	50	3.85	143	9½ x 12½	25	6.25
135	7⅞ x 10⅞	25	4.20	146	10½ x 12½	25	6.70
137	7¼ x 11¼	25	4.85	151	11¼ x 14⅞	25	8.00
138	8½ x 10½	25	5.00	155	12¼ x 15¼	25	9.00
139	8⅞ x 11⅞	25	5.25	162	13¼ x 17½	25	10.40

## ENLARGING EASELS

Rubio No. 1—8x10 Paper	\$11.00	W. Jr. 11x14	\$ 6.75
Rubio No. 2—11x14 Paper	14.00	Eastman Easel	31.50
Rubio No. 3—16x20 Paper	20.00	Eastman Masking	15.75
Elwood	22.50		

## IDEAL PAPER HOLDER

3¼ x 5½	\$2.00	8 x 10	\$2.50
5 x 7	2.25	11 x 14	3.00



## ETCHING KNIVES

Roberts Etching Knife and Sharpener		Eastman's Etching Knife	\$1.42
Burke and James Etching Set	\$1.40	Estima Set for Three Knives	3.25
Etching Pen		Extra Blades	.40
			.10

# THE SIXTUS

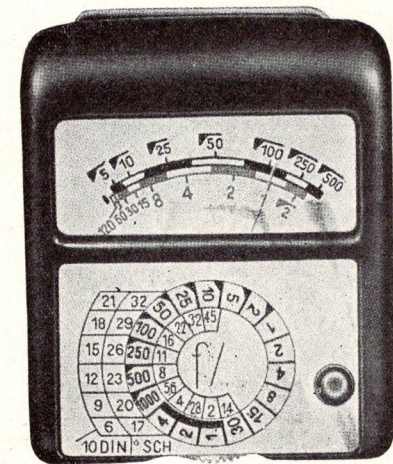
## Photo-Electric Exposure Meter

*Direct the "Sixtus" to the scene to be photographed and read immediately the length of exposure.*

The new "SIXTUS" is the result of three years' experience in the design and manufacture of photo-electric exposure meters for use in connection with both photography and cinematography. In its construction, consideration has been given to the various points put forward by users of electric exposure meters the world over.

Sensitiveness to dull interior light has been greatly improved, the "SIXTUS" being **FOUR TIMES AS SENSITIVE** as the well-known Ombrux Photo-electric Meter, and easily the most sensitive meter available to the public to-day.

Direct-readings are now possible in relatively dark interiors, as well as very bright exteriors. The scale shows clearly readings of 120 sec., 60 sec., 30 sec., 15 sec., 8 sec., 4 sec., 2 sec., 1 sec.,  $\frac{1}{2}$  sec.,



1/500th. These readings represent correct values considering the use of normal focus photographic lenses due to the restrictive value of the novel grid incorporated as an exclusive feature behind the specially computed duo-cylindrical lens which is fitted directly in front of the super-sensitive photo-electric cell.

This restriction of angle is of tremendous value when using the instrument on the seacoast, where a brilliant blue sky and considerable reflections from the sea or sands would tend to give an erroneous reading if it were not for these exclusive features.

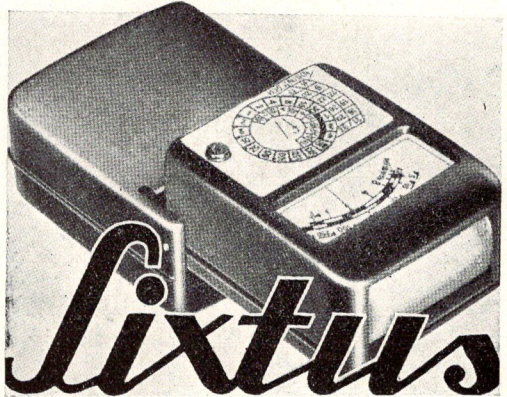
The "SIXTUS" has *no tables*, yet it is capable of instantly being used with any roll-film, cut-film, film-pack, plate, etc., from 6 Din, 17° Scheiner to 21 Din, 32° Scheiner, and with lenses having apertures from  $f/14$  to  $f/45$ . The instrument is operated by one hand only, the thumb operating the small rotating dial, the only part to be manipulated by the user. The exposure times engraved on the dial are 4 min., 2 min., 1 min., 30 sec., 15 sec., 8 sec., 4 sec., 2 sec.,  $\frac{1}{2}$  sec.,  $\frac{1}{5}$ th sec.,  $\frac{1}{10}$ th sec.,  $\frac{1}{25}$ th sec.,  $\frac{1}{50}$ th sec.,  $\frac{1}{100}$ th sec.,  $\frac{1}{250}$ th sec.,  $\frac{1}{500}$ th sec.,  $\frac{1}{1000}$ th sec.

The protective case of the "SIXTUS" is securely fixed to the instrument, and serves the dual purpose of a carrying case and convenient holder when using the "SIXTUS" in its normal working horizontal position. During the taking of a photograph, the meter case permits of it being held by one finger. Complete in its case, the "SIXTUS" weighs but 5 ozs., measuring  $2\frac{1}{2}'' \times 2'' \times 1''$ , which is approximately half the size of the well-known Ombrux meter complete in its ever-ready leather case.

The interior mechanism, delicate as it must be, due to its extraordinary sensitiveness, is even more robust than its predecessor.

The case is sealed and rendered practically dust-proof, a feature of great importance to those intending to take the meter to the tropics.

For the discriminating user, the amateur or professional who wishes to employ the finest and latest aid to successful photographs, we recommend the "SIXTUS" Photo-electric Meter.





NOT THE MOST EXPENSIVE—NOT THE CHEAPEST—BUT THE FINEST

Particulars

“SIXTUS” Photo-electric exposure meter complete in bakelite case with instruction book ..... \$20.00

EXPOSURE METERS

Bewi Junior with Case Model 2 .....	\$ 7.00
Super Bewi with Case .....	11.90
Burroughs Wellcome Exposure Calculator .....	.75
Bewi Distance Meter and Case .....	10.00
Largodrem for Enlarging .....	11.90
Instoscope with Case .....	4.50
Leudi Meter and Case .....	2.15
Photoscope .....	22.50
Dremeter (for paper) .....	1.20
Weston Universal No. 650 Meter .....	22.50
Weston Cine Model No. 627 for Movies .....	22.50
Weston Studio Model No. 628:—	

For the professional, this model has the highest degree of sensitivity to both low and high light values. Exposures can be made ranging from 1/800 sec. to 8 minutes. It is enclosed in a strong oak carrying case weighs 7.2 lbs. and its size is 7¾x9¾x4¾" .....\$99.00

FABRIC (Ruby and Orange)

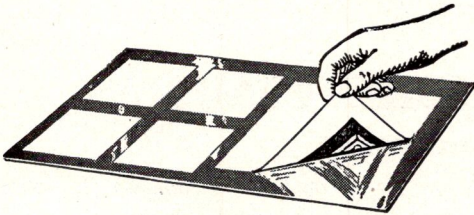
36" wide ..... per yard \$ .75 per half yard ..... \$ .40

FERROTYPE AND SQUEEGEE PLATES

ROUND CORNERS

	Each	Dozen	Case
10x14 .....	\$ .30	\$3.00	\$16.65 per 100
12x17 .....	.50	4.90	33.35 per 100
14x20 .....	.60	6.00	41.65 per 100
18x24 .....	.90	9.00	40.00 per 100

CHROMIUM SQUEEGEE PLATES



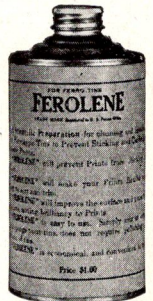
Size	Each	Doz.	Case	Sheets
10x14 .....	\$ .70	\$7.40	\$59.00	100
12x17 .....	1.35	14.25	58.00	50
14x20 .....	1.50	14.90	59.00	50
18x24 .....	2.90	29.75	59.00	25

FERROTYPE POLISHING SOLUTIONS

FEROLENE

Special preparation for cleaning and polishing Squeegee Ferrotypes Plates. Prevents glossy prints sticking to the plates.

1 pint can .....	\$1.00	1 gallon can .....	\$6.25
Verebest 2 oz.....\$ .20	4 oz.....\$ .30	8 oz.....\$ .50	16 oz..... .85
Eastman Waxing Solution for Ferrotypes Plates 4 oz. bottle .....	.36		
Squeegee Enamel Solution 4 oz. bottle.....\$ .23		16 oz. bottle.....	.85
Quart .....	\$1.65		



ROLL FILMS

No.	Size	Eastman Verichrome Gevaert Ex.	Eastman S. S. Panch. Panat.	Agfa Plen.	Agfa Superpan.	Agfa Fine Grain Plena.
127	1 5/8 x 2 1/2	\$ .24	\$ .28	\$ .24	\$ .28	\$ .28
117	2 1/4 x 2 1/4	.20	.24	.20	.24	—
129	2 x 3	.24	.28	—	—	—
120	2 1/4 x 3 1/4	.24	.28	.24	.28	.28
620	2 1/4 x 3 1/4	.24	.28	.24	.28	.28
105	2 1/4 x 3 1/4	.24	—	—	—	—
116	2 1/2 x 4 1/4	.28	.32	.28	.32	—
616	2 1/2 x 4 1/4	.28	.32	.28	.32	.32
101	3 1/2 x 3 1/2	.32	—	—	—	—
118	3 1/4 x 4 1/4	.36	.44	.36	—	—
124	3 1/4 x 4 1/4	.36	—	.36	—	—
130	2 7/8 x 4 7/8	.36	.44	.36	—	—
122	3 1/4 x 5 1/2	.44	.52	.44	—	—
122 10 exp.	3 1/4 x 5 1/2	.72	—	—	—	—
125	3 1/4 x 5 1/2	.44	—	—	—	—
103	4 x 5	.44	—	—	—	—
123	4 x 5	.44	—	—	—	—
104	5 x 5	.44	—	—	—	—
126	4 1/4 x 6 1/2	.80	—	—	—	—
115	7 x 5	.76	—	—	—	—
Norton		\$ .15	Univex. \$ .10	Memo Film (Special Fine Grain)		\$ .48

FILM PACKS

No.	Size	Kodak Verichrome	Kodak Panat.	Kodak Panchro.	Agfa Super Plen.	Agfa Superpan.
500	1 3/4 x 2 3/8	\$ .32	\$ .44	\$ .44	\$ .40	\$ —
540	1 3/4 x 4 1/4	.52	—	—	—	—
520	2 1/4 x 3 1/4	.48	.56	.56	.56	.60
516	2 1/4 x 4 1/4	.56	—	—	—	—
531	2-9/32x5-11/32	.80	—	—	—	—
518	3 1/4 x 4 1/4	.80	.96	.96	.92	1.08
542	3 x 5 1/4	.88	—	—	—	—
522	3 1/4 x 5 1/2	.92	—	1.24	1.01	—
543 (10x15 cm.)	3 3/4 x 5 1/2	1.12	—	1.32	1.28	—
523	4 x 5	.92	1.12	1.12	1.04	1.24
526	4 3/4 x 6 1/2	1.44	—	—	—	—
515	5 x 7	1.60	—	1.92	1.84	—
541 (9x12 cm.)	3 1/2 x 4 3/4	.88	1.04	1.04	1.00	1.16

FILM FOR MINIATURE CAMERAS

LEICA AND CONTAX

Eastman No. 135 S. S. Panch	\$ .85	Agfa Fine Grain Plenachrome	\$ .90
Eastman No. 235 S. S. Panch	.85	Agfa Fine Grain Superpan	1.00
Eastman No. 435 S. S. Panch	.70	Agfa Finopan	1.10
Eastman No. 135 Panatomic F	.85	Agfa Infra Red	1.35
Eastman No. 235 Panatomic F	.85	Agfa Fine Grain Superpan Reversible	1.50
Eastman No. 435 Panatomic F	.70	Dufaycolor Film for Leica	3.00
Eastman No. 135 Super X Pan.	.85	Dufaycolor Film for Contax	3.00
Eastman No. 235 Super X Pan.	.85	Dupont Micropan 30 exp. daylight loading	.90
Eastman No. 435 Super X Pan.	.70	Dupont Superior Panch 30 exp. daylight loading	.70
Eastman No. 1-R135 Infra Red	1.10	Dupont Infra D Panch, daylight load.	1.15
No. 135 in magazines for Leica Retina, Contax		Perutz Fine Grain Anti Halo	.99
No. 235 in daylight loading spool for Contax		Perutz Neo Persenso	.99
No. 435 in daylight loading spool for Leica		Perutz Peromnia, Perpantic	1.08

DUFAY COLOR FILM

FOR DIRECT COLOR TRANSPARENCIES

HAND CAMERA ROLL FILM		Half Doz.	Doz.
1 5/8 x 2 1/2 in. 8 exp. roll No. 27	\$1.50	Pkg.	Pkg.
2 1/4 x 3 1/4 in. 8 exp. roll No. 20	2.00	\$2.60	\$5.00
2 1/2 x 4 1/4 in. 8 exp. roll No. 16	2.50	3 1/4 x 4 1/4	7.20
		9x12 cm	8.10
35MM BULK FILM		4x5	10.35
50 ft. roll	32.50	5x7	16.65
100 ft. roll	63.75	8x10	40.50
			21.00

Prices above do not include processing (developing). Book of instructions with formulas will be supplied free on request.

MOTION PICTURE FILM

8 - 16 MM.

REGULAR PANCHRO.

200 ft. rolls 16 mm.	\$ 9.60
100 ft. rolls 16 mm.	4.80
50 ft. rolls 16 mm.	2.60
For Zeiss Kinamo	2.50
For Simplex Pockette	3.50

SUPER SENS. PANCH.

200 ft. rolls 16 mm.	12.00
100 ft. rolls 16 mm.	6.00
50 ft. rolls 16 mm.	3.20
For Zeiss Kinamo	3.00
For Simplex Pockette	4.25

KODACHROME SAFETY

100 ft. rolls 16 mm.	7.75
50 ft. rolls 16 mm.	4.28
For Simplex Pockette	5.00

CINE KODAK SAFETY

100 ft. rolls 16 mm.	3.60
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MAGAZINE CINE KODAK FILM

50 ft. Panchromatic 16 mm.	\$ 3.50
50 ft. Super Sens Panch. Film 16 mm.	4.25
50 ft. Kodachrome 16 mm.	5.00

AGFA FINE GRAIN PLENACHROME

100 ft. roll 16 mm.	3.60
50 ft. roll 16 mm.	2.20

AGFA PANCHROMATIC

100 ft. roll 16 mm.	4.80
50 ft. roll 16 mm.	2.60

AGFA FINE GRAIN SUPERPAN.

100 ft. roll 16 mm.	6.00
50 ft. roll 16 mm.	3.20

CINE KODAK PANCH.

25 ft. roll 8 mm.	1.80
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BELL & HOWELL FILMOPAN

30 ft. roll 8 mm.	1.45
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KODACHROME SAFETY

25 ft. roll 8 mm.	3.45
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35 MM. FILM

27 1/2 ft. Agfa Fine Grain Plenachrome	\$1.65
27 1/2 ft. Agfa Fine Grain Superpan	1.80
27 1/2 ft. Agfa Finopan	\$2.10
55 ft. Agfa Fine Grain Plenachrome Darkroom Loading	3.25
55 ft. Agfa Fine Grain Superpan Darkroom Loading	3.50
100 ft. Agfa Fine Grain Plenachrome Darkroom Loading	5.00
100 ft. Agfa Fine Grain Superpan Darkroom Loading	5.00
Regular Motion Picture Film	ft. .04 1/2
Panchromatic Motion Picture Film	ft. .04 1/2
Super Sens. Panch.	ft. .04 1/2
Super X Panch.	ft. .04 1/2
Positive Film Reg.	ft. .01 1/2

35 MM. FILM FOR

EYEMO OR DEVRY MOTION PICTURE CAMERAS

100 ft. Reel No. 10 E K Cartridge Film	\$4.50
100 ft. Reel No. 10 E K Cartridge Panchromatic Film	4.50
100 ft. Reel Dupont Superior Panch	5.00
100 ft. Reel Dupont Panchromatic Film	5.00
100 ft. Reel Dupont Orthochromatic Film	4.50
100 ft. Reel Agfa Daylight Loading Film	4.50
16 ft. Sept Film Eastman Super Sensitive Panchro	1.25

## CIRKUT FILM

*Eastman N.C. and Agfa Film Supplied for the Cirkut Cameras  
This Film is Furnished in Daylight Loading Cartridges*

Size	E. K. Reg Agfa Plen.	Verich Film	Size	E. K. Reg Agfa Plen.	Verich Film
5" x 4 1/2"	\$ .71	\$ .85	8" x 8'	\$2.63	\$3.15
6 1/2" x 3'	.80	.99	10" x 4'	1.62	1.95
6 1/2" x 6'	1.62	1.95	10" x 6'	2.46	2.97
8" x 4'	1.32	1.58	10" x 10'	4.08	4.89
8" x 5'	1.62	1.95			

## KOTAVA SAFETY POSITIVE FILM

*For making prints of high quality in either sepia or warm brown.  
Has a very fine smooth surface which takes color readily  
and will appeal to the miniature worker.*

Size	Per 1/2 Doz. Box	Per Doz. Box	Size	Per 1/2 Doz. Box	Per Doz. Box
3 1/4 x 4 1/4	\$ .85	\$1.70	6 1/2 x 8 1/2	\$3.06	\$6.12
4 x 5	1.15	2.30	8 x 10	4.59	9.18
5 x 7	2.10	4.20			

## IVORA DEFENDER SAFETY POSITIVE FILM

## VELOUR BLACK SPEED

Size	Per 1/2 Doz. Box	Per Doz. Box	Size	Per 1/2 Doz. Box	Per Doz. Box
3 1/4 x 4 1/4	\$ .53	\$1.05	6 1/2 x 8 1/2	\$2.07	\$4.13
4 x 5	.75	1.50	8 x 10	3.00	6.00
5 x 7	1.32	2.63	11 x 14	5.63	11.25

## EASTMAN TRANSLITE FILM

## DEFENDER ADLUX FILM

	Doz.		Doz.
3 1/4 x 4 1/4	\$ .51	8x10	\$2.42
4 x 5	.60	11x14	4.68
5 x 7	1.06	14x17	7.23
Rolls (per running foot)			1.20

## KODALITH FILM

	2 Dozen	1/2 Gross	Gross		2 Dozen	1/2 Gross	Gross
5 x 7	\$ 1.87	\$ 4.95	\$ 9.90	12 x 17	\$10.84	\$28.69	\$57.38
6 1/2 x 8 1/2	2.94	7.77	15.53	14 x 17	12.65	33.49	66.94
8 x 10	4.25	11.25	22.50	16 x 20	17.00	45.00	90.00
8 1/2 x 11	4.96	13.15	26.29	18 x 22	21.04	55.69	111.38
10 x 12	6.38	16.88	33.75	20 x 24	25.50	67.50	135.00
11 x 14	8.18	21.66	43.31				

“CONTRASTO” PRODUCTS

	Process Film	Paper	Strip Film
5x 7	Doz. \$ .90	\$ .23	\$ .64
8x10	Doz. 2.05	.53	1.47
10x12	Doz. 3.10	.80	2.20
11x14	Doz. 4.00	1.03	2.82
14x17	Doz. 6.20	1.60	4.35
16x20	Doz. 8.30	2.14	5.85
18x22	Doz. 10.30	2.64	7.27
20x24	Doz. 12.50	3.20	8.80

CUT FILMS

Centimeter Sizes

	6½x9	9x12	10x15
Eastman Par Speed Film	\$ .40	\$ .58	\$ .84
Eastman Panchromatic Film	.44	.66	.95
Agfa Portrait and Plenachrome Film	.40	.58	.84
Agfa Panchromatic Film	.40	.66	.95

FILM (Per Case)

EASTMAN

- Portrait Super Speed A. H.
- Commercial Matte
- Par Speed
- Commercial A. H.
- Commercial Ortho
- Positive
- Process
- Ortho Press

AGFA

- Commercial
- Process
- Commercial Ortho
- Portrait
- Supersensitive Plena.

DEFENDER

- Portrait
- Commercial
- Pentagon
- H G S

GEVAERT

- Studio
- Commercial
- Process Extra Ortho
- Ortho Commercial
- Superchrome

HAMMER

- Super Sensitive
- Medium Commercial

	Dozen	Per Case	3 Case	10 Case
2¼x3¼	\$ .33	\$ 9.45	.....	.....
3¼x4¼	.47	13.65	\$39.00	\$126.75
3¼x5½	.66	18.90	54.00	175.50
4x5	.66	18.90	54.00	175.50
5x7	1.06	20.30	58.00	188.50
6½x8½	1.61	18 48	52.80	171.60
8x10	2.34	22.40	64.00	208.00
7x11	2.34	22.40	64.00	208.00
10x12	4.09	11.76	33.60	109.20
7x17	4.09	11.76	33.60	109.20
11x14	5.88	16.91	48.30	156.98
12x20	9.23	17.71	50.60	164.45
14x17	10.00	19.18	54.80	178.10
16x20	.....	Dozen 12.88	36.80	119.60
18x20	.....	Dozen 15.96	45.60	148.20
20x24	.....	Dozen 18.40	55.20	179.40

## CUT FILMS—Cont'd

## EASTMAN

Port. Panchromatic  
 Process Panchromatic  
 Commercial Panchromatic  
 Super-Sens Panchromatic  
 Panatomic  
 Wash off Relief

Be sure to specify Anti Halation  
 when ordering.

	Dozen	Per Case	3 Case	10 Case
2¼x3¼	\$ .37	\$10.00	.....	.....
3¼x4¼	.55	15.75	\$45.00	\$146.25
3¼x5½	.73	21.00	60.00	195.00
4x5	.73	21.00	60.00	195.00
5x7	1.17	22.40	64.00	208.00
6½x8½	1.79	20.58	58.80	191.10
8x10	2.59	24.85	71.00	230.75
7x11	2.59	24.85	71.00	230.75
10x12	4.53	13.02	37.20	120.90
7x17	4.53	13.02	37.20	120.90
11x14	6.50	18.69	53.40	173.55
12x20	10.18	19.53	55.80	181.35
14x17	11.02	21.14	60.40	196.30
16x20	.....	Dozen 14.18	40.50	131.63
18x22	.....	Dozen 17.57	50.20	163.15
20x24	.....	Dozen 21.28	60.80	197.60

## DEFENDER

Port Panch  
 Commercial Panch  
 X-F Spec Panch

## AGFA

Process Panch  
 Port Matte  
 Commercial-Matte  
 Commercial Panch  
 Super Pan.

## FILM PACK ADAPTERS

	Graflex	Kodak		Graflex	Kodak
2¼x3¼	\$4.95	\$2.35	3 x5¼	.....	\$1.80
3¼x4¼	4.95	1.80	3¼x5½	\$5.85	1.80
4 x5	5.85	2.70	5 x7	7.65	3.38

## FILM SHEATHS

2½x3½	\$ .10	6½x8½	\$ .25
3¼x4¼	.10	8 x10	.30
3¼x5½	.15	9 x12 cm.	.10
4 x5	.15	10 x15 cm.	.15
5 x7	.20		

## WRATTEN FILTERS

Wratten Filters are supplied in three forms: Gelatin Film, "B" glass cemented filters (a good optical glass), and "A" glass cemented filters, commonly called "Flats" (hand-surfaced optically flat glass). Unless otherwise specified, "B" filters are supplied for photographic use.

The filters most commonly used are:

K1, a light yellow filter giving good correction for short exposures.

K2, a stronger yellow filter for correct rendering of color with regular panchromatic film

X1, a pale green filter for correct color rendering with regular panchromatic films and plates with incandescent tungsten illumination, and Eastman Super-sensitive Panchromatic Films and Wratten Hypersensitive Panchromatic Plates with daylight.

X2, a darker green filter for correct color rendering with Eastman Super-sensitive Panchromatic Films and Wratten Hypersensitive Panchromatic Plates with incandescent tungsten illumination.

G. a strong yellow filter for photographic dark yellow woods, badly stained copies, or for eliminating haze in distant landscapes.  
 F, a deep red filter for photographing dark mahogany, blue prints, etc.  
 Tricolor: A, orange-red: B, green; C, blue.  
 A is for photographing mahogany, rosewood, and similar articles.  
 B is for photographing typewriting, figured rugs, carpets, etc.  
 C is for three-color work only.

**COMMERCIAL SET OF 8 FILTERS**

This set includes the filters most generally used: K1, K2, X1, G, F, A, B, and C5. The exposure factors for all of these filters are given in every package of Panchromatic Films or Plates.

Cemented in "B" glass, 3-inch, per set in case .....	\$32.50
Single Filters, each .....	3.38

**WRATTEN TRICOLOR FILTERS**

Supplied in Gelatin Film, or cemented in "B" glass or "A" glass. For comparison, the prices of only one size are given. Prices of other sizes on request.

Per set 3-inch square	3-color	4-color
Gelatin Film .....	\$ 2.03	\$ 2.70
In "B" Glass .....	11.25	14.63
In "A" Glass .....	68.85	91.80

NOTE—The prices in "B" glass include the cost of matching but do not include the case, the price of which is \$4.00.

**SINGLE WRATTEN FILTERS**

Inch	Gelatin Film	Unmounted Circles in "B" Glass	Unmounted Squares in "B" Glass	Mounted Circles in Metal Cell in "B" Glass
3/4	.....	\$1.04	\$1.04	\$2.16
1	\$ .20	1.17	1.17	2.30
1-1/16	.....	.....	.....	2.57
1 1/8	.....	.....	.....	2.57
1-3/16	.....	1.30	.....	2.57
1 1/4	.20	1.30	1.30	2.57
1-5/16	.....	.....	.....	2.84
1 3/8	.....	1.49	.....	2.84
1-7/16	.....	.....	.....	2.84
1 1/2	.25	1.49	1.49	2.84
1-9/16	.....	.....	.....	2.97
1 5/8	.....	1.58	.....	2.97
1-11/16	.....	.....	.....	3.10
1 3/4	.30	1.71	1.71	3.10
1 7/8	.....	1.89	.....	3.78
1-15/16	.....	.....	.....	3.78
2	.40	1.89	1.89	3.78
2 1/8	.45	2.03	2.03	4.05
2 1/4	.50	.....	2.57	5.40
2-5/16	.....	.....	.....	5.40
2 3/8	.....	2.57	2.57	5.40
2 1/2	.65	2.57	2.57	5.40
2 5/8	.....	3.38	.....	6.75
2 3/4	.75	.....	3.38	6.75
2 7/8	.....	3.38	.....	6.75
3	.90	3.38	3.33	6.75
3 1/8	.....	4.28	.....	.....
3 1/4	1.05	.....	4.28	.....
3 1/2	1.25	5.09	5.09	10.17
4	1.60	6.08	6.08	11.15
4 1/2	2.05	.....	8.46	.....
5	2.50	.....	9.40	.....

NOTE—For unlisted sizes of Unmounted Circles or Squares in "B" Glass, the price will be figured at an increase of 50 per cent over the next larger listed size. Special sizes are not returnable for credit.

## WRATTEN "M" FILTERS

These filters are for use in microscopy and the method of using them is described in the booklet "Photomicrography."

## SET OF 9 FILTERS

Gelatin Film 2 inches square .....	\$ 2.79
Gelatin Film 3 inches square .....	6.30
Cemented in "C" Glass, 2 inches square (in leather case) .....	18.00
Cemented in "C" Glass, 3 inches square (in leather case) .....	27.00
Cemented in "C" Glass, 4 inches square (in leather case) .....	37.80

## AGFA FILTERS

## SQUARE STYLE

Filter Size and Holder Size	Lens Diameter Fitted		Price	
	Maximum	Minimum	Filter Only	Holder Only
30 x 30 mm. (1-3/16 x 1-3/16 in.) .....	15/16 in.	13/16 in.	\$ .85	\$1.15
45 x 45 mm. (1 3/4 x 1 3/4 in.) .....	1-9/16 in.	7/8 in.	1.45	1.40
60 x 60 mm. (2 3/8 x 2 3/8 in.) .....	2 in.	1 7/8 in.	2.45	1.60
75 x 75 mm. (3 x 3 in.) .....	2 1/2 in.	1-13/16 in.	3.80	2.75
90 x 90 mm. (3 1/2 x 3 1/2 in.) .....	2 7/8 in.	1-13/16 in.	4.80	3.45
120 x 120 mm. (4 3/4 x 4 3/4 in.) .....	3 5/8 in.	2 3/4 in.	9.75	6.90

## ROUND STYLE

18-19 mm. ( 3/4 in.) .....	11/16 in.	5/8 in.	\$ .85	\$1.15
30-31 mm. (1 1/4 in.) .....	1-1/16 in.	13/16 in.	1.20	1.15
37-40 mm. (1 1/2 in.) .....	1 3/8 in.	15/16 in.	1.95	1.40
50-51 mm. (2 in.) .....	1 7/8 in.	1 1/4 in.	2.85	1.60
61-65 mm. (2 1/2 in.) .....	2-5/16 in.	1 7/8 in.	3.75	3.20

## EASTMAN FILTER TEST CHART

Contains 12 small viewing filters, mounted in cardboard, for examining the subject to determine what filter should be used.

Eastman Filter Test Chart .....	\$ 75
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## EASTMAN PORTRAIT DIFFUSION DISC

"A" SLIGHT DIFFUSION—"B" MODERATE DIFFUSION

	No. 0	No. 1	No. 2
Diffusion Disc .....	\$4.50	\$5.40	\$6.75
Diffusion Disc Holder .....	2.70	3.60	4.50

## DIFFUSION DISCS

(For Eastman 5x7 Auto Focus Enlarger)

Per Set of 3 Discs .....	\$22.50
Supplied Separately .....	9.00

(For Eastman No. 2 8x10 Projection Printer)

Per Set of 3 Discs .....	\$27.00
Supplied Separately .....	10.80

## FILM HOLDERS

	2 1/4x3 1/4	3 1/4x4 1/4	4x5	5x7	6 1/2x8 1/2	8x10	11x14
Sterling .....						4.40	\$8.40
Graflex .....	\$2.80	\$3.00	\$3.20	\$3.60			
Graphic Utility .....			2.00			3.60	
AnSCO .....		2.00	2.00	2.00	2.20	2.40	
Eastman No. 1 .....				2.20	2.20	2.80	
Eastko .....				1.48		2.20	
Imperial .....				2.20		3.20	
Riteway .....				2.32		3.20	
Graphic Press .....			2.20				



**EASTMAN ADJUSTABLE FILTER HOLDER**

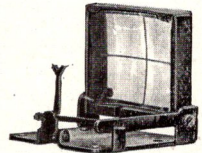
For use with the 2-, 3-, and 4-inch square Wratten Filters. By means of a simple automatically adjusting ring, the 4-inch filters may be securely attached to any lens barrel from 2 3/8 to 3 7/8 inches in diameter, the 3-inch filters to any lens barrel from 1-11/16 to 2 3/8 inches in diameter, and the 2-inch filters to lens barrels from 1 1/8 to 1-9/16 inches in diameter.

	2 inches	3 inches	4 inches
	Square	Square	Square
Eastman Adjustable Filter Holder, for Wratten Filter.....	\$1.13	\$1.35	\$2.25

**FINDERS**

GRAPHIC SIGHT FINDER. A direct vision, folding sight finder, to be attached to the top of the camera.

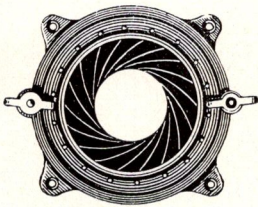
3 1/4 x 4 1/4 .....	\$3.60
4 x 5 .....	4.05
5 x 7 .....	4.73



**FINGER TIPS (Pure Rubber)**

Per set of three .....	\$ .15	Per dozen sets .....	\$1.62
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**IRIS LENS FLANGES**



Indispensable to any photographer who uses more than one lens.

No. 1 Lens opening 6/10 to 2-4/10 inches .....	\$5.20
No. 2 Lens opening 9/10 to 3-4/10 inches .....	6.00
No. 3 Lens opening 1 to 4 inches .....	7.20
No. 4 Lens opening 1-1/5 to 4-4/5 inches .....	9.20

**FLASH POWDER**

**AGFA BLITZLIGHT**

10 Grams .....	\$ .54	50 Grams .....	\$1.35
25 Grams .....	.95	100 Grams .....	2.02

**VICTOR FLASH POWDER**

NORMAL, EXTRA FAST OR SLOW GRADES

1/2 oz .....	\$ .50	2 oz. ....	\$1.40	16 oz. ....	\$10.30
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**SMOKELESS FLASH POWDER**

Fumosin—100 Grams Pkg. ....	\$ 2.90	Newmans—2 oz. Bottle Mixed.....	1.58
Marshalls—2 oz. Bottle Mixed.....	1.53	Victor—1 oz. Bottle Mixed.....	.86
Marshalls—1 lb. Bottle Mixed.....	10.80	Victor—2 oz. Bottle Mixed.....	1.58

**AGFA FLASH LAMPS**

Amateur Size .....	\$1.35
Stand and Release for Amateur Lamp .....	1.15
Flints for Lamps, package of 3 .....	.40

SPREDLITE. Lever release, cap ignition wire trigger control.

No. 2—Size of pan 2 1/2 x 1 1/2 in. ....	\$2.70
No. 4—Size of pan 2 x 1 3/8 in. ....	1.80
No. 5—Size of pan 3 x 1 9/16 in. ....	4.05

## FLASH ACCESSORIES

### PAPER CAPS

Box of 50 ..... \$ .10

### PRIMERS

Ingento-Sure Shot per 100 ..... \$1.00  
 Victor Centre Fire per 100 ..... 1.50  
 Marshall's Primers per 100 ..... 1.65

### FLASH BULB GUNS

Medo Ace Complete with handle, reflector and batteries, folding type ..... \$2.50  
 Medo Acme Complete with 10" bowl reflector..... 2.50  
 Foldoflector complete with batteries ..... 2.10  
 Rexo 3 in 1, with clover leaf reflectors ..... 5.85

## FLASH & FLOOD BULBS

### WESTINGHOUSE MAZDA

For perfect synchronization Westinghouse bulbs "never miss."

No. 10 .....each \$ .15	6 Bulbs for .....	\$ .60
No. 20 .....each .25	6 Bulbs for .....	1.00
No. 75 .....each .75	6 Bulbs for .....	3.00



Photoflash  
No. 10

### FLOOD BULBS

No. 1 Flood, equiv. to 250 Watts each .....	\$ .25
No. 4 Flood, equiv. to 1000 Watts each .....	2.00
1000 Watt Movieflood each .....	3.50
2000 Watt Movieflood each .....	5.25
No. 1 Enlarging Photoflood Lamp each .....	.25

Discount on Nos. 1 and 4 Flood Bulbs same as on Flash Bulbs.



Photoflood  
No. 1

Clear Flood Bulb .....	\$ .30
Opal Flood Bulb, short neck .....	.35
Opal Flood Bulb, long neck .....	.40
Filter Blue Flood Bulb .....	.50
5 Hour Flood Bulb .....	.35
Jumbo Picture Flood Bulb .....	2.00
Jumbo Filter Flood Bulb .....	2.50

### FOCUSING CLOTH

A fine grade of rubber cloth, light weight 36" wide

1 yard.....\$ .50	1½ yards .....	\$ .75	2 yards .....	\$1.00
E. K. Professional Focus Cloth—1¼ yards, bound edges, heavy cloth .....				\$1.35
E. K. Home Portrait Cloth 40x48" bound edges .....				1.58

# FRAMES

## MINIATURE FRAMES

These frames are furnished in gold, with convex glasses and beautiful plush backs and can be used with 3¼x4¼ Opal plates or film for miniature work.

- 3¼x4¼, No. 5452 ..... \$ .75
- 3¼x4¼, No. 203 ..... .80



## FRAMES

We carry in stock at all times a complete assortment of wood and metal frames.

### Special Medo Wood Frame

These are equipped with a back that is adaptable for either vertical or horizontal pictures.

- 5x7 ..... \$ .20
- 8x10 ..... \$ .25

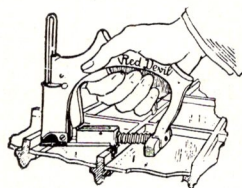
All types of metal frames ranging in price, from \$.60 to \$2.50 carried in stock.



## FRAMING TOOL

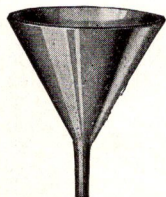
Red Devil Automatic Point Driver—For framing pictures. It has a coil spring feed and shoots points like a rapid fire gun into the hardest wood. Points cannot drop out. May be used at any angle.

- For No. 1 Diamond Points ..... \$5.00
- For No. 2 ..... 6.99
- Diamond Points in Packages of 5,000 ..... .75
- Larger size Points for No. 2 Diamond Points—Package of 4,000 ..... .95



## FUNNELS (Plain or Fluted Glass)

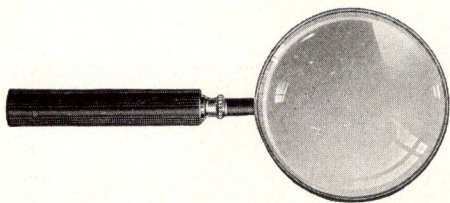
- ½ Pint ..... \$ .45
- 1 Pint ..... .55
- 1 Quart ..... .75
- 2 Quarts ..... 1.15
- 1 Gallon ..... 1.55



## ENAMEL FUNNELS

- 10½ Ounces No. 12 ..... .50
- 16 Ounces No. 14 ..... .75
- 26 Ounces No. 16 ..... 1.00
- 48 Ounces No. 20 ..... 1.25

## READING GLASSES



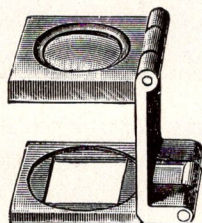
Their great field of view and magnifying power especially adapt these lenses for retouching and focusing. These are double convex of white glass, accurately ground and highly polished. The rim and the ferrule are heavily nickel-plated. The handle is ebonized wood.

2 -inch lens .....	\$ .75	3½-inch lens .....	\$1.35
2½-inch lens .....	.90	4 -inch lens .....	1.75
3 -inch lens .....	1.10	4½-inch lens .....	3.00
Retouching Glass Holder .....	\$2.25		

## LINEN TESTERS

As the name implies this form of magnifier was originally designed to count threads in fabrics. Because of its convenience in use and excellent magnifying power it is now used for many other purposes. The testers are constructed of extra heavy brass and fold flat.

Linen tester, dia. lens ⅜-in., size opening ½"x½" .....	\$ .50
Linen tester, dia. lens 9/16-in., size opening ½"x½" .....	1.00
Linen tester, dia. lens ¾-in., size opening 1"x1" .....	2.50



## TRIPOD MAGNIFIER

Mounted on legs 7.5 Power .....	\$ .75
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## EASTMAN GROUND GLASS SUBSTITUTE

For producing a ground-glass effect on the back of negatives. Flows evenly, dries quickly. Invaluable in working up negatives. In 4-ounce bottles.

Eastman Ground Glass Substitute, per bottle .....	\$ .60
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## GLASS (Heat Resisting)

Something new on the market, to eliminate the heat, and protect your negatives.

For 5x7 Enlargers .....	\$1.75
For 8x10 Enlargers .....	3.25

Any size can be supplied on special order.

## FINE GROUND GLASS

Extra quality with an even satin finish, strictly for photographic use.

3¼x4¼ .....	\$ .10	8x10 .....	\$ .30
4 x5 .....	.15	10x12 .....	.70
3¼x5½ .....	.15	11x14 .....	.80
5 x7 .....	.18	14x17 .....	1.50
6½x8½ .....	.25	16x20 .....	1.75

## FLASHED OPAL GLASS

A first quality flashed glass for use as a diffusing screen. Just the right quality to afford even diffusion.

5x7 .....	\$ .40	11x14 .....	\$1.20
7x7 .....	.50	14x14 .....	1.60
8x10 .....	.65	14x17 .....	1.80
10x12 .....	.70	16x20 .....	2.40
18x22 .....			3.00

For R. B. Enlarging Camera, 11x11 .....	\$1.20
Wratten Safelight Lamp, No. 1, 6¼x9¾ .....	.60

**ORANGE AND RUBY GLASS**

3½x4½	.....	\$ .10	8x10	.....	\$ .35
4 x5	.....	.15	10x12	.....	.50
5 x7	.....	.20	11x14	.....	.65
6½x8½	.....	.25			

**PLAIN**

5 x7	.....	\$ .10	10x12	.....	.25
6½x8½	.....	.15	11x14	.....	.35
8 x10	.....	.20			

**GLASS MISCELLANEOUS**

Sand Blast Glass for 5x7 Elwood Enl.	.....	\$ .40
Sand Blast Glass for Kodak Auto Focus Enl.	.....	.45
Sand Blast Glass for Eastman Auto Focus Enl.	.....	.75
Sand Blast Glass for No. 2 Projection Printer	.....	.75
Opal Glass for Kodak Auto Focus Enl.	.....	.50
Opal Glass for R. B. Enlarging Camera 11"x11"	.....	1.20
Opal Glass for No. 2 Crown Printer 12"x15½"	.....	1.80
Plate Glass for Neg. Carrier 5x7 A. F. Enl. ea.	.....	.50
Plate Glass for Neg. Carrier No. 2 Projection Printer, ea.	.....	1.00
Plate Glass for No. 1 8x10 Crown Printer	.....	1.75
Plate Glass for No. 2 11x14 Crown Printer	.....	2.75
Plain Glass Neg. Carrier 5x7 A. F. Enl.	.....	.15

**GLUE IN TUBES**

Carter's Glue	.....	\$ .15	Eastman Glue	.....	\$ .15
Gripitt	.....	.25	Dupont Glue	.....	.25

**HIGGINS PASTE (In Capped Jars)**

16 oz.	.....	\$ .77	32 oz.	.....	\$1.35
6 lb. Can Days White Paste	.....	\$1.95			

**HIGGINS VEGETABLE GLUE**

½ lb. can	.....	\$ .25	2 lb. can	.....	\$ .75
1 lb. can	.....	.45	1 gallon can	.....	2.50

**KODAK PHOTO PASTE**

An excellent white adhesive. It is made especially for mounting prints, and will not bleach or discolor them.

1⅛-ounce tube	.....	\$ .10
2-ounce tube	.....	.15



**EASTMAN PHOTO PASTE**

A high quality paste, useful for mounting pictures, and also for general household purposes. It is white in color, of uniform consistency and will neither discolor nor readily cackle photographic prints.

4-ounce jar	.....	\$ .25
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## GRADUATES

	C.C. Double Scale	Engraved	Tumbler	E.K. Visible
60 or 120 Mn. ....		\$ .45		
1 oz. ....	CC 50	.40		
2 oz. ....	CC 100	.45	\$ .14	\$ .36
4 oz. ....	CC 125	.55	.17	.45
8 oz. ....	CC 250	1.00	.24	.54
16 oz. ....	CC 500	1.50	.36	.81
32 oz. ....	CC1000	2.25	.70	1.12

## ENAMEL GRADUATES

8 oz. ....	\$ .70	64 oz. ....	\$2.00
16 oz. ....	.90	96 oz. ....	2.75
32 oz. ....	1.25	128 oz. ....	3.00

## ENAMEL PAILS

8 quart .....	\$2.00	11 quart .....	\$2.25
9 quart .....	2.10	12 quart .....	2.45
		15 quart .....	\$2.75

## RUBBER GLOVES

Thin Rubber, for use in developing to prevent staining the fingers.

Sizes 7, 7½, 8, 8½ or 9. Pair ..... \$ .75  
 Heavier Rubber, Size 8 up (For Acid). Pair ..... 2.50



## GUM PAPER

Package of 50 strips .....	\$ .15
Package of 1000 strips .....	1.00M
Lots of 2000 strips .....	.90M
Lots of 5000 strips .....	.75M

## HANDI - HINGE

—a flexible binding edge easily applied to Photographs, Album Pages, Price Sheets, Bulletins, etc. Handi-Hinge allows pages to open flat and never wears out. Moisten gummed edges and insert page—that's all.

Photographs on Double Weight Paper do not require Cloth Backing.

Two pages may be attached to one stub if desired.

	1 dozen in envelopes Per Dozen	12 envelopes in box Per Gross	20 boxes to carton 1000
8 in. strips .....	\$ .75	\$3.50	\$16.50
8½ in strips .....	.75	3.65	17.40
10 in. strips .....	.80	3.95	19.25
11 in. strips .....	.85	4.25	20.95

## HOT BREEZE HEATER

Easily attached to any ordinary electric fan. Excellent for drying prints on Squeegee plates.

Heater only with 6 ft. cord ..... \$4.95

**HYDROMETERS**

For assuring correctly compounded formulae only a tested hydrometer is of real value. The tested hydrometer is accurate and allows a ready reading of the scale even in poor light.

Eastman Tested Hydrometer with jar .....	\$1.35
Eastman Tested Hydrometer without jar .....	.90
Medo Tested Hydrometer .....	.50



**HYPO MEASURING JUG AND FUNNEL**

To hold 32 oz. solution graduated to 4, 8, 12, 16, 20, 24, 28, and 32 oz. The top can be used as a funnel when inverted.

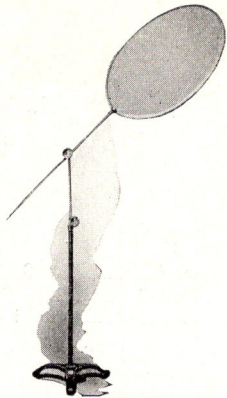
Price .....	\$1.25
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**MEDO PAPER HOLDER**

FOR ENLARGING

Consists of a spring panel box to hold 144 sheets of paper, with metal clamps to print white borders. As each sheet is exposed it is drawn out without disturbing or fogging the remaining sheets. A screw clamp is fixed to the back so that the holder can be fastened to a wall or other support and used in an upright or horizontal position.

5x7	6x8	6½x8½	7x11	8x10	10x12	11x14
\$10.50	\$10.75	\$10.75	\$11.00	\$11.00	\$13.00	\$13.00

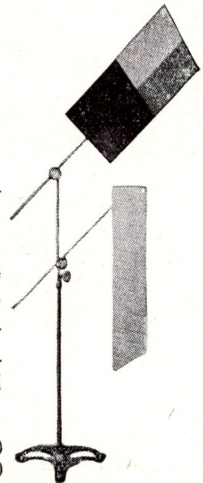


*Century Head Screen Model A*

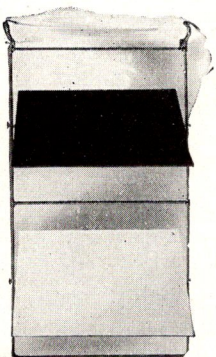
**CENTURY AND UNIVERSAL HEAD SCREENS**

The standards of these screens, with extensions, are 6 feet high; the horizontal rods, sliding in a clamp, are 3 feet long. The Model A has a white screen 32 inches in diameter. The Universal screen is 27¼ inches square, contains four sections of varying densities, and revolves. The side screen is 25½x34½ inches. The upper half is doubled and may be rolled up to pass more light.

Century Head Screen Model A.....	\$11.70
Universal Head and Side Screen.....	21.60



*Century Universal Head and Side Screen*



**EASTMAN STUDIO REFLECTOR**

Consists of two rectangular opaque screens each 41x35 inches, mounted one above the other in a strong iron frame. These screens are black on one side and white on the other, and can be swung to any angle and securely locked. Floor standards prevent swaying and casters facilitate moving the reflector about the studio.

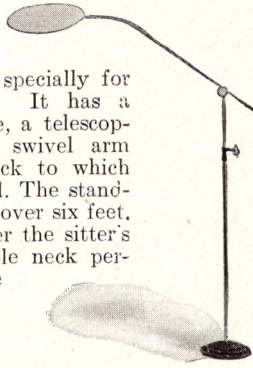
Eastman Studio Reflector .....	\$27.00
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**EASTMAN HEAD SCREEN**

A device designed specially for the portrait worker. It has a heavy, octagonal base, a telescoping standard and a swivel arm with flexible gooseneck to which the screen is attached. The standard may be raised to over six feet, the arm extended over the sitter's head while the flexible neck permits the screen to be turned at any angle.

Eastman Head Screen, one medium gray screen .....\$12.15

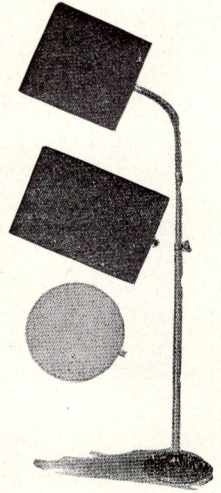
Extra Screens, light, medium gray, or black, each ..... \$2.25



**HALLDORSON HEAD SCREEN**

Has a flexible neck for adjustment to any angle. 3 screens are available. Price with one screen (choice of 3 sizes—10x10 Dark, 10x15 Dark and Light color round, 10 in. in diameter. The 10x10 Dark screen is supplied with outfit unless ordered otherwise) ....\$7.65

Complete with three screens .....\$13.50



**PLAIN HYPO SODA**

1-lb. Box .....	\$ .11	5-lb. Bag .....	\$ .25
100 lb. Bag Delivered, New York City .....			3.75
25 lb. Bag Delivered, New York City .....			1.00

**ACID HYPO**

½ lb. Package to make 32 oz. Solution Kodak .....	\$ .12
1 lb. Package to make 64 oz. Solution Kodak .....	.18

**INTENSIFIERS**

E. K. per tube .....	\$ .15	Tabloid .....	\$ .35	and .....	\$ .55
Victor Intensifier No. 1.....	.23	No. 2 .....	.42	No. 3 .....	.85
Agfa Intensifier 2 oz. ....	.50	4 oz. ....	.75	8 oz. ....	1.20

**INK**

Small Sticks India Ink .....	\$ .15	Pako Ink .....	\$ .25
Snow White Ink .....	.30	Water Proof Ink .....	.25

**MEDO KITS**

Metal hinged kits for wet negative enlarging.

9 x12 cm. ....	\$2.00
3¼x4¼ .....	2.00
4 x5 .....	2.25
10 x15 cm. ....	2.25
5 x7 .....	2.50

**REDUCING KITS**

3¼x4¼ to 2½x2½ .....	\$ .60
4 x5 to 2½x2½ .....	.60

**ENLARGING KITS WITH FINGERS**

5x7 to 10x15 cm.....	\$1.50
5x7 to 4x 5 .....	1.50

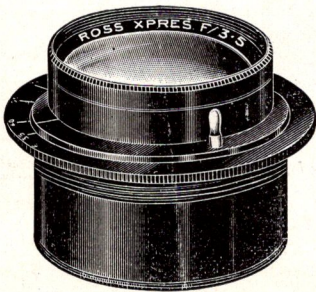


# ROSS LENSES

## ROSS XPRES LENS

F/2.9, F/3.5, AND F/4.5

The new *f/2.9* and *f/3.5* series of the Ross Xpres Lens possesses all of the fine qualities which have made their predecessor, the *f/4.5* lens, so well known, with the added advantage of a considerably larger aperture. Their definition at open aperture will more than satisfy the most critical.



A distinctive feature of the *f/3.5* lens is its wide angle of view which is greater than that of other lenses of the same aperture and almost as large as that of the *f/4.5* Xpres Lens.

The Ross Xpres Lenses have another great advantage—there are no internal reflections, and therefore a total absence of Ghost and Flare, faults often associated with large aperture lenses.

### F/2.9

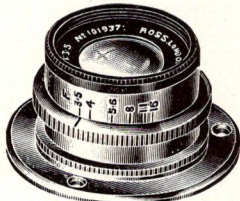
Equiv. Focus	Plate Covered	Inside Diameter of Flange		Price Iris or Sunk Setting
		Iris Setting Size in.	Sunk Setting Size in.	
in.	in.			
5 $\frac{5}{8}$	2 $\frac{1}{2}$ x3 $\frac{1}{2}$ & 3 $\frac{1}{4}$ x4 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{5}{8}$	\$110.25
6 $\frac{1}{2}$	3 $\frac{1}{2}$ x4 $\frac{1}{4}$ & 4x5	2 $\frac{7}{8}$	3	128.75
8 $\frac{1}{2}$	4x5 & 4 $\frac{3}{4}$ x6 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{5}{8}$	165.50
10	4 $\frac{3}{4}$ x6 $\frac{1}{2}$	4 $\frac{1}{4}$	4 $\frac{1}{4}$	214.50

### F/3.5

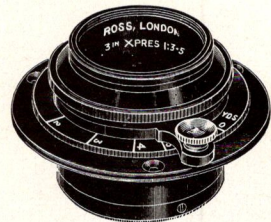
Equiv. Focus	Plate Covered	Inside Diameter of Flange		Price Iris or Sunk Setting
		Iris Setting Size in.	Sunk Setting Size in.	
in.	in.			
1 $\frac{1}{2}$	$\frac{3}{4}$ x 1	1 $\frac{1}{8}$		\$ 37.50
2	$\frac{3}{4}$ x 1	1 $\frac{1}{8}$		37.50
3	1 x 1 $\frac{1}{4}$	1 $\frac{3}{8}$		46.00
3 $\frac{1}{2}$	1 $\frac{3}{4}$ x 2 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	48.00
4	1 $\frac{3}{4}$ x 2 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{3}{4}$	55.00
4 $\frac{3}{8}$	2 $\frac{1}{2}$ x 3 $\frac{1}{2}$	1 $\frac{3}{4}$	1 $\frac{7}{8}$	61.25
5 $\frac{3}{8}$	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	2	2	70.50
6	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	2 $\frac{1}{8}$	2 $\frac{1}{4}$	78.00
6 $\frac{1}{2}$	4 x 5	2 $\frac{1}{2}$	2 $\frac{5}{8}$	85.50
7 $\frac{1}{4}$	3 $\frac{1}{2}$ x 5 $\frac{1}{2}$	2 $\frac{5}{8}$	2 $\frac{3}{4}$	98.00
10	4 $\frac{3}{4}$ x 6 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{5}{8}$	184.00

## ROSS LENSES FOR CINEMATOGRAPH CAMERAS

These short focus large-aperture lenses give wonderful definition and covering power and are excellent for cinematograph camera work. They are supplied either in Iris settings or in Focusing Jackets with Iris Diaphragm.



*In Iris Setting*



*In Focusing Setting*

### ROSS XPRES LENS, $f/3.5$

Equiv. Focus	Plate Covered	In Iris Setting	Flange Size	In Focusing Jacket
1½	¾ x 1	\$39.80	1½	\$46.75
2	¾ x 1	39.80	1½	46.75
3	1 x 1¼	46.00	1⅝	53.00
3½	1¾ x 2½	49.00	1¾	58.25
4	1¾ x 2½	55.25	2	67.50
4⅜	2½ x 3½	61.25	2⅛	75.00
5⅜	3¼ x 4¼	70.50	2¼	84.25
6	3¼ x 4¼	78.10	2½	94.75

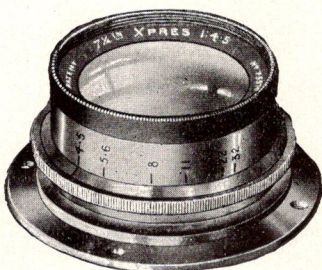
### ROSS XPRES LENS, $f/4.5$

No.	Equiv. Focus	Plate Covered	In Iris Setting	In Focusing Jacket
1	4¾	2½ x 3½	\$42.90	\$53.50
2	5½	3¼ x 4¼	46.00	58.25
3	6	4 x 5	52.00	66.00

### ROSS XPRES LENS $F/4.5$

The introduction of the  $f/4.5$  Ross Xpres Lens marked a distinct advance in photographic lens quality. Its aperture of  $f/4.5$ , which was an innovation at that time, combined an excellence of quality then unknown in lenses of large aperture, and one that has never been equalled.

The secret of this remarkable quality lies in the particularly efficient formula to which the lens is constructed and the high light transmitting power of the glasses employed, resulting in a brilliance of image, an excellence of definition and covering power previously unobtained. These lenses are ideal for Press work and all other forms of photography where speed with critical definition are of first consideration.



Equiv. Focus in.	Plate Covered in.	Price Iris or Sunk Setting
3	1 3/4 x 2-5/16	\$ 32.50
3 1/2	2 1/4 x 3 1/4	32.50
4 3/8	2 1/2 x 3 1/2	35.00
4 3/4	2 1/2 x 3 1/2	36.00
5	3 x 4	38.00
5 3/8	3 1/4 x 4 1/4	40.00
5 1/2	3 1/4 x 4 1/4	42.00
6	4 x 5	45.50
6 1/2	3 1/2 x 5 1/2	51.50
7 1/4	4 3/4 x 6 1/2	60.00
8 1/2	5 x 7	82.00
10	5 x 8	115.00
12	6 1/2 x 8 1/2	165.00
16 1/2	8 x 10	267.50
21	10 x 12	410.00

**ROSS WIDE-ANGLE Anastigmat F/16**



These lenses cover a very wide angle of view and are specially suitable for Interiors, Architecture, Copying and all work in confined situations. They give even illumination, perfect definition and covering power and are entirely free from distortion.

Larger sizes, intended for the reproduction of maps, plans and drawings are made to order.

The smaller numbers of these lenses cover a field of more than 100°, the larger ones a field of 90°.

No.	Equiv. Focus in.	Size of Plate covered with Stop		Price with Iris or wheel Diaphragm.
		f/16	f/32	
1	3 1/4	3 1/4 x 4 1/4 in.	4 x 5 in.	\$34.25
2	4 1/4	4 x 5 in.	4 3/4 x 6 1/2 in.	34.25
3	5 1/2	4 3/4 x 6 1/2 in.	6 1/2 x 8 1/2 in.	37.50
4	7 1/4	6 1/2 x 8 1/2	8 x 10 in.	47.75
5	8 1/4	8 x 10 in.	10 x 12 in.	59.40
6	10 1/2	10 x 12 in.	11 x 13 in.	73.50
7	12 1/4	11 x 13 in.	12 x 15 in.	87.50

**ROSS WIDE ANGLE LENS F/4**

5"	.....	\$112.50
6"	.....	124.50
7"	.....	170.00
8 1/4"	.....	180.00
10"	.....	266.00
12"	.....	396.50
14"	.....	540.00
20"	.....	1012.00



## ROSS TELEROS LENS F/6.3.

### THREE POWER



The introduction of this new Teleros Lens marks a great advance in the production of fixed focus telephoto lenses. Giving an image almost three times as large as that given by an ordinary lens from the same standpoint, it brings almost every object, no matter how distant, within reach of an ordinary camera and that without extra camera extension.

To the Reflex worker, Pressman and Natural Life photographer it offers increased advantages on any other lens of its type, whilst the Architectural worker will be enabled to obtain a large image of many architectural bits hitherto beyond the reach of his lenses.

No lens of recent introduction can show such a marked effect on many branches of photography as will this really remarkable lens.

Having a sufficiently large aperture and giving most excellent definition, without stopping down, this lens can be used with every success for the fastest focal plane and speed photography.

Every Photographer of Sporting Events, or Natural Life, should add this remarkable lens to his outfit.

Equiv. Focus	Plate Covered	Price
9"	1¾ x 2½	\$ 78.50
13"	2½ x 3½	98.75
17"	3¾ x 4¾	149.75
25"	4¾ x 6½	320.00

## ROSS TELEROS LENS F/5.5

### TWO POWER

The Teleros Lens is an anastigmat lens of the highest quality with fixed separation between its component parts. Its quality is such that it can definitely be claimed to be by far the finest lens of its type. Consisting of a doublet in front and a triplet at back it has a back focus of slightly less than half of its equivalent focal length, giving therefore an image rather more than twice as large as that given by an ordinary lens at normal extension.

The Teleros is extremely light in weight, the disposition of the lenses and the method of mounting effecting a very considerable reduction in weight as compared with other lenses of its class. Being light and portable, with a comparatively small back lens, it is the ideal telephoto lens for small hand cameras of both Film and Plate type as well as for Reflex and Focal Plane Cameras of all sizes.

Optically the Teleros is a triumph. The quality of its definition is most marked, and at full aperture is equal to that given by the finest anastigmats. In fact, its correction for spherical aberration, astigmatism and coma are equivalent to those found in the best anastigmat lens with an equally flat field.



### TELEROS LENSES IN IRIS SETTINGS WITH THREADED BACK CELLS FOR SCREWING INTO SHUTTERS

Equiv. Focus	Acme	Lukos Express.	Campur
6"	No. 0	No. 0	No. 00 & 0
9"	No. 0	No. 0	No. 0
11"	No. 1	No. 1A	No. 1
12"	No. 2	No. 2	No. 1A
13"	No. 2	No. 2	No. 2 4/1
17"	No. 3	No. 3	No. 2 6/1

ROSS TELEROS LENS F/5.5

Equiv. Focus	Size Plate	Price Iris Setting
6¼"	1¾ x 2-5/16	\$ 68.00
9"	2½ x 3½	78.25
11"	3¼ x 4¼	95.00
12"	4 x 5	105.00
13"	3½ x 5½	114.00
17"	4¾ x 6½	187.00
22"	6½ x 8½	383.85
40"—F.8	6½ x 8½	694.00

ROSS TELEROS LENS F/5.5  
IN FOCUSING SETTINGS

Equiv. Focus	Price
6¼"	\$ 85.00
9"	95.00
11"	119.00
12"	128.75
13"	137.80



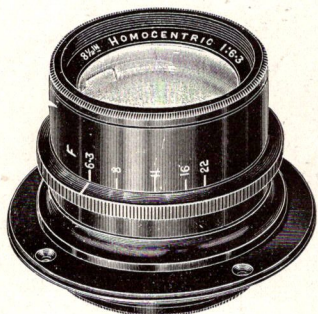
ROSS HOMOCENTRIC LENS F/6.3

The *f*/6.3 Homocentric Lens is an excellent anastigmat suitable for practically all branches of photography. In the smaller sizes it is most popular for small hand cameras. It gives perfect definition and covering power at full aperture.

IN FOCUSING MOUNTS AND COMPUR SHUTTERS

Equiv. Focus	Flange Sizes	Price in Focusing Mount	Compur Shutter No.	Price in Compur Shutter
in.	in.			
2¾			0	\$38.30
3½			0	38.30
4			0	39.85
5	1¾	\$44.50	0	43.65
5½	1¾	46.00	0	45.25
6	1¾	48.25	0	47.50
6½	2	50.00	1	54.35
7	2	57.50	1a	57.50
8½	2¼	69.75	2	72.00

## ROSS HOMOCESTRIC LENS F/5.6 AND F/8



The Homocentric Lenses have gained a world-wide reputation on account of their splendid correction and general excellence of quality. They are free from Zonal Spherical Aberration, and enlargements of any size show equally good definition of all parts of the picture. The  $f/5.6$  Homocentric Lens is an admirable lens for high speed work and general photography, and it gives critical definition at full aperture to the extreme edges of the plate. The components of the  $f/8$  Homocentric Lens can be used separately with a medium stop.

## PRICES FOR F/5.6 HOMOCESTRICS

No.	Equiv. Focus in.	Plate Covered in.	Price in Iris Setting
7	12	8 x 10	\$147.00
8	15	10 x 12	196.00
9	18	11 x 13	257.00
10	21	12 x 15	336.00
11	24	16 x 18	428.00

## PRICES FOR F/8 HOMOCESTRICS

No.	Equiv. Focus in.	Plate Covered in.	Price in Iris Setting
4	7	4 $\frac{3}{4}$ x 6 $\frac{1}{2}$	\$ 41.50
5	8 $\frac{1}{2}$	5 x 7 $\frac{1}{2}$	50.50
6	10	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	67.50
7	12	8 x 10	92.00
8	15	10 x 12	122.50
9	18	11 x 13	171.50
10	21	12 x 15	226.50
11	24	16 x 18	288.00

## ROSS HOMOCESTRIC LENS F/6.3

## IN IRIS SETTING

No.	Equiv. Focus in.	Plate Covered in.	Price in Iris Setting
1	5	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	\$ 33.75
2	5 $\frac{1}{2}$	3 $\frac{1}{2}$ x 4 $\frac{3}{4}$	35.50
3	6	4 x 5	37.50
3a	6 $\frac{1}{2}$	3 $\frac{1}{2}$ x 5 $\frac{1}{2}$	40.50
4	7	4 $\frac{3}{4}$ x 6 $\frac{1}{2}$	43.75
5	8 $\frac{1}{2}$	5 x 7 $\frac{1}{2}$	56.00
6	10	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	78.25
7	12	8 x 10	115.00
8	15	10 x 12	160.00

**ROSS PROCESS XPRES LENS**

FOR LINE, HALF-TONE AND THREE-COLOR WORK

The Process Xpres, has been specially designed to meet the most exacting requirements of all branches of modern process work. Free from spherical aberration, coma and astigmatism, its correctness for achromatism and distortion are of such a high order that the Process Xpres is unrivalled for three color photography and for the finest line and half-tone work.



Equivalent Focus	Aperture	Plate covered at full aperture copying same size	Price
13"	f 9	9 x 13	\$101.00
16"	f 10	12 x 15	130.00
18"	f 10	13 x 18	158.50
21"	f 10	16 x 20	187.50
25"	f 10	18 x 25	252.00
30"	f 16	20 x 30	324.00
36"	f 16	24 x 36	468.00
42"	f 16	30 x 40	612.00
48"	f 16	36 x 45	756.00

**ROSS APOCHROMATIC PROCESS XPRES LENS**

ESPECIALLY CORRECTED FOR COLOR PROCESS WORK

Equivalent Focus	Aperture	Plate covered at full aperture copying same size	Price
13"	f 9	9 x 13	\$162.00
16"	f 10	12 x 15	187.50
18"	f 10	13 x 18	216.90
21"	f 10	16 x 20	274.00
25"	f 10	18 x 25	346.00
30"	f 16	20 x 30	468.90
36"	f 16	24 x 36	612.00
42"	f 16	30 x 40	756.00
48"	f 16	36 x 45	900.00

**ROSS REVERSING PRISMS**

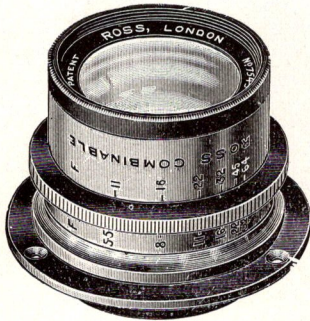
FOR PHOTO-MECHANICAL WORK

These Prisms are made of carefully annealed colorless crown glass and are accurately rectangular. The mount of the Prism screws directly to the hood of the lens, bringing one of the non-reflecting surfaces up to the front lens. The Prism is thus used to full advantage. The Hypotenuse surfaces are silvered to ensure complete reflection. To ensure accurate centering it is necessary to send your lens when ordering.

*Mounted in Metal Box with revolving Collar*

Lens No.	Equivalent Focus in.	Price
1	13	\$138.50
2	16	148.50
3	18	158.50
4	21	178.90
5	25	246.00
6	30	246.00
7	36	386.00
8	42	664.00
9	48	664.00

ROSS COMBINABLE LENS F/5.5 to F/6.3



The Ross Combinable Lens meets the requirements of the photographer who desires a lens which, in addition to high speed, gives a choice of focal length. The Ross Combinable Lens is made up of two separate components, each of which is a complete anastigmat lens in itself, and can be used separately if desired.

Thus, when the components are of equal focal length, the worker has a choice of two foci, and when the components are of unequal focal length, the choice of a third focal length is added.

The single lenses have an aperture of  $f/11$ . The complete lens has an aperture of  $f/5.5$  when the components are similar, and from  $f/5.7$  to  $f/6.3$  when the components are dissimilar.

Both the complete lens and the single lenses give exquisite definition and covering power at full aperture. The single lenses do not require stopping down to give perfect results, and can be used for snapshot exposures in a moderate light. They have, in addition, the well-known brilliance of image peculiar to single lenses.

PRICES OF SINGLE COMPONENTS, F/11

No.	Equiv. Focus	Plate covered	Price in Barrel with Iris	Price in Cell only	No.	Equiv. Focus	Plate covered	Price in Barrel with Iris	Price in Cell only
	in.	f/11 in.				in.	f/11 in.		
0	7	5 x 5	\$39.00	\$32.25	6	14 1/2	8 x 10	\$64.00	\$56.75
1	8	4 3/4 x 6 1/2	39.00	32.25	7	17	10 x 12	80.00	71.25
2	9 1/2	5 x 7 1/2	45.00	38.25	8	21	11 x 13	128.00	117.00
3	10 1/4	5 x 8	50.00	42.90	9	28	12 x 15	188.00	167.75
4	11 1/4	6 1/2 x 8 1/2	53.00	46.00	10	36	16 x 20	340.00	312.50
5	12 1/2	7 x 9	57.00	50.00					

PRICES OF COMPLETE LENSES, F/5.5 TO F/6.3

No.	Front Lens Focus	Back Lens Focus	Complete Lens Focus	Aperture	Plate covered	Prices in Brass setting with Iris
	in.	in.	in.		in.	
0	7	7	4	f/5.5	2 1/2 x 3 1/2	\$71.25
1	8	8	4 3/4	f/5.5	3 1/4 x 3 1/4	71.25
2	9 1/2	8	5 1/4	f/5.9	3 1/4 x 4 1/4	77.30
3	10 1/4	8	5 1/2	f/6.2	3 1/4 x 4 1/4	81.85
4	9 1/2	9 1/2	5 1/2	f/5.5	3 1/4 x 4 1/4	82.65
5	10 1/4	9 1/2	5 3/4	f/5.7	4 x 5	88.00
6	11 1/4	9 1/2	6	f/5.9	4 x 5	91.00
7	10 1/4	10 1/4	6	f/5.5	4 x 5	92.60
8	11 1/4	10 1/4	6 1/4	f/5.7	5 x 6	95.70
9	12 1/2	10 1/4	6 1/2	f/6.0	5 x 6	100.50
10	11 1/4	11 1/4	6 1/2	f/5.5	5 x 6	98.80
11	12 1/2	11 1/4	6 3/4	f/5.9	4 3/4 x 6 1/2	103.25
12	14 1/2	11 1/4	7 1/4	f/6.2	4 3/4 x 6 1/2	110.25
13	12 1/2	12 1/2	7 1/4	f/5.5	4 3/4 x 6 1/2	107.25
14	14 1/2	12 1/2	7 3/4	f/5.9	5 x 7	114.00
15	17	12 1/2	8 1/2	f/6.3	5 x 8	130.15
16	14 1/2	14 1/2	8 1/2	f/5.5	5 x 8	121.00
17	17	14 1/2	9 1/4	f/5.9	5 x 8	137.00
18	21	14 1/2	10	f/6.4	6 1/2 x 8 1/2	185.25
19	17	17	10	f/5.5	6 1/2 x 8 1/2	151.50
20	21	17	11	f/6.0	6 1/2 x 8 1/2	199.75
21	21	21	12	f/5.5	7 x 9	245.85
22	28	21	14	f/6.3	8 x 10	305.25
23	28	28	16 1/2	f/5.5	8 x 10	356.00
24	36	28	18 3/4	f/6.2	10 x 12	507.50
25	36	36	21	f/5.5	11 x 13	652.25

More than two single lenses may be used in the same setting. The size of the setting is determined by the longest focus lens. Each lens of three or more foci is supplied, without extra cost, with an adjustable ring indicating three or more scales of aperture, as required.



ROSS COMBINABLE LENS F/5.5 to F/6.3



The Ross Combinable Lens meets the requirements of the photographer who desires a lens which in addition to high speed gives a choice of focal length. The Ross Combinable Lens is made up of two separate components, each of which is a complete anastigmat lens in itself, and can be used separately if desired.

Thus, when the components are of equal focal length, the worker has a choice of two foci, and when the components are of unequal focal length, the choice of a third focal length is added.

The single lenses have an aperture of  $f/11$ . The complete lens has an aperture of  $f/5.5$  when the components are similar, and from  $f/5.7$  to  $f/6.3$  when the components are dissimilar.

Both the complete lens and the single lenses give exquisite definition and covering power at full aperture. The single lenses do not require stopping down to give perfect results, and can be used for snapshot exposures in a moderate light. They have, in addition, the well-known brilliance of image peculiar to single lenses.

SETS OF ROSS COMBINABLE LENSES

These sets cover a wide range of focal length and provide the user with a battery of lenses suitable for all classes of photographic work. The lenses are interchangeable in the setting, and each setting is fitted with an adjustable ring showing the various diaphragm scales.

No. 1 Set,  $3\frac{3}{4} \times 4\frac{1}{2}$ ,

Consisting of Single Lenses Nos. 1, 2 and 3, interchangeable in setting.

No.	Front Lens	Back Lens	Combined Focus	Largest Aperture	Plate covered	Price
1	—	8 in.	Single	$f/11$	$4\frac{3}{4} \times 6\frac{1}{2}$ in.	\$122.50 including Ring with Scales of Apertures and Screen Ring in Case complete.
2	—	$9\frac{1}{2}$ in.	Single	$f/11$	5 x $7\frac{1}{2}$ in.	
3	—	$10\frac{1}{4}$ in.	Single	$f/11$	5 x 8 in.	
4	$9\frac{1}{2}$ in.	8 in.	$5\frac{1}{4}$ Single	$f/5.9$	$3\frac{1}{4} \times 4\frac{1}{4}$ in.	
5	$10\frac{1}{4}$ in.	8 in.	$5\frac{1}{2}$ Single	$f/6.2$	$3\frac{1}{4} \times 4\frac{1}{4}$ in.	
6	$10\frac{1}{4}$ in.	$9\frac{1}{2}$ in.	$5\frac{3}{4}$ Single	$f/5.7$	4 x 5 in.	

No. 2 Set,  $4\frac{3}{4} \times 6\frac{1}{2}$ ,

Consisting of Single Lenses Nos. 3, 4, 5 and 6 with setting.

No.	Front Lens	Back Lens	Combined Focus	Largest Aperture	Plate covered	Price
1	—	$10\frac{1}{4}$ in.	Single	$f/11$	5 x 8 in.	\$208.25 including Ring with Scales of Apertures and Screen Ring in Case complete.
2	—	$11\frac{1}{4}$ in.	Single	$f/11$	$6\frac{1}{2} \times 8\frac{1}{2}$ in.	
3	—	$12\frac{1}{2}$ in.	Single	$f/11$	7 x 9 in.	
4	—	$14\frac{1}{2}$ in.	Single	$f/11$	8 x 10 in.	
5	$11\frac{1}{4}$ in.	$10\frac{1}{4}$ in.	$6\frac{1}{4}$ Single	$f/5.7$	5 x 6 in.	
6	$12\frac{1}{2}$ in.	$10\frac{1}{4}$ in.	$6\frac{1}{2}$ Single	$f/6.0$	5 x 6 in.	
7	$12\frac{1}{2}$ in.	$11\frac{1}{4}$ in.	$6\frac{3}{4}$ Single	$f/5.9$	$4\frac{3}{4} \times 6\frac{1}{2}$ in.	
8	$14\frac{1}{2}$ in.	$10\frac{1}{4}$ in.	7 Single	$f/6.4$	$4\frac{3}{4} \times 6\frac{1}{2}$ in.	
9	$14\frac{1}{2}$ in.	$11\frac{1}{4}$ in.	$7\frac{1}{4}$ Single	$f/6.2$	$4\frac{3}{4} \times 6\frac{1}{2}$ in.	
10	$14\frac{1}{2}$ in.	$12\frac{1}{2}$ in.	$7\frac{3}{4}$ Single	$f/5.9$	5 x 7 in.	

No. 3 Set,  $6\frac{1}{2} \times 8\frac{1}{2}$ ,

Consisting of Single Lenses Nos. 5, 6, 7 and 8 with setting.

No.	Front Lens	Back Lens	Combined Focus	Largest Aperture	Plate covered	Price
1	—	$12\frac{1}{2}$ in.	Single	$f/11$	7 x 9 in.	\$312.00 including Ring with Scales of Apertures and Screen Ring in Case complete.
2	—	$14\frac{1}{2}$ in.	Single	$f/11$	8 x 10 in.	
3	—	17 in.	Single	$f/11$	10 x 12 in.	
4	—	21 in.	Single	$f/11$	11 x 13 in.	
5	$14\frac{1}{2}$ in.	$12\frac{1}{2}$ in.	$7\frac{3}{4}$ Single	$f/5.9$	5 x 7 in.	
6	17 in.	$12\frac{1}{2}$ in.	$8\frac{1}{2}$ Single	$f/6.3$	5 x 8 in.	
7	17 in.	$14\frac{1}{2}$ in.	$9\frac{1}{4}$ Single	$f/5.9$	5 x 8 in.	
8	21 in.	$14\frac{1}{2}$ in.	10 Single	$f/6.4$	$6\frac{1}{2} \times 8\frac{1}{2}$ in.	
9	21 in.	17 in.	11 Single	$f/6.0$	$6\frac{1}{2} \times 8\frac{1}{2}$ in.	

# DALLMEYER LENSES

## DALLMEYER SERRAC LENSES

SERIES XV.  $f/4.5$

*Lens in Sunk Mount*

*A Super-fast  $f/4.5$  Anastigmat Lens*



The Dallmeyer Serrac Lens marks a new era in the construction of large-aperture anastigmat lenses. Four glasses of exceptional transparency are used, two cemented behind the diaphragm and two un-cemented in front.

The Serrac differs from other  $f/4.5$  anastigmat lenses inasmuch as the diameter of the back glass is approximately equal to that of the front, thus providing more equal illumination to the extreme corners of the plate. It is absolutely free from glare, so prevalent in lenses of large aperture, and owing to the small number of glasses employed, with only two air-spaces, a very small quantity of light is absorbed in passing through the lens.

The definition given by the Serrac lens is perfect to the corners of the plate and will stand considerable enlargement. The circle of illumination is large and consequently allows the full use of the rising front.

### SERRAC SERIES XV. $f/4.5$

Plate Size in.	Focal Length	Rigid or Sunk	Focusing Mt.
$1\frac{3}{4} \times 2\frac{3}{8}$	3 in.	\$44.00	\$56.00
$2\frac{1}{4} \times 3\frac{1}{4}$	4 in.	44.00	56.00
$2\frac{1}{2} \times 3\frac{1}{2}$	$4\frac{1}{2}$ in.	51.50	63.50
$2\frac{1}{2} \times 3\frac{1}{2}$	$4\frac{3}{4}$ in.	56.00	67.50
$3\frac{1}{4} \times 4\frac{1}{4}$	5.3 in.	59.50	71.50
4 x 5	6 in.	67.50	87.50
$3\frac{1}{2} \times 5\frac{1}{2}$	$6\frac{1}{2}$ in.	79.50	91.50
$4\frac{3}{4} \times 6\frac{1}{2}$	7 in.	83.50	95.50
$4\frac{3}{4} \times 6\frac{1}{2}$	$7\frac{1}{2}$ in.	87.50	99.50
5 x 7	8 in.	109.50	111.50
5 x 7	$8\frac{1}{2}$ in.	115.50	127.50
5 x 8	10 in.	135.50	167.00
$6\frac{1}{2} \times 8\frac{1}{2}$	12 in.	215.00	247.00
$6\frac{1}{2} \times 8\frac{1}{2}$	14 in.	278.50	313.00
8 x 10	16 in.	382.50	422.00
10 x 12	18 in.	462.00	517.50

## DALLMEYER PENTAC LENSES

SERIES XIX.  $f/2.9$

*Lens in Sunk Mount*

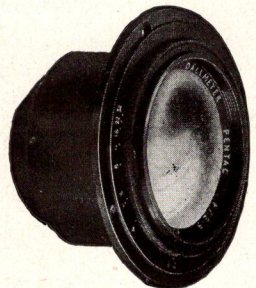
*The lens for Interior Snapshots without Flashlight*

The Dallmeyer Pentac Anastigmat Lens, having an aperture of  $f/2.9$ , creates a new standard in lenses of extreme aperture.

The field is exceptionally flat over a large angle, the definition critical to the extreme corners of the plate. Coma, Spherical Aberration, Astigmatism and Color, have all been corrected in the computation of this unique lens.

The aperture  $f/2.9$  is approximately 50% more rapid than an  $f/3.5$  Lens, with the result that photographs can be taken under most unfavorable conditions of lighting. This extreme aperture has been obtained without any loss of definition.

The short focal length Pentac Anastigmat Lenses are especially useful for fitting to 35 mm. Professional Cine Cameras, the definition being critical over the entire film, while those of 8 inches focus and over are ideal for portraiture. They can be supplied if desired in an adjustable mount enabling soft pictures to be obtained at will.



PENTAC LENS SERIES XIX. *f*/2.9

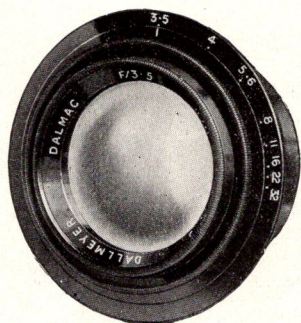
Plate Size in.	Focal Length	Rigid or Sunk	Focusing Mt.
16 mm. film	1 in.	\$69.50	\$79.50
35 mm. film	1½ in.	69.50	79.50
1 x1¼	2 in.	69.50	79.50
1½ x2⅝	3 in.	83.50	93.50
2 x3	4 in.	87.50	99.50
2¼ x3¼	4¼ in.	90.50	101.50
2½ x3½	5 in.	111.50	126.50
3¼ x4¼	5½ in.	115.50	135.50
3¾ x4¾	6 in.	119.50	143.50
4 x5	6½ in.	123.50	147.50
4 x5	7 in.	123.50	147.50
4 x5	8 in.	175.00	207.00
4¾ x6½	10 in.	255.00	286.50
5 x7	12 in.	318.50	340.50

DALLMEYER DALMAC LENSES

SERIES XXII. *f*/3.5

*Lens in Sunk Mount*

*For All-round Photography on Dull Days*



The *f*/3.5 "Dalmac" anastigmat lens has been computed to meet the increasing demand for a large aperture anastigmat capable of giving definition equal in all respects to the *f*/4.5 lens, and sufficient depth to allow of its use for general all-round work, on existing cameras.

The "Dalmac" shows considerable advance in large aperture lens construction, the field is flat and perfect definition obtained over the entire plate for which the lens is listed. The circle of illumination and good definition is sufficient to allow of the use of the rising front.

The flange diameters being small, the "Dalmac" can be fitted to Reflex and Focal-plane cameras.

The "Dalmac" lens can also be supplied mounted in Compur and Compound and other makes of between-lens shutters for use on some Folding Hand Cameras.

"Dalmac" lenses in the longer foci are eminently suitable for portraiture.

THE "DALMAC" ONLY REQUIRES HALF THE EXPOSURE OF AN *f*/4.5 LENS

Plate Size in.	Focal Length	Iris Mt. Rigid or Sunk	Focusing Mt.
35 mm. film	2 in.	\$47.50	\$56.00
1¾ x2⅝	3 in.	57.50	67.50
2¼ x3¼	4 in.	61.50	71.50
2¼ x3¼	4¼ in.	65.50	75.50
2½ x3½	4¾ in.	73.50	85.50
3 x4	5 in.	77.50	90.50
3¼ x4¼	6 in.	94.50	105.50
4 x5	7 in.	109.50	119.50
3¾ x5½	7½ in.	115.50	127.50
4¾ x6½	9 in.	159.50	175.00
4¾ x6½	10 in.	191.00	205.50
5 x8	12 in.	255.00	271.00
6½ x8½	15 in.	398.00	438.00

## DALLMEYER TELEPHOTO F.4.5

SERIES XI.  $f/4.5$

*Lens in Rigid Mount*



The New Large Adon is a fixed-separation telephoto lens of large aperture, designed to meet the requirements of Photographers who wish for a lens of long focus and large aperture, but have not sufficient camera extension to allow of the use of an ordinary long-focus lens.

The magnification is approximately 2 linear—*i.e.*, 4 times increase in area.

The camera extension necessary for objects at infinity is approximately half the equivalent focal length of the lens.

The aperture  $f/4.5$  allows photographs to be taken under most unfavorable conditions of lighting.

For portraiture the enhanced perspective and improved modelling is very appreciable.

The Lenses are mounted in aluminum alloy, finished black enamel, with a small flange diameter suitable for use on Reflex and Focal Plane Cameras. A Lens Hood can be supplied at a small extra charge. In the longer focal lengths they are ideal for professional portraiture.

The New Large Adon is complete in itself, and as simple to use as an ordinary lens. Exposures are the same as for all other lenses of the same aperture, but the pictures are on double the scale.

### F 4.5 DALLMEYER TELEPHOTO LENS

Plate Size in.	Focal Length	Rigid Mt.	Focusing Mt.	Lens Hood
$\frac{3}{4}$ x1	6 in.	\$71.50	\$87.50	\$1.50
$2\frac{1}{4}$ x $3\frac{1}{4}$	9 in.	87.50	111.50	2.20
$2\frac{1}{2}$ x $3\frac{1}{2}$	10 in.	95.50	125.50	2.40
$3\frac{1}{4}$ x $4\frac{1}{4}$	12 in.	111.50	139.50	2.55
4 x5	14 in.	135.50	163.50	2.55
$3\frac{1}{2}$ x $5\frac{1}{2}$	17 in.	183.00	215.00	2.95
$4\frac{3}{4}$ x $6\frac{1}{2}$	20 in.	263.00	295.00	4.00
5 x7	24 in.	398.00	438.00	5.50

## DALLMEYER TELEPHOTO LENS

SERIES VI.  $f/5.6$ . F8.

Dallon fixed-separation telephoto lenses are manufactured in four different series.

They are the smallest, lightest, cheapest, and by far the best fixed-separation telephoto lenses made.

The camera extension required is only approximately half the equivalent focal length of the lens, thus two linear magnifications are obtained—*i.e.*, an increase in area of approximately 4 times.

The Series VI Dillons work at an aperture of  $f/5.6$ , and are supplied in focal lengths from 4" to 24". They are eminently suitable for use on Reflex and Focal-Plane Cameras and can usually be supplied with a suitable thread making them interchangeable with the ordinary lens fitted.

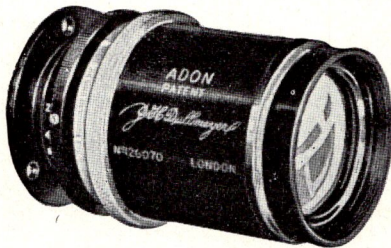


SERIES VI F5.5 TELEPHOTO

Plate Size in.	Focal Length	Rigid Mount	Focusing Mt.
24x36 mm.	4 in.	\$40.00	\$47.50
4½x6 cm.	6 in.	63.50	67.50
2¼x3¼	9 in.	87.50	111.50
2½x3½-3¼x4¼	10 in.	95.50	123.50
3¼x4¼	11 in.	103.50	131.50
3¼x4¼-4x5	12 in.	111.50	139.50
3½x5½	14 in.	135.50	163.50
4¾x6½	17 in.	183.00	215.50
5x7	20 in.	263.00	295.00
6½x8½	24 in.	358.50	
6½x8½	40 in.(F.8)	596.50	650.00

ADON TELEPHOTO LENS

*Adjustable Type—Multiple Focus*



The Adon is a variable-focus Telephoto Lens complete in itself, giving results superior to those obtained with a good positive Lens and Telephoto Attachment. It is designed for use alone having a flange diameter of only 1.15 inches, which small diameter enables it to be used in the front of a No. 08 Compur shutter after the front and back components of the ordinary lens have been removed. It may be used on all sizes of cameras employing a focusing screen, the covering power being power only limited by the extension available.

The Adon is composed of two achromatic combinations, the front a positive lens of 4½ inches focal length and the back a negative lens of 2¼ inches focal length. The optical interval is controlled by a neat micrometer movement allowing great accuracy in focusing.

At the same extension as the ordinary lens, the Adon gives three linear magnifications—*i.e.*, an increase in area of nine times. By reason of its simplicity in construction, internal reflecting surfaces are eliminated and brilliant pictures obtained.

A 1-inch Negative Lens can be supplied which is readily interchangeable with the 2¼-inch Negative. By its use, approximately double the magnification is obtained over the normal Negative fitted considering equal camera extension. The aperture is reduced accordingly also the circle of illumination and covering power.

The aerial magnification given by the Adon is preferable to the mechanical magnification obtained by an enlarger, as in the latter case the grain of the negative is magnified.

Although the Adon is a Telephotographic Lens, it must not be imagined that its use is limited to distant objects. It can be used to advantage for Architecture Landscapes, Natural History Work, etc.

The Adon weights approximately 7 ozs. and is fitted with metal Iris Diaphragm.

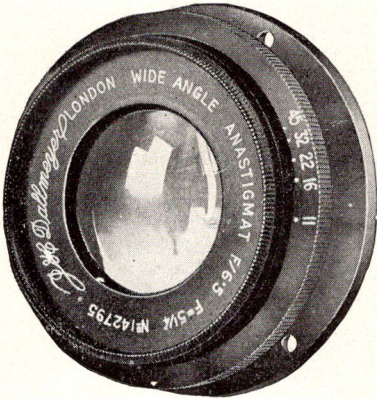
The Adon Lens in Micrometer Foc. Mount, complete with flange .....\$56.00

## DALLMEYER "WIDE ANGLE" ANASTIGMAT LENS

$f/6.5$  FOR FOCUSING.  $f/11$  FOR TAKING.

*Angle 100° approx.*

*Anastigmat Type. Series XXIII.*



Dallmeyer Wide Angle Anastigmat Lenses are of entirely new design and far superior to lenses of the rectilinear type previously issued.

The difficulty in focusing with a small aperture of say  $f/16$  has been overcome.

The full aperture of  $f/6.5$  can be used for focusing and even in dull interiors this large aperture enables objects to be focused without the use of local artificial light.

Used at the maximum working aperture of  $f/11$ , these lenses embrace a very wide angular field which renders them particularly valuable for photographing buildings, interiors, machinery and the like. At  $f/16$  they cover perfectly the plate for which they are listed, allowing of normal rise or falling front.

At smaller apertures the angle in some cases exceeds  $100^\circ$ .

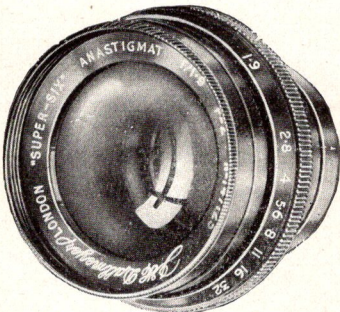
The field is exceptionally flat, and the definition critical to the extreme corners of the plate. Anastigmat, coma, distortion, color and spherical aberration have all been corrected. The focal length always remains constant whatever aperture is used for exposure. This is a most important point and not usually found in lenses of this type.

Plate Size in.	Focal Length	Price
$2\frac{1}{2} \times 3\frac{1}{2}$	$2\frac{3}{8}$ in.	\$42.00
$\frac{1}{4}$ pl. or $3\frac{1}{2} \times 5\frac{1}{2}$	$3\frac{1}{4}$ in.	44.00
5x7	$4\frac{1}{4}$ in.	45.50
$6\frac{1}{2} \times 8\frac{1}{2}$	$5\frac{1}{4}$ in.	54.00
8x10	$6\frac{1}{4}$ in.	60.00
10x12	$7\frac{7}{8}$ in.	67.50
12x15	9 in.	77.50

## THE NEW DALLMEYER SUPER-SIX ANASTIGMAT LENSES

$f/1.9$  EXTREME APERTURE.  $f/1.9$  EXTREME ANGLE.

*2" f/1.9 Super-Six Anastigmat Lens in Rigid Iris Mount*



With the object of supplying the Photographer with an extreme aperture anastigmat lens capable of giving a large angle of critical definition for both Photographic and Cinematographic purposes, we have computed a special combination of glasses giving remarkable results.

The Dallmeyer Super-Six Anastigmat Lenses have been named after the number of glasses which are employed in their construction. Only the finest crystal-clear British Optical Glass of good-weathering quality is used, thereby ensuring the maximum light-passing-power and brilliancy of image. The iris of each lens is clearly engraved with the Royal Photographic Society's standard apertures  $f/1.9$ ,  $f/2.8$ ,  $f/4$ ,  $f/5.6$ ,  $f/8$ ,  $f/11$ ,  $f/16$ .

These new lenses give a critically sharp image over an angle of approximately 50 degrees, which image will stand considerable subsequent enlargements. They are fully corrected for Astigmatism, Spherical Aberration, Coma, Distortion, Flare and Color, and we have every confidence in recommending this series of Anastigmat Lenses for the most highly scientific and exacting work.

Each combination is securely burnished in its cell, thereby ensuring perfection in centering. The mounts are made of brass, black enamelled and fitted with Iris Diaphragm.

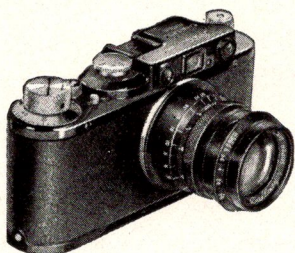
FOR STILL PHOTOGRAPHY

The 3-inch, 4-inch and 6-inch lenses are specially suited for photographic purposes. Due to the large glass diameter we have to employ to retain the aperture of  $f/1.9$ , and the short back-focus, the number of cameras to which they can be fitted is limited, thereby seriously restricting their commercial application. We, however, will be only too pleased to offer advice as to the possibilities of fitting these new lenses to such cameras as Reflex and Folding Focal-plane.

Plate Size mm.	Focal Length ins.	Back Focus ins.	Iris Mount	Focusing Mt.
19x25.4	1 in.	0.764	\$103.50	\$111.50
19x25.4	1¼ in.	0.95	103.50	111.50
19x25.4	1½ in.	1.15	103.50	111.50
19x25.4	1¾ in.	1.33	111.50	119.50
24x36	2 in.	1.525	94.50	103.50
24x36	2¼ in.	1.65	119.50	131.50
24x36	2½ in.	1.9	126.50	139.50
4½x6 cm.	3 in.	2.29	135.50	141.50
2¾x3¼ in.	4 in.	3.06	199.00	230.00
3¼x4¼ in.	6 in.	4.58	318.50	334.50

DALLMEYER LENSES FOR LEICA CAMERAS

*Dallmeyer Super-Six 2" focus  $f/1.9$  Anastigmat Lens fitted to Leica Camera*



The House of Dallmeyer has been manufacturing Lenses for Photographic and Cinematograph purposes for over seventy-five years, during which time they have built up an unassailable reputation for quality Lenses—lenses fully corrected for Astigmatism, Coma, Distortion, Flare, Spherical Aberration, Color, etc. Many British letter-patents stand in the name of Dallmeyer covering improvements in the design of lenses for photographic and allied purposes.

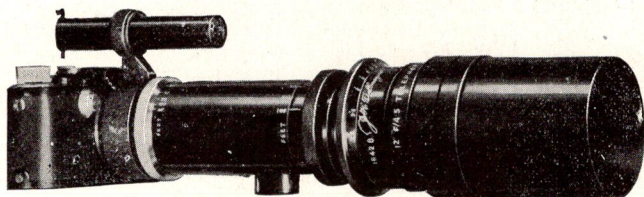
With the introduction of the Model 1 Leica Camera, with its 2 in.  $f/3.5$  lens using 35 mm. Cine film, the need for supplementary lenses became evident and the 4-in.  $f/5.6$  (2 linear magnification) "Dallon" fixed-separation Tele-Anastigmat Lens was placed on the market, to be followed by the 3-in.  $f/2.9$  (1½ linear magnification) "Pentac" Anastigmat Lens. These two lenses met with instant success, and large numbers are now in the hands of satisfied users.

When Leica Cameras were modified and fitted, in addition to the range finder, with a large O Universal flange having a fixed-standard distance of 28.8 mm. from face of flange to sensitized surface of film, it became possible to use still larger aperture lenses. Our designing staff were eventually successful in computing a new Anastigmat having the extreme aperture of  $f/1.9$ , with the same equivalent focal length as the normal lens fitted to the Leica—*i.e.*, 2 in. (52 mm.). This new lens has been named the "Super Six" on account on its six-glass construction and super angle of approx. 50°. The use of this unique lens opens up enormous possibilities on account of its large aperture and great covering power. Pictures in the Theatre, Home and Streets are now possible, employing fine-grain super-sensitive film and a slow shutter speed.

The definition over the entire film is even and extremely sharp, allowing for the usual enlargement generally associated with negatives taken with this precision-made instrument.

The design, raw material, glass and metal work are British throughout, and we have every confidence in stating that the lens cannot be equalled the world over. Every care has been taken in the accurate setting and scaling. The threaded portion of the mount which fits the Leica flange, is made from tools specially prepared for these lenses, a master steel gauge eliminating any possibility of non-interchangeability.

The 2-in. Super-Six Anastigmat is fitted in a novel non-rotating micrometer focusing mount of our own design which allows the lens to be focused on near objects and further actuates the rangefinder incorporated in the camera. The scaling on the mount coincides with the normal lens, and a depth of focus scale is also engraved.



12-in. f/4.5 Telephoto Lens fitted to Leica Camera

High-power Telephoto work is well within the scope of this precision camera when fitted with a Dallmeyer Telephoto Lens.

The illustration above, shows a 12-in. f/4.5 Telephoto Lens fitted to a Leica Model III which gives 6 linear magnifications—i.e., 36 times increase in area. Other Telephoto Lenses ranging in focal length from 4 in. are listed, covering practically every possible requirement.

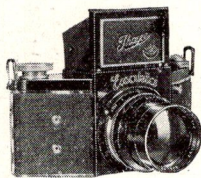
LEICA LENSES

2" F 1.9 Dallmeyer Super Six Anastigmat .....	\$103.50
3" F 2.9 Dallmeyer Pentac Anastigmat .....	95.50
4" F 5.6 Dallon Tele-Anastigmat .....	50.00
6" F 5.6 Dallon Tele-Anastigmat .....	104.00
9" F 5.6 Dallon Tele-Anastigmat .....	153.50
12" F 5.6 Dallon Tele-Anastigmat .....	247.50
12" F 4.5 New Large Adon Telephoto .....	247.50

DALLMEYER LENSES FOR EXAKTA FOCAL-PLANE REFLEX CAMERA

f/1.9    f/2.9    f/8.5    f/4.5

Model B Exakta



The Exakta Vest-Pocket Reflex Camera, takes 4x6.5 cm. (1 5/8"x2 1/2") pictures on standard vest-pocket roll film.

The pictures can be seen in the full-size reflecting finder in accordance with normal Reflex practice, exact in size and detail. Focusing is carried out by means of the milled focusing ring situated behind the lens, a scale being provided in case the reflex action is not employed. By this means it is possible to use the camera as a press-type-focal-plane, or alternatively as a reflex.

The same knob that winds the films, also sets the focal-plane shutter, thereby avoiding any possibility of double-exposure.

Model B has an auxiliary control by means of which slow speeds from 1/10th second to 12 seconds can be given or with delayed action control, speeds from 6 seconds to 1/1000th, the delayed action control allowing 12 seconds to elapse after the release has been pressed before the shutter operates. The various Dallmeyer lenses fitted are all instantly removable and can be replaced with a 6" f/5.6 Dallon Tele-Anastigmat Lens, giving two linear magnifications—i.e., 4 times increase in area, or alternatively with the 2 3/8" Dallmeyer Wide-Angle Lens.

LENS FOR EXAKTA CAMERAS

6"	F 5.6	Dallon Tele-Anastigmat .....	\$65.50
2 3/8"		Dallmeyer Wide-Angle Anastigmat .....	50.00
3"	F 2.9	Dallmeyer Pentac Anastigmat .....	83.50
3"	F 3.5	Dallmeyer Dalmac Anastigmat .....	59.50
3"	F 1.9	Dallmeyer Super-Six Anastigmat .....	135.50



**WRATTEN SAFELIGHTS**

These safelights consist of one or two sheets of glass coated with gelatin film in colors which combine to give the greatest possible intensity of light consistent with safety when used as recommended.

*Series 00.* A clear yellow for use with Velox, Azo, or similar papers.

*Series 0.* A bright orange for use with Bromide Paper and Lantern Slide Plates.

*Series 0A.* A greenish yellow safelight for use with the same materials as the Series 0 but giving better light for judging prints.

*Series 1.* An orange-red safelight for use with Films and Plates which are not sensitive to either red or green.

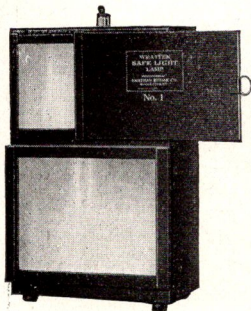
*Series 2.* A red safelight for Verichrome Film and extra rapid and Orthochromatic Film or Plates which are sensitive to green, but not to red.

*Series 3.* A green safelight for use with the Panchromatic Film or Plate. Its faint illumination grows quite strong as the eyes become accustomed to it.

*Wratten Safelight Special* (10x12 size only), for use only with indirect lighting for developing negative film.

	5x7	8x10	10x12
Wratten Safelights, any series .....	\$ .68	\$1.13	\$1.58

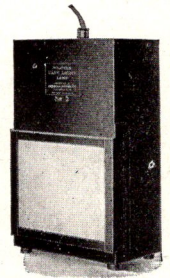
**WRATTEN SAFELIGHT LAMPS Nos. 1 and 2**



These lamps are so constructed that only reflected light passes through the safelight, assuring evenness of diffusion. The electric globe is in the top of the lamp, and a curved reflector extends to the bottom.

The safelight glasses are 8x10 inches, affording ample illumination for the inspection of large negatives.

The upper half of the No. 1 Lamp, shown at the left, is fitted with a sheet of opal glass for white light illumination, and is covered with a light-tight sliding shutter.



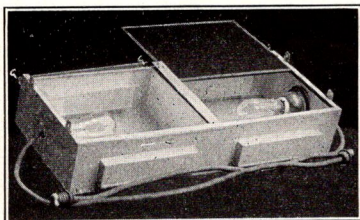
The No. 2 Lamp, illustrated at right, is of the same height and similarly constructed, but it does not have the upper opal glass or slide.

These lamps include electric lamp attachment with 26-inch cord and plug, and one safelight. The electric bulb, which should be 25 watts, is not supplied.

When no safelight is specified, the Series 2 will be supplied .

	No. 1	No. 2
Wratten Safelight Lamp, including Safelight, cord and plug	\$9.00	\$7.20
Extra Safelight for Wratten Safelight Lamp, any series, each	1.13	1.13

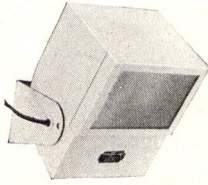
**INDIRECT LIGHT BOXES**



These metal boxes are intended to be swung by chains from the ceiling. Single boxes use one 10x12 safelight or one white light; double boxes use one of each, or two different safelights, as desired. Cord and plug are included but not safelights or electric bulbs.

Indirect Light Box without	Single	Double
safelight bulb, or chains .....	\$6.75	\$12.60
Wratten safelight, any series, 10x12.....		1.58

**KODAK SAFELIGHT LAMP**

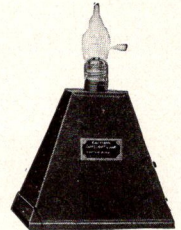


This lamp has the upper light chamber so that only reflected rays strike the Safelight. It is fitted with an adjustable bracket, which permits tilting the lamp at almost any angle, and has a 5x7 Safelight (Series 2 supplied unless otherwise specified). It is made of metal--includes electric fittings and 4½ feet of cord with plug, but not the 25-watt electric lamp.

Kodak Safelight Lamp, including one Safelight..... \$ 3.60  
 Extra 5x7 Safelights, any series, each..... .68

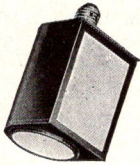
**EASTMAN SAFELIGHT LAMP**

This lamp may be attached either to a drop cord or a wall socket and is especially convenient where an overhead light is desired. The lamp takes a 5x7 Wratten Safelight, the Series 2 being supplied unless otherwise specified. As the light is direct, a 10-watt bulb (not supplied) should be used.



Eastman Safelight Lamp, including one Safelight, screw plug and socket ..... \$ 2.70  
 Extra 5x7 Safelights, any series, each..... .68

**BROWNIE SAFELIGHT LAMP**



This lamp fits the standard electric socket, is made of metal, neatly japanned, and is only a trifle larger than the 10-watt Mazda bulb it holds. Has a circular, removable safelight in end, and larger, removable safelight in side, both Series 2, unless otherwise specified. Electric bulb not supplied.

Brownie Safelight Lamp, including Safelights..... \$ 1.58  
 Extra Safelights, each, Circular ..... .25  
 Do., Rectangular ..... .40

**LENS BOARDS**

**EASTMAN, CENTURY VIEW**

33A .....\$1.00  
 5x7 ..... 1.00  
 11x14 ..... 1.25  
 8x10 ..... 1.25

**GUNDLACH**

4x5 .....\$ .99  
 5x7 ..... .90  
 6½x8½ ..... .90  
 8x10 ..... 1.00  
 11x14 ..... 1.25

**GRAFLEX — ALL MODELS**

3¼x4¼ .....\$ .75  
 4x5 ..... .90  
 5x7 ..... 1.50  
 R. B. Enlarger 8x10 ..... .80  
 Crown E. R. & C. Camera ..... 2.50  
 Century Universal ..... 1.25

**STUDIO CAMERAS**

9x9 .....\$1.58  
 10x10 ..... 1.80

**GRAPHIC**

New Model 4"x4" .....\$1.50  
 Old Model 3½"x4¼" ..... .75  
 5x7 Graphic 4"x4" ..... 1.50

**ANSCO LENS BOARDS**

8x10 View .....\$1.25      Junior View ..... 1.00

# LIGHTS

## JOHNSON VENTLITE PORTABLE OUTFITS

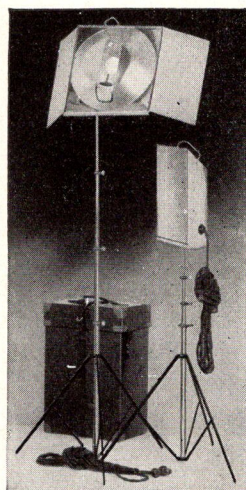
Single Kompakt Ventlite Outfit .....	\$41.85
Double Kompakt Ventlite Outfit .....	79.20
Home Portrait Ventlite Outfit .....	65.25
Hilite Ventlite Jr. Outfit .....	23.40
Single Cine Ventlite Outfit .....	34.20
Double Cine Ventlite Outfit .....	64.80
Studio Ventlite with Stand .....	49.95

### DIFFUSERS

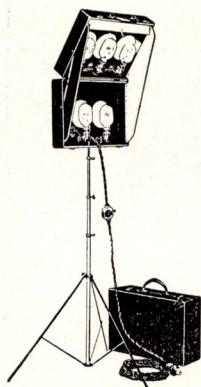
For Kompakt Ventlite and Cine Ventlite reflectors made of best English tracing cloth, mounted on aluminum strips with aluminum rods for fastening .....\$2.25

### REFLECTORS

Kompakt Ventlite Reflector .....	\$21.70
Kompakt Ventlite Reflector with wings .....	23.40
Cine Ventlite Reflector .....	17.10
Ceiling Ventlite .....	18.00
Studio Ventlite Reflector .....	22.50
Kompakt Ventlite Junior Reflector .....	11.25
Hilite Ventlite Junior Reflector .....	13.50



*Cine Ventlite*



*Home Portrait Electric Lamp*

**HALLDORSON HOME PORTRAIT LAMP.** Meets the need of the home portrait photographer, it is compact and takes up but little space when folded. Can be used as two separate units if desired. Takes 500 watt T20 Lamps.

Complete as illustrated, without Lamps .....\$45.00

Same as above but with pull chain sockets. ....\$49.50

### HALLDORSON ELECTRIC STUDIO LAMP Jr.

Price .....\$88.20

**HALLDORSON ELECTRIC STUDIO LAMP.** Gives sufficient light for single figures and groups. The rounded top throws the light downward, thus doing away with tilting.

Size of Lamp 36x54 in.—base 2½ ft.—height—8¼ ft. Complete with 25 ft. of cable. Takes 1500 watt, P. S. Photo Blue Lamps. Price without Lamps .....\$121.50



*Halldorson Electric Studio Lamp*

### No. 32 UNIVERSAL SUN-RAY LAMP

The No. 32 Lamp is the very latest innovation in photo lamp construction. Due to its special moulding and entirely new process of edging, we succeeded to produce a grade of illuminating efficiency never obtained before.

The lamp is made of heavy gauge aluminum measuring 13 inches in diameter by 6 inches in depth. It has a beautiful black crystal finish on the outside and our new process edging on the inside.

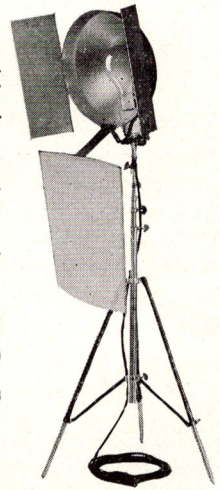
It is designed to be used with a 1000 Watt tubular or No. 4 photo-flood bulb.

No 32A Outfit—Consisting of two No. 32 lamps; two No. 32 tripods; one extension cord, one carrying case..... \$40.00  
Above outfit but including two sets 2-way side shields..... 47.00

No. 32B Outfit—Similar to No. 32A outfit ut with two No. 5 tripods and including two diffusing curtains and shields ..... \$62.50

- No. 32 lamp only ..... \$11.00
- No. 32 lamp with No. 2 tripod..... 16.50
- No. 32 with No. 2 tripod and 2-way side shields ..... 20.00
- No. 32 with No. 5 tripod, 2-way side shields and diffusion curtain ..... 28.00

- Carrying case for two lamps, two tripods, side shields ..... 6.50
- Extra heavy carrying case ..... 8.50
- Carrying case for lamp only..... 3.50

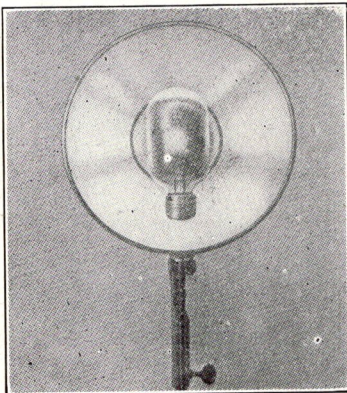
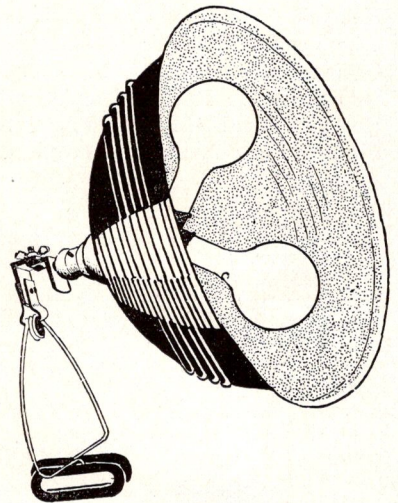


*Complete Price List of Acme Sunray Lighting Equipment of Request*

### MEDO CLAMP REFLECTOR

Polished aluminum outside, frosted inside, over 10" diameter reflector which has sufficient depth to permit two Photoflood Bulbs to be burned therein and still concentrate light over a small area without getting the light into the camera.

Nickel-plated, push button, special high heat sockets, double socket included .....\$1.50

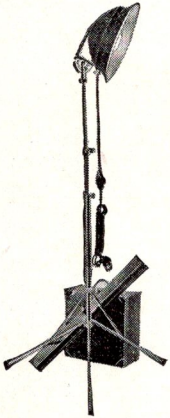


### SOLITE

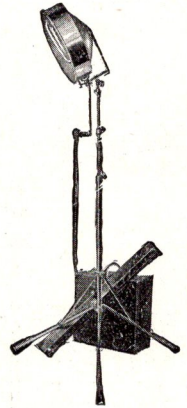
- Solite Single Reflector only ..... \$7.50
- Junior Stand ..... 5.00
- 20 Ft. Rubber Cable ..... 2.00
- Senior Stand ..... 9.00
- Concentrator Lens ..... 4.50
- Complete Kit—Consisting of 3 Solites, 1 Junior and 1 Senior Tripod, 2—20 ft. rubber cables; cross-bar for multiple mounting. Complete in sturdy case .....42.50

FOTOLITES

No. 5 Reflector— 500 Watt .....	\$ 6.00
No. 10 Reflector—1000 Watt .....	11.00
No. 15 Reflector— 500 Watt .....	11.00
No. 10 & No. 15 Stands up to 6 feet .....	5.90
No. 10 & 15 Stand Carrying Cases .....	.50
No. 10 & No. 15 Reflector Carrying Cases.....	2.50
Diffusers & Clip .....	1.00
500 Watt Bulbs .....	3.00
1000 Watt Bulbs .....	6.50
No. 4 Flood Bulbs .....	2.00
No. 1 Flood Bulb .....	.25
Two Complete No. 15 Outfits in Double Carry- ing Case .....	33.00



No. 15 Complete



No. 10 Complete

No. 17 SPOTLIGHT

The No. 17 spotlight is the latest work in spotlight design and construction. It is the most unique, the most attractive, the most useful scientifically and mechanically perfect unit for the up-to-date photo studio or artist in photography.

Its adjustability and flexibility for various kinds of work requiring light effects makes it the most desirable accessory to the studio. Either a photo-flood or 500 watt bulb fits the adjustable porcelain base, which may be brought into perfect alignment, so as to get either a maximum degree of a clean, white and sharply outlined spot of light, or a diffused light so often desirable for obtaining soft effects.

The front removable attachment carries two lenses. These together with the large condenser lens incorporated in the main body of the outfit, and the adjustable diaphragm apertures, make it possible for the operator to throw a spot of light as small as an inch in diameter or to give a light area up to ten or twelve feet.

By removing the rear cover, it can also be used for general flood lighting. The tilting device at the rear permits the operator to throw the spot of light in any desirable direction or angle.

Spotlight only .....

Complete with No. 2 tripod .....

Complete with No. 8 studio stand .....

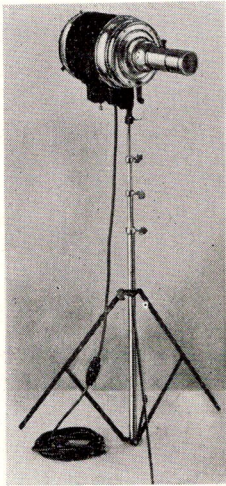
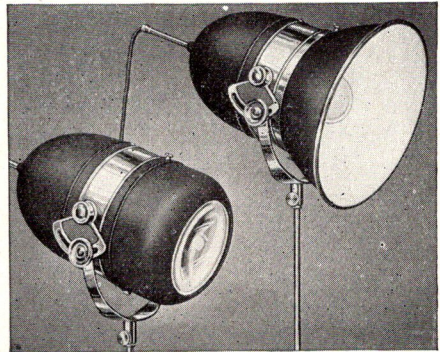


PHOTO FLOOD SPOT LIGHT

Photo flood spot is beautifully and substantially made of die drawn steel and is finished in baked crackle with chrome plated trimmings. It has a full 5 in. accurately ground and polished condensing lens for really efficient concentration of light. Ten feet of rubber covered connecting cord, switch, rubber plug are included. Operating range 2½ x 7½ ft.

Price, including stand .....\$16.50



OPEN FLOOD REFLECTOR

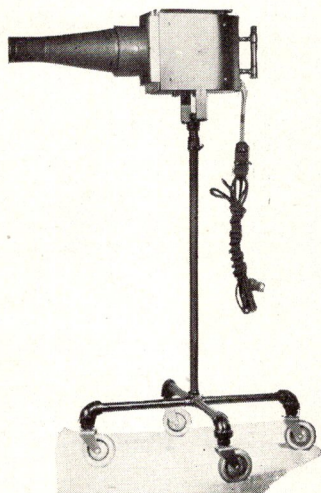
Interchangeable with Condenser Hood on the Photo Flood-Spot

The only "Open Flood" Reflector utilizing the inexpensive photo-flood bulb capable of being focused.

Provides diffused light for special artistic effects. It is focused by means of the focusing rod.

Price for Reflector only ..... \$2.00

## MEDO SPOTLIGHTS



### No. 11 SPOTLIGHT

For 250-400 "G" or 500 Watt "T" Lamps  $4\frac{1}{2}$ " Condensing Lens, 15 foot rubber cable on 4 legged base .....\$15.00  
If castor stand is desired add ..... 3.00

### No. 64 SPOTLIGHT

For 250-400 "G" or 500 Watt "T" Lamps 5" Convex Lens— $3\frac{1}{4}$ " Chrome plate reflector—25 ft. all rubber cable—all handles on hot parts—stand can be raised to 7 feet and can be swung or tilted at any angle. Hood can be removed easily from top of telescoping pipe standard and set on stud on castor base .....\$35.00

### No. 61 SPOTLIGHT

250 or 400 Watt "G" or 500 "T" Bulb  $4\frac{1}{2}$ " Convex lens. Focusing slider carriage, 25 ft. all rubber cable, swivel castor stand in black crackle finish .....\$30.00

### No. 66A

500-1000-1500 "G" or "T" lamp, 6" convex lens, grooves on front to take focusing objective,  $4\frac{1}{2}$ " chrome plated reflector, socket mounted on swivel plate permitting filament adjustment, handle on back of spotlight, standard can be set on castor base, 25 ft. rubber cable, length of hood is 14".

In black crackle finish .....\$60.00

### No. 71

200 watt "G" or "T" bulb, 8" plano convex lens, grooves to take objective,  $4\frac{1}{2}$ " chrome plated reflector, lamp housing can be used on lower part of castor base, handle on back of spotlight, cast aluminum wheels instead of thumb screws, lamp housing opens at top. 25 ft. all rubber cable, 3 legged castor stand, black crackle finish and polished aluminum wheels. Length of hood is 20" which gives long or short focus range .....\$78.00

### No. 72

Counterbalance Spotlight Outfit with 66A hood to take 500—1000—or 1500 "G" or "T" lamps, 6" plano convex lens,  $4\frac{1}{2}$ " chrome plated reflector, socket mounted on slider carriage which permits the turning of the socket for filament adjustment, handle on back of spotlight together with knob that will permit lamp housing to be swung or tilted at any angle.

Stand made of nickle plated square tubing which swivels on bearing of three legged castor base. Balance tape in casing. Handle on outrigger to raise or lower spotlight, 25 ft. all rubber cable—can be raised or lowered to any point without the least effort.

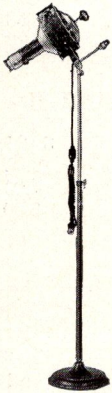
Outfit complete ..... \$ 99.00  
Stand only ..... 65.00

This stand can be fit with any spotlight or floodlight unit as selected from our stock at no additional charge.

## FOCUSING OBJECTIVE

A separate focal attachment which slides in grooves on front of spotlight hood. Has 4" Iris to cut the spot .....\$20.00

FOTOLITE - SPOTLITE



This is a concentrating type of lamp made in a beautiful chromium and black crystal finish with a new improved lens system consisting of three lenses. This lamp focuses the spot, small or large, sharp or diffused without filament spots showing and will register clearly on the negative.

Model A has a base that takes up only a small space—readily unscrews and stand telescopes so outfit can be carried in Portable Case—maximum height of 6 feet—Price complete (less bulb)..... \$22.50

*Can Be Furnished with Folding Stand at No Extra Charge*

MASK CHARTS

5x7 per dozen .....	\$ .15
8x10 per dozen .....	.25
11x14 per dozen .....	.45

BLACK PAPER FOR CUTTING MASKS

100 sheets 11x14 .....	1.35
Kodaloid Printing Masks No. 0-12 .....	\$ .15
No. 13.....	.25

EASELS, MOUNTS, FOLDERS



As the variety of Mounts and Folders keep increasing and styles change, it would not be possible to quote for a representative line here.

We shall, however, be pleased to send complete Mount Catalogues on request. We carry a number of Folders, Easels, View Mounts and plain mounting boards always in stock and solicit your orders or inquiries for Samples and Prices.

ALVORDS OPAQUE

No. 0—Per small jar .....	\$ .25
No. 1—2½ oz. jar .....	.50
No. 2—7 oz. jar .....	.95
No. 3—20 oz. can .....	1.90
No. 10—½ gallon .....	15.00



ECLIPSE (Asco) OPAQUE

Made from the original Eclipse Formula—Perfect Opacity in one coat, smooth and thin. An excellent opaque for brush or pen.

No. 0—2½ oz. ....	\$ .50	No. 1—9 oz. ....	\$1.25	No. 2—18 oz.....	\$2.25
Acheson Opaque is one of the most economical and durable opaques. Thin with water for use. Per jar No. 1.....\$1.50					
Bartels Opaque, 2 oz. jar .....		No. 5.....			\$5.00
					1.75

## EASTMAN OPAQUE

No. 1 Tube .....	\$ .25	No. 2 Tube .....	\$ .40	No. 2 Jar—2½ oz. ....	\$ .50
No. 3 Jar—7½ oz. ....	\$1.00	No. 4 Jar—18½ oz. ....			\$2.00

## VICTOR OPAQUE

No. 0—¾ oz. ....	\$ .25
No. 1—2½ oz. ....	.50
No. 2—7 oz. ....	1.00
No. 3—20 oz. ....	2.00

## MASTER TOUCH OPAQUE

No. 0—1 oz. ....	\$ .25
No. 1—2½ oz. ....	.50
No. 2—7½ oz. ....	1.00
No. 3—20 oz. ....	2.00

## PAINT

## PROBUS PRESERVATIVE PAINT

For wood, fibre, tin or iron. Renders the material proof against water, acid, alkali and rust.

Half Pint Can .....	\$ .45	Gallon Can .....	\$3.75
Pint Can .....	.50	Probus Print Lustre—	
Quart Can .....	1.25	½ Pint Can .....	.65
Half Gallon Can .....	2.05		

## KODACOAAT PAINT

Kodacoat is a waterproof, chemical-proof preservative paint that may be used for lining or patching trays, tanks, sinks, or drains. It may be used for protecting any surface against the action of acid or alkaline photographic solutions, including reducers or intensifiers. Supplied in glossy black.

Kodacoat ½ pint .....	\$ .45	Kodacoat 1 quart .....	\$1.25
Kodacoat 1 pint .....	.75	Kodacoat 1 gallon .....	3.50

## KODAK PANCHROMATIC GREEN PAINT

This paint should be used for the walls of darkrooms in which panchromatic materials are developed. It gives the maximum reflecting surface when green safelights are used.

1 quart .....	\$1.50	1 gallon .....	\$ 4.75
½ gallon .....	2.50	5 gallons .....	22.50

## PAINT FOR CAMERAS

*Preserves Leather*

4 oz. ....	\$ .50	32 oz. ....	\$2.50
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## ILLINGWORTH &amp; WELLINGTON PAPERS

## CHAMOIS

## WHITE AND CREAM

The professional photographer's Bromide Paper. The surface suggests natural uncoated paper and is made in pure white or delicate cream tints.

## CREAM CRAYON

## SMOOTH, ROUGH AND 'XTRA ROUGH

One of the most popular Bromide Papers ever offered. The ideal Bromide for toning, giving sepia tones of remarkable richness and transparency. The 'Xtra Rough is a special paper particularly suitable for large heads and broad effects. 'Xtra Rough also supplied on white stock. Specify White 'Xtra Rough when ordering.



**BROMOIL**

WHITE SMOOTH, WHITE ROUGH, CREAM SMOOTH, CREAM ROUGH

The unqualified beauty of a Bromoil picture must be seen to be appreciated but the success of the artist depends a great deal upon the paper used. Bromoil Paper can be used with equal success for ordinary Bromide Printing and Enlarging.

	Dozen	1/2 Gross	Gross
5 x 7	\$ .45	\$1.72	\$3.68
8 x10	.90	4.72	8.18
11 x14	1.75	8.76	15.56

**ILLINGWORTH DELUXE BROMIDE S. W.**

“FOR THREE COLOR PHOTOGRAPHY”

A triumph in the art of sensitized paper manufacture. Coated with a richer emulsion and on a higher quality raw base than ordinary Bromide Papers.

8x10 per dozen	\$1.50
10 ft. 40" Roll	9.50
10 yd. 40" Roll	21.00

**SELTONA PAPER**

Seltona printing is a delightful method of making prints from your own negatives—it requires neither dark room nor expensive apparatus, and gives remarkably beautiful sepia prints by fixing only.

**SURFACES**

Glossy:—Single and Double Weight  
 Matte:—Single and Double Weight  
 Cream:—Single and Double Weight  
 Linique:—Double Weight Only  
 Antique Cream:—Single and Double Weight

	S. W.	D. W.		S. W.	D. W.
3 1/4 x 4 1/4	\$ .25	\$ .30	4x5	\$ .35	\$ .40
3 1/4 x 5 1/2	.35	.40	5x7	.60	.70
Post Cards	.	.40	8x10	1.25	1.40

Packed In Dozens Only

**PHOTOGRAPHIC PAPERS**

**GEVALUXE**

	Dozens	Half Gross		Dozens	Half Gross
5x7	\$1.28	\$ 5.78	8x10	\$2.64	\$12.98
7x11	2.52	12.45	11x14	4.92	24.30
			14x17	7.44	37.13

**KODALITH NEGATIVE PAPER**

	Dozen	Gross		Dozen	Gross
5 x 7	\$ .30	\$ 2.48	12 x17	\$1.57	\$13.91
6 1/2 x 8 1/2	.47	3.87	14 x17	1.78	16.09
8 x10	.65	5.52	12 x20	1.87	16.35
8 1/2 x11	.85	6.49	16 x20	2.33	21.53
10 x12	.98	8.25	18 x22	2.89	26.48
11 x14	1.19	10.54	20 x24	3.40	31.95

**EASTMAN DIRECT POSITIVE PAPER**

	Gross		Roll
2 1/4 x 3 1/4 .....	\$2.57	250 Ft. 1 1/4" .....	\$4.09
2 1/2 x 3 1/2 .....	2.71	250 Ft. 1 3/8" .....	4.65
3 1/4 x 4 1/4 .....	3.22	250 Ft. 1 1/2" .....	5.00
3 1/4 x 5 1/2 .....	3.60	250 Ft. 1 3/4" .....	5.66
4 x 5 .....	3.85	250 Ft. 2" .....	6.30
4 1/4 x 6 1/2 .....	4.78	250 Ft. 2 1/2" .....	7.77
4 3/4 x 6 1/2 .....	5.21	250 Ft. 3" .....	9.16
5 x 7 .....	5.56	250 Ft. 3 1/4" .....	9.72

**CHROMATONE**

FOR PRODUCING PHOTOGRAPHIC PRINTS IN NATURAL COLOR

Introductory package to make eight complete 5x7 prints .....	\$10.00
Chromatone Instruction Book .....	.25
No. 1 Photo Print Paper Unit for 3 1/4 x 4 1/4 Prints .....	3.00
No. 2 Photo Print Paper Unit for 4 x 5 Prints .....	3.00
No. 3 Photo Print Paper Unit for 5 x 7 Prints .....	3.00
No. 4 Photo Print Paper Unit for 8 x 10 Prints .....	3.50

**CHROMATONE PHOTO PRINT PAPER**

5x7 .....	doz. \$1.15	11x14 .....	doz. \$5.05
8x10 .....	doz. 2.50	16x20 .....	doz. 10.10

Complete Chromatone Price List on Request

**AZO, CONVIRA, DEFENDER APEX, VELOX RAPID, PRINTEX AND NOVAGAS (VELOX S. W. ONLY)**

	SINGLE WEIGHT			DOUBLE WEIGHT		
	Per Dozen	Per 1/2 Gross	Per Gross	Per Dozen	Per 1/2 Gross	Per Gross
4 x 6	.....	.....	\$1.20	.....	.....	\$1.50
5 x 7	\$ .22	\$1.00	1.76	\$ .26	\$1.24	2.22
6 x 8	.....	.....	2.40	.....	.....	3.00
6 1/2 x 8 1/2	34	1.60	2.74	43	2.00	3.42
6 x 10	.....	.....	2.96	.....	.....	.....
7 x 9	.....	.....	3.12	.....	.....	3.90
7 x 10	.....	.....	3.45	.....	.....	.....
7 1/2 x 9 1/2	.....	.....	3.45	.....	.....	4.33
8 x 10	.47	2.24	3.90	.60	2.80	4.88
8 1/2 x 10 1/2	.....	.....	4.84	.....	.....	.....
8 1/2 x 11	.....	2.64	4.61	.....	3.32	5.78
9 x 11	.....	2.80	4.84	.....	3.52	6.04
10 x 12	.68	3.33	5.85	.85	4.16	7.32
11 x 14	.85	4.20	7.47	1.07	5.24	9.34
7 x 17	.73	3.44	6.08	.90	4.32	7.62
14 x 17	1.28	6.40	11.40	1.62	8.00	14.25
12 x 20	1.32	6.53	11.59	1.66	8.16	14.18
16 x 20	1.66	8.48	15.27	2.09	10.60	19.09
18 x 22	2.04	10.36	18.79	2.55	12.96	23.48

**AZO, CONVIRA, DEFENDER APEX AND NOVAGAS VELOX RAPID (VELOX S. W. ONLY)**

	SINGLE WEIGHT			SINGLE WEIGHT	
	Per 2 doz. pkg.	Per Gross		Per 2 doz. pkg.	Per Gross
2 1/2 x 3 1/2 .....	\$ .18	\$ .60	3 1/2 x 5 3/4 .....	\$ .27	\$1.19
2 3/4 x 4 1/4 .....	.18	.76	4 x 5 .....	.27	1.19
3 1/2 x 4 1/2 .....	.22	.93	4 x 6 .....	.32	1.20

**ROLLS — AZO, CONVIRA, DEFENDER APEX  
PRINTEX AND NOVAGAS**

Size	SINGLE WEIGHT	DOUBLE WEIGHT
10 ft. 20 in. ....	\$1.13	\$1.35
10 yd. 20 in. ....	2.67	3.38
10 ft. 40 in. ....	2.10	2.55
10 yd. 40 in. ....	5.14	6.53

**CIRKUT PAPER—AZO, CONVIRA AND NOVAGAS**

DOUBLE WEIGHT

50 ft. ....	6 in. \$1.95	8 in. \$2.37	10 in. \$2.85	100 ft. ....	6 in. \$3.30	8 in. \$4.35	10 in. \$5.33
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**AZO, CONVIRA, DEFENDER APEX, VELOX RAPID,  
PRINTEX AND NOVAGAS (VELOX S. W. ONLY)**

500 SHEETS FOR PHOTO FINISHERS

Size	Single Weight	Double Weight	Size	Single Weight	Double Weight
17/8x23/4 .....	\$1.20	\$1.50	3 1/8x5 1/8 .....	\$2.70	\$3.38
2 1/2x3 1/2 .....	1.65	2.16	3 1/2x5 1/4 .....	3.30	4.13
2 3/4x4 1/2 .....	2.14	2.67	4 x6 .....	3.79	4.73
3 1/2x4 1/2 .....	2.63	3.30	5 x7 .....	5.55	6.94

**AD-TYPE, OUTLINE SPECIAL, INDUSTRO OUTLINE**

FOLDS WITHOUT CRACKING

Size	Gross	500 Sheets	Size	Gross	500 Sheets
8 x10 .....	\$3.75	\$12.45	10x12 .....	\$5.63	\$18.72
8 1/2x11 .....	4.42	14.59	11x14 .....	7.17	23.82
9 x11 .....	4.65	15.45	14x17 .....	10.95	36.38
			16x20 .....	\$14.70	\$48.87

**PROOF PAPER**

**EASTMAN, ANSCO, DEFENDER—GLOSSY AND SEMI-MATTE**

DEFENDER B. & W. PROOFING PAPER—EASTMAN PORTRAIT PROOFING PAPER

	Per Dozen	Per 1/2 Gross	Per Gross	Per 500
Cabinet .....	.....	.....	\$1.09	.....
4 x 6 .....	.....	.....	1.20	.....
5 x 7 .....	\$ .22	\$1.00	1.76	5.51
6 1/2x 8 1/2 .....	.34	1.60	2.74	8.55
8 x10 .....	.47	2.24	3.90	12.19
10 x12 .....	.68	3.33	5.85	18.30
11 x14 .....	.85	4.20	7.47	23.33

**PROOF PAPER IN ROLLS**

10 ft. 20 in. ....	\$1.13	10 yd. 20 in. ....	\$2.67
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## VITAVA ATHENA, ARTURA IRIS, PROF. CYKO, PROF. CYLKO ARTEX PAPER

Size	SINGLE WEIGHT			DOUBLE WEIGHT		
	Per Dozen	Per ½ Gross	Per Gross	Per Dozen	Per ½ Gross	Per Gross
Cabinet	.....	.....	\$1.68	.....	.....	\$2.10
4 x 6	.....	.....	1.86	.....	.....	2.31
5 x 7	\$ .32	\$1.58	2.73	\$ .40	\$1.99	3.43
6½x 8½	.52	2.51	4.27	.64	3.15	5.36
8 x10	.68	3.53	6.09	.84	4.43	7.63
11 x14	1.32	6.56	11.62	1.64	8.21	14.53

## BROVIRA AND INDIATONE PAPER

STIPPLE SURFACE — DOUBLE WEIGHT ONLY

Size	Per Dozen	Per ½ Gross	Per Gross
4 x 6	.....	\$ .34	\$1.36
5 x 7	.....	.43	1.92
6½x 8½	.....	.68	3.08
8 x10	.....	.89	4.36
11 x14	.....	1.53	8.13

## VELOUR BLACK CANVAS

Size	Per Dozen	Per ½ Gross	Per Gross
8x10	.....	\$2.88	\$14.85
10x12	.....	4.32	22.28
11x14	.....	5.76	29.70
14x17	.....	8.56	44.14
16x20	.....	11.52	59.40
20x24	.....	17.28	89.10
10 ft. x 44" Roll	.....	.....	10.50
10 yd. x 44" Roll	.....	.....	31.50

## DASSONVILLE CHARCOAL BLACK

Size	Dozen	½ Gross	Size	Dozen	½ Gross
5 x 7	\$ .65	\$3.65	11x14	\$2.95	\$16.35
6½x 8½	1.00	5.50	14x17	4.55	25.20
8 x10	1.50	8.25	16x20	6.10	34.00
10 x12	2.25	12.65	No Other Sizes Cut		

## P. M. C. BROMIDE, NOVABROM, BROVIRA AND INDIATONE PAPERS

Size	SINGLE WEIGHT			DOUBLE WEIGHT		
	Per Dozen	Per ½ Gross	Per Gross	Per Dozen	Per ½ Gross	Per Gross
37⁄8x 5½	\$ .34	.....	\$ 1.54	\$ .43	.....	\$ 1.91
5 x 7	.31	\$ 1.40	2.48	.39	\$ 1.76	3.12
6½x 8½	.47	2.24	3.87	.60	2.80	4.84
8 x10	.65	3.16	5.52	.81	3.96	6.90
11 x14	1.19	5.92	10.54	1.50	7.40	13.16
14 x17	1.78	9.04	16.09	2.26	11.32	20.10
16 x20	2.33	11.96	21.53	2.94	14.96	26.93

NEWS BROMIDE, HALOID PRESS, NOVA BROM — GLOSSY

Size	Per Dozen	Per 1/2 Gross	Per Gross
5 x 7	\$ .31	\$1.22	\$2.15
6 x 8	.43	.....	2.93
6 1/2 x 8 1/2	.47	1.96	3.33
7 x 9	.56	.....	3.80
8 x 10	.65	2.76	4.78
11 x 14	1.19	5.18	9.13

NEWS BROMIDE EASTMAN, NOVO PRESS BROMIDE  
GEVAERT, BROVIRA AGFA

Size	500 Sheet Box	Size	500 Sheet Box
5 x 7	\$ 6.70	6 1/2 x 8 1/2	\$10.47
6 x 8	9.14	7 x 9	11.90
		8 x 10	14.92

EASTMAN CONTACT TRANSLITE

SINGLE WEIGHT

Size	Per Dozen	Per 1/2 Gross	Per Gross
5 x 7	\$ .36	\$1.65	\$2.92
6 1/2 x 8 1/2	.56	2.63	4.52
8 x 10	.76	3.72	6.44
11 x 14	1.40	6.94	12.29
14 x 17	2.13	10.62	18.76
10 ft. 20 in. Rolls	.....	.....	1.88
10 ft. 40 in. Rolls	.....	.....	3.56
10 yd. 20 in. Rolls	.....	.....	4.73
10 yd. 40 in. Rolls	.....	.....	9.12

EASTMAN ENLARGING TRANSLITE

SINGLE WEIGHT

Size	Per Dozen	Per 1/2 Gross	Per Gross
5 x 7	\$ .40	\$1.99	\$3.43
6 1/2 x 8 1/2	.64	3.15	5.36
8 x 10	.84	4.43	7.63
11 x 14	1.64	8.21	14.53
14 x 17	2.52	12.53	22.23
16 x 20	3.24	16.61	29.75
20 x 24	4.76	24.41	44.14
10 ft. 20 in. Rolls	.....	.....	2.21
10 yd. 20 in. Rolls	.....	.....	5.52
10 ft. 40 in. Rolls	.....	.....	4.16
10 yd. 40 in. Rolls	.....	.....	10.65

ROLLS—P. M. C., NOVABROM, BROVIRA, NEWS BROMIDE

Size	SINGLE WEIGHT	DOUBLE WEIGHT
10 ft. 20 in. wide	\$1.50	\$1.88
10 ft. 40 in. wide	2.82	3.56
10 yd. 20 in. wide	3.64	4.73
10 yd. 30 in. wide	6.00	7.80
10 yd. 40 in. wide	7.01	9.12

**VITAVA PROJECTION, VITAVA OPAL,  
ILLUSTRATORS SPECIAL, VELOUR BLACK, VELTURA**

Size	SINGLE WEIGHT			DOUBLE WEIGHT		
	Per Dozen	Per 1/2 Gross	Per Gross	Per Dozen	Per 1/2 Gross	Per Gross
5 x 7	\$ .28	\$1.32	\$2.31	\$ .36	\$1.65	\$2.92
6 1/2 x 8 1/2	.44	2.10	3.61	.56	2.63	4.52
8 x 10	.60	2.97	5.15	.76	3.72	6.44
11 x 14	1.12	5.55	9.84	1.40	6.94	12.29
14 x 17	1.68	8.48	15.02	2.13	10.62	18.76
16 x 20	2.20	11.22	20.09	2.75	14.03	25.13

**ROLLS—VITAVA PROJECTION, VITAVA OPAL  
VELOUR BLACK**

Size	SINGLE WEIGHT	DOUBLE WEIGHT
10 ft. 20 in. wide	\$1.40	\$1.75
10 ft. 40 in. wide	2.62	3.32
10 yd. 20 in. wide	3.39	4.41
10 yd. 30 in. wide	5.60	7.28
10 yd. 40 in. wide	6.50	8.50

**HALOID NOMIS, ART PROOF, HALOID RITO,  
HALOID INDUSTRIO**

Size	SINGLE WEIGHT			DOUBLE WEIGHT		
	Per Dozen	Per 1/2 Gross	Per Gross	Per Dozen	Per 1/2 Gross	Per Gross
4 x 6	.....	.....	\$1.12	.....	.....	\$1.40
5 x 7	\$ .23	1.00	1.65	\$ .27	\$1.24	2.07
6 1/2 x 8 1/2	.36	1.60	2.56	.45	2.00	3.19
8 x 10	.50	2.24	3.64	.63	2.80	4.55
11 x 14	.90	4.20	6.97	1.04	5.24	8.72

**POST CARDS — ALL BRANDS**

	Per 2 Dozen	Gross	Per 500 Package	Per 5000 Case
Azo, Noko Novagas	\$ .34	\$1.28	\$4.24	\$44.00
Professional Defender	.40	1.65	5.46	
Professional Cyko	.40	1.65	5.46	
P. M. C. Bromide, Novabrom	.43	1.77	5.85	56.30
Velour Black	.43	1.77		

**MISCELLANEOUS PAPERS**

	Per Dozen	Per Ream
Ruby Paper, Heavy	\$ .40	.....
Orange and Ruby Post Office, 20x25	.30	\$10.50
Black Needle	.50	18.00
Cepia Paper for Printing	.25	7.50
Printing Tissue	.30	7.00
Litmus Paper, per tube	\$ .20	Traceolene 8x10, Pkg. 10 .75
Traceolene, 22" 140" Roll	2.80	Traceolene 11x14, Pkg. 10 1.50

**FILTER PAPER**

10 Inch, Package 10 Sheets	\$ .15	Per 100	\$1.00
13 Inch, Package 10 Sheets	.18	Per 100	1.25
15 Inch, Package 10 Sheets	.20	Per 100	1.60

POSTAL PLATES

	Doz. in Case	Size	Per Doz.	Per Case
Standard .....	30	3 1/4x4 1/4	\$ 49	\$13.65
Standard .....	30	3 1/4x5 1/2	.68	18.90
Eastman .....	30	3 1/4x4 1/4	.49	13.65
Eastman .....	30	3 1/4x5 1/2	.68	18.90
Hammer .....	100	2 1/2x2 1/2	.28	28.00
Hammer .....	36	3 1/4x4 1/4	.49	16.38
Hammer .....	30	3 1/4x5 1/2	.68	18.90

LANTERN SLIDE PLATES

	Doz. in Case	Size	Per Doz.	Per Case
Defender Standard Seeds .....	30	3 1/4x4	\$ 41	\$11.55
Hammer .....	30	3 1/4x4	.45	12.75
Wellington S. C. P. ....	30	3 1/4x4	.65	.....
Eastman .....	30	3 1/4x4	.41	11.55
Gevaert .....	30	3 1/4x4	.40	11.25
Gevaert (12 doz. to package, 1 gross box)....	30	3 1/4x4	.40	4.45

AGFA COLOR PLATES

Agfa Color Plates Come in Boxes of Four Plates Each, In Sizes Indicated Below.

3 1/4x4 L. S. ....	\$2.16	5x7 .....	\$ 5.00
3 1/4x4 1/4 .....	2.16	8x10 .....	12.15
4x5 .....	3.10		

Centimeter Sizes

6 1/2x9 .....	\$1.62	9x12 .....	\$ 2.43
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PLATES

Centimeter Sizes

	4 1/2x6	6 1/2x9	45x107	6x13	9x12	10x15
Eastman 40 Plate .....	.38	.46	.49	.47	.70	.92
Eastman Commercial Plates .....					.62	.88
Eastman Hyper Press Ortho .....	.38	.49	.54	.72	.80	1.04
Standard Orthonon and Eastman D. C. ....	.46	.59	.63	.59	.85	1.10
Gevaert Sensima Ortho .....	.32	.45	.49	.68	.68	.81
Gevaert Saho 500 H & D .....	.38	.47	.49	.68	.75	.92
Gevaert Super Press .....					.76	.90
W. W. Panchromatic .....	.45	.59	.63	.59	.90	1.17
W. W. Hyper-Sensitive Panchromatic .....	.49	.68	.72	.95	.99	1.31
Hammer Red Label, Press.....	.33	.45	.49	.68	.72	.90
Hammer Blue Label & Slow .....	.36	.42	.45	.62	.64	.80
Illingworth Super Fleet Ortho.....	.50	.55	.55	.70	.80	1.02

ILFORD SPECIAL RAPID AND PROCESS PAN. BACKED

Size	Per Doz.	Size	Per Doz.
3 1/4x4 1/4 .....	\$ 81	10x12 .....	\$ 7.92
3 1/4x5 1/2 .....	1.35	11x14 .....	11.79
4x5 .....	1.35	12x15 .....	14.58
5x7 .....	2.21	14x17 .....	17.87
6 1/2x8 1/2 .....	3.29	13x22 .....	34.20
8x10 .....	5.27	16x26 .....	28.94
		18x24 .....	43.11

KODALITH PLATES

Size	Dozen	Case	Size	Dozen	Case
5x7 .....	\$1.24	\$23.20	10x12 .....	\$ 4.76	\$13.44
6 1/2x8 1/2 .....	1.87	21.12	11x14 .....	6.85	19.32
8x10 .....	2.72	25.60	14x17 .....	11.73	22.08
			16x20 .....	21.04	29.70

## P L A T E S (Per Dozen)

	2¼x3¾	3¼x4¼	3¼x5½ 4x5	5x7	6½x8½	8x10	10x12	11x14	7x17	14x17	12x20	16x20
Eastman 40 .....	\$ .39	\$ .56	\$ .77	\$1.24	\$1.87	\$2.72	\$4.76	\$6.85	\$6.38	\$11.73	\$18.70	\$21.04
Eastman 36 .....												
Eastman 50 .....												
Eastman Process .....												
Seeds 27 .....												
Seeds 26 .....												
Seeds Process .....												
Seeds Panchromatic .....												
Eastman, Hyper Press Ortho .....	.43	.64	.85	1.36	2.16	3.02						
Eastman 33 .....	.35	.51	.70	1.12	1.72	2.49	4.37	6.28	5.85	10.76	17.16	19.30
Eastman Universal .....												
Eastman Polychrome .....												
Eastman Commercial .....												
Eastman S.C. Ortho .....												
Seeds 23 .....												
Seeds L. Ortho .....												
Stanley .....												
Eastman D.C. Ortho .....	.44	.64	.88	1.44	2.20	3.20	5.60	8.04	13.80	21.80	24.60	
Standard Orthonon .....												
Seed LO Non Halation .....												
W. & W. Panchromatic Regular .....	.50	.72	.99	1.62	2.48	3.60	6.30	9.05	15.52	24.52	27.67	
W. & W. Panchromatic Process .....												
W. & W. Infra-Red .....												
Wratten Hyper-Sensitive Panchro .....	.54	.81	1.08	1.80	2.75	3.96		9.95				
Hammer Press, Cramer Iso Presto.....	.45	.59	.81	1.31	1.98	2.88	5.04	7.25	6.75	12.42	19.80	22.28
Hammer Red Label, Cramer Iso .....												
Hammer Process, Cramer Contrast .....												
Hammer Super Sens. Ortho .....												
Hammer Blue Label, Cramer Crown.....	.42	.51	.79	1.13	1.72	2.50	4.37	6.28	6.00	10.76	17.60	19.30
Hammer Slow .....	.42	.51	.70	1.13	1.72	2.50	4.37	6.47				19.30
Hammer Medium Commercial .....	.42	.56	.77	1.23	1.87	2.72	4.76	6.84		11.73		21.04



PLATES PER DOZEN (Continued)

	2¼x3¼	3¼x4¼	3¼x5½ 4x5	5x7	6½x8½	8x10	10x12	11x14	7x17	14x17	12x20	16x20
Hammer Ortho Slow .....	.45	.59	.81	1.31	1.98	2.88	5.04	7.25				
Hammer Ortho Ex Fast .....												
Hammer Ortho Special .....												
Hammer Ortho D. C. ....	.53	.76	1.05	1.71	2.62	3.80	6.35	9.55				
Hammer Ortho Special D. C. ....												
Hammer Opal (Packed Six to a Box)....		1.35	1.58	3.24	5.22	7.35						
Gevaert Sensima Ortho .....	.41	.55	.68	1.09	1.65	2.40						
Gevaert Saho 500 H&D .....	.41	.59	.75	1.20	1.88	2.70						
Gevaert Super Press .....	.41	.59	.75	1.20	1.88	2.70						
Gevaert Super Chromosa .....	.41	.59	.75	1.20	1.88	2.70						
Gevaert S S S Anti-Halo .....	.41	.59	.75	1.20	1.88	2.70						
Illingworth Super Fl. Ortho Lightning, 1500 H&D .....		.72	.90	1.43								

PLATES (PER CASE)

	30 Dz.	30 Dz. 3¼x4¼	30 Dz. 3¼x5½ 4x5	20 Dz.	12 Dz.	10 Dz.	3 Dz.	3 Dz.	4 Dz.	2 Dz.	2 Dz.	1½ Dz.
Eastman 40 .....	\$15.60	\$21.60	\$23.20	\$21.12	\$25.60	\$13.44	\$19.32	\$24.00	\$22.08	\$35.20	\$29.70	
Eastman 50 .....												
Eastman 36 .....												
Eastman Process .....												
Seeds 27 .....												
Seeds 26 .....												
Seeds Process .....												
Seeds Panchromatic .....												
Eastman, Hyper Press Ortho .....	18.00	24.00	26.50	23.04	28.40							
Eastman 33 .....	14.24	19.71	21.17	19.27	23.36	12.27	17.63	21.90	20.15	32.12	27.10	
Eastman Universal .....												
Eastman Polychrome .....												
Eastman Commercial .....												
Eastman S.C. Ortho .....												
Seeds 23 .....												
Seeds L. Ortho .....												
Stanley .....												

## PLATES PER CASE (Continued)

	30 Dz. 3 1/4 x 4 1/4	30 Dz. 3 1/4 x 5 1/2 4x5	20 Dz. 5x7	12 Dz. 6 1/2 x 8 1/2	10 Dz. 8x10	3 Dz. 10x12	3 Dz. 11x14	4 Dz. 7x17	2 Dz. 14x17	2 Dz. 12x20	1 1/2 Dz. 16x20
Eastman D.C. Ortho .....	} 18.00	} 24.75	} 27.00	} 24.75	} 30.00	} 15.75	} 22.82	} 25.88	} 40.88	} 34.60	
Standard Orthonon .....											
Seeds LO Non Halation .....											
W. & W. Panchromatic Regular .....	} 20.88	} 28.71	} 31.32	} 28.71	} 34.80	} 18.27	} 26.23	} 30.01	} 47.41	} 40.13	
W. & W. Panchromatic Process .....											
Wratten Hyper-Sensitive Panchro .....	22.95	30.60	34.00	29.28	37.40						
Hammer Press, Cramer Iso Presto .....	} 16.58	} 22.95	} 24.65	} 22.44	} 32.64	} 19.04	} 27.37	} 25.70	} 35.19	} 37.40	} 42.08
Hammer Red Label, Cramer Iso .....											
Hammer Process, Cramer Contrast .....											
Hammer Super Sens. Ortho .....											
Hammer Blue Label, Cramer Crown .....	14.23	19.71	21.17	19.27	28.03	16.35	23.51	22.50	30.22	33.00	36.13
Hammer Slow .....	14.67	20.37	21.75	19.89	28.91	16.85	24.21		31.05		37.12
Hammer Medium Commercial .....	15.60	21.60	23.20	21.12	30.72	17.92	25.76		33.12		39.60
	18 Dz. 3 1/4 x 4 1/4	18 Dz. 3 1/4 x 5 1/2	12 Dz. 4x5	12 Dz. 5x7	8 Dz. 6 1/2 x 8 1/2	6 Dz. 8x10	2 Dz. 10x12	2 Dz. 11x14	1 1/2 Dz. 14x17		
Hammer Ortho Slow .....	} 9.95	} 13.77	} 9.18	} 14.79	} 14.96	} 16.32	} 9.52	} 13.69	} 17.60		
Hammer Ortho Ex Fast .....											
Hammer Ortho Special .....											
Hammer Ortho D. C. .....	} 12.96	} 17.82	} 11.88	} 19.44	} 19.30	} 21.60	} 12.60	} 18.09	} 23.30		
Hammer Ortho Special D. C. .....											
	30 Dz. 3 1/4 x 4 1/4	30 Dz. 3 1/4 x 5 1/2 4x5	20 Dz. 5x7	12 Dz. 6 1/2 x 8 1/2	10 Dz. 8x10	30 Dz. 9x12cm.	30 Dz. 10x15cm.				
Gevaert Sensima Ortho .....	13.65	18.90	20.30	18.48	22.40	16.80	21.00				
Gevaert Saho 500 H&D .....	16.75	21.00	23.00	21.00	26.00	20.00	24.00				
Gevaert Super Press .....	16.75	21.00	23.00	21.00	26.00	20.00	24.00				
Gevaert Super Chromosa .....	16.75	21.00	23.00	21.00	26.00	20.00	24.00				
Gevaert S S S Anti-Halo .....	16.75	21.00	23.00	21.00	26.00	20.00	24.00				
Illingworth Super Fl. Ortho .....											
Lightning, 1500 H&D .....	21.60	27.00	28.50			24.00	30.40				

PENCILS AND LEADS



Faber Retouching Pencil and Holder .....							\$ .45
Faber Castell Pencils—1H to 6H—1B to 6B .....							.10
Faber Leads .....	each	.10	Box of 6 .....				.50
Century Negative Pencil .....	each	.15	Dozen .....				1.60
Century Positive Pencil .....	each	.15	Dozen .....				1.60
Eastman Reducing Pencil .....	each	.25	Dozen .....				2.70
Venus Pencil (any degree) .....							.10
Kohinoor Lead Holder .....							.50
Kohinoor Lead (any degree) .....							.12
Wolff's Carbon Spotting Pencil 6 Degrees .....							.15
Box of Dozen of One Grade .....							1.50
Gold & Silver Lead Pencils .....	each	.15	2 for .....				.25
White Lead Pencils .....							.10
Sand Paper Sharpening Blocks .....							.15

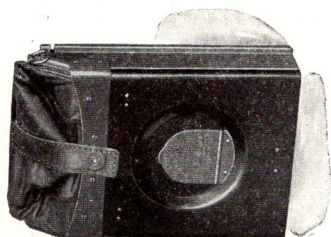
PLATE HOLDERS — ALL MAKES

	2¼x3¼	3¼x4¼	4x5	5x7	6½x8½	8x10	11x14
Eastman				2.20	2.20	2.80	
Graphic Press			2.20				
Imperial				2.20		3.20	
Sterling						4.40	8.40
Century Riteway				2.32		3.20	
Graflex	2.80	3.00	3.20	3.60			
Anso		2.00	2.00	2.00	2.20	2.40	
Graphic Utility			2.00				
Century Lantern Slide 3¼x4 .....							2.40

GRAFLEX MAGAZINES

Film & Plate

2¼x3¼ for 12 Septums .....	\$11.70	4 x5 for 12 Septums .....	\$14.85
3¼x4¼ for 12 Septums .....	13.05	5 x7 for 12 Septums .....	17.10
3¼x5½ for 12 Septums .....	13.95	3¼x4¼ for 18 Septums .....	16.65
4 x5 for 18 Septums (18 Septums take film only) .....			18.45



SEPTUMS ONLY

		Plate	Film
2¼x3¼ .....	ea.	\$ .24	\$ .25
3¼x4¼ .....	ea.	.25	.30
4 x5 .....	ea.	.28	.35
5 x7 .....	ea.	.30	.45

### POLA-SCREENS

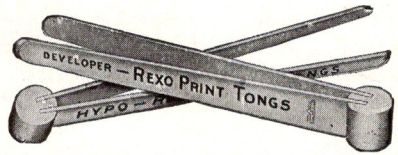
The type 1, for use over the camera lens. A single Pola-screen makes possible dark sky effects, the removal of surface reflections from glass or water to show detail beyond or below, the removal of oblique reflections to show surface texture, the control of the relative brightness of the walls and roof in architectural work.

	Pola-Screen		Lens Hood & Holder
2½"	\$12.00		\$ 8.00
3½"	18.00		9.50
4½"	27.00		12.00

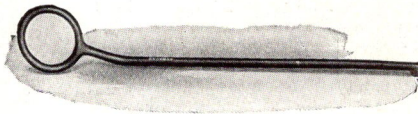
### PRINT TONGS

For handling prints in the Developer or Hypo. Stamped with the words Hypo or Developer to prevent stains, from using the tongs in the wrong solution.

Rexo .....	ea. \$ .20
Celluloid, black and white .....	.20
Bamboo No. 1 .....	.20



### EASTMAN PRINT PADDLE



A handy and practical print-room accessory. Made acid and chemical proof. Of exactly the right shape for the proper immersion of prints in the fixing bath. Length, 12 inches.

Eastman Print Paddle .....	ea. \$ .40
Dozen .....	\$4.50

### PRINTING FRAMES

Kodak Auto-mask Print. Frames .....		\$1.35	
Glasses for Frames 2¼x3¼ to 4x5 sheet .....	.05—5x7	.10	
2¼x3¼ .....	\$ .45	¾x5½ (Film Neg.) .....	.54
2½x3½ .....	.45	¾x5¼ (Plate Neg.) .....	.44
¾x4¼ .....	.50	4 x5 .....	.54
		5 x7 .....	.63

### PROFESSIONAL PRINTING FRAMES

	Century		
5x 7 .....	\$1.80	11x14 .....	\$4.70
7x11 .....	2.70	12x20 .....	8.55
7x17 .....	6.30	14x17 .....	6.50
8x10 .....	2.25	16x20 .....	9.00
		20x24 .....	12.00

### PROCESSING FRAMES

Supplied in two sizes, made of stainless steel frames to hold cut films during development in plate tanks, and subsequently for enlarging while the films are still wet.

¾x4¼ .....	\$ .90	4x5 .....	\$ .90
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**PRINT ROLLERS**

<b>DELUXE</b>	
4" Wood Handle .....	\$ .45
6" Wood Handle .....	.60
8" Wood Handle .....	.70

<b>REXO</b>	
4" Wood Handle .....	\$ .35
6" Wood Handle .....	.45
8" Wood Handle .....	.55

<b>EASTMAN PROFESSIONAL</b>	
Kodak Double 6" .....	\$1.35
Eastman Single .....	4.50
Eastman Double .....	4.95

<b>IDEAL PRINT ROLLER</b>	
Ball Bearing Type	
8" .....	\$4.95
10" .....	5.40

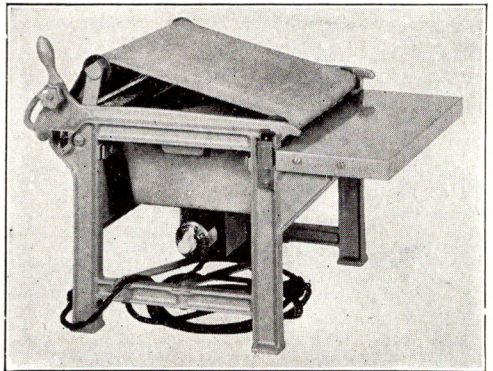
**MEDO ROLLRITE**

No. 1—4" .....	\$ .30	No. 2—6" .....	\$ .65
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**EASTMAN PRINT STRAIGHTENER**

The Eastman Print Straightener is one of the simplest and most practical devices ever offered the photographer and photo finisher for straightening prints. Prints fed into the machine, face up, are carried by a belt through vapor, over a straightener, and dropped into a basket, flat and smooth. Either single or double-weight prints may be straightened as fast as they can be fed to the belt. Both front and back are moistened and the prints do not crack. The machine and water heater are electrically operated. Specify current and voltage when ordering.

Eastman Print Straightener.....\$135.00



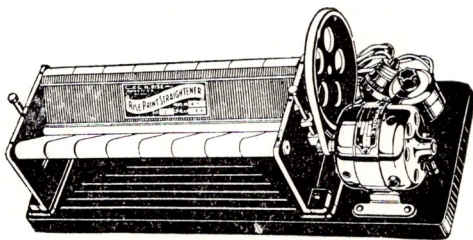
**RISE PRINT STRAIGHTENER**

Prints lie flat after being run through this straightener.

Double weight prints are made quite flexible and not liable to curl.

MODEL 4A—A.C. or D.C. motor drive, for prints up to 12 in. ....\$40.50

MODEL 5A—A.C. or D.C. motor drive, for prints up to 18 in. ....\$58.50

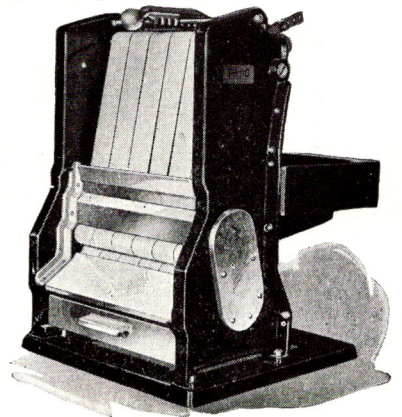


**PAKO PRINT FLATTENER**

Actually makes prints lie flat. Will not crack or check prints. Gently moistens prints as they go through, and delivers them flat to tray in back.

Throw away makeshifts. The PAKO Print Flattener will do faster, better work and save its cost in a short time. Just fill the water tray, plug cord into the electric socket and in ten minutes its ready to work.

Price .....\$150.00



**MOORE PUSH PINS**

No. 1—About 1/2" Long—package of 6 .....	\$.10
No. 2—About 3/4" Long—package of 6 .....	.10
Metal Push Pins .....	.10

**PRINTERS**

**MEDO ALTO PRINTER**

A substantially built Printer with Mahogany finish, measuring over all 12x13x15 with a printing surface of 8 1/2"x11". Comes equipped with four sockets and a Pilot Light. The bulb for Pilot Light is supplied but the user must supply his own light bulbs. 60 watt size are recommended.

The machine is fitted with a Masking Device which will mask from 8x10 to Vest Pocket size. Weight 15 lbs.

5x7 .....	\$16.50
8x10 .....	17.50

**PNEUMATIC TOPS FOR PRINTERS**

All sizes made up on special order. Write for quotations, specifying size of printing head.

**APAC PROJECTION PRINTER**

A printer that will produce enlargements at the speed of a foot operated printer, with the advantage of seeing the negative before and during the exposure as well as the projected image. Velox Rapid, Azo, Convira, Apex papers can be used. Prints are numbered, strips can be handled easily, simplified masking device. Complete circular sent on request.

The Specification Chart below simply and clearly indicates what a particular APAC PRINTER will do. There is surely one which you either have needed right along or one which will create new opportunities in your territory.

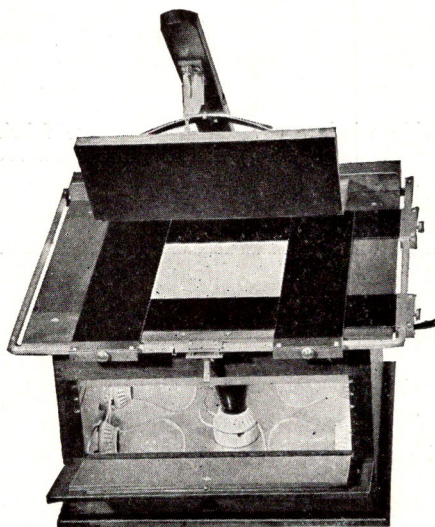
CHART OF PRINTS PRODUCED ON APAC PRINTERS

<i>Films</i>	<i>APAC MU-92</i>	<i>APAC 24</i>	<i>APAC 57-34</i>	<i>APAC 57-49</i>	<i>APAC 81-79</i>	<i>APAC 81-96</i>
No. 116	—	3 3/4" x 5 3/4"	5" x 7"	—	8" x 10"	—
No. 120	—	3 1/2" x 4 1/2"	4" x 6" and 5" x 7"	5" x 7"	6" x 8" and 8" x 10"	8" x 10"
VEST POCKET and 1/2 of No. 120	5" x 7"	2 1/2" x 3 1/2" and 3 1/2" x 4 1/2"	3" x 4 1/2" and 3 1/2" x 5 1/2"	3 1/2" x 5 1/2" and 5" x 7"	4" x 6" and 5" x 7"	5" x 7" and 8" x 10"
BANTAM UNIVEX NORTON 1/2 of V. P.	3 1/4" x 4 1/2" and 4" x 6"	2" x 2 1/2" and 2 1/2" x 3 3/4"	2 1/2" x 3 1/4"	2 1/2" x 3 1/4" and 3 1/4" x 4 1/2"	3" x 3 3/4" and 3 3/4" x 4 3/4"	3 3/4" x 4 3/4" and 5" x 7"
LEICA CONTAX RETINA	3" x 4" and 3 1/2" x 5"	2 1/4" x 3 1/4"	2 1/4" x 3 1/4"	2 1/4" x 3 1/4" and 3 1/4" x 4 1/2"	2 1/2" x 3 3/4" and 3 1/4" x 4 1/2"	3 1/4" x 4 1/2" and 4" x 6"
PRICE	\$165.00	\$196.00	\$245.00	\$245.00	\$275.00	\$275.00

All the above dimensions are approximate and can be varied either way.

### No. 2 EASTMAN PRINTER, 8 x 10

A PRACTICAL PRINTER AT A MODERATE PRICE



The No. 2 Eastman Printer is built into a walnut-stained box  $9\frac{1}{2}$  inches high. The printing light is provided by four standard 25- or 40-watt Mazda lamps (not furnished) and one ruby pilot lamp (supplied with printer).

Film or glass negatives up to 8 x 10 inches are accommodated. The Printer's flat top,  $14\frac{1}{4} \times 16\frac{1}{4}$  inches, permits white-margin prints on paper up to 14 x 17 inches. Four 3-inch, thin-gauge metal masking strips permit wide margins. No additional masking is necessary.

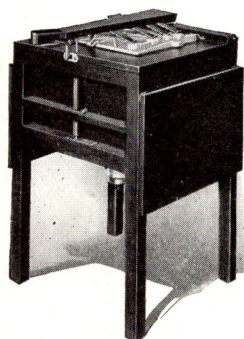
The divided platen automatically switches on the light when contact is established. The switch may also be operated by hand. The door in the front of the printer is convenient for dodging or vignetting.

A ground glass (supplied) can be used in any one of three different grooves to give more or less diffusion.

No. 2 Eastman Printer, including ruby lamp ground glass, electric cord and plug.....\$31.05

### CROWN PRINTER No. 2—11 x 14

The hand-operated, cast aluminum platen of this printer insures perfect contact, automatically locks, and turns on six 100-watt Mazda C Lamps (not furnished). A slight pressure releases the platen and turns off the lights. A ruby lamp burns constantly for adjusting negatives. The lights may be turned on by hand, with platen raised for placing vignettes. A sliding frame carries an opal glass for diffusion and two drop shelves,  $13 \times 20$  inches, hold paper, negatives, and prints. Occupies  $20 \times 22\frac{1}{2}$  inches of floor space.



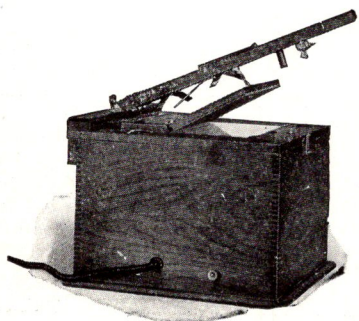
Crown Printer, 11x14, without lamps, including one sheet of flashed opal glass, conductor cord and plug .....\$67.50

### No. 1 EASTMAN PRINTER

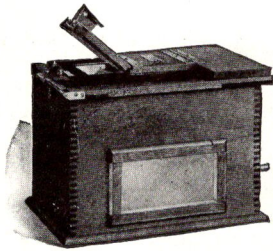
An excellent printer for 5x7 or smaller negatives with an 8x8-inch printing surface. The hand lever automatically locks as it switches on the two printing lamps. These lamps may be adjusted from the outside as to position, and the light is diffused by a ground glass. A ruby lamp is furnished, but the 60-watt printing lamps are not supplied.

The printer is stained brown, with metal parts nicked. Outside dimensions are  $10\frac{1}{2} \times 14 \times 14$  inches.

No. 1 Eastman Printer, including ruby bulb, electric cord and plug .....\$21.60



### KODAK AMATEUR PRINTER



The Kodak Amateur Printer prints with white margins any size from 1½x2½ to 4x5½ inches. The simple masking device is quickly set for any size film negative. The box contains a red bulb for adjusting the negative, and a socket for a 60-watt Mazda Lamp which lights when the hinged top makes contact with the negative.

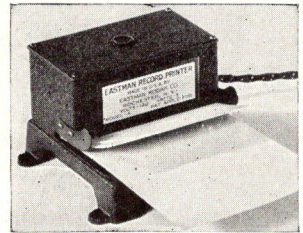
A removable side window covered with orange fabric serves as a darkroom lamp. The Printer's dimensions are 11¼x7¾x9¼ inches.

Kodak Amateur Printer, including ruby bulb, 5½ feet of electric cord and plug, but without white light bulb .....\$10.50

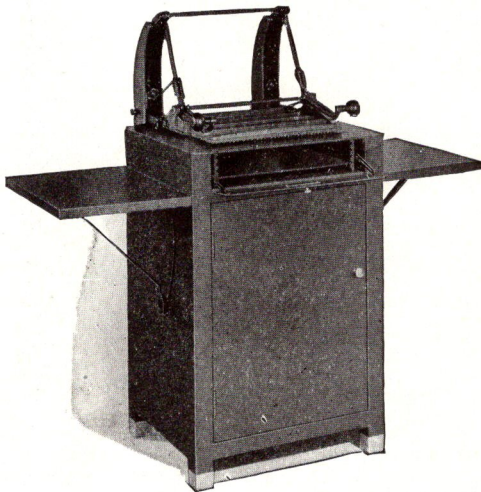
### EASTMAN RECORD PRINTER

The Record Printer is a device for printing record data on the margin of exposed films. It contains a slot in which a record card and the film are inserted. An exposure lever brings the two in contact and prints the order number or other record on the one-eighth-inch film margin. The printer is light-tight and may be used with all types of film, including panchromatic.

Eastman Record Printer with electric cord, lamp, and 50 record cards .....\$ 5.40



### EASTMAN PROFESSIONAL PRINTER



The easily operated platen is made of two heavy pieces of red cellulose acetate, attached to metal plates. This platen is transparent and is rubber studded to make positive contact. When the platen makes the contact with the negative, a reflecting mirror is automatically thrown into position and a mercury-tube switch lights the lamp, making the exposure. A mogul-base socket carries a 1000-watt lamp while the two remaining sockets may carry 25-, 250-, or 500-watt lamps. This obviates the use of a rheostat and enables one to change the light to suit the speed of the paper one is using. A 40-watt pilot lamp covered with a sheet of amber glass is used for arranging dodging material or vignettes.

Four inches below the printing top is a second sheet of plate glass on which one may place vignettes or dodging tissue or work with a wax pencil. Five grooves on either side allow a glass with this material to be placed closer to the negative. A knob on the left side of the machine drops

a piece of ground glass between the light and the negative and moves it up or down for variable diffusion in making vignettes. During the exposure, a cardboard vignetter may be moved about beneath the negative and the effect plainly seen through the transparent platen. The cabinet of the printer is made entirely of steel, enameled a rich olive brown. Every printer is carefully inspected at the factory and checked for contact and evenness of illumination. The printing surface covered is 12x15 inches.

Eastman Professional Printer Model 2 without lamps ..... \$180.00

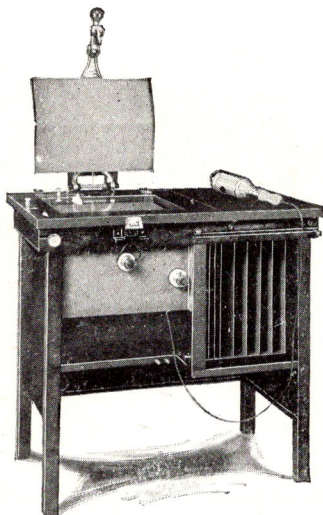
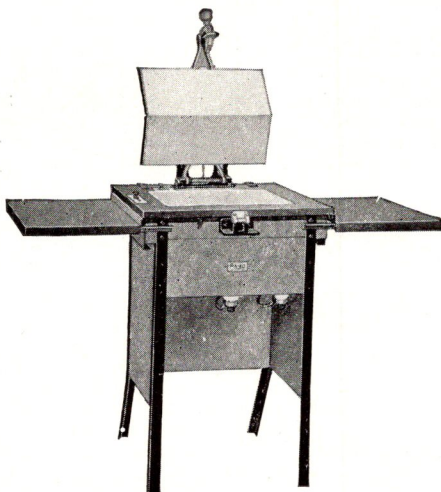


**PAKO PROFESSIONAL DE LUXE PRINTER**

A faster and far easier printer to use than the old type. Designed especially for exacting artists who wish to speed production, yet maintain highest quality standards.

Has unobstructed working surface. Register guides exactly register ground glass screen when laid on negative for chalking. Ground glass easily raised or lowered. Extra Diffusion screens can be moved into position when required. Paper guides. Positive platen contact. Spotlight for local work. Print opening 12x15 inches. Size 36" long, 21" wide, 36" high.

Price .....\$165.00 List



**PAKO PROFESSIONAL No. 2 PRINTER**

Has same capacity and the same efficient Printing head as the De Luxe Model dispensing with cabinet and mask and negative compartment. Requires less floor space but has two hinged shelves for ample working space.

Screen and paper guides are omitted, otherwise head is same as De Luxe. Spotlight is extra equipment. Ground glass diffusion screen is adjustable on three sets of supports at various heights.

Price .....\$90.00 List

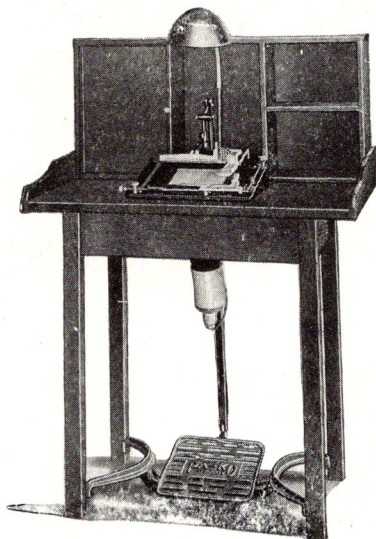
**PAKO MODEL B PRINTER**

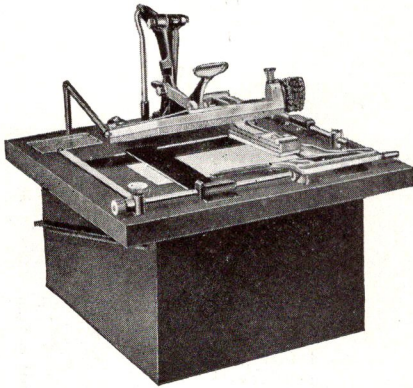
This standard printer for Commercial photo finishing will give new speed to slow printers and raise the quality of careless or inexperienced help.

Easy to operate, flexible. High speed for short run work. Platen operated by foot treadle, leaving operator's hands free. Automatic numbering device.

Adjustable, universal masks, many other special features. A speed of 350 prints hourly is easily attained. Most operators will do better.

Price .....\$100.00 List





**PAKO JUNIOR PRINTER**

A light, portable, yet strong printer that will give long dependable service. Has same printing head as Model B, excepting that platen is hand operated.

Designed to be used on work table and removed when not needed. A good "reserve" capacity for rush periods. Has divided platen, automatic numbering device, universal adjustable masks, negative holder and paper register guide with printing light automatically controlled.

Price ..... \$55.00 List

**PRINTER SWITCHES**

8x10 and 11x14 Presto .....	\$4.50
G. E. for Eastman Printer .....	3.00
H. & H. for Eastman Printer .....	2.00
C. H. for Ansco Printer .....	4.00

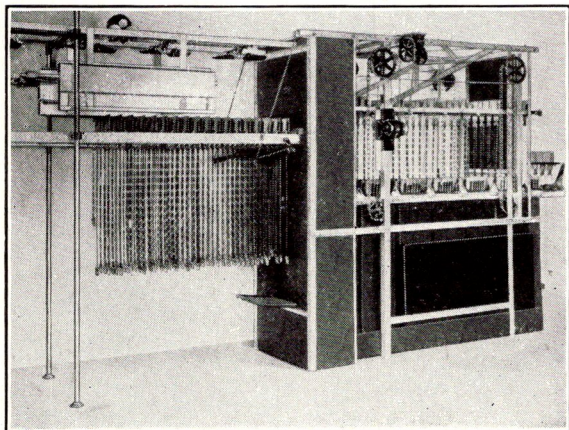
**ANSCO PRINTERS**

5x7 Printer .....	\$12.50	8x10 Printer .....	\$36.00	11x14 Printer .....	\$63.00
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**PAKO ACCESSORIES**

Pako Clips		Numeral and Letter Bands,	
Per doz. ....	\$1.20	Per gross.....	\$12.00
		each .....	\$ .15 & \$ .20
Pako Monel Clips		Ink, per bottle.....	25
Per doz. ....	2.40	Per gross.....	24.00
		Ink Pads.....	.10
Weight Rings		Roll Hangers, Outfit A, 50 roll ca-	
Per doz. ....	2.25	Per gross.....	25.00
		capacity .....	15.00
Roll Hangers, No. 10 Units for 12"		Dye Pack Hangers, No. 6-12 .....	1.00
tanks .....	3.00	Dye Pack Hangers, No. 18 .....	2.00
Roll Hangers, No. 18 Units for 21"		Dryer Aprons .....	18.00
tanks .....	5.40	Higloss Solution (Dope) .....	5.00
Loading Stands, No. 6-12 .....	1.00	Print Sorting Rack .....	3.00
Loading Stands, No. 18 .....	1.50	Drum Net for D. D. Dryer .....	7.50
Multiple Weight, Unit 60 Roll ca-		Apron for Higloss Machine .....	6.00
capacity .....	27.00	Rigid Style Hanger No. 5 .....	3.00
Multiple Weight, Unit 108 Roll ca-		Reconditioning A & B Printer Head...	22.50
capacity .....	48.00	Apron for Economy Dryer .....	6.50
		Midget Masks .....	2.00

## PAKO FILMACHINE

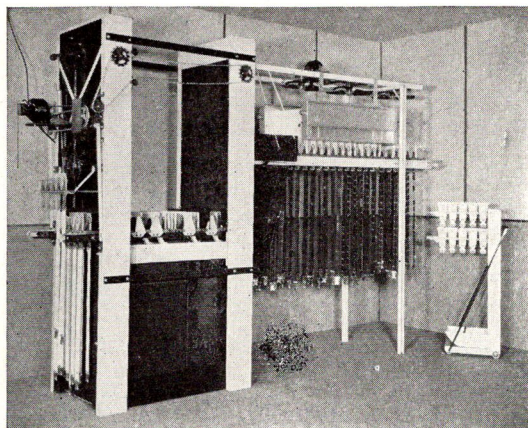


Lower production costs increase profits. The only manual operation required in the darkroom is to attach film to Pako Hangers and place hangers on loading station of FILMACHINE. The rest is done entirely automatically. It is motor driven and takes rolls from the loading station and carries them through the stages of development—fixing, washing and drying. They are allowed to remain in each bath for only a timed period during which they are gently agitated as recommended by leading authorities.

List—No Accessories ..... \$1020.00

## FILMACHINE JUNIOR

Designed for medium size and smaller finishing laboratories where the larger capacity FILMACHINE is not needed. Has about half the capacity of the FILMACHINE—up to 150 rolls per hour. It, too, is entirely automatic except for loading and unloading. An amazingly simple speed control is built into the Junior by which the speed may be instantly regulated to suit varying requirements by merely moving a pointer.

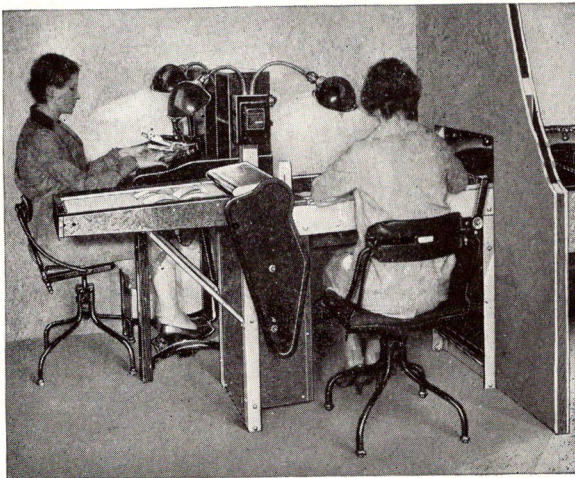
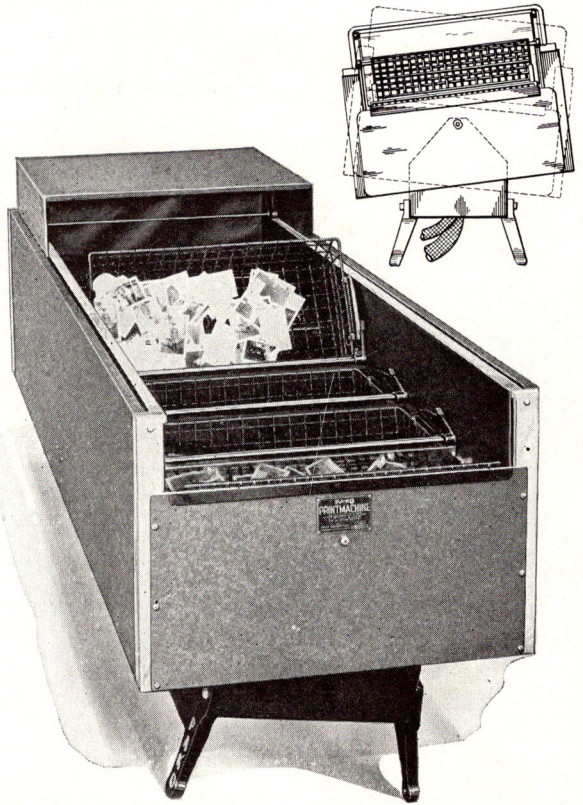


List—No Accessories .....\$990.00

## PAKO PRINTMACHINE

A modern, automatic development of the Gang Rocker and Rocker System. Prints are placed in its first bath (acid short stop) and are then automatically transferred from bath to bath at stated intervals finally being deposited on the portable drain rack from which they are taken to the dryer. The PRINTMACHINE rocks gently from side to side continuously, thoroughly agitating prints.

List Price .....\$750.00



## PAKODOPER

This is a fast developing machine for the printing room. This new PAKODOPER is simplified in construction over the older model, slightly smaller in size and lower in price. Easily handles the work of two or three fast printers. (Approximately one thousand prints per hour.)

List Price .....\$330.00

**RETOUCHING MEDIUMS**

Hammer Retouching Varnish, 16 oz....\$ .60	Master Touch Fluid .....\$ .50
Eastman Retouching Fluid, 1 oz. bot... .35	Bordeaux Fluid ..... .50

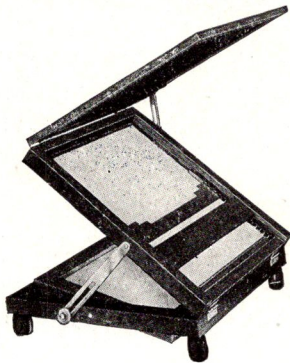
**REDUCERS**

For reducing over-developed negatives or local reduction where necessary.

Eastman Abrasive Reducer, Small jar.\$ .45	Eastman Reducer and Stain Remover
Putz Pomade. Applied with the tip of the finger ..... .15	Tube .....\$ .10
	Verebest Reducer, 3 oz. bottle..... .25

**RETOUCHING STAND**

**CENTURY FOLDING RETOUCHING STAND**

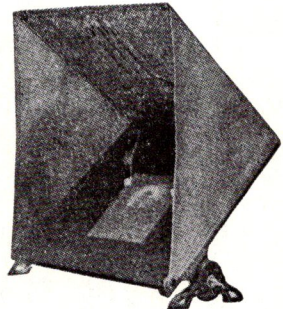


*R. O. C.*

Accommodates negatives up to 11 x 14, is light and folds compactly. Pockets in the top make convenient holders for pencils and etching tools. Angle for working can be adjusted .....\$4.95

**R. O. C. RETOUCHING FRAME**

Holds any size negative from 8 x 10 down. Frame is made of hard wood, fitted with adjustable mirror reflector and ground glass. Sliding drawer for pencil also provided. Closes into small space when not in use .....\$5.40



*Century*

**BESTEST RUBBER CEMENT**

	Per Can		Per Can
Tubes .....	\$ .15	Pint Cans .....	\$ .65
Four Ounce Cans .....	.25	Quart Cans .....	1.25
Half Pint Cans .....	.35	Gallon Cans .....	3.50

**TRANSPARENT FLEXIBLE RULER**

The Transparent Ruler is something new. It consists of two transparent sheets which are welded together and which contain ruled lines and squares between the two layers so that the ruling will not wear off.

1 in.x6 in.....\$ .25	1 in.x12 in.....\$ .50	2 in.x12 in.....\$ .75	2 in.x18 in.....\$1.50
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# SCALES

## SODA SCALE

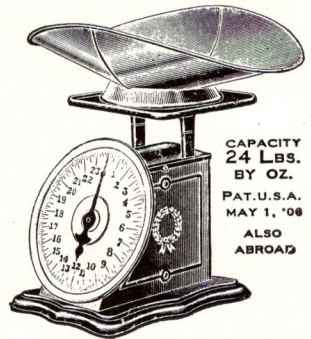
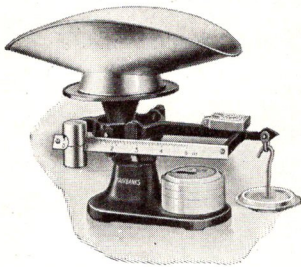
Of strong construction, built for hard wear. Accurate and dependable. Weighs from 1 oz. to 25 lbs.

No. 11515 .....\$9.75

The T46 has a plainly marked white dial with glass to protect it. A screw adjustment enables you to adjust the scale accurately and weighs up to 12 lbs. The scoop is removable.

Price .....\$3.50

Similar scale to weigh to 24 lbs.  
No. T26. Price .....\$3.00



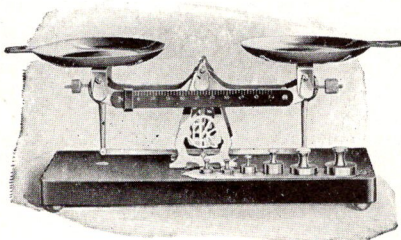
No. C4. Capacity is four pounds scaled into half ounces. It has silver finished dial. Furnished with claw and highly polished scoop .....\$3.25

## EASTMAN STUDIO SCALE

A two pan scale accurately built for photographic use. A graduated beam with sliding weight is provided for weighing from 1 to 50 grains and metal weights of 50 grains, 1/4, 1/2, 1 and 2 ounces.

Finished in black enameled parts and nickel plated pans. The base is mahogany finish, 9 in. long .....\$3.60

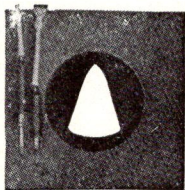
Extra set of weights ..... .90



## SHUTTERS

### THE PACKARD SHUTTER

This shutter designed for studio use, working inside the camera is made in several models, No. 5 giving time exposures only. No. 6 giving time and instantaneous exposures by inserting a metal pin through the lens board into the shutter. No. 8 is fitted with two bulbs and gives time or instantaneous exposures at will. The Red Bulb being for time exposures and the White Bulb for instantaneous exposures.

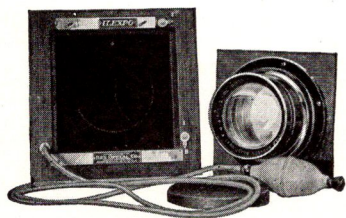


Opening Diam.	Outside Size	No. 5			No. 6			No. 8		
		No. 5	No. 6	No. 8	No. 5	No. 6	No. 8	No. 5	No. 6	No. 8
1 1/2 in.	3 1/4 in.	\$5.85	\$7.20							
1 3/4 in.	3 1/2 in.	5.85	7.20							
2 in.	4 in.	5.85	7.65							
2 1/4 in.	4 1/2 in.	6.30	7.65							
2 1/2 in.	4 3/4 in.	6.98	7.65	\$9.00						
2 3/4 in.	5 in.	6.98	8.10	9.45						
Opening Diam.	Outside Size	No. 5			No. 6			No. 8		
3 in.	5 3/4 in.	\$6.98	\$8.10	\$9.68						
3 1/4 in.	6 in.	6.98	8.10	9.68						
3 1/2 in.	6 1/2 in.	6.98	8.10	9.90						
4 in.	7 1/2 in.	7.43	8.78	10.80						
4 1/2 in.	8 in.	7.68	9.90	11.25						
5 in.	8 1/2 in.	8.33	10.80	11.70						

### ILEXPO SHUTTER

A behind-the-lens Studio shutter so constructed as to permit its use with innumerable lens equipments. Each lens is fitted to an individual insert board which is supplied at \$1.50.

Bulb and tube furnished with each Ilexpo Shutter.



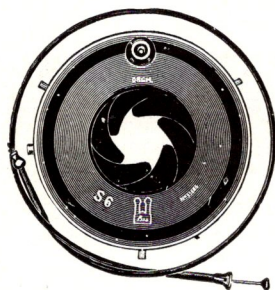
No.	Light Aperture	Lens Opening	Outside Dimensions	Price
1	4 1/8"	4 1/2"	9" x 9"	\$18.00
2	4 1/8"	4 1/2"	10" x 10"	19.00

### CONLEY SILENT STUDIO SHUTTERS

Opening	Price	Opening	Price
2"	\$5.40	4 1/2"	\$7.20
2 1/2"	5.40	5"	8.10
3"	5.85	5 1/2"	9.00
3 1/2"	6.30	6"	9.90
4"	6.75		

### "LUC" BEFORE-THE-LENS SHUTTERS

The mechanical construction of this "before the lens" shutter is simple and reliable.



Releases for Luc shutter, 20"	Price	24"	Price	40"	Price
No. 1 Luc Shutter 1-3/16	\$ .60	Diam. & Release	\$ .90	Diam. & Release	\$1.35
No. 2 Luc Shutter 1 3/8		Diam. & Release		Diam. & Release	\$ 6.65
No. 3 Luc Shutter 1-9/16		Diam. & Release		Diam. & Release	8.00
No. 4 Luc Shutter 1 3/4		Diam. & Release		Diam. & Release	9.00
No. 5 Luc Shutter 2		Diam. & Release		Diam. & Release	9.30
No. 6 Luc Shutter 2 3/8		Diam. & Release		Diam. & Release	10.00
No. 7 Luc Shutter 2 3/4		Diam. & Release		Diam. & Release	10.65
No. 8 Luc Shutter 3 1/8		Diam. & Release		Diam. & Release	10.65
No. 9 Luc Shutter 3-9/16		Diam. & Release		Diam. & Release	12.00
No. 10 Luc Shutter 3-15/16		Diam. & Release		Diam. & Release	13.30
		Diam. & Release		Diam. & Release	14.65
		Diam. & Release		Diam. & Release	16.00

### STIRRING RODS

10" Hard Rubber	\$ .25
Heavy Glass Rod with flat end	.10
Thermometer Stirring Rod 9 1/4 in. long	1.25
E. K. Thermometer Stirring Rod 9 1/4 in. long	1.25
Medo Thermometer Stirring Rod	.79
Celluloid Rod	.15

### VISCOSE SPONGES

To dry any length of roll or Cine-Film, sandwich the film band between two pieces of Viscose sponge and pass down under gentle even pressure.

No.	Size Dry	Size Wet	Absorbs	Price
No. 1	2 1/2 x 3 x 1 1/4"	3 1/4 x 3 1/2 x 1 3/4"	4 ozs.	\$ .75
No. 2	4 3/4 x 3 x 1 1/4"	6 x 3 1/2 x 1 3/4"	8 ozs.	1.50
No. 3	5 1/4 x 3 1/2 x 1 1/4"	6 3/4 x 3 1/2 x 1 3/4"	12 ozs.	2.25
No. 4	6 1/4 x 4 x 2"	7 x 4 1/4 x 2 1/2"	18 ozs.	4.00

SLIDES FOR FILM OR PLATE HOLDERS

	2¼x3¼	3¼x4¼	3¼x5½	4x5	5x7	6½x8½	8x10	11x14
Eastman .....	—	.45	—	.50	.60	.80	1.00	—
Graphic .....	—	.45	.50	.50	—	—	—	—
Graflex Holders .....	.40	.45	.50	.50	.60	—	—	—
Sterling .....	—	—	—	—	—	—	1.00	1.60
Graflex Magazine .....	.60	.75	.75	.75	.90	—	—	—
Century .....	—	—	—	—	.60	.80	1.00	—
Graflex Adapters .....	.40	.45	.50	.50	.60	—	—	—
Kodak Adapters .....	—	.25	.25	.25	.30	—	—	—

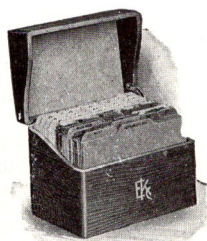
STUDIO REGISTERS

THE EASTMAN LOOSE LEAF STUDIO REGISTER

Combines a complete history of all orders with a record of cash and credit transactions .....\$7.20

EASTMAN CARD INDEX STUDIO REGISTER

Complete, including oak desk box and transfer box, 300 printed cards and two sets of alphabetical, monthly and daily guide cards.....\$10.80



SQUEEGEES

Flat velvet smooth rubber inserted in polished hard wood handle. For use on Ferrotypes plates, Carbro Process, etc.

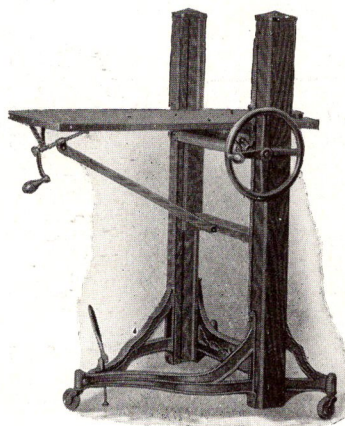
6 in. ....	\$ .40	8 in. ....	\$ .50
10 in. ....	.75	12 in. ....	.90
15 in. ....			1.25



SELF TIMERS

Kodak Self Timer .....	\$1.25
Auto Knip Self Timer .....	1.75

CENTURY SEMI-CENTENNIAL STAND



The Semi-Centennial is an ideal Stand for studio cameras. Its bed may be elevated to a height of 49 inches or dropped to within 14 inches of the floor, an especial advantage in child portraiture. The platform may be tilted by an easily operated screw adjustment, raised and lowered by rack and pinion, and the weight of the camera is balanced by heavy springs.

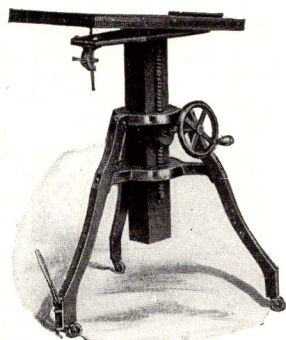
The wide-spreading triangular metal base is fitted with three noiseless castors and a jack. Floor space occupied, 29x33 inches. Finish—dark mahogany. Platform covered with brown felt.

PRICES

Century Semi-Centennial Stand No. 1A with platform, 30x17 inches, for 8x10 cameras .....	\$54.00
No. 2A with platform, 37x17 inches, for 11x14 cameras .....	58.50
Extra Castors, each .....	1.00



**No. 4A CENTURY STUDIO STAND**



This stand is very simple, strong, and durable. It is raised and lowered by a positive self-locking spiral device. The stand rests upon three felt castors and is equipped with Century Camera Jack operated by the foot. The top is covered with felt and is fitted with the Century Automatic Tilting Device. Made of hardwood, dark mahogany stained; metal parts enameled.

**PRICES**

Century Studio Stand No. 4A .....	\$40.50
Extra Castors for replacement, each .....	.75

**FOLMER COMPACT STAND**

For commercial work or home portraiture, this stand will immediately appeal to the photographer who appreciates good equipment. It is strong, rigid, and extremely light in weight. It may be raised to 53 inches or dropped to 26½ inches from the floor. The center post is a hollow brass tube sliding in aluminum castings while metal braces firmly hold the legs. The felt-covered revolving top is 6¾x9½ inches and may be tilted and locked at any angle up to 90 degrees, at which point it may be used for vertical pictures. Its metal parts are sand-blasted and finished in bronze, the woodwork in mahogany. The weight complete is six pounds twelve ounces.

Folmer Compact Stand .....	\$18.90
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**SYNCHRONIZERS**

**MENDELSON SPEED GUN**

MODEL C—A precision gun for professional use. Operates at shutter speeds up to 1/1000th second on between the lens shutters.

For Speed Graphics .....	\$12.50
Other type Cameras, fitting charge .....	3.50

MODEL F—For Leica & Contax cameras using one or two bulbs, perfect synchronization at all speeds.....\$17.50

JUNIOR MODEL—For speeds up to 1/50 second. Stops action and makes professional type pictures. Makes every camera a press camera .....\$ 7.50



**MODEL G**

For Graflex cameras, makes instantaneous exposures of approximately 1/50th second utilizing the automatic features of the Graflex curtain shutter .....complete \$12.50

### UNIVERSAL SPEEDGUN

Fits all cameras, old or new style compur shutters, Volute, Ibsor, Acme and even simple spring shutters. Fitted with new style aplanatic reflector which gives from 50 to 75% more light. An all electric gun, the action of the cable release is controlled by a specially wound solenoid tripper attached to the battery case. Uses three 1.5 volt dry cells.

Price complete with Reflector .....	\$25.00
7½" Aplanatic Reflector .....	3.00
Multiple Flash Assembly .....	10.00
Remote Control .....	3.00
No. 75 Photoflash Relay .....	6.50

### HISPEED SYNCHRO FLASH

A speed gun developed by a newspaper man for news photographers. The Hispeed gun gives you perfect pictures and perfect synchronization at all speeds. Equipped with latest push pull socket which eliminates screwing the bulb into the socket. The new combination camera handle holds the electrical current source and support for the flash lamp with its reflector. An unconditional guarantee for one year from date of purchase is given with each lamp.

Price .....	\$15.00
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### LEY SYNCHRONIZE FLASHFLECTOR

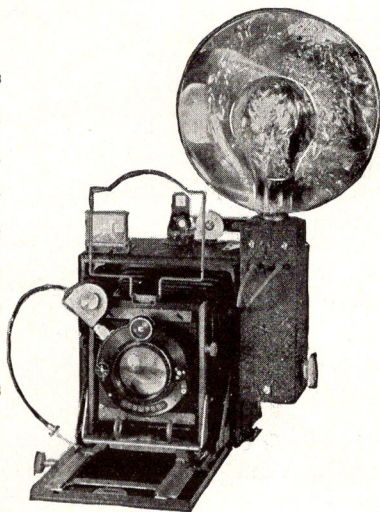
Made to fit from No. 1 to 3A Kodaks or similar cameras. Complete all wired up and ready to attach to camera including battery case, synchronizer, reflector, base plate and screws to camera, bulb adaptor, bulb for testing.

Price .....	\$4.00
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### KALART SPEED GUNS

Assures proper shutter synchronization at ALL speeds with one, two or three flash bulbs. It will operate with any between the lens shutter such as the Compur, Ilex, and Optimo, including the new Ring Set Compur Shutter. All miniature cameras including the focal plane shuttered Leica and Contax cameras can also be operated with the Kalart Photoflash Synchronizing Outfit at the highest speeds.

Improved Model "C" Synchronizing Outfit includes Kalart Synchronizer, Battery Case with Batteries and a Chrome-Plated Reflector.

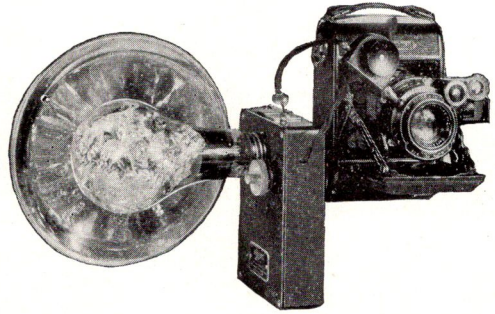


Price .....	\$22.50
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**KALART SPEED FLASH**

The Kalart Speed Flash, attaches to and operates with all Compur Shuttered Cameras such as Retina, Recomar, Maximar, Rolleiflex, Graphic, Avus, Welta, Contax, Leica and many others.

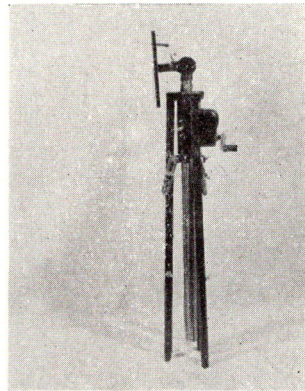
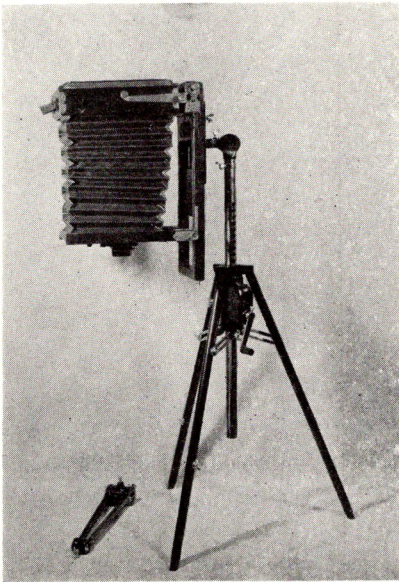
Price .....\$11.25



**TRIPODS**

**MEDO DE LUXE TRIPOD**

**TELESCOPIC METAL TRIPOD**



This tripod is of unequalled rigidity and adaptable to every requirement. Precision machine-made entirely of Aluminum, Steel and Bronze, yet light in weight and transportable. It is instantly set up or folded and sufficiently rigid to support an 11x14 camera. Finished in black enamel and nickel, smart in appearance. The rising and falling mechanism is operated by a crank, is extremely smooth, rapid and precise.

**WILL SUPPORT A WEIGHT OF 200 LBS. WITHOUT VIBRATION.** The tripod-head has four holes permitting the attachment of any camera, and the head is adjusted by a universal joint, with blocking screws, permitting every possible position of the camera from vertical to horizontal. The camera can thus be pointed instantly from the sky or to the ground.

The legs are held in place by a center lock in any position, and the tubes contain extension legs to obtain a perfect level on uneven ground.

The ends of the tubes being leveled, insures perfect adherence to any surface without digging. Especially designed for the studio, out-door work, museums, reporting, industrial work, and cine camera. By attaching a drawing board to the tripod-head, this instrument makes an ideal easel, drawing table, or modeling stand for painters, draftsmen and sculptor.

Weight 16 lbs., total height fully extended: 6 feet 3". Can also be used as low as 35 inches from the ground. Folded: Length, 39 inches, no larger than ordinary folding studio stand.

Price .....\$50.00

**EXTENSION ARM** for tripod can be attached to centre arm enabling you to shoot from the ground up (shown in large illustration) .....\$10.00

### EASTKO TRIPOD



The Eastko is an exceptionally strong and rigid three-section tripod made of selected cherry with head attached. The two lower sections telescope into the third which is firmly attached to the top. The tripod screw is adjustable for shallow or deep sockets. The length,

closed, is 21½ inches, extended, 53 inches, the head is 4½ inches, and the weight, 51 ounces. The finish is dark mahogany.

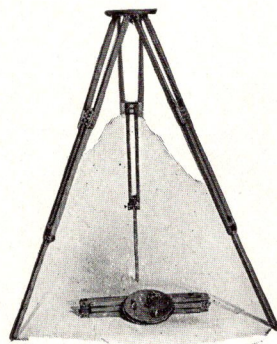
Eastko Tripod .....\$6.30

### CROWN TRIPODS

A rigid, four-section tripod, made of selected cherry. The two lower sections telescope into the third upon which the upper section folds back. Binding screws are nondetachable. Expansion brackets in the upper section and taper pins prevent side play. An extra tripod socket in top, set off center, is useful for counterbalancing the weight when a long bellows extension is employed.

The Crown Jr. is a solid, three-section tripod for hand cameras. Made of cherry, finished in black with carrying handle attached.

The Unit Crown is a three-section tripod with head attached, made of cherry, finished in black lacquer.



Crown Tripod	Length Closed	Length Extended	Weight	Diameter of top	Price
No. 1	16¼ in.	4-1/3 ft.	36 oz.	4 in.	8.00
No. 2	17¼ in.	4-2/3 ft.	65 oz.	6 in.	8.80
No. 4	20 in.	5½ ft.	90 oz.	6½ in.	10.80
Unit	18½ in.	3-2/3 ft.	31 oz.	3½ in.	\$ 6.08
Junior	17 in.	3-2/3 ft.	31 oz.	3¾ in.	6.08

### PROFESSIONAL TRIPOD

This tripod follows closely the construction of the Crown Tripod except that it is made in three sections, the lower one of which telescopes into the center. It offers a strong and rigid support for cameras up to and including 14 x 17 and will be found very durable. Length closed, 24½ inches; extended, 5 feet; weight, 11¼ pounds; diameter of top,

11½ inches. Price .....\$19.80

### MEDO POCKET TRIPOD

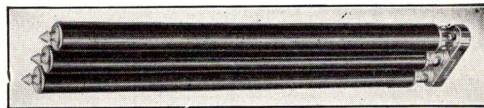
One of the most compact tripods on the market. 8" long, 44" extended, 8 section, weight 16 oz. Rubber tripod stays on legs.....\$8.00

### MEDO LEATHER COVERED TRIPODS

The legs are made of brass tubing, light and compact and very rigid. The sections each telescope neatly to give smallest collapsed size without sacrifice of strength. Leather handle attached to tripod.

	Closed	Extended	Weight	Price
4 Section	15"	48"	21 oz.	\$4.00
5 Section	14"	48"	21 oz.	5.00
6 Section	11"	48"	25 oz.	6.00

**KODAK METAL TRIPODS**



**DETAILS AND PRICES**

	Sections	Closed	Extended	Weight	Price
Kodak Metal Tripod No. 0	3	15½ inches	39½ inches	15 ounces.....	\$2.48
Kodak Metal Tripod No. 1	4	15 inches	48½ inches	24½ ounces.....	4.05
Kodak Metal Tripod No. 2	5	13½ inches	49½ inches	25 ounces.....	4.50
Leather Carrying Case, for Nos. 0 to 2, inclusive					2.43
Rubber Tips, for Metal Tripod Spurs (per set of 3)					.25

**SINGLE LEGS FOR CROWN TRIPODS**

No. 1 Size	\$2.70	No. 4 Size	\$3.60
No. 2 Size	\$2.93		

**TOPS COMPLETE FOR CROWN TRIPODS**

No. 1 Size	\$1.86	No. 4 Size	\$2.70
No. 2 Size	\$2.25		

**CROWN TILTING TOPS**

No. 2	\$3.60	No. 4	\$4.95
Professional	\$13.50		

**HOME PORTRAIT TRIPOD STANDS**

**LEY HOME PORTRAIT STAND**

A NEW LIGHTWEIGHT TRIPOD WITH A TILTING TRIPOD TOP

It is made of Shelby steel tubing—the central support being in three sections. It is equipped with a spring clamp lock and folds to 23½ inches, closed.

The tripod works satisfactorily at any height from 2 ft. to 5 ft. and is strong enough to bear the full weight of a man.

The weight is only 7¼ lbs. Price..... \$19.30



**No. 10 CAMERA STAND**

The heavy telescoping tubes are solidly plated in oxidized copper and chromium representing a work of art as well as extreme usefulness. It measures 24 inches when folded and reaches an elevation of 5½ feet when fully extended. The stand complete weighs 11½ pounds.

Price ..... \$20.00

**No. 12 CAMERA STAND**

The No. 12 is especially designed for commercial or banquet work. Its construction is exactly like the No. 10 with the only exception that it has an extra outside tubular extension, which permits its elevation to 7 feet from the ground.

Price ..... \$25.00

### TRIPOD SHOES

Non slip tripod shoes are backed by hard rubber with a sponge rubber facing. They will not mar the finest finished floor.

Style "A" to fit small or medium size tripod. Minimum size leg $\frac{1}{2} \times \frac{1}{2}$ , maximum size size leg $\frac{1}{2} \times \frac{3}{8}$ .....	\$2.50
Style "B" to fit crown or combination Nos. 2½, 3 or 3½, minimum size leg $\frac{1}{2} \times 11/16$ , maximum size leg $\frac{5}{8} \times \frac{3}{4}$ .....	2.75
Style "C" to fit crown tripod No. 4, minimum size leg $\frac{3}{4} \times \frac{3}{4}$ , maximum $\frac{3}{4} \times 1$ .....	3.00
Style "D" to fit combination tripod No. 4, minimum size leg $9/16 \times 11/16$ , maximum size leg $9/16 \times \frac{7}{8}$ .....	2.75

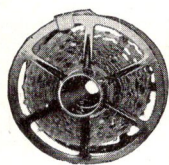
### KODAK TANKS

ROLL FILM		PACK	
2¼" Film Tank .....	\$4.50	No. 1 Tank .....	\$1.56
2½" Film Tank .....	5.85	No. 2 Tank .....	3.12
3½" Film Tank .....	6.75		

### CORREX AND REELO DEVELOPING OUTFITS FOR ROLL FILM

Reelo Developing Tank, Model A (for Leica and all other 35 mm. motion picture film) All Bakelite Construction, complete with Reel and Special Film-trimming Tool .....	\$7.25
Reelo Developing Tank, Model B (for No. 127 roll film) All Bakelite Construction, Complete with Reel .....	7.50
Reelo Developing Tank, Model C (for No. 120 roll film) All Bakelite Construction, Complete with Reel .....	7.50
Correx Developing Tank, for Leica and all other 35 mm. motion picture film, All Bakelite Construction, Complete with Reel, Celluloid Apron, and Hand Agitator .....	9.75
Extra Apron for Leica Correx .....	3.30

### CORREX DEVELOPING OUTFITS



No. 731 for Vest Pocket 127— $1\frac{5}{8} \times 2\frac{1}{2}$ in. ....	\$10.25
No. 733 for Roll film 120-620— $2\frac{1}{4} \times 3\frac{1}{4}$ in. ....	10.75
No. 736 for Roll film 616-116— $2\frac{1}{2} \times 4\frac{1}{4}$ in. ....	11.75

### HOLLYWOOD ROTO TANK

Users of Contax, Leica, Sept, and all miniature sizes using standard 35 mm. motion picture film or 16 mm. are able to duplicate the best professional results with the Roto Tank.

25 ft. of 35 mm. or 50 ft. of 16 mm. ....	\$25.00	Reel only .....	\$13.50
16 mm. or 35 mm. Apron .....	13.50	Solution Cup with Handle .....	6.50

### DALLON TANKS

Regular Tank for Cut Film, Film Packs and Plates

Size	Capacity	Price	Size	Capacity	Price
45x107 mm. ....	25 oz.	\$7.50	$2\frac{1}{4} \times 3\frac{1}{4}$ .....	32 oz.	\$8.25
4.5x 6 cm. ....	13 oz.	7.50	$3\frac{1}{4} \times 4\frac{1}{4}$ .....	54 oz.	8.75
6.5x 9 cm. ....	28 oz.	8.25	$3\frac{1}{4} \times 5\frac{1}{2}$ .....	75 oz.	9.25
9x 12 cm. ....	64 oz.	9.25	4 x5 .....	75 oz.	9.25
6x 13 cm. ....	32 oz.	7.75	5 x7 .....	128 oz.	13.75
10x 15 cm. ....	80 oz.	9.25			

**PERPLEX ADJUSTABLE DEVELOPING TANK**

The only Adjustable Tank to take the following films. No. 127; No. 120; No. 116; 35 mm.; 12 Exp.

No Metal Parts. No Apron. Easy to load and simple to operate.  
 Price ..... \$8.50

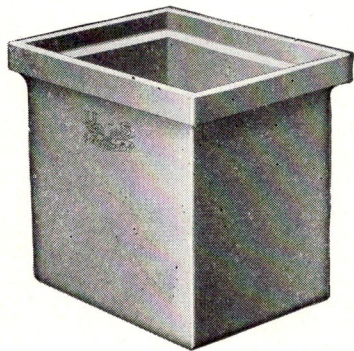
**PERKINO TANK**

For all 35 mm. Films ..... \$9.50

**NIKOR DEVELOPING TANK**

*Easily Loaded      Quickly Cleaned      Economical      Durable      Uniquely Different*

An apparatus of most modern construction offering exceptional ease in operation and convenience in handling, the NIKOR provides the ideal method for the proper developing of your negative. Made entirely of highest grade stainless steel. Solder is eliminated by means of welding. These two features remove the slightest possibility of metallic chemical fog.



No. 1 for V.P. rolls ..... \$6.75  
 No. 2 for No. 117 and No. 120 rolls ..... 6.75  
 No. 3 for 5 ft. lengths 35 mm. film..... 6.75

**STANDARD FILM AND PLATE TANKS No. 144**

This tank is of solid and substantial construction and is ideal for developing or fixing of 5x7 and 8x10 film and plate hangers. These tanks are chemical-proof and alkali-proof throughout the body—not merely protected by a surface glazing. Our glaze will not crack or craze. The inside dimensions below the hanger ledge are

10¾x7¾x10¼. Price.....\$8.50

**TRIPOD ACCESSORIES**

Kodapod with toothed jaws.....\$1.58      Optipod, screw clamp, ball socket..... \$1.13

**EASTMAN TRIPOD BRACE**

Consists of three adjustable brass arms joined at the center. Clamps at the outer ends grasp the tripod legs and prevent collapse of the tripod when lifted for moving from place to place.

Eastman Tripod Brace .....\$1.35

# TANKS

## STERLING STEEL ENAMELED PHOTO FINISHING OUTFITS

Price on Ten Gallon Sizes

Blue tanks, 5x12x42", each .....	\$12.00
White tanks, 5x12x42", each.....	15.00
Lids for above tanks, each.....	1.75
Water-Jackets for tanks, each.....	36.00
Lids for Water Jackets, each.....	3.90

Size No. 12 For New 8-Exposure No. 116 Films

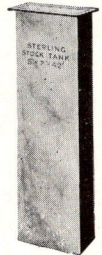
Blue tanks, 5x12x47", each .....	\$15.00
White tanks, 5x12x47", each .....	16.00
Lids for above tanks, each .....	1.75
Water-Jackets for tanks, each .....	37.50
Lids for water-jackets, each.....	3.90
Tanks, 12 gallons capacity.	

No. 19 Size For New 8-Exposure No. 116 Films

Blue tanks 8x12x47", each.....	\$17.50
White tanks 8x12x47", each .....	19.00
Lids for above tanks, each .....	2.10
Water-jackets for tanks, each .....	46.50
Lids for water jacket, each .....	4.50
Tanks, 19 gallon capacity.	

Prices on Seventeen Gallon Size

Blue tanks, 8x12x42" each .....	\$16.50
White tanks, 8x12x42" each .....	18.00
Lids for above tanks, each .....	2.10
Water-Jackets for above tanks, each....	45.00
Lids for Water-Jackets, each .....	4.50



## STERLING COMMERCIAL OUTFITS IN TWO SIZES

For Developing Plates and Cut Films

Large size accomodates 5x7 and 8x10 Eastman Portrait Hangers. Small size for 5x7's only.

SIZE No. 2—For 5x7 Hangers only. Complete. Two White Tanks and water-jacket .....

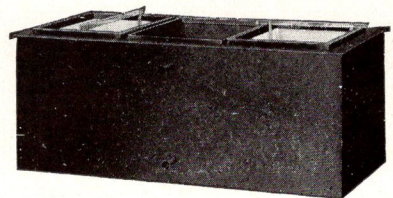
Separate tanks: 1 gallon capacity

White tank 4½x7½x7½" deep.....\$6.60

Two removable tanks enclosed in water-jacket. Middle space for washing. Circulating water for temperature control.

SIZE No. 1—For both 5x7 and 8x10's. Used interchangeably.

STYLE A—Outfit complete Blue and White tanks and water-jackets .....



STYLE B—Outfit complete. Two White tanks and water-jacket .....

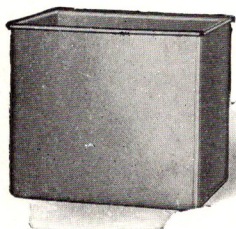
Separate Tanks: 3½ gal. capacity

BLUE TANK—For 5x7—8x10 .....

WHITE TANK—For 5x7—8x10 .....



**KODAK DEVELOPING BOX No. 1**



This tank provides a swift and easy means to uniform development of cut film. It takes twelve films, each suspended in the solution from a Kodak Cut Film Developing Hanger. Development proceeds by the time and temperature method. The tank is made of acid-resisting metal and measures  $4\frac{5}{8} \times 5\frac{1}{4} \times 6$  inches.

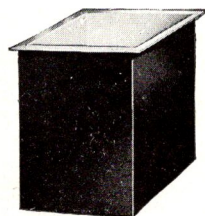
Kodak Developing Box, No. 1, without hangers .....\$2.25  
 Kodak Developing Hangers ..... .27

**STERLING STEEL ENAMELED DEVELOPING TANKS**

These Tanks are acid-proof, built for service; of triple coated enamel.

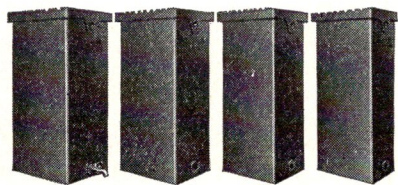
Size  $7\frac{1}{2} \times 10\frac{1}{2} \times 10\frac{1}{2}$  inches.

White Enameled Tanks, each .....\$8.50  
 Royal Blue Enameled Tanks, each ..... 7.50



**CERAMIC STONWARE DEEP TANKS**

For the photo finishing plant these tanks are the standard equipment. Made of heavily glazed solid stoneware in one piece. Guaranteed not to crack or corrode. Will accommodate 8 exposures. Leak proof, acid proof.



Gallon	Length Inches	Width Inches	Depth Inches	Price
14	7 $\frac{1}{4}$	9 $\frac{1}{2}$	47	\$25.20
18	9 $\frac{1}{2}$	9 $\frac{1}{2}$	47	28.80
20	10 $\frac{1}{2}$	9 $\frac{1}{2}$	47	30.60
24	12 $\frac{1}{2}$	9 $\frac{1}{2}$	47	34.65
48	20 $\frac{1}{4}$	11 $\frac{1}{4}$	48 $\frac{3}{4}$	49.50

Stone Faucets fitted to outlets in any of the above tanks, including coupling..... \$11.70

The tanks can be furnished with top or bottom outlet at no additional charge.

**THERMOMETERS**

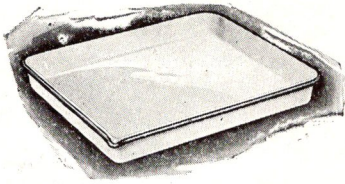
Medo Combination Tank & Tray .....\$ .50  
 Medo Bath Thermometer ..... .30  
 Kodak Tray Thermometer ..... .81  
 Medo Glass Stirring Rod ..... .79  
 Medo Correx Tank ..... .90  
 Kodak Stirring Rod ..... 1.25  
 Kodak Dry Mounting Press ..... 2.70

**T O N E R S**

Royal Re-developer Box, 6 tubes.....	\$ .65	Flemish Gold Toner .....	\$1.00
Meteor Sepiatoner 4 oz. ....	.50	Velox Re-devel. tube .....	.10

Burroughs Wellcome Toners, List on Request.

**T R A Y S**



**ENAMEL**

4x 6 .....	\$ .35	11x14 .....	\$1.35
5x 7 .....	.45	14x17 .....	2.25
7x 9 .....	.70	16x20 .....	2.75
8x10 .....	.75	20x24 .....	6.75
10x12 .....	.90	18x22 .....	5.45
23x28 .....			8.50

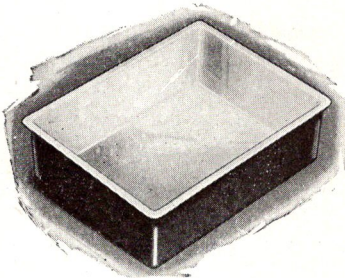
**HARD RUBBER**

4x 5 .....	\$ .99
5x 7 .....	1.17
5x 8 .....	1.40
7x 9 .....	1.80
8x10 .....	2.25
10x12 .....	3.15
12x16 .....	5.18
15x19 .....	8.65
21x26 .....	15.30

**GLASS TRAYS**

4 x6 .....	\$ .30
5½x8½ .....	.45
7 x9 .....	.70
8½x10½ .....	.90
For Roll Film .....	.85

**DEEP ENAMEL HYPO TRAYS**



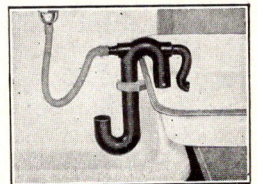
16 x 20 x 6" .....	\$ 8.40
18 x 24 x 6" .....	9.30
20 x 24 x 6" .....	9.90
20 x 30 x 6" .....	10.80

No. 170 Hypo Fixing Bath Tray 16"x11"x5" ..... \$1.75

**EASTMAN AUTOMATIC TRAY SIPHON**

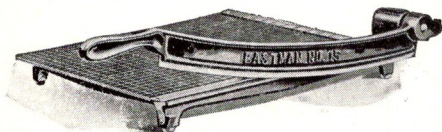
The tray siphon attaches to any water tap and is adjustable to any tray. Its efficiency makes it a device every photographer should add to his dark room equipment.

Price ..... \$4.50



### EASTMAN METAL TRIMMER

Consistent accuracy is the chief merit of this all-metal trimmer. The self-sharpening knife is of high grade tempered steel, so shaped and mounted as to cut with the minimum of effort and with perfect registry. The metal table is marked off in half-inch squares. These marks are engraved into the surface, not merely painted on, and the surface is then given a highly polished enamel finish. A brass ruler is attached to the table and a transparent trimming gauge is supplied. There are three sizes: No. 10 — 10 inches wide, No. 15 — 15 inches, and No. 20 — 20 inches.

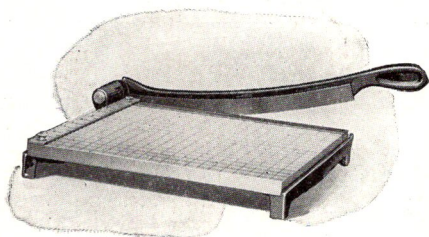


No. 10	No. 15	No. 20
\$13.50	\$18.00	\$22.50

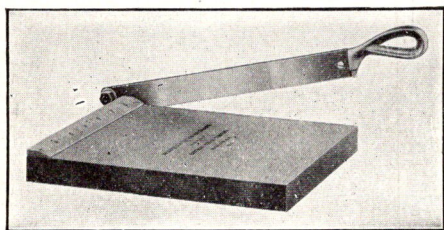
### EASTKO TRIMMER

A trimmer of unusual merit at a very low price. The bed is of wood, marked in half-inch squares. Has accurate wooden rule, substantial metal standards, and a knife of fine quality. All metal parts neatly enameled in black. Five sizes: No. 1 — 6 inches wide, No. 2 — 8 inches, No. 3 — 10 inches, No. 4 — 12 inches, and No. 5 — 15 inches.

	No. 2	No. 3	No. 4	No. 5
Eastko Trimmer .....	\$3.38	\$4.95	\$5.85	\$6.75
Transparent				
Trimming Gauge ....	.75	.75	.75	.75



### KODAK TRIMMING BOARDS



Staunchly constructed, in sizes suited to the amateur photographer's needs. The boards are of hard wood, the blades of fine quality steel, and the rules are plainly marked.

No. 1, capacity 5x5 inches .....	\$ .90
No. 2, capacity 7x7 inches .....	1.05

### DECKLE TRIMMER

Here is the ideal trimmer that deckles your photographs — giving a different and more attractive effect than heretofore obtained by straight edge trimming.

6" Blade .....	\$2.75
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### MILTON BRADLEY TRIMMERS

Diamond 6" Blade .....	\$ 1.80	Popular 15" Blade .....	\$ 8.95
Dandy 8" Blade .....	2.25	Crown 15" Blade .....	10.80
Studio 10" Blade .....	2.70	National 18" Blade .....	14.75
New Monarch 12" Blade .....	4.50	Springfield 24" Blade .....	21.60

**TRIMMERS**

REXO JR.	
No. 1—6½" Board .....	\$ 2.20
No. 2—8½" Board .....	2.75
No. 3—10½" Board .....	3.30
REXO	
No. 3—10½" Board .....	\$ 4.15
No. 4—12½" Board .....	5.25
No. 5—15½" Board .....	12.00



**EASTMAN REVOLVING PRINT TRIMMER**



A tool steel cutting wheel mounted in a wood handle for trimming prints in cutting forms. The wheel and post are removable.  
 Eastman Revolving Print Trimmer .....\$1.50  
 Extra Post and Wheel ..... .50

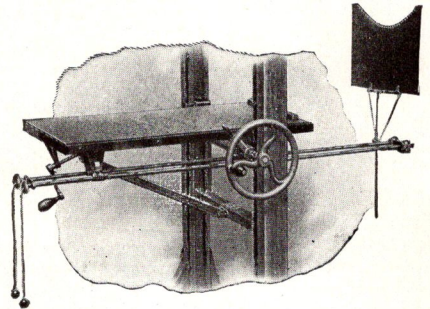
**VARNISH**

Hammer Retouching Varnish—16 oz. \$ .60	Hances Ground Glass Sub. .... \$ .60
Velox Lantern Slide Varnish ..... .40	Master Touch ..... .50

**VIGNETTERS**

**EASTMAN VIGNETTER**

Consists of two adjustable extension arms, 15 in. long. One of these holds the vignetting cord, the other clamps the camera bed. Finished in nickel .....\$2.70



**FOLMER VIGNETTER**

For use on studio cameras. Adjustable in all directions, controlled by cords and knobs on the ends of the metal tubes through which the cords pass. Complete .....\$14.40

**MEDO DARK ROOM VENTILATOR**

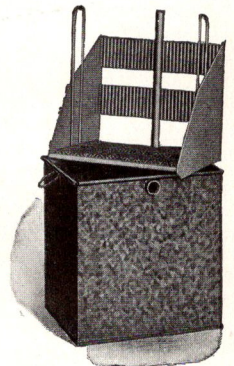
Is light, safe and gives constant air circulation in the dark room. Measures 12 in. long, 23 in. wide, 1 in. thick. Is readily installed in any door or partition. Enameled maroon. Price .....\$5.00

**WASHERS**

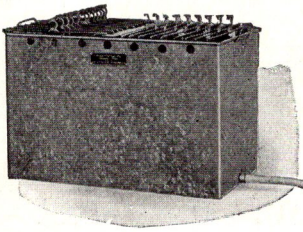
**EASTKO NEGATIVE WASHER**

The flow of water is through a pipe to the bottom of the tank from which point it rises evenly, flowing out at the top. The tank itself is of galvanized iron; the separate plate-holding rack is of zinc. Plates may be dried in the rack.

Eastko Negative Washer:	
For twenty-five 4x5 plates .....	\$4.95
For twenty-five 5x7 plates .....	5.85
For thirty 8x10 plates .....	7.65



**EASTMAN PORTRAIT FILM WASHING TANK**



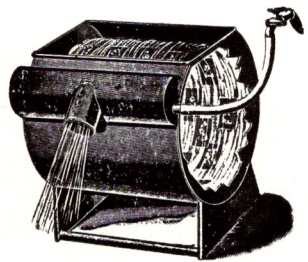
A very efficient film washer. Water flows in at bottom and rises evenly through perforations in a false bottom, escaping at the top. A crosspiece provides for washing both 5x7 and 8x10 films in the tank at the same time. Accommodates eighteen No. 2, or twenty-four No. 4, Portrait Film Hangers in the 8x10 size, and twenty-four No. 2, or thirty-two No. 4, 5x7 hangers. Made of heavy sheet metal.

Eastman Portrait Film Washing Tank ..... \$5.40

**IDEAL PRINT WASHER**

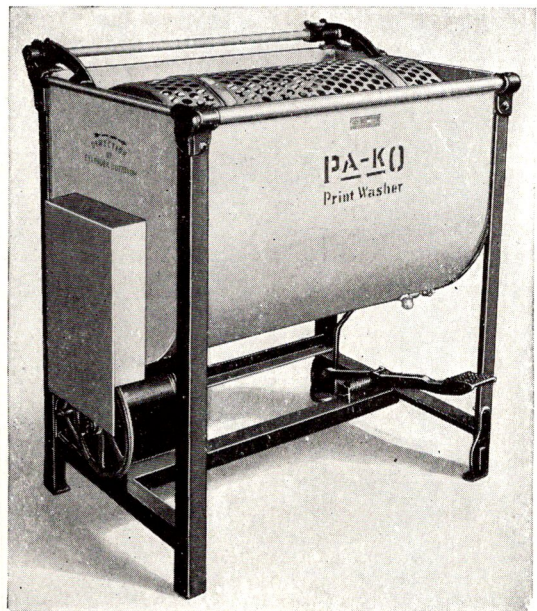
The small sizes are for amateur and the larger for professional use. This washer can be set on a shelf near the sink, thus economizing on space and making it more convenient. The water flows out on the same side as it enters after having circulated through the entire box, making the elimination of hypo quick and automatic.

No.	For Prints	Length	Diameter	Price
1	4 x 5	9 inches	9 inches.....	\$ 4.75
2	5 x 7	12 inches	12 inches.....	5.50
3	8 x10	18 inches	15 inches.....	16.50
4	11 x14	24 inches	18 inches.....	20.00



**THE PAKO PRINT WASHER**

Takes prints up to 11x14 in. The drum is raised by a foot treadle, keeping the arms out of the water. Electrically operated, it gives the thoroughness of hand washing without its inconvenience. 37 in. long, 24 in. wide, 36 in. high—Complete with 1/20 H.P. Motor. List ....\$125.00



**PAKO GLOBE PRINT WASHER**

For use where installation of the larger model is impracticable. Fits into a sink. Will handle a fair load of 8x10 prints—Complete with Motor.

Perforated drum rotates gently in the tank of constantly changing water.

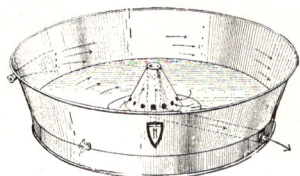
List .....\$75.00

In ordering electrically driven print washers please state whether D.C. or A.C. motor is required.

### INGENTO PRINT WASHER

No. 1—9" Dia. 4x5 ....\$2.75  
 No. 2—12" Dia. 5x7 .... 3.50  
 No. 3—16" Dia. Prof... 5.50

No. 4—20" Dia. Prof..\$6.75  
 No. 5—24" Dia. Prof... 8.00



### HALLDORSON CENTRIFUGAL WASHER

A swirling type of washer, for large prints, the centre cone keeping them separated and washing them very efficiently.

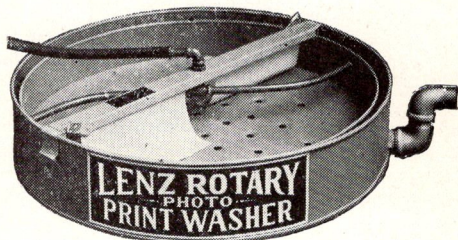
24 in.....\$11.70      30 in.....\$14.40      36 in.....\$16.65

### LENZ ROTARY WASHER

In this model the spray rotates a pivoted inner pan. Impurities washed off the prints pass through the perforations into the drain.

Tinned copper pans and brass pipings assure long use.

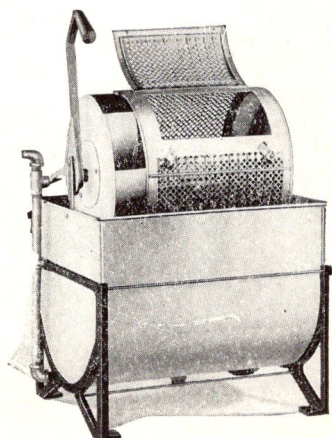
26-inch—For all sizes up to 11 x 14.....\$32.40  
 32-inch—For all sizes up to 14 x 17..... 37.80  
 38-inch—For all sizes up to 18 x 24..... 43.20



### LENZ CENTRIPETAL WASHER

A simple, efficient, low-priced washer. Water under pressure is sprayed into the washer at an angle, producing a whirlpool which separates and washes 100 to 300 prints thoroughly in 20 to 30 minutes.

24-inch—For all sizes up to 5 x 7.....\$15.00  
 30-inch—For all sizes up to 8 x 10..... 18.00



### THE KODAK PRINT WASHER

The Kodak Print Washer is operated by the flow of water actually necessary for washing the prints. It will thoroughly wash 200 prints, up to and including 3¼x5½ at one time and no power cost.

The air carried in with the water goes into a series of cups on one end of the cage and develops sufficient lifting power to turn the cage from 12 to 16 revolutions per minute.

Floor space required 22½x25 inches.....\$49.50

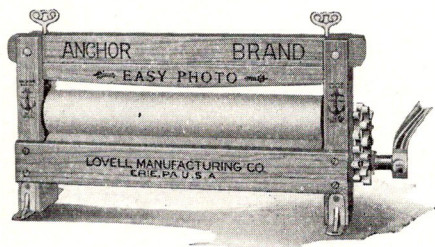
# WRINGERS

## EASY PHOTO WRINGER

Of medium price, yet perfect contact is assured in the Easy Photo Wringer and prints will not buckle.

Fitted with best quality Rubber Rolls which quickly eliminate the water.

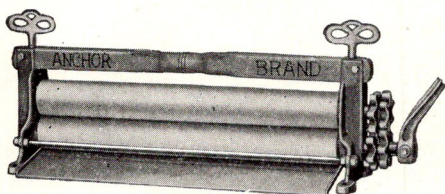
- No. 312—Easy Photo—12x2-inch rolls... \$10.50
- No. 314—Easy Photo—14x2-inch rolls... 11.63
- No. 316—Easy Photo—16x2-inch rolls... 12.75
- No. 318—Easy Photo—18x2-inch rolls... 13.88
- No. 320—Easy Photo—20x2-inch rolls... 15.00
- No. 322—Easy Photo—22x2-inch rolls... 16.75
- No. 324—Easy Photo—24x2-inch rolls... 17.25



## PENN PHOTO WRINGER

Features of the Penn—Machined shaft bearings, rolls ground true on lathes, cogs on drive ends, spiral release springs; can be bolted to table.

- No. 418—18x2¼-inch rolls ..... \$26.33
- No. 420—20x2¼-inch rolls ..... 27.67
- No. 422—22x2¼-inch rolls ..... 29.00
- No. 424—24x2¼-inch rolls ..... 30.33



## LAKESIDE PHOTO WRINGER

Double pressure screws with lock-nuts; rolls ground on lathes; cogs on drive end, and a pressure lift release feature this model.

A reversible drip pan is supplied.

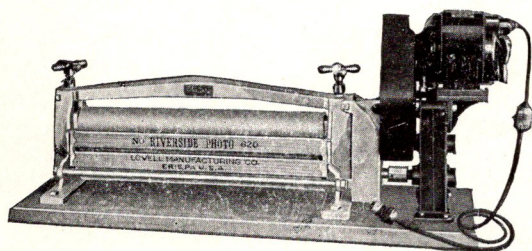
- No. 618—Lakeside—18x3-inch rolls ..... \$62.00
- No. 620—Lakeside—20x3-inch rolls ..... 64.00
- No. 622—Lakeside—22x3-inch rolls ..... 63.00
- No. 624—Lakeside—24x3-inch rolls ..... 68.00



## RIVERSIDE PHOTO WRINGER

Furnished with ¼ H. P. single-phase A.C. or D.C. motor.

A pressure lift releases contact when not in use. Continuous drive with cogs on drive end eliminate buckling of prints.



- |                           | D.C.<br>Motor | AC.<br>Motor |
|---------------------------|---------------|--------------|
| No. 618—Rolls 18x3 in.... | \$136.00      | \$126.67     |
| No. 620—Rolls 20x3 in.... | 140.00        | 130.67       |
| No. 622—Rolls 22x3 in.... | 144.00        | 134.67       |
| No. 624—Rolls 24x3 in.... | 148.00        | 138.57       |

## WAXING SOLUTION

For helping detail and adding luster to sepia prints. Especially effective on sepia-toned royal bromide prints. Apply evenly with canton flannel and rub into the surface. In 4-ounce bottles.

Waxing Solution, per bottle ..... \$ .50

## E. K. X-RAY DEVELOPER POWDERS

No. 2—Package containing 6 powders each sufficient to prepare 12 oz. ready-to-use solution ..... \$ .60

No. 3—Package sufficient to prepare 1 gallon ready-to-use solution..... .85

No. 4—Package sufficient to prepare 5 gallons ready-to-use solution..... 3.50

## X-RAY FIXING POWDERS, EASTMAN

No. 3—Package sufficient to prepare 1 gallon solution..... \$ .60

No. 4—Package sufficient to prepare 5 gallons of solution..... 2.50

## METRIC-AVOIRDUPOIS CONVERSION TABLE

Metric	Avoirdupois	Metric Equivalents	
1 gramme .....	15.5 grains	1 inch .....	25.4 mm.
2 grammes .....	31 grains	1 pound .....	453.59 grammes
4 grammes .....	62 grains	1 ounce .....	28.35 grammes
5 grammes .....	77 grains	1 grain .....	.0648 grammes
10 grammes .....	154 grains	1 gallon .....	3.785 litres
25 grammes .....	386 grains	1 quart .....	.946 litres
50 grammes .....	1.75 ounces	1 pint .....	473.18 ccs.
100 grammes .....	3.5 ounces	1 liquid ounce .....	29.574 ccs.
250 grammes .....	3.75 ounces		
10 ccs. ....	160 minims		
1000 ccs. ....	33 fl. ounces		

## STAIN REMOVER

### To Remove Stains from Hands

SOLUTION No. 1	Avoirdupois	Metric
Potassium Permanganate .....	¼ ounce	7.5 grams
Water .....	32 ounces	1.0 liter

SOLUTION No. 2	Avoirdupois	Metric
Sodium Bisulphite .....	16 ounces	480 grams
Water .....	32 ounces	1 liter

Rub the hands with a small amount of No. 1 Solution, rinse in water, then rub with the No. 2 Solution which removes the stain.

## TRAY CLEANER

### To Remove Oxidation Stains from Trays

	Avoirdupois	Metric
Water .....	32 ounces	1 liter
Potassium Bichromate .....	3 ounces	90 grams
Sulphuric Acid C. P. (E. K. Co.) .....	3 fl. oz.	96 cc.

Pour a small quantity of this solution into the tray to be cleaned. Rinse it about until it has access to all parts of the tray. Pour out and wash tray thoroughly six or eight times until all traces of cleaning solution disappear. This will remove developer oxidation stains, silver stains, and some dye stains and is a very useful cleaning agent.

*The formulas above are by the courtesy of the*  
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