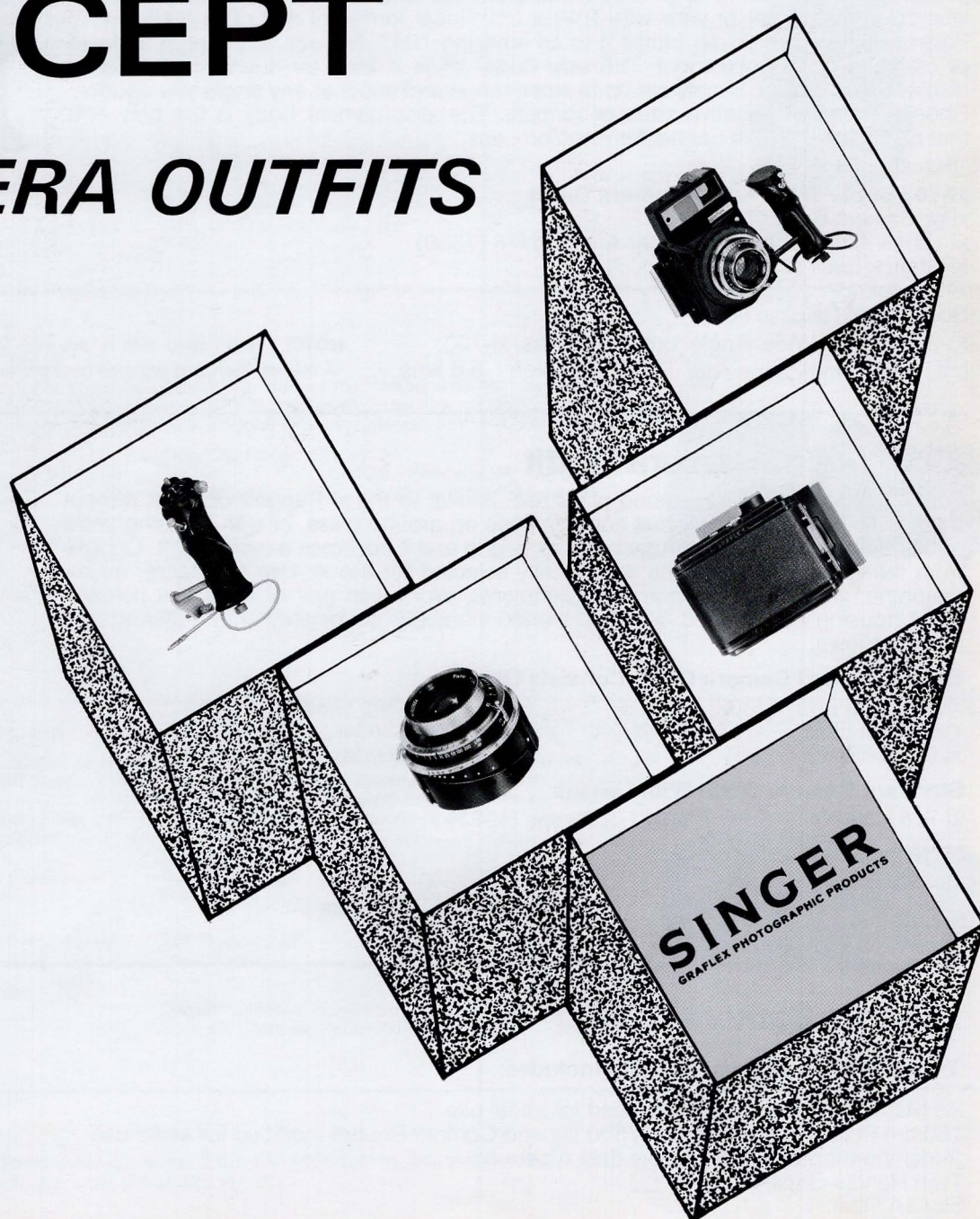


Graflex xl

MODULAR CONCEPT

IN CAMERA OUTFITS



xl Rangefinder Camera Outfit

For the pro on the go. A precision coupled rangefinder camera outfit that's responsive, lightweight, easy to handle. Unmatched for candid assignments, weddings, fashion shows, news beats, portraits—hand-held or tripod mounted. Order outfit with any one of the lenses listed below. Add your choice of formats, film holders and other accessories later on and it becomes a custom-designed precision tool with unchallenged reliability.

xl Rangefinder Camera Outfit Consists Of:

xlrf Camera Body (7303) xl Quick Focus Lever (7349)
RH10 Roll Holder (1291) xl Eyecup (7360)
xl Graflok Back Frame (7304) and choice of lenses.
xl Multi-Grip (7399)

xl Rangefinder Outfits Including Lens.

xl 790 100mm Noritar f/3.5 Lens
xl 793 80mm Zeiss Planar f/2.8 Lens
xl 791 80mm Noritar f/2.8 Lens Outfit



xl Super Wide Angle Camera Outfit

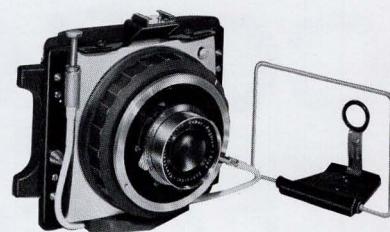
The camera no professional can afford to be without gives you the widest angle possible in medium and large format cameras. The Schneider 47mm Super Angulon lens covers an angle of view with $2\frac{1}{4}'' \times 2\frac{3}{4}''$ ideal format of 87° . The $3\frac{1}{4}'' \times 4\frac{1}{4}''$ Polaroid* pack film holder jumps it to an amazing 104° . Enough to shoot in a closet or cramped conference room. The xlsw Super Wide is ideal for dramatic advertising display perspectives. Simply set up at close range and shoot at any angle you choose. Choose from five negative sizes or formats. The xlsw camera body is the only one that accepts the 47mm Schneider Angulon Lens.

*Reg. T.M. Polaroid Corp.

xl-703 Super Wide Angle Camera Outfit

xlsw Camera Body (7301)
xl Lens—47mm Schneider Super Angulon f/8 (7330)
xl Graflok Back (7305)
xl Sportsfinder (7361)
Body Cable Release (7382)
xl-713 Super Wide Angle outfit same as xl-703,
but with 47mm Schneider Super Angulon f/5.6 lens.

NOTE: When fitted with a one-inch xl spacer all lenses and applications of the xls Standard become possible with the xlsw Super Wide Angle Camera.



xl Standard Camera Outfit

For tripod, laboratory or ground glass use. Similar to the xl Rangefinder but without the coupled rangefinder. Focus and compose on ground glass, or with focusing scale and sports-type viewfinder. Attach the multi-grip and it becomes a candid unit. Choose from the world's finest lenses, specifically selected for the xl. Use for Macro, micro, telephoto, wide angle, or normal assignments. Work with any of eight film holders. Rigid housing and rugged design eliminate vibrations associated with fluttering and shaky bellows.

Each Standard Camera Outfit Consists Of:

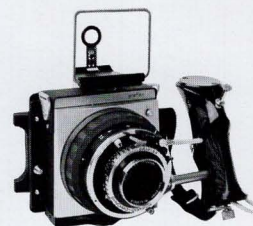
xls Camera Body (7302) xl Multi-Grip (7383)
Choice of Lens xl Sportsfinder (7362)
xl Graflok Back (7305) xl Sportsfinder Mask (7365)

Standard Camera Outfit With Lenses:

xl 715 with 80mm Zeiss Planar f/2.8 Lens (7332)

Interchangeable Lenses:

Cat. No. 7331—58mm Cat. No. 7340—180mm
Cat. No. 7343—80mm Noritar Cat. No. 7341—270mm
Cat. No. 7344—100mm Noritar



xl Aerial Camera Outfit

The xl-777 Aerial Camera Outfit includes:

xls Standard Camera Body modified for aerial use
180mm Rotelar f/4.5 Lens in 1/500 second Compur Shutter modified for aerial use
Aerial Viewfinder Special heavy duty type
Twin Handle Grips
Sky 1A Filter
Neck Strap



Wide Angle

47mm Schneider Super Angulon f/8 and f/5.6

For extreme wide angle work with the xls camera body only. Records the full subject on negative, and thereby eliminates cutting out important areas because of lack of true wide angle coverage. Also the lens linear perspective exaggeration makes possible great creative expressions. You can shoot close-ups with dramatic effect. Take wide-story press photographs, unusual illustrative views, or cover a wide area in cramped quarters. Use with xlr or xls camera body and xl spacers for small-object photography. Perfect lens for large group or sports action shots.

| | | | |
|-------------------|-------------|--------------------|----------------------------|
| Diaphragm Range | f/8 to f/32 | Filter Mount f/8 | .40.5mm thread xl series 8 |
| No. Lens Elements | 6 | Filter Mount f/5.6 | 51mm thread xl series 8 |

SHUTTER: xl compur

| | | | |
|-----------------|---------------------|-------------|------------|
| Speed Range | 1—1/500 sec. plus B | Self Timer | Yes |
| Synchronization | M-X | Press Focus | f/5.6 only |

ANGLES OF VIEW (Diagonal of Format):

| | | | |
|--------------------------------|-----|---|------|
| 2 1/4 x 2 1/4 (RH/12) | 79° | 2 1/4 x 3 1/16 (RH/8, Sheet, Filmpack***) | 91° |
| *2 1/4 x 2 3/4 (RH/10, 20, 50) | 87° | 3 1/4 x 4 1/4 (Polaroid Pack Film***) | 104° |

CATALOG NUMBER 7330—47mm Super Angulon f/8

CATALOG NUMBER 7342—47mm Super Angulon f/5.6



58mm Rodenstock Grandagon f/5.6

Versatile 8-element wide angle lens with excellent sharpness, resolution and contrast. Ideal for press, magazine, interior industrial photography with xl Standard and xl Rangefinder camera bodies. Lets you work close to subject for highly creative shots. Entire field of view is flat, even at full aperture. Excellent coverage, even on Polaroid* picture size (approximately).

*Reg. T.M. Polaroid Corp.

| | | | |
|-------------------|-------------|------------------------|-----------------------------------|
| Diaphragm Range | f/8 to 8/32 | Focusing Range (Scale) | ∞—1 1/2 ft. (Rangefinder) ∞—3 ft. |
| No. Lens Elements | 8 | Filter Mount | 67mm thread xl series 8 |

SHUTTER: xl compur

| | | | |
|-----------------|---------------------|-------------|-----|
| Speed Range | 1—1/500 sec. plus B | Self Timer | Yes |
| Synchronization | M-X | Press Focus | Yes |

ANGLES OF VIEW (Diagonal of Format):

| | | | |
|--------------------------------|-----|---|-----|
| 2 1/4 x 2 1/4 (RH/12) | 68° | 2 1/4 x 3 1/16 (RH/8, Sheet, Filmpack***) | 80° |
| *2 1/4 x 2 3/4 (RH/10, 20, 50) | 75° | 3 1/4 x 4 1/4 (Polaroid Pack Film***) | 92° |

CATALOG NUMBER 7331



Telephoto Lenses

180mm Rodenstock Rotelar f/4.5

For landscapes, head and shoulder portraits, and sports illustrations. Bridges the "distance barrier" for large images of distant objects. Used for aerial photography with 1/500 shutter speed. Gives new portability, lightness, and balance to long lens photography. Diaphragm click-stopped at 1/2 stop intervals from f/4.5 to f/45.

| | | | |
|-------------------|---------------|------------------------|---------------------------------|
| Diaphragm Range | f/4.8 to f/45 | Focusing Range (Scale) | ∞—10 ft. (Rangefinder) ∞—10 ft. |
| No. Lens Elements | 5 | Filter Mount | 49mm thread xl series 8 |

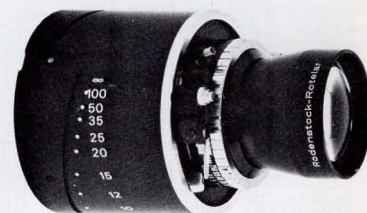
SHUTTER: xl Compur

| | | | |
|-----------------|----------------|-------------|-----|
| Speed Range | 1—1/500 plus B | Self Timer | Yes |
| Synchronization | M-X | Press Focus | Yes |

ANGLES OF VIEW (Diagonal of Format):

| | | | |
|--------------------------------|-----|--|-----|
| 2 1/4 x 2 1/4 (RH/12) | 24° | 2 1/4 x 3 1/16 (RH/8, Sheet, Filmpack**) | 30° |
| *2 1/4 x 2 3/4 (RH/10, 20, 50) | 28° | 3 1/4 x 4 1/4 (Polaroid Pack Film***) | 36° |

CATALOG NUMBER 7340



270mm Rodenstock Rotelar f/6.6

High-speed telephoto lens for long distance shots of subjects which can be prefocused. Recommended for aerial and sports photography. Lightweight, delicately balanced. Blends brilliance, high resolution, and excellent contrast. Magnification 3.5x that of an 80mm lens. Because of the very long focal length, this lens does not couple to the rangefinder, but is intended to be used with the focusing scale or the ground glass. Permits ground-glass focusing to 20 ft. Angle of ideal format is 19°.

| | | | |
|-------------------|---------------|----------------|-------------------------|
| Diaphragm Range | f/6.6 to f/45 | Focusing Range | Scale only ∞—20 ft. |
| No. Lens Elements | 5 | Filter Mount | 58mm thread xl series 8 |

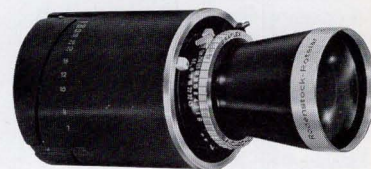
SHUTTER: xl Compur

| | | | |
|-----------------|----------------|-------------|-----|
| Speed Range | 1—1/500 plus B | Self Timer | Yes |
| Synchronization | M-X | Press Focus | Yes |

ANGLES OF VIEW (Diagonal of Format):

| | | | |
|-------------------------------|-----|--|-----|
| 2 1/4 x 2 1/4 (RH/12) | 17° | 2 1/4 x 3 1/16 (RH/8, Sheet Film Pack**) | 20° |
| 2 1/4 x 2 3/4 (RH/10, 20, 50) | 19° | 3 1/4 x 4 1/4 (Polaroid Pack Film***) | 25° |

CATALOG NUMBER 7341



*Ideal format

**Nominal

***xl lenses are designed for optimum coverage of the 2 1/4 x 2 3/4 (Ideal format. Some darkening of the corners may be noted when used with the larger (Polaroid†) format.

†Reg. T.M. Polaroid Corp.

80mm Normal Lenses

80mm Focal Length Lenses for wedding and candid photography for 2¼" x 2¾" and 2¼" and 3⅞" formats. Also suited for public relations, small group or architectural shots. Compares in angular coverage to 127 135mm lenses on 4" x 5". The moderate wide field of these 'short' normal lenses lets you get inside for better use of flash. Stand in the same place, use the same exposures, yet have reserve lens speed for those difficult shots. Two excellent 80mm f/2.8 lenses.

Zeiss Planar For the ultimate in color correction, resolution, and contrast.

Noritar Ideal for a one-lens wedding outfit. Surprisingly excellent performance at modest price.

80mm Zeiss Planar f/2.8

| | |
|------------------------------|-------------------------|
| Diaphragm Range | f/2.8 to f/22 |
| No. Lens Elements | 5 |
| Focusing Range (Scale) | ∞—2½ ft. |
| Focusing Range (Rangefinder) | ∞—3 ft. |
| Filter Mount | 49mm thread xl series 8 |

SHUTTER: xl Compur

| | |
|-----------------|---------------------------|
| Speed Range | 1—1/400 sec. plus T and B |
| Synchronization | M-X |
| Self Timer | Yes |
| Press Focus | Yes |

ANGLES OF VIEW (Diagonal of Format):

| | |
|------------------------------------|-----|
| 2¼ x 2¼ (RH/12) | 52K |
| *2¼ x 2¾ (RH/10, 20, 50) | 58° |
| 2¼ x 3⅞ (RH/8, Sheet, Film-pack**) | 62° |
| 3¼ x 4¼ (Polaroid Pack Film***) | 74° |

CATALOG NUMBER 7332



80mm Noritar f/2.8

| | |
|------------------------------|---------------|
| Diaphragm Range | f/2.8 to f/32 |
| No. Lens Elements | 6 |
| Focusing Range (Scale) | ∞—2.5 ft. |
| Focusing Range (Rangefinder) | ∞—3 ft. |
| Filter Mount | 55mm thread |

SHUTTER: xl Copal

| | |
|-----------------|---------------------|
| Speed Range | 1—1/500 sec. plus B |
| Synchronization | M-X |
| Self Timer | No |
| Press Focus | Yes |

ANGLES OF VIEW (Diagonal of Format):

| | |
|------------------------------------|-----|
| 2¼ x 2¼ (RH/12) | 52° |
| *2¼ x 2¾ (RH/10, 20, 50) | 58° |
| 2¼ x 3⅞ (RH/8, Sheet, Film-pack**) | 62° |
| 3¼ x 4¼ (Polaroid Pack Film***) | 74° |

CATALOG NUMBER 7343



100mm Focal Length Lens: Permits sufficient distance between camera and subject for good perspective. Minimizes linear distortion. Ideal for police, fire department, news, and most general photography such as groups, close-ups, full length portraits, industrial weddings, as well as personal photography.

Noritar for moderate-speed and general all-around performance—or when Polaroid* pack film holder is used extensively.

*Reg. T.M. Polaroid Corp.

100mm Noritar f/3.5

| | |
|------------------------------|---------------------------|
| Diaphragm Range | f/3.5 to f/32 |
| No. Lens Elements | 4 |
| Focusing Range (Scale) | ∞—2½ ft. |
| Focusing Range (Rangefinder) | ∞—3½ ft. |
| Filter Mount | 40.5mm thread xl series 8 |

SHUTTER: xl Copal

| | |
|-----------------|---------------------|
| Speed Range | 1—1/500 sec. plus B |
| Synchronization | M-X |
| Self Timer | No |
| Press Focus | Yes |

ANGLES OF VIEW (Diagonal of Format):

| | |
|------------------------------------|-----|
| 2¼ x 2¼ (RH/12) | 43° |
| *2¼ x 2¾ (RH/10, 20, 50) | 48° |
| 2¼ x 3⅞ (RH/8, Sheet, Film-pack**) | 52° |
| 3¼ x 4¼ (Polaroid Pack Film) | 61° |

CATALOG NUMBER 7344



*Ideal format

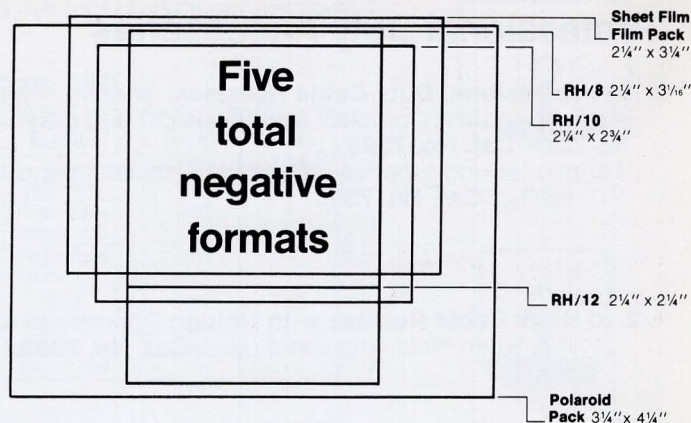
**Nominal

***xl lenses are designed for optimum coverage of the 2¼ x 2¾ (Ideal format. Some darkening of the corners may be noted when used with the larger (Polaroid†) format.

†Reg. T.M. Polaroid Corp.

Choose the format which gives you the picture you desire

Largest variety ever offered in a single camera. Yours with Graflex film holding devices. All are easy to use, economical extremely versatile. They enable you to quick-change from black and white to color—from roll film to sheet film—from slow speed to fast speed—without lost time or wasted film. All have built-in dark slide for light-tight, daylight format changing.



1 Graflex New Improved Roll Film Holders. Each has a notation panel color-keyed dark slide, interchangeable/reversible carriages, automatic film counter and thumb lever advance with safety lock. They accept a wide variety of black-and-white and color films—both positive and negative types.



2. Grafmatic Sheet Film Magazines hold six sheets in space barely thicker than a sheet film holder. Darkroom loading.

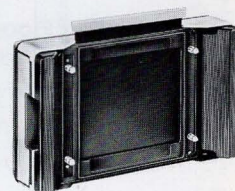


3. Graphic Film Pack Adapters accept the 16-exposure film packs in the same space as a 2-sheet holder. Daylight loading.



4. Polaroid* Pack Film Holders accept the 8-exposure Type 107-3000 Speed Packs to give you pictures in 10 seconds, and Type 108 to give you color in 60 seconds. Perfect for quick-record photos, composition checking, or exposure calculation.

NOTE: 3 1/4 x 4 1/4 film packs may also be used in the Polaroid Pack Film Holder for a full 3 1/4 x 4 1/4 black and white negative.
*Reg. T.M. Polaroid Corp.



Seven film holders give xl cameras greatest versatility

Graflex Roll Film Holders

- **RH/8—Wider Format:** 8 exposures, 2 1/4" x 3 1/8" on 120 film
- **RH/10—Ideal Format:** 10 exposures, 2 1/4" x 2 3/4" on 120 film
- **RH/12—Square Format:** 12 exposures, 2 1/4" x 2 1/4" on 120 film
- **RH/20—Ideal Format:** 20 exposures, 2 1/4" x 2 3/4" on 220 film
- **RH/50—Ideal Format:** 50 exposures, 2 1/4" x 2 3/4" on 70mm film

Cat. No. 1290
Cat. No. 1291
Cat. No. 1292
Cat. No. 1293
Cat. No. 7351

Graflex Pack Holding Accessories

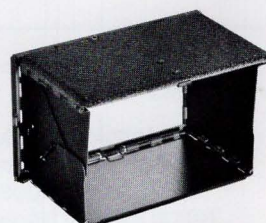
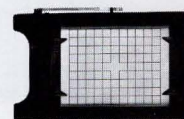
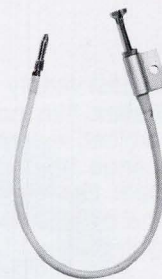
- **Graphic Film Pack Adapter:** 16 sheets. 2 1/4" x 3 1/4"
- **Polaroid* Pack Film Holder:** 8 exposures. 3" x 4"

*Reg. T.M. Polaroid Corp.

Cat. No. 1232
Cat. No. 7350

Professional Duty Accessories

- 1 **xl Professional Duty Cable Releases:** Smooth long-life operation. Long swivel tip attaches easily to shutter. Coroplast covering is dirt and moisture resistant—virtually kink proof 18-inch—**Cat. No. 7394**
18-inch locking type for ground-glass focusing and time exposures with shutters having no 'T' setting **Cat. No. 7393.**
2. **xl Body Cable Release with Holder:** Attaches to all xl cameras for convenient body release action, when Multi-Grip is not used **Cat. No. 7382.**
3. **xl Graflok Back:** Attaches directly to xl camera body, providing base for all focusing panels and most film holders. Reversible for right or left operation **Cat. No. 7304*.**
4. **xl Graflok Back Complete:** Includes Graflok Back, ground-glass focusing panel and removable xl viewing hood. **Cat. No. 7305.**
5. **xl Focusing Panels:** For critical ground-glass focusing and composition. Generally used with camera on a tripod.
Panel with grid lines and Ektalite field lens for critical composition and observation of parallel lines. **Cat. No. 9276.**
Panel with limit lines: Ground-glass rulings define area for ideal format (2¼" x 2¾") and RH/12 (2¼" x 2¼") roll film holders.
Less Ektalite—**Cat. No. 9283** With Ektalite—**Cat. No. 9284**
6. **xl Viewing Hood:** Removable, all metal. Shields focusing panel for ground-glass focusing. Fits all xl focusing panels. Opens and closes easily with one hand. **Cat. No. 9145.**
- 7 **Quick Focus Lever:** Fits over focusing ring of xl cameras for fast fingertip focusing. A must for follow-action events. **Cat. No. 7349*.**
8. **xl Multi-Grip:** Scientifically hand-contoured for steady holding. Complete with cable. Mount at any angle at side or below camera for pistol grip use. With left side mounting bracket. **Cat. No. 7383.** With right side mounting bracket—**Cat. No. 7386.** Special less tripod socket mounting for top of grip—**Cat. No. 7399*.**



*Standard on all new xl Rangefinder Camera Outfits.

9. xl Rangefinder Eyeshield:* Cuts out extraneous light between eye and rangefinder window
Cat. No. 7360

10. Sportsfinders

xl wire frame Sportsfinders are constructed of stainless music wire and V-shaped bearings for self-alignment. Nearly indestructible, they can be fastened in the standard accessory shoe. Plexiglass clip-ons for various formats are available.

Cat. No. 7361 for xslw Super Wide Angle Camera Body

Cat. No. 7362 for xlr or xls Camera Body

Sportsfinder Masks, Plexiglass Clip-On Type

Cat. No. 7363 for xslw Super Wide Angle Camera Body—Polaroid

Cat. No. 7364 for xlr or xls Camera Body—Polaroid

Cat. No. 7365 for xl RH/10 format

Cat. No. 7366 for xl RH/12 format

Cat. No. 7367 for xl RH/10 format with 270mm Lens

FINDER AND MASK CHART

| Picture Format | Lens | Finder or Mask Use | Finder Cat. No. | Mask Cat. No. |
|------------------------|----------------|--------------------------------|-----------------|---------------|
| 2¼" x 2¼" Square | 58, 100, 180 | Mask index lines | 7362 | 7366 |
| 2¼" x 2¾" ideal format | 58 | Finder frame outside edge | 7362 | |
| 2¼" x 2¾" | 80 | Finder frame inside edge | 7362 | — |
| 2¼" x 2¾" | 100, 180 | Mask index lines | 7362 | 7365 |
| 2¼" x 2¾" | 150 | Mask index lines outside limit | 7362 | 7365 |
| 2¼" x 2¾" | 270 | Mask index lines | 7362 | 7367 |
| 2¼" x 3⅛ wide | 47 | Finder frame | 7361 | — |
| Polaroid | 47 | Entire mask | 7361 | 7363 |
| Polaroid | 100, 180 58 | Mask index lines | 7362 | 7364 |



11. xl Vulcanoid Carrying Case for complete xl camera outfits. Accepts camera, lens, holder and Multi-Grip—all assembled, plus extra accessories. Handy, rugged lightweight. Movable partitions for storage. Overall dimensions—9½" x 11" x 19½" **Cat. No. 7373.**



12. xl Lens Case: For 180mm lens. Movable partitions adapt to two normal lenses—or one lens and selection of filters. Strap loops permit carrying on belt or gadget bag strap. **Cat. No. 7377**



13. xl Flash Bracket: Attaches to either side of xl camera. For Graflite flash equipment or other flash mounting tube with heavy-duty clamps. Anchored strain relief cord removes all strain from shutter contact when moving the flash. Use an ASA double-post shutter cord (#2701 20" straight flash cord, or #2810 36" expand-o-cord to connect to battery case or flash unit). **Cat. No. 7491**



14. ASA Bipost Synchronized Shutter Cords: For use with xl flash bracket.
 20-inch straight. **Cat. No. 2701**
 36-inch expand-o-cord **Cat. No. 2810.**



15. Cap Cord (Din. Fitting for Compur Shutter):
 20-inch straight. **Cat. No. 2721**
 36-inch expand-o-cord **Cat. No. 2821**
 12-inch straight. Replacement for use on xl Flash Bracket. **Cat. No. 7492.**



*Standard on all new xl Rangefinder Camera Outfits.

Accessories

16. xl Lens Attachments:



Adapter Rings

Accept all series 8 filters for attachment to specified lens.

Cat. No. 7453 for 40.5mm thread

Cat. No. 7454 for 49mm thread

Cat. No. 7455 for 58mm thread

Cat. No. 7456 for 67mm thread



Retaining Ring

xl Retaining Ring fits all adapter rings, holding xl series 8 filter in place. For use when xl lensshade is not used.

Cat. No. 7465



Lensshade

xl Lensshade and Filter Holder: For all xl lenses. Holds xl series 8 filters. Attaches to front thread of adapter ring or directly to xl sky 1A filters eliminating need for separate adapter ring. Unique friction grip permits positioning Lensshade squarely regardless of thread variation. Rectangular design permits use with the widest angle lens with widest film format without fear of cut off yet with full assurance of proper shading.

Cat. No. 7450



Sky 1A Filters

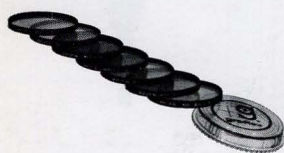
For better contrast with black and white film and better color saturation with color film. Can be used as a transparent protective lens cap. Adapter ring and retainer ring are built-in.

Cat. No. 7458 for 40.5mm thread

Cat. No. 7459 for 49mm thread

Cat. No. 7460 for 58mm thread

Cat. No. 7461 for 67mm thread



Series 8 Filters

Made of high quality laminated optical glass, Thermo-Bonded, precisely ground and polished. One size slip in proper size adapter ring to fit any xl lens.

Cat. No. 7480—Yellow

Cat. No. 7481—Orange

Cat. No. 7482—85B

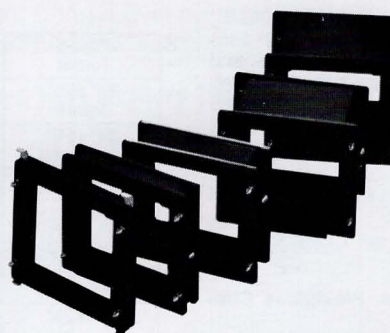
Cat. No. 7483—85C

Cat. No. 7484—85

Cat. No. 7485—Red

Cat. No. 7486—Green

17. xl Spacers



xl Spacers

Easy to attach spacers add extra lens-to-film spacing in precise modules. Attach between Graflok Back and camera body with exclusive Graflex four pin safety lock system. Build rigid, light-tight camera units of any desired length, for close-up, macro or micro photography

Spacers For Closeup and 1:1

Object To Image Reproduction Ratio with xslw Camera Body

| LENS | ½" Spacer | 1" Spacer | 1½" Spacer | 3" Spacer | 3¾" Spacer |
|------|----------------|----------------|----------------|----------------|----------------|
| 47mm | 3.4:1 to 1.7:1 | 1.9:1 to 1.2:1 | 1.2:1 to 0.9:1 | 0.6:1 to 0.5:1 | 0.5:1 to 0.4:1 |

*Catalog Number 7322—1" spacer converts xslw Body to accept all xl lenses.

Object To Image Reproduction Ratio With xllrf or xls Camera Bodies

| LENS | ½" Spacer | 1" Spacer | 1½" Spacer | 3" Spacer | 3¾" Spacer |
|-------|------------------|-----------------|----------------|----------------|----------------|
| 58mm | 4.2:1 to 2.1:1 | 2.4:1 to 1.5:1 | 1.5:1 to 1.1:1 | 0.8:1 to 0.6:1 | 0.6:1 to 0.5:1 |
| 80mm | 5.8:1 to 2.9:1 | 3.3:1 to 2.1:1 | 2.1:1 to 1.5:1 | 1.1:1 to 0.9:1 | 0.8:1 to 0.7:1 |
| 95mm | 7.0:1 to 3.5:1 | 4.0:1 to 2.6:1 | 2.5:1 to 1.9:1 | 1.3:1 to 1.1:1 | 1.0:1 to 0.9:1 |
| 100mm | 7.2:1 to 3.6:1 | 4.1:1 to 2.6:1 | 2.6:1 to 1.9:1 | 1.3:1 to 1.1:1 | 1.1:1 to 0.9:1 |
| 150mm | 10.6:1 to 5.3:1 | 5.8:1 to 3.0:1 | 3.9:1 to 2.9:1 | 1.9:1 to 1.7:1 | 1.5:1 to 1.4:1 |
| 180mm | 13.0:1 to 6.5:1 | 7.5:1 to 4.8:1 | 4.7:1 to 3.5:1 | 2.4:1 to 2.0:1 | 1.9:1 to 1.7:1 |
| 270mm | 19.5:1 to 10.2:1 | 11.2:1 to 7.3:1 | 7.3:1 to 5.3:1 | 3.5:1 to 3.0:1 | 2.8:1 to 2.5:1 |

½" Length

Cat. No. 7321 permits medium close working range with all lenses.

1" Length

Cat. No. 7322 close-up with all lenses—use with xslw Camera Body to convert to standard camera capability permitting use of full range of lenses—ground glass focusing is recommended.

1½" Length

Cat. No. 7323 for intermediate extreme close-up work.

3" Length

Cat. No. 7326 for 1:1 photography with 80mm lenses.

3¾" Length

Cat. No. 7327 for 1:1 photography with 100mm lenses.

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