

sinar**CAMERA &
ACCESSORY
PRICE LIST**

As an aid to you in quickly finding the Sinar product you have selected, we have prepared an alphabetical listing of major Sinar items found in this price list. In addition, each product can be identified by both the PTP product number (used when ordering) and the Sinar code number (found in all Sinar brochures). If more information is required, please contact your Sinar representative or Photo Technical Products in Garden City, N.Y.

PRODUCT INDEX

| ITEM | PAGE | ITEM | PAGE | ITEM | PAGE | |
|---|------|---|------------|--|---------------------------|---|
| A | | | O-Q | | | |
| Accessory shoe | 3 | Focus mount lenses | 7-8 | Pentax camera adapter, T-42 | 5 | |
| Adjustable bellows mask | 5 | Format changing sets | 4 | Photo-Know-How | 6 | |
| Alpa camera adapter | 5 | Format divider | 5 | Plaubel adapter, B.R.M. | 4 | |
| Apo—Nikkor lenses | 10 | Format dividing masks (8x10) | 5 | Plate holders | 3 | |
| Apo—Ronar lenses | 7-8 | Fresnel lenses/holders | 4 | Polaroid 405 mask | 5 | |
| Auto—aperture shutter | 4 | Front projection sets | 5 | Police Special Sinar-c. | 3 | |
| Automatic cable | 4 | Front surface mirror | 5 | Projection, front | 5 | |
| B | | | G-H | | | |
| Base plate | 5 | Graduated filters | 6 | Projectors | 5 | |
| Bayonet piece | 4 | Grandagon lenses | 7-8 | Projector bracket | 5 | |
| Bellows | 3 | Gelatin filter holder | 5 | R-S | | |
| Bellows holders | 5 | Ground glass | 3 | Rail clamp | 3 | |
| Bellows hood/filter holder rods | 5 | Handgrips | 3 | Rails | 3 | |
| Bellows mask | 5 | Hasselblad camera adapter | 5 | Rapid adapter | 4 | |
| Binocular magnifier | 4 | Holder, camera | 5 | Rear carrier frames | 3 | |
| Binocular reflex magnifier (B.R.M.) | 4 | Holder, filter | 5 | Recessed lensboard | 6 | |
| Books | 6 | Holder, roll film | 5 | Reducing adapters | 4 | |
| C | | | I-L | | | |
| Cable, automatic | 4 | Hood, light | 4 | Reducing bushing | 4 | |
| Cable Release | 4 | Rail clamp | | | 3 | |
| Calumet adapter, B.R.M. | 4 | Imagon lenses | 7-8 | Rails | 3 | |
| Calumet adapter, lensboard | 6 | Intermediary frame, Sinarsix | 4 | Rapid adapter | 4 | |
| Cambo adapter, B.R.M. | 4 | Lensboards | 6 | Rear carrier frames | 3 | |
| Cameras | 2-3 | Lenses | 7-10 | Recessed lensboard | 6 | |
| Camera bracket | 5 | Lenses, fresnel | 4 | Reducing adapters | 4 | |
| Camera holders | 5 | Lenses, multiple | 5 | Reducing bushing | 4 | |
| Camera screw | 4 | Light hood | 4 | Roll film holder | 5 | |
| Camera support | 5 | Light meter, Sinarsix | 4 | Screw set | 5 | |
| Cap, rail | 3 | Linear shading filters | 5 | Series VIII & IX adapters | 5 | |
| Carrier frames | 3 | Linhof adapter, B.R.M. | 4 | Shoe, accessory | 3 | |
| Cases, camera | 4 | Linhof adapter, lensboard | 6 | Shutter, auto-aperture | 4 | |
| Cassettes, Sinarsix | 4 | Loupe, bino. ref. mag. | 4 | Sinarsix light meter & accessories | 4 | |
| Clamping stand | 5 | Loupe, Nikon 7X | 4 | Sironar lenses | 7-8 | |
| Clamps, rail | 3 | M-N | | | Special bellows | 3 |
| Coupling piece, shutter | 4 | Macro lensboard | 6 | Spirit level | 3 | |
| Coupling piece, 'handy' | 3 | Macro-Nikkor lenses | 10 | Spring backs | 3 | |
| D-F | | | T-Z | | | |
| DB lenses | 7-9 | Manuals | 6 | Tapered bellows | 3 | |
| Densitometer Mask | 4 | Mask/fresnel lens holder | 4 | Threaded adapter, camera holder | 5 | |
| Dials, Sinarsix | 4 | Masks | 5 | Toyo adapter, B.R.M. | 4 | |
| Exacta camera adapter | 5 | Metal cable release | 4 | T-42 camera adapter | 5 | |
| Extension rails | 3 | Meter, Sinarsix & accessories | 4 | Universal camera holder | 5 | |
| Filters | 5-6 | Microscope adapter | 5 | Universal case & acces. | 4 | |
| Filter holders | 5 | Minolta camera adapter | 5 | Universal filter holder | 5 | |
| Filter holder rods | 5 | Mirrors | 5 | Universal standard bearer | 3 | |
| Flat uncut lensboards | 6 | Multiple lens clusters | 5 | Viewfinders, recommendations for 'handy' | 3 | |
| Focus mount lensboards | 6 | Multipurpose standards | 3 | Viewing masks | 5 | |
| | | Nikon camera adapter | 5 | Wide angle bellows | 3 | |
| | | Nikon 7X loupe | 4 | | | |

SINAR VIEW CAMERAS

| Product Number | Description | Sinar Code # | User Net |
|---|---|---------------------------|-----------|
| SINAR-f 4" x 5" VIEW CAMERA | | | |
| 94201 | Sinar-f 4 x 5 view camera; consisting of multipurpose standards I & II, 12" basic rail unit, bellows, Sinar-f rail clamp, and plate (film) holder with ground glass. | # 491.46 | \$622.00 |
| SINAR-f+ 4" x 5" VIEW CAMERA | | | |
| 94200 | Same as above; but the normal lightweight Sinar-f Rail Clamp is replaced by the Sinar-c/p Rail Clamp. This allows the rapid release of the camera rail from the clamp and facilitates horizontal leveling of the camera.* The Sinar-f accepts most Sinar accessories and components and can be converted to a 4 x 5 Sinar-c with the addition of the # 94546 Universal Standard Bearer and the # 94551 Rear Carrier Frame. | | \$630.00 |
| SINAR-c CAMERAS 4" x 5", 5" x 7", AND 8" x 10" | | | |
| 94107 | Sinar-c 4 x 5: Equipped with Sinar-c front standard, 12" basic rail unit, universal standard bearer, rapid release rail clamp with sleeve. Bellows, ground glass and plateholder carrier for 4 x 5 format.* | # 491.36 | \$1130.00 |
| 94108 | Sinar-c 5 x 7: Same as above; but with tapered bellows, ground glass and plateholder carrier for 5 x 7 format.* | # 491.37 | \$1385.00 |
| 94508 | Sinar-c 8 x 10: Same as above; but with special standard bearer, tapered bellows, ground glass and plateholder carrier for 8 x 10 format.* The Sinar-c accepts all Sinar-p accessories, and can be converted to a Sinar-p with the addition of the # 94545 front standard. | # 491.38 | \$1855.00 |
| SINAR-p STANDARD CAMERAS 4" x 5", 5" x 7", AND 8" x 10" | | | |
| 94101 | Sinar-p 4 x 5: Equipped with Sinar-p front standard, 12" basic rail unit, universal standard bearer, rapid release rail clamp with sleeve. Bellows, ground glass and plateholder carrier for 4 x 5 format.* | # 491.26 | \$1559.00 |
| 94103 | Sinar-p 5 x 7: Same as above; but with tapered bellows, ground glass and plateholder carrier for 5 x 7 format.* | # 491.27 | \$1815.00 |
| 94106 | Sinar-p 8 x 10: Same as above; but with special standard bearer. Tapered bellows, ground glass and plateholder carrier for 8 x 10 format.* | # 491.28 | \$2284.00 |
| SINAR-p EXPERT CAMERA SETS | | | |
| EXPERT camera sets include the STANDARD camera plus the EXPERT accessories. | | | |
| 94511 | Sinar-p 4 x 5 EXPERT: Consists of 4 x 5 Sinar-p STANDARD camera as above. Includes complete set of viewing masks, and all EXPERT accessories. | # 492.26 | \$2625.00 |
| 94513 | Sinar-p 5 x 7 EXPERT: Consists of 5 x 7 Sinar-p STANDARD camera as above, plus all EXPERT accessories. | # 492.27 | \$2910.00 |
| 94516 | Sinar-p 8 x 10 EXPERT: Consists of 8 x 10 Sinar-p STANDARD camera as above, plus all EXPERT accessories. | # 492.28 | \$3550.00 |
| EXPERT ACCESSORIES | | | |
| 6" extension rail unit | | Binocular light hood | |
| 18" extension rail unit | | Binocular magnifier | |
| Fresnel lens (for selected format) | | Set of filter holder rods | |
| 4 x 5 Square bellows | | Bellows holders | |
| Wide angle bellows (for selected format) | | Universal Camera Holder | |
| Carrying case for camera and accessories | | Multipurpose Standard I | |
| Camera support | | Bellows Mask | |
| | | Viewing Mask Set | |

SPECIAL PURPOSE CAMERAS

Product
Number

Description

Sinar
Code #

User
Net

SINAR-handY WIDE ANGLE CAMERA

| | | | |
|-------|---|----------|----------|
| 94202 | Sinar-handY wide-angle camera; consisting of 4 x 5" plate holder with ground glass (also accepts various roll film holders), accessory shoe, two-way spirit level, coupling piece, and hand grip. Accepts all Sinar focus mount lenses. | # 493.16 | \$412.00 |
|-------|---|----------|----------|

SINAR-c "POLICE SPECIAL" CAMERAS

The Sinar-c "Police Special" consists of a specially calibrated rear standard bearer, two multipurpose standard I's, and a special mask to yield three separate vertical images. Image proportions permit full length identification photos to be made, as well as head-and-shoulders views. The mask is readily removable so that the Sinar-c "Police Special" may be used as a normal 4" x 5" view camera, thus increasing its flexibility.

| | | | |
|-------|--|--|-----------|
| 94510 | Sinar-c 4" x 5" "Police Special" Camera (for 4" x 5" sheet and Polaroid films) | | \$1166.00 |
| 94517 | Sinar-c 405 "Police Special" Camera (for the Polaroid 405 film holder) | | \$1166.00 |

CAMERA COMPONENTS AND ACCESSORIES

Prod.
No.

Description

Sinar
Code #

User
Net

Prod.
No.

Description

Sinar
Code #

User
Net

STANDARDS

| | | | |
|-------|--|----------|----------|
| 94545 | Sinar-p front main Standard | #431.21N | \$703.00 |
| 94543 | Multipurpose Standard I | #437.31 | 219.00 |
| 94542 | Multipurpose Standard II | #433.31 | 303.00 |
| 94546 | Universal Standard bearer | #433.21N | 619.00 |
| 94544 | Special standard bearer 8 x 10 (Included with 8 x 10 cameras) | #433.22N | 776.00 |

CARRIER FRAMES

| | | | |
|-------|---------------------------|-----------|----------|
| 94551 | Rear carrier frame 4 x 5 | #433.26NN | \$114.00 |
| 94556 | Rear carrier frame 5 x 7 | #433.27NN | 221.00 |
| 94561 | Rear carrier frame 8 x 10 | #433.28NN | 289.00 |

PLATE HOLDERS (SPRING BACKS)

| | | | |
|-------|------------------------------------|---------|----------|
| 94552 | 4 x 5 Plate holder w/ground glass | #461.26 | \$125.00 |
| 94557 | 5 x 7 Plate holder w/ground glass | #461.27 | 238.00 |
| 94562 | 8 x 10 Plate holder w/ground glass | #461.28 | 448.00 |

BELLOWS

| | | | |
|-------|---|---------|----------|
| 94165 | Square bellows 4 x 5 (also used as compendium lens hood with 94184 & 94185) | #454.11 | \$ 73.60 |
| 94167 | Tapered bellows 5 x 7 | #452.17 | \$137.00 |
| 94169 | Tapered bellows 8 x 10 | #452.18 | 228.00 |
| 94164 | Wide-angle bellows 4 x 5 | #455.36 | 82.10 |
| 94168 | Wide-angle bellows 5 x 7 | #455.27 | 134.00 |
| 94171 | Wide-angle bellows 8 x 10 | #455.28 | 207.00 |
| 94170 | Special bellows, 8 x 10 to 5 x 7; for 20" bellows extension (used with 94556 & 94546) | #453.18 | 382.00 |

RAIL UNITS

| | | | |
|-------|------------------------------|---------|----------|
| 94547 | Basic standard rail unit 12" | #422.11 | \$ 34.90 |
| 94143 | Extension rail unit 6" | #421.11 | 45.80 |
| 94548 | Extension rail unit 12" | #423.11 | 46.90 |
| 94144 | Extension rail unit 18" | #424.11 | 71.80 |
| 94145 | Rail cap. | #429.11 | 8.00 |

RAIL CLAMPS

| | | | |
|-------|---|----------|----------|
| 94571 | Rail Clamp (standard on Sinar-f) | #411.31 | \$ 53.80 |
| 94570 | Rail clamp w/sleeve (standard on Sinar-p & c) | #411.21N | 63.80 |

GROUND GLASS

| | | | |
|-------|--------------------------------------|----------|---------|
| 94549 | Ground glass 4 x 5 (grid lined) | #536.66 | \$ 9.96 |
| 94553 | Ground glass 5 x 7 (grid lined) | #536.37 | 11.00 |
| 94564 | Ground glass 8 x 10 (grid lined) | #536.38 | 21.00 |
| 94554 | Ground glass 4 x 5 (plain) | #536.56N | 9.96 |
| 94558 | Ground glass 5 x 7 (plain) | #536.27N | 11.00 |
| 94563 | Ground glass 8 x 10 (plain) | #536.28N | 21.00 |
| 94126 | Ground glass 5 x 5 (f/Rapid Adapter) | #536.46 | 12.00 |

SINAR-HandY COMPONENTS/ACCESSORIES

| | | | |
|-------|---|-----------|----------|
| 94276 | Handgrip, for 'handy' (requires 94279; not used with Sinar-f) | #513.21NN | \$111.00 |
| 94277 | Handgrip (used w/94595) | #513.31NN | 132.00 |
| 94279 | Coupling piece (w/3/8" tripod bushing) | #513.61NN | 45.90 |
| 94269 | Accessory Shoe | #531.61NN | 48.60 |
| 94278 | Spirit level | #531.71NN | 48.90 |

RECOMMENDED VIEWFINDERS FOR SINAR-HANDY FORMAT

| LENS | 4 x 5" | 9 x 12cm | 6 x 9cm 56 x 72mm |
|------|--------|----------|----------------------|
| 47mm | n.a. | 50mm | MAMIYA |
| 65mm | | 50mm | MAMIYA |
| 75mm | | 50mm | MAMIYA |
| 90mm | 50mm | MAMIYA | |

NN = components which cannot be combined with previous Sinar
N = can be combined, but not recommended

| Prod. No. | Description | Sinar Code # | User Net | Prod. No. | Description | Sinar Code # | User Net |
|--------------|-------------|-----------------|-------------|--------------|-------------|-----------------|-------------|
|--------------|-------------|-----------------|-------------|--------------|-------------|-----------------|-------------|

CAMERA ACCESSORIES

SINAR AUTO-APERTURE SHUTTER

The Sinar shutter is rugged, accurate and self cocking. It has settings from 1/60 to 1/2 second, and 1 second to 8 seconds as well as Bulb. It offers X synchronization. Filters can be used behind the shutter in a holder provided in the shutter. The shutter can be controlled for viewing by the insertion or removal of the film holder. When DB mount lenses are used, the lens will automatically stop down to a pre-set aperture when the shutter is actuated.

The main advantages of the Sinar Automatic Shutter are:

The use of one accurate shutter system instead of several with varied tolerances in exposure times.

Automatic operation of lens aperture when DB lenses are used.

| | | |
|--|---------|----------|
| 94595 Sinar Auto-aperture shutter; (includes 94247, 94248 & 94249) | #521.31 | \$592.00 |
| 94248 Automatic cable for 94595 | #521.51 | 43.90 |
| 94247 Metal cable release for 94595 | #521.61 | 47.90 |
| 94239 Coupling piece (for connecting two 94248 together) | #521.81 | 14.00 |
| 94249 Bayonet piece (for plate holder) | #521.91 | 12.00 |

Note: The Sinar shutter accepts gelatine filter size 4 x 4" and 5 x 5" as well as Sinar glass filters.

SINARSIX (II) LIGHT METER SYSTEM

The Sinarsix System gives an actual measurement of the light in the image plane. The measurement is unaffected by camera extensions, filters, camera movements or flare. The Sinarsix reading is 100% accurate—without any photo mathematics.

The Sinarsix System can be used to measure brightness range, contrast ratio or give a "mean" value index. It reads both ASA or DIN film speeds.

| | | |
|---|---------|----------|
| 94600 Sinarsix II w/probe & three dials (used w/94130 or 94575) | #524.21 | \$562.00 |
| 94130 4 x 5 light meter cassette | #525.16 | 69.30 |
| 94575 5 x 7 light meter cassette | #525.17 | 95.90 |
| 94122 Sinarsix intermediary frame 5 x 7 to 8 x 10 | #525.18 | 64.90 |
| 94566 Sinarsix 'N' dial | #524.61 | 16.00 |
| 94567 Sinarsix 'S' dial | #524.71 | 16.00 |
| 94568 Sinarsix 'X' dial | #524.81 | 16.00 |
| 94569 Sinarsix 'P' dial | #524.91 | 16.00 |
| 94125 Sinarsix attachment f/Rapid Adapter | #525.26 | 92.00 |
| 94633 Sinarsix (II) densitometer Mask | #524.51 | 14.20 |

RAPID ADAPTER

(sliding back for 2 1/4" x 2 1/4" — 4" x 5" formats)

| | | |
|---|---------|----------|
| 94123 Rapid adapter | #551.16 | \$640.00 |
| 94129 Rapid adapter with attach. for Sinarsix probe | #551.26 | 748.00 |

Note: used with lenses of at least 100mm focal length. Comes with 94124 mask/Fresnel lens holder.

PAN HEADS

| | | |
|---|---------|----------|
| 94354 Sinar pan-tilt head 3/8" (w/1/4" x 3/8" camera screw) | #516.41 | \$199.00 |
| 94358 Reducing bushing 3/8" — 1/4" (to attach 94354 or 94570 to 1/4" mount) | #519.61 | 5.96 |
| 94361 Camera screw f/pan-tilt head | #519.71 | 11.00 |

VIEWING DEVICES INCL. BINOCULAR REFLEX MAGNIFIER

Fresnel lenses improve the center to edge brightness of the ground glass image. The binocular magnifier replaces the old dark-cloth with a modern viewing system which allows binocular viewing even with eye glasses. The binocular reflex magnifier turns the image upright for viewing at normal and 2.5x magnifications.

| | | |
|---|---------|----------|
| 77337 Nikon 7x loupe | | \$ 15.00 |
| 94128 Fresnel (field) lens 4 x 5 (Requires 94124 or 94191; see 94192) | #535.26 | 45.80 |
| 94197 Fresnel (field) lens 5 x 7 (fits 94556) | #535.17 | 60.90 |
| 94199 Fresnel (field) lens 8 x 10 (fits 94561) | #535.18 | 92.70 |
| 94191 4 x 5 Mask/fresnel lens holder | #461.66 | 18.00 |
| 94192 4 x 5 Fresnel lens in holder (94191 & 94128) | #461.76 | 65.00 |
| 94124 Mask/fresnel lens holder for Rapid Adapter | #551.66 | 16.80 |
| 94189 4 x 5 Fresnel lens in holder for Rapid Adapter | #551.76 | 63.20 |
| 94271 Binocular reflex magnifier housing (requires 94270) | #531.12 | 241.00 |
| 94273 Binocular magnifier (requires 94270 & Bellows) | #471.21 | 69.80 |
| 94270 Light hood for 94271 & 94273 | #531.91 | 39.90 |

Note: The binocular reflex magnifier is available with a 4.25 diopter loupe for those who are far-sighted.

| | | |
|--|-----------------------|----------|
| 94275 Binocular reflex magnifier housing w/4.25 loupe (requires 94270) | #531.12 & #531.12.001 | \$283.00 |
| 94274 Loupe only (4.25 diopter) | #531.12.001 | 42.80 |

Note: The following adapters allow the binocular reflex magnifier (94271) to be used with 4" x 5" cameras other than Sinar.

| | | |
|-----------------------|---------|----------|
| 94621 Toyo adapter | #559.16 | \$ 59.50 |
| 94622 Linhof adapter | #559.26 | 59.50 |
| 94623 Cambo adapter | #559.36 | 59.50 |
| 94624 Calumet adapter | #559.46 | 59.50 |
| 94625 Plaubel adapter | #559.56 | 59.50 |

FORMAT CHANGING SETS (FOR SINAR-p/c)

| | | |
|----------------------|---------|----------|
| 94550 4 x 5 Adapter | #497.26 | \$316.00 |
| 94555 5 x 7 Adapter | #497.27 | 604.00 |
| 94560 8 x 10 Adapter | #497.28 | 978.00 |

(adapter sets include rear carrier, plate holder, and bellows)

REDUCING ADAPTERS

The reducing adapter allows you to use a large camera with a 4 x 5 film holder; it must be used in conjunction with a 4 x 5 plateholder.

| | | |
|--|-----------|----------|
| 94572 Reducing adapter 5 x 7 to 4 x 5 | #553.27NN | \$245.00 |
| 94137 Reducing adapter 8 x 10 to 4 x 5 | #553.28NN | 263.00 |

CASES

| | | |
|---|--------------|----------|
| 94521 Case for Sinar-f | #475.16NN | \$253.00 |
| 94523 Case for Sinar-p or Sinar-c, 4 x 5 or 5 x 7 | #475.32NN | 344.00 |
| 94525 Case for Sinar-p or Sinar-c 8 x 10 | #475.28NN | 454.00 |
| 94580 Case for 5 x 7 adapter (94555 and accessories) | #571.17 | 237.00 |
| 94585 Case for 8 x 10 adapter (94560 and accessories) | #571.18 | 287.00 |
| 94401 One pair of carrying straps for case #94525 | #577.11 | 50.50 |
| 94522 Universal carrying case | #571.11 | 96.70 |
| 94631 4 x 5 film holder container | #571.16* | 13.00 |
| 94632 Sinarsix/4 x 5 + 5 x 7 filmholder container | #573.21* | 27.80 |
| 94634 Lens container | #571.11.005* | 35.40 |

*For #94523 Sinar-p/c 4 x 5" case and Universal Carrying Case

| Prod. No. | Description | Sinar Code # | User Net | Prod. No. | Description | Sinar Code # | User Net |
|--------------|-------------|-----------------|-------------|--------------|-------------|-----------------|-------------|
|--------------|-------------|-----------------|-------------|--------------|-------------|-----------------|-------------|

CAMERA ACCESSORIES

BELLOWS HOOD/FILTER HOLDER RODS

| | | | |
|-------|---------------------------------------|---------|---------|
| 94181 | Bellows hood/filter holder rod 4 1/4" | #472.61 | \$ 5.00 |
| 94182 | Bellows hood/filter holder rod 6 1/4" | #472.71 | 5.00 |
| 94505 | Bellows hood/filter holder rod 10" | #472.81 | 5.99 |

BELLOWS HOLDERS

| | | |
|-------|---|----------|
| 94284 | Bellows holder (used with above rods) #473.31 | \$ 17.00 |
|-------|---|----------|

CAMERA HOLDERS/CLAMPING STAND

| | | | |
|-------|---|-----------|----------|
| 94350 | Sinar clamping stand (includes 94353, 94351, & 94352) | #514.21 | \$214.00 |
| 94353 | Camera holder | #514.71 | 92.30 |
| 94351 | Clamp unit | #514.81 | 111.00 |
| 94352 | Threaded adapter 3/8" | #514.91 | 10.90 |
| 94530 | Universal camera holder (used w/rail clamp 94570) | #519.11 | 45.90 |
| 94531 | Camera support (used with 94546/94544) | #519.21NN | 42.90 |
| 94141 | Base plate w/screws (for two rail clamps) | #418.11 | 66.80 |

VIEWING MASKS

| | | | |
|-------|--|---------|----------|
| 94127 | Viewing mask set: for 6 x 6cm-2 1/4 x 2 1/4", 56 x 72mm-2 1/4 x 2 3/4", 6.5 x 9cm-2 1/2 x 3 1/2, 9 x 12cm, 4 x 5" formats (fits 94124 & 94191) | #534.16 | \$ 14.00 |
| 94602 | Polaroid 405 viewing mask (fits 94124 & 94191) | #534.19 | 1.00 |

MISC. MASKING DEVICES

| | | | |
|-------|--|---------|----------|
| 94506 | Adjustable bellows mask | #533.11 | \$ 36.90 |
| 94215 | Format dividing masks (1 pair) for 8 x 10" | #439.18 | 16.90 |

MIRRORS

| | | | |
|-------|---|---------|----------|
| 94195 | Front surface mirror in case | #538.11 | \$175.00 |
| 94280 | 50% semi-reflecting mirror 5" x 5" | #539.11 | 168.00 |
| 94283 | 50% semi-reflecting mirror 7" x 7" (only for 5" x 7" carrier frame) | #539.91 | 84.60 |

MULTIPLE LENS CLUSTERS

| | | | |
|-------|---|---------|----------|
| 94610 | 4-lens unit (used with #94595 shutter) Simultaneously divides 4 x 5 format into (4) 2 x 2 1/2 photos (requires 94601) | #586.26 | \$322.00 |
| 94601 | Format divider (used with 94610) | #558.26 | 56.30 |
| 94611 | 5-lens unit (used with #94595 shutter) | #586.86 | 399.00 |
| 94612 | 7-lens unit (used with #94595 shutter) | #586.96 | 551.00 |

CAMERA ADAPTERS

(to mount the following cameras on the 4 x 5 Sinar rear carrier)

| | | | |
|-------|--|---------|----------|
| 94220 | Alpa camera adapter* | #556.63 | \$ 56.60 |
| 94222 | Hasselblad 500c camera adapter | #556.64 | 120.00 |
| 94221 | Exacta adapter board | #556.73 | 54.60 |
| 94227 | Nikon camera adapter (f/Nikon F, F2 & Nikkormat) | #556.93 | 88.30 |
| 94238 | T-42 (Pentax type) camera adapter | #556.83 | 95.30 |
| 94608 | Minolta camera adapter | #556.53 | 97.70 |

*Requires Alpa "TUBANA A" and "TUBANTRE"

MICROSCOPE ADAPTER

| | | | |
|-------|--|---------|----------|
| 94235 | Microscope adapter for 25mm dia. tube (includes "Tubanfor" and "Microfix") | #441.61 | \$181.00 |
|-------|--|---------|----------|

Note: for further information on Macro & Micro accessories, see Information Sheet #6.

ROLL FILM HOLDER

| | | | |
|-------|---|---------|----------|
| 94604 | Sinar 6 x 9cm, roll film holder for 120 film (8 exp.) | #767.45 | \$265.00 |
| 94626 | Sinar 6 x 7cm roll film holder for 120 film (10 exp.) | #767.64 | 265.00 |

FRONT PROJECTION SETS

(not including projectors; used with 3M screen #7610 & #7611)

| | | |
|-------|--|----------|
| 94613 | For medium & small format cameras (includes product numbers 94571, 94547, 94280, 94543, 94606, 94607 & two 94145). | \$563.00 |
| 94614 | For Sinar-f/c/p cameras (includes product numbers 94548, 94543, 94280, and 94607) | \$461.00 |
| 94615 | For Sinar-p Expert camera sets (includes product numbers 94280 and 94607) | \$206.00 |

Note: see below for additional components

FRONT PROJECTION COMPONENTS

| | | | |
|-------|-------------------|---------|----------|
| 94606 | Camera bracket | #519.31 | \$ 47.90 |
| 94607 | Projector bracket | #519.41 | 59.80 |

35mm PROJECTORS

(for front projection sets above)

| | | |
|-------|--|----------|
| 94616 | Projector; 100w. Tunsten illumination (CDS lamp) | \$137.00 |
| 94617 | Projector; 500w./sec. Electronic flash. | 467.00 |
| 94618 | Power pack for #94617 | 503.00 |

SCREW ADAPTER SET

The Sinar screw adapter set allows you to adapt different tripod and camera threads to one another. It can also be used in combination with various sinar accessories having the M6 thread.

| | | | |
|-------|-------------------|---------|----------|
| 94620 | Screw adapter set | #515.11 | \$ 74.40 |
|-------|-------------------|---------|----------|

FILTERS

FOR BLACK & WHITE

| | | | |
|-------|---------------|---------|----------|
| 94250 | Medium yellow | #546.01 | \$ 53.80 |
| 94251 | Bright orange | #546.02 | 53.80 |
| 94252 | Yellow-green | #546.03 | 53.80 |
| 94253 | Bright red | #546.04 | 53.80 |
| 94254 | Dark red | #546.05 | 53.80 |
| 94255 | Infra-red | #546.06 | 53.80 |

FOR COLOR & BLACK & WHITE

| | | | |
|-------|-------------------------|---------|----------|
| 94256 | Haze filter | #546.11 | \$ 53.80 |
| 94257 | Skylight I | #546.12 | 53.80 |
| 94258 | Skylight II | #546.13 | 53.80 |
| 94259 | Gray 2x Neutral Density | #546.14 | 53.80 |
| 94260 | Gray 4x Neutral Density | #546.15 | 53.80 |
| 94261 | Soft-focus filter | #546.16 | 53.80 |
| 94262 | Polarizing filter | #546.21 | 158.00 |

Sinar glass filters are 4" diameter coated, colored glass and will fit in Sinar filter holder #94174 and also in Sinar shutter #94595 (except polarizing filter).

LINEAR SHADING FILTER SET

The Linear shading filter set allows the user to partially or totally introduce a gelatine filter in front of the taking lens. This facilitates making density or color variations over part of the image. The set includes three empty filter frames plus the following mounted filters: 0.3N.D., 0.6N.D., primary red, primary green, medium blue, orange, and heavy frost (diffusion). The filter set is normally used with #94506 bellows mask.

| | | | |
|-------|---------------------|---------|----------|
| 94630 | Filter set complete | #542.91 | \$ 49.60 |
|-------|---------------------|---------|----------|

FILTER HOLDER & ACCESSORIES

| | | | |
|-------|---|---------|----------|
| 94174 | Universal filter holder, w/retaining ring (mounts on filter holder rod) | #541.21 | \$ 84.30 |
| 94175 | Spare retaining ring for 94174 | #541.91 | 16.90 |
| 94281 | Gelatin filter holder 4 x 4" (for 94174) | #542.21 | 59.50 |
| 94177 | Series IX adapter for 94174 | #543.11 | 42.70 |
| 94179 | Series VIII adapter for 94174 | #544.11 | 42.70 |

| Prod. No. | Description | Sinar Code # | User Net |
|-----------|-------------|--------------|----------|
|-----------|-------------|--------------|----------|

| Prod. No. | Description | Sinar Code # | User Net |
|-----------|-------------|--------------|----------|
|-----------|-------------|--------------|----------|

SPECIALIZED FILTERS FOR SUPER ANGULON LENSES

These concentrically graduated filters are used to compensate for light loss at the edge of the film when apertures between f.16 to f.45 are used.

| | Filter No. | |
|--|------------|----------|
| 94263 Graduated filter for 65mm f8 Super Angulon | 1 | \$152.00 |
| 94264 Graduated filter for 75mm f8 and 47mm f5.6 Super Angulon | 2 | 174.00 |
| 94267 Graduated filter for 65mm f5.6 and 75mm f5.6 Super Angulon | 3 | 227.00 |
| 94265 Graduated filter for 90mm f8 Super Angulon | 3a | 227.00 |
| 94266 Graduated filter for 90mm f5.6 Super Angulon | 4 | 294.00 |

BOOKS & MANUALS

| | | |
|--|---------|----------|
| 94583 "The Sinar System Handbook" by Carl Koch | #401.22 | \$ 14.50 |
| 94594 Sinar-handly manual | #406.23 | 1.81 |
| 94593 Sinar-f manual | #403.23 | 2.73 |
| 94592 Sinar-c manual | #405.23 | 4.55 |
| 94591 Sinar-p manual | #402.23 | 4.55 |
| 94586 Sinar shutter handbook | #501.83 | 2.73 |
| 94587 Sinar six handbook | #503.23 | 2.73 |
| 94588 Rapid Adapter handbook | #504.23 | .48 |
| 94589 4 lens-unit handbook | #505.23 | .48 |
| 94590 Bino-reflex magnifier handbook | #506.23 | .91 |

Note: Product numbers 94586 through 94594 normally included with product.

PHOTO-KNOW-HOW

A complete self-study view camera course by Carl Koch, designer of the Sinar. Excellent instruction for any view camera user.

| | | |
|--|---------|----------|
| 94597 "Photo Know-How" photo course by Carl Koch | #401.13 | \$ 75.00 |
|--|---------|----------|

LENSBOARDS

x800 PRE-FABRICATED LENSBOARDS

These lensboards are pre-fabricated to accept a specified lens type and have the proper mount configuration to allow use with the 94595 Sinar Auto-aperture shutter (if so desired). Pre-fabricated lensboards are available for practically any lens and provide an easy way to mount the lens you own for use with a Sinar camera. To specify a lensboard, complete the "x800 Lensboard Order Form" and enclose it with your order. (Form found below).

| | |
|--|----------|
| 94224 x800 Pre-fabricated lensboards for Super Angulon lenses up to 90mm focal length, and other lenses up to 240mm focal length | \$ 23.80 |
| 94203 x800 Pre-fabricated lensboards for focal lengths longer than listed in above paragraph. | 61.80 |

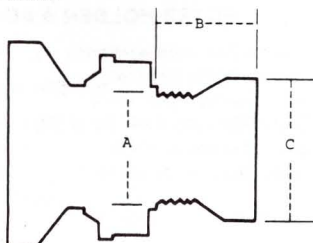
NOTE: Due to lens variations some 65mm and 90mm lenses on lensboard #94224 may not operate at infinity when combined with #94595 shutter; We recommend that these focal lengths be sent to us for mounting.

x800 LENSBOARD ORDER FORM

NOTE: The following measurements should be to the closest 1/32nd (0.5mm) in. Use the diagram as a guide. (see NOTE above).

Serial number of lens: _____

FRONT OF LENS



NOTE: THE x800 LENSBOARD ORDER FORM IS NOT REQUIRED FOR THE FOLLOWING LENSBOARDS.

| | |
|---|------------------|
| 94503 180mm & 240mm f9.0 Apo Nikkor | \$ 23.90 |
| 94502 305mm & 360mm f9.0 Apo Nikkor | 61.80 |
| 94500 NF Lens with 39mm (Leica type) thread | 52.90 |
| 94234 Macro lensboard for RMS threaded lenses | #441.71 77.40 |
| 77318 39mm to RMS Reducing adapter | "MICRO-DAP" 9.00 |

FLAT UNCUT LENSBOARDS

| | |
|------------------------------|----------|
| 94223 Flat (blank) lensboard | \$ 17.90 |
|------------------------------|----------|

RECESSED LENSBOARDS

| | |
|--|----------|
| 94226 For 47mm f5.6 Super Angulon Cpr. (not used with 94595 shutter) | \$115.00 |
|--|----------|

FOCUS MOUNT LENSBOARDS FOR SUPER ANGULON LENSES

For cameras in the 'handy' configuration; used without the Sinar-Auto-aperture shutter. Available for the following lenses.

| | |
|---|----------|
| 94228 47mm f5.6 Super Angulon Cpr. | \$228.00 |
| 94229 65mm f5.6 Super Angulon Cpr. | 228.00 |
| 94217 65mm f8.0 Super Angulon Prontor | 228.00 |
| 94218 65mm f8.0 Super Angulon Cpr. | 228.00 |
| 94230 75mm f5.6 Super Angulon Cpr. | 228.00 |
| 94219 75mm f8.0 Super Angulon Cpr. or Prontor | 228.00 |
| 94231 90mm f8.0 Super Angulon Cpr. or Prontor | 228.00 |

Cpr. = Compur shutter

LENSBOARD ADAPTERS

These allow you to use lenses from other cameras on a Sinar without remounting the lens. Lensboard adapters should not be used with #94595 Sinar shutter or damage may result.

| | |
|------------------------------------|------------------|
| 94225 Linhof Technika IV/V Adapter | #441.91 \$ 94.20 |
| 94603 Calumet adapter | #441.81 49.60 |

Manufacturer and model of lens: _____

Maximum f.stop (widest lens opening): f. _____

Focal length: _____ mm or _____ in.

Is this lens mounted on a shutter? () YES () NO

If YES to above; state the manufacturer and model number of the shutter.

_____ # _____

Diameter of lens mount thread: _____ (dimension "A")

Dimension "B": _____

Dimension "C" should not exceed three inches.

LENS PRICE LIST

(pages 7 thru 10)

All Sinar lenses (unless otherwise noted) are delivered mounted on lensboards and are ready to use on any Sinar camera. DB lenses are specifically designed to work in conjunction with the Sinar Auto-aperture Shutter, but almost all of the listed lenses will work in this configuration; thus adding to the overall versatility of the camera system.

DESCRIPTION OF SINAR LENS TYPES

- DB— (446.11) This lens was specially designed for Sinar and is normally used in combination with the Sinar Auto-aperture Shutter. All f-stops can be set from the rear of the camera and the aperture remains wide open until the cable release is actuated; the shutter also automatically closes when the film holder is inserted in the camera back. Once the photograph is taken and the holder removed from the camera the lens and shutter reopen wide. Provision has been made for previewing depth of field, f-stops may also be set manually. These lenses come in a barrel mount and are available in most popular lens series.
- x801B— (442.21) These lenses allow the user to set f-stops without moving to the front of the camera (an aid for previewing depth of field or for use with the Sinar Auto-aperture Shutter). These lenses are available in barrel mount (NF) or in Compur or Copal shutters.
- x800— (441.11) The standard lens; requires that the operator set his lens from the front of the camera. x800 lenses are available in NF mounts or in Compur or Copal shutters.



LENS MOUNTING SERVICE

Most lenses similar to those listed on lens price sheet can be mounted on boards by an authorized Sinar Service Center. Other lenses may be mounted at special request. Service charge will vary depending on lens type.

Lenses may be mounted on the following lens boards:

Sinar rear aperture control X801B board..... Sinar Code #442.21
Sinar lensboard X800 Sinar Code #441.11

Note: It is **not** possible to modify a lens to DB configuration.

WARRANTY & REPAIR SERVICE

Warranty service and repairs are handled through authorized Sinar repair centers. For further information contact your Sinar dealer or write Sinar Div. of (P.T.P.) E.P.O.I., 101 Crossways Park West, Woodbury, N.Y. 11797.

| LENS TYPE | FOCAL LENGTH (mm) | Control with Sinar Shutter (#94595) | | x800(441.11) Standard Lensboard | | x801B(442.21) Behind Lens Aperture Control | | x800(441.11) Standard Lensboard | | x801B(442.21) Behind Lens Aperture Control | | x800(441.11) Standard Lensboard | | x801B(442.21) Behind Lens Aperture Control | |
|-------------------------------------|-------------------|-------------------------------------|------------|------------------------------------|------------|---|------------|------------------------------------|---------------|---|------------|------------------------------------|------------|---|------------|
| | | Prod. # | List Price | Prod. # | List Price | Prod. # | List Price | Prod. # | List Price | Prod. # | List Price | Prod. # | List Price | Prod. # | List Price |
| Super** Angulon 105° 1:5,6 | 47 | | | | | | | 94422* | \$ 882.00 | | | | | | |
| | 65 | | | | | | | 94334† | 797.00 | 97334† | \$ 971.00 | 94372† | \$ 746.00 | 97372† | \$ 919.00 |
| | 65 | | | | | | | 94423* | 1062.00 | | | | | | |
| | 75 | 94467 | \$ 946.00 | 94337 | \$ 778.00 | 97337 | \$ 906.00 | 94336 | 891.00 | 97336 | 1019.00 | 94362 | 841.00 | 97362 | 969.00 |
| | 75 | | | | | | | 94424* | 1154.00 | | | | | | |
| | 90 | 94468 | 969.00 | 94339 | 902.00 | 97339 | 1030.00 | 94438 | 1013.00 | 97338 | 1141.00 | 94363 | 963.00 | 97363 | 1092.00 |
| Super** Angulon 100° 1:8 | 65 | 94460 | 626.00 | | | | | 94321 | 623.00 | 97321 | 751.00 | | | | |
| | 65 | | | | | | | 94425* | 855.00 | | | | | | |
| | 75 | 94461 | 629.00 | 94324 | 483.00 | 97324 | 656.00 | 94323 | 594.00 | 97323 | 788.00 | 94364 | 545.00 | 97364 | 718.00 |
| | 75 | | | | | | | 94426* | 866.00 | | | | | | |
| | 90 | 94462 | 637.00 | 94326 | 517.00 | 97326 | 661.00 | 94325 | 629.00 | 97325 | 779.00 | 94365 | 579.00 | 97365 | 728.00 |
| | 90 | | | | | | | 94427* | 892.00 | | | | | | |
| | 121 | 94463 | 985.00 | 94328 | 878.00 | 97328 | 1006.00 | 94327 | 991.00 | 97327 | 1119.00 | 94366 | 941.00 | 97366 | 1069.00 |
| | 165 | | | | | | | 94329† | 2217.00 | 97329† | 2346.00 | 94373† | 2112.00 | 97373† | 2240.00 |
| 210 | | | | | | | 94331† | 4010.00 | 97331† | 4138.00 | 94374† | 3903.00 | 97374† | 4031.00 | |
| Symmar-S 70° 1:5,6 | 100 | | | | | | | 94428* | 682.00 | | | | | | |
| | 100 | 94479 | 470.00 | 94384 | 306.00 | 97384 | 434.00 | 94385 | 418.00 | 97385 | 546.00 | 94753 | 369.00 | 97753 | 497.00 |
| | 135 | 94480 | 498.00 | 94386 | 333.00 | 97386 | 462.00 | 94387 | 445.00 | 97387 | 573.00 | 94754 | 395.00 | 97754 | 523.00 |
| | 150 | 94481 | 502.00 | 94388 | 359.00 | 97388 | 488.00 | 94389 | 472.00 | 97389 | 600.00 | 94755 | 422.00 | 97755 | 551.00 |
| | 180 | 94482 | 514.00 | 94390 | 419.00 | 97390 | 547.00 | 94391 | 580.00 | 97391 | 708.00 | 94756 | 540.00 | 97756 | 668.00 |
| | 210 | 94483 | 566.00 | 94392 | 494.00 | 97392 | 622.00 | 94393 | 654.00 | 97393 | 782.00 | 94757 | 613.00 | 97757 | 742.00 |
| | 240 | 94484 | 822.00 | 94394 | 742.00 | 97394 | 870.00 | 94395 | 1070.00 | 97395 | 1198.00 | 94758 | 963.00 | 97758 | 1092.00 |
| | 300 | 94485 | 1286.00 | 94396 | 1065.00 | 97396 | 1194.00 | 94397 | 1395.00 | 97397 | 1523.00 | 94759 | 1290.00 | 97759 | 1418.00 |
| | 360 | 94486 | 1523.00 | 94398 | 1297.00 | 97398 | 1425.00 | 94399 | 1625.00 | 97399 | 1754.00 | 94760 | 1520.00 | 97760 | 1648.00 |
| Grandagon 105° 1:4,5 | 65 | | | | | | | 94374† | 946.00 | 97345† | 1119.00 | 94770† | 916.00 | 97770† | 1089.00 |
| | 75 | 94487 | 1159.00 | | | | | 94348 | 1032.00 | 97346 | 969.00 | 94771 | 1003.00 | 97771 | 1131.00 |
| | 90 | 94488 | 1230.00 | | | | | 94349 | 1177.00 | 97348 | 1305.00 | 94772 | 1152.00 | 97772 | 1280.00 |
| Sironar 70° 1:5,6 | 100 | 94478 | 502.00 | 94720 | 294.00 | 97720 | 422.00 | 94721 | 376.00 | 97721 | 504.00 | 94412 | 346.00 | 97412 | 475.00 |
| | 135 | 94471 | 526.00 | 94722 | 313.00 | 97722 | 441.00 | 94723 | 406.00 | 97723 | 534.00 | 94413 | 377.00 | 97413 | 505.00 |
| | 150 | 94472 | 569.00 | 94405 | 369.00 | 97405 | 497.00 | 94406 | 447.00 | 97406 | 575.00 | 94414 | 419.00 | 97414 | 547.00 |
| | 180 | 94473 | 587.00 | 94407 | 421.00 | 97407 | 549.00 | 94408 | 541.00 | 97408 | 669.00 | 94415 | 515.00 | 97415 | 643.00 |
| | 210 | 94474 | 674.00 | 94409 | 509.00 | 97409 | 637.00 | 94410 | 624.00 | 97410 | 752.00 | 94416 | 598.00 | 97416 | 726.00 |
| | 240 | 94475 | 911.00 | 94411 | 674.00 | 97411 | 802.00 | 94724 | 975.00 | 97724 | 1103.00 | 94417 | 923.00 | 97417 | 1051.00 |
| | 300 | 94476 | 1249.00 | 94725 | 1026.00 | 97725 | 1154.00 | 94726 | 1303.00 | 97726 | 1431.00 | 94418 | 1251.00 | 97418 | 1379.00 |
| | 360 | 94477 | 1474.00 | 94727 | 1286.00 | 97727 | 1475.00 | 94728 | 1502.00 | 97728 | 1630.00 | 94419 | 1450.00 | 97419 | 1578.00 |
| Apo Ronar 50° 1:8 | 150 | | | 94729 | 349.00 | 97729 | 477.00 | 94730 | 485.00 | 97730 | 613.00 | 94376 | 457.00 | 97376 | 585.00 |
| | 240 | 94800 | 648.00 | 94731 | 408.00 | 97731 | 536.00 | 94732 | 605.00 | 97732 | 733.00 | 94377 | 580.00 | 97377 | 708.00 |
| | 300 | 94801 | 742.00 | 94733 | 498.00 | 97733 | 626.00 | 94734 | 701.00 | 97734 | 829.00 | 94378 | 675.00 | 97378 | 803.00 |
| | 360 | 94802 | 916.00 | 94735 | 580.00 | 97735 | 708.00 | 94736 | 973.00 | 97736 | 1101.00 | 94379 | 921.00 | 97379 | 1049.00 |
| | 480 | 94803 | 1122.00 | 94737 | 743.00 | 97737 | 871.00 | | | | | 94380 | 1127.00 | 97380 | 1255.00 |
| | 600 | | | 94739 | 1294.00 | 97739 | 1423.00 | | | | | | | | |
| | 800 | | | 94741 | 4270.00 | | | | | | | | | | |
| 1:16 | 1000 | | | 94743 | 6512.00 | | | | | | | | | | |
| Imagon 1:5,8 | 200 | | | 94745 | 483.00 | | | 94746 | 877.00/585.00 | | | 94381 | 825.00 | | |
| | 250 | | | 94747 | 546.00 | | | 94748 | 919.00/613.00 | | | 94382 | 867.00 | | |
| | 300 | | | 94749 | 584.00 | | | | | | | 94383 | 842.00 | | |
| | 360 | | | | | | | | | | | | | | |

Note: NF, Grandagon, Apo Ronar & Imagon lenses are special order items; allow sufficient time for delivery.
Some lenses are available in Electronic shutters. Contact Woodbury for further details.

†Not compatible with Sinar Shutter

*Mounted on focusing board w/Prontor Press Shutter; not compatible with Sinar Shutter

For complete specifications on lens & lensboards, see Sinar brochure V2E.

**See "Filters" for specialized filters for Super Angulon Lenses.

SPECIAL PURPOSE UNMOUNTED NF LENSES

(for use with Sinar Auto-aperture Shutter)

APO-NIKKOR LENSES

A four element-four group apochromatic lens of symmetrical design. Corrected for optimum performance at 1x (overall range 1/3x—3x), these lenses are excellent for copy or close-up photography. Minimum Aperture is f 128.

| Apo-Nikkor 46° 1:9 | Focal Length (mm) | Prod. # | List Price | |
|--------------------------|-------------------------|---------|---------------|--|
| | 180 | 96992 | \$236.00 | |
| | 240 | 96972 | 277.00 | |
| | 305 | 96971 | 335.00 | |
| | 360 | 96980 | 397.00 | |

| Recommended Lensboard Prod. # |
|-------------------------------------|
| 94503 |
| 94503 |
| 94502 |
| 94502 |

MACRO-NIKKOR LENSES

These lenses are designed for use in the macro range of 1x and above where they will yield high-resolution images. These lenses have linear type aperture scales.

| Macro-Nikkor | Focal Length (mm) | Prod. # | List Price | |
|--------------|-------------------------|---------|---------------|--|
| 1:6.3 | 120 | 77314 | \$221.00 | |
| 1:4.5 | 65 | 77312 | 193.00 | |
| 1:4.5 | 35 | 77310 | 158.00 | |
| 1:2.8 | 19 | 77309 | 179.00 | |

| Recommended Lensboard Prod. # | Standard Mag. Range of Lens | Standard Film Format |
|-------------------------------------|-----------------------------------|----------------------------|
| 94500 | 0.3X-4X 1X-4X | 24 x 36mm 4 x 5" |
| 94500 | 3.5X-10X | 24 x 36mm 4 x 5" |
| 94234 or 94500 w/77318 | 8X-20X | 24 x 36mm 4 x 5" |
| 94234 or 94500 w/77318 | 15X-40X | 24 x 36mm 4 x 5" |

FORMULAS USED FOR COPY/CLOSE-UP PHOTOGRAPHY

$$M = \frac{\text{Size of Image}}{\text{Size of Original}}$$

$$A = a + b$$

$$= f(2 + M + 1/M)$$

$$a = f(1 + 1/M)$$

$$b = f(1 + M)$$

$$M = \text{Magnification ratio}$$

$$A = \text{Distance from original to film plane}$$

$$a = \text{Distance from original to lens}$$

$$b = \text{Distance from lens to film plane (bellows extension)}$$

$$f = \text{Focal length of lens}$$

$$\text{Effective f-number} = \text{f-number} \times (1 + M)$$



PHOTO TECHNICAL PRODUCTS DIVISION / EHRENREICH PHOTO-OPTICAL INDUSTRIES, INC.

101 CROSSWAYS PARK WEST, WOODBURY, NEW YORK 11797 / PHONE (516) 364-8030