

# xl CAMERAS

The xl Cameras consist of many interchangeable parts. Basic are 3 camera bodies, all accepting lenses in special xl barrel-mount, a wide variety of film accessories and other attachments. While it is basically intended for producing the ideal format ( $2\frac{1}{4} \times 2\frac{3}{4}$ ) negative, other negative formats

$2\frac{1}{4}$  square,  $2\frac{1}{4} \times 3\frac{1}{16}$  and Polaroid are also accommodated. It is a complete family of equipment, capable of being assembled into a specialized unit to take care of any standard or unusual photographic requirement.



**xl Rangefinder Camera Body.** The xl Rangefinder Camera is recommended for all general-purpose photography. It includes an extremely bright rangefinder in a combination range/viewfinder window which includes 3 bright floating frames with automatic parallax adjustment to show field included by 3 different focal length lenses. Nearly 1:1 magnification assures easy and positive use.

xl Rangefinder Camera Body only.

**Cat. No. 7303**

## xlrf Camera Outfits

Basic outfits include these standard items plus desired lens:

**7303**—xlrf camera body

**7305**—xl Graflok back complete with focusing panel

**7383**—xl Multi-Grip, left hand

Outfits with the following lenses as indicated

Cat. No.

**xl-704** with 80mm Heligon f/2.8 lens

**xl-705** with 80mm Planar f/2.8 lens

**xl-706** with 100mm Planar f/2.8 lens

See price list for additional listings.

## xl Standard Camera

Designed to be tripod-mounted and focused with focusing scale or ground glass only especially suitable for laboratory use. Accommodates accessory slip-on viewfinders and masks. A wide variety of attachments inclusive of spacers for closeup photography may be added.

### xl Standard Camera Body

**Cat. No. 7302**

Outfits including the xl Standard Body and desired lens should be developed as needed. They may include No. 7305 Graflok Back complete, Multi-Grip, spacers, viewfinders and holders.



## xl Super Wide Camera

The thinnest type of camera making possible the use of a 47mm extreme wide angle lens. (When fitted with a 1" spacer will also accommodate all other xl lens combinations.) Fitted with accessory shoe for viewfinder frames.

xl Super Wide Camera Body only

**Cat. No. 7301**

**Cat. No. xl-703** Super Wide Angle Camera Outfit includes:

**7301** xlsw Camera Body

**7330** 47mm Schneider Super Angulon f/8 lens

**7305** xl Graflok Back complete

**7361** xl Sportsfinder

**7382** Body Cable Release

xl Super Wide Camera Outfit complete

**Cat. No. xl-703**



# LENSES FOR xl CAMERAS

## Wide Angle, Normal, Telephoto

Outstanding quality from the world's major manufacturers of quality lenses.

All lenses mounted into barrel for direct attachment to xl Camera Body.

All lenses, except 47mm and 270mm lenses, have built-in cam for direct operation with xl Rangefinder

xl Lenses are designed primarily for optimum coverage of the  $2\frac{1}{4} \times 2\frac{3}{4}$  (ideal) format. Some darkening of the corners may be noted when used with the larger (Polaroid†) format.

†Reg. T.M. Polaroid Corp.

## Wide Angle Lenses



### 47mm Schneider Super Angulon f/8

For extreme wide angle work with the xls Camera Body only. Provides true wide angle coverage, as well as close-ups for dramatic effect. Not for standard use with other xl camera bodies. Use locking type cable release (Cat. No. 7393).

Cat. No. 7330



### 58mm Rodenstock Grandagon f/5.6

Wide angle lens with excellent sharpness, resolution, and contrast for xl standard and xl rangefinder camera bodies. Excellent coverage, even on Polaroid picture size.

Cat. No. 7331

## 80mm Normal Lenses

Normal for most wedding and candid photography. Compare in angular coverage with the 127-135mm lenses used on 4 x 5 cameras, and allow standing in the same place using the same exposures and yet they have reserve speed for difficult shots.



### 80mm Zeiss Planar f/2.8

Well-known Planar design supplied in No. 1 Compur Shutter

Cat. No. 7332



### 80mm Rodenstock Heligon f/2.8

Excellent performance at modest price. Supplied in No. 0 Compur Shutter

Cat. No. 7339

## 100mm Lenses

The "right" focal length for  $2\frac{1}{4} \times 2\frac{3}{4}$  and  $2\frac{1}{4} \times 3\frac{1}{16}$  format. Permits sufficient distance between camera and subject for good perspective with adequate image size.



### 100mm Zeiss Planar f/2.8

For greater light gathering power when shooting at low light levels. In No. 1 Compur Shutter

Cat. No. 7334

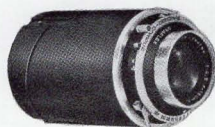


### 100mm Graflex f/3.5

Lens for moderate speed and all-round general performance—or when Polaroid Pack Film Holder is used extensively. Supplied in No. 0 Copal Shutter

Cat. No. 7344

## Long and Telephoto Lenses.



### 150mm Rodenstock Ysarex f/4.5

Ideal lens for head and shoulder portraits. Allows filling entire negative at best working distances for good perspective. Rangefinder focus to 7'

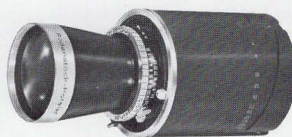
Cat. No. 7336



### 180mm Rodenstock Rotelar f/4.5

Medium telephoto for distant subjects and aerial photography. 1/500th shutter speed. Rangefinder focus to 10'

Cat. No. 7340



### 270mm Rodenstock Rotelar f/6.6

For long distance shots, for aerial and sports photography. Magnification 3.5x that of 80mm lens. Does not couple to rangefinder; used with the focusing scale or the ground glass. Closest working distance 20'

Cat. No. 7341

LENS	47mm Super Angulon	58mm Rodenstock Grandagon	80mm Zeiss Planar	80mm Rodenstock Heligon	100mm Zeiss Planar	100mm Graflex	150mm Rodenstock Ysarex	180mm Rodenstock Rotelar	270mm Rodenstock Rotelar
xl Lens Catalog Numbers	7330	7331	7332	7339	7334	7344	7336	7340	7341
Diaphragm Range (Aperture)	f/8-f/32	f/5.6-f/32	f/2.8-f/22	f/2.8-f/32	f/2.8-f/22	f/3.5-f/32	f/4.5-f/32	f/4.5-f/45	f/6.6-f/45
Focal Length	47mm	58mm	80mm	80mm	100mm	100mm	150mm	180mm	270mm
*Angle of View	87°	75°	58°	58°	48°	48°	33°	28°	19°
No. Lens Elements	6	8	5	6	5	4	4	5	5
Focusing Range (scale)	to 1'	to 1½'	to 2½'	to 2½'	to 2½'	to 2½'	to 7'	to 10'	to 20'
Shutter Speed Range	1-1/500 sec.	1-1/500 sec.	1-1/400 sec.	1-1/500 sec.	1-1/400 sec.	1-1/500 sec.	1-1/400 sec.	1-1/500 sec.	1-1/500 sec.
Synchronization	M-X	M-X	M-X	M-X	M-X	M-X	M-X	M-X	M-X
Self-Timer	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Press Focus	**	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Filters	xl series 8	xl series 8	xl series 8	xl series 8	xl series 8	xl series 8	xl series 8	xl series 8	xl series 8
Filter Mount Dia. (thread)	40.5mm	67mm	49mm	40.5mm	58mm	40.5mm	49mm	49mm	58mm
Filter Adapter Ring Cat. No.	7453	7456	7454	7453	7455	7453	7454	7454	7455
Sky 1A Filter Cat. No.	7458	7461	7459	7458	7460	7458	7459	7459	7460

\*Normal Angle of View— $2\frac{1}{4} \times 2\frac{3}{4}$  'ideal format' \*\*With locking type cable release

# xl ACCESSORIES

## Graflex Film Holding Accessories

- Cat. No. 1290 RH/8—Wider Format:** 8 exposures, 2 1/4" x 3 1/4" on 120 film
- Cat. No. 1291 RH/10—Ideal Format:** 10 exposures, 2 1/4" x 2 3/4" on 120 film
- Cat. No. 1292 RH/12—Square Format:** 12 exposures, 2 1/4" x 2 1/4" on 120 film
- Cat. No. 1293 RH/20—Ideal Format:** 20 exposures 2 1/4" x 2 3/4" on 220 film
- Cat. No. 7351 RH/50—Ideal Format:** 50 exposures, 2 1/4" x 2 3/4" on 70mm film
- Cat. No. 1266 Grafmatic Sheet Film Magazine:** 6 sheets of film. 2 1/4" x 3 1/4"
- Cat. No. 1232 Graphic Film Pack Adapter:** 16 sheets. 2 1/4" x 3 1/4"
- Cat. No. 7350 Polaroid\* Pack Film Holder:** 8 exposures. 3" x 4"

\*Reg. T.M. Polaroid Corp.

## 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.

## 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**

## xl Professional Duty Cable Releases

Heavy duty construction. Long swivel tip for easy attaching to shutter dirt and moisture resistant.

- a. **Cat. No. 7394 18"**  
 b. Locking type for opening shutters which have no "T" setting.  
**Cat. No. 7393 18"**

## xl Rangefinder Eye Shield

Cuts out extraneous light between eye and rangefinder window (supplied as standard with new cameras).

**Cat. No. 7360**

## Quick Focus Lever

Fits over focusing ring of xl cameras for fast finger tip focusing, adjustable to any position.

**Cat. No. 7349**

## xl Flash Bracket

Attaches to either side of camera. For Graflite or electronic flash equipment with heavy duty clamps, (Cat. No. 2771). Includes anchored strain relief cord Cat. No. 7492 to relieve all strain from shutter contact. Accepts ASA bi-post cord, Cat. No. 2701 or No. 2810.

**Cat. No. 7491**

## ASA Bi-Post Synchronized Shutter Cord

**Cat. No. 2701** 20" straight

**Cat. No. 2810** 36" Expand-O-Cord

## Cap Cord (DIN Fitting) for Compur Shutter

For connecting shutter directly to flash when an xl flash bracket is not used.

**Cat. No. 2721** 20" straight

**Cat. No. 2821** 36" Expand-O-Cord

**Cat. No. 7492** 12" replacement on Cat. No. 7491 See flash cord section for details.

## xl Vulcanoid Carrying Case

For complete xl outfit. Accepts completely assembled camera, lens, holder and multigrip, plus extra accessories. Heavy duty yet lightweight, moveable partitions. 9 1/2" x 11" x 19 1/2"

**Cat. No. 7373**

## xl Lens Case

For 180mm and smaller lenses, moveable partitions, accommodates 2 normal lenses or one lens and a selection of filters. Strap loops for carrying on belt or gadget bag strap.

**Cat. No. 7377**

## xl Body Cable Release with Holder

Attaches to all xl cameras for convenient body release action when Multi-Grip is not being used.

**Cat. No. 7382**

# xl ACCESSORIES



## 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 xls Super Wide Angle Camera Body

**Cat. No. 7362** for xlr or xls Camera Body

## Sportsfinder Masks, Plexiglass Clip-On Type

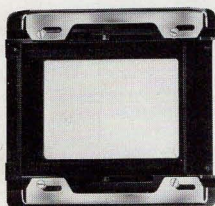
**Cat. No. 7363** for xls Super Wide Angle Camera Body—Polaroid

**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

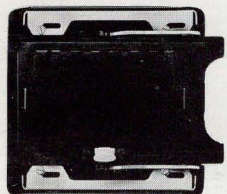
**Cat. No. 7367** for xl RH/10 format with 270mm Lens



## xl Graflok Back

Attaches directly to any xl camera body providing base for all focusing panels and most film holders. Reversible for right or left hand operation.

**Cat. No. 7304**



## xl Graflok Back Complete

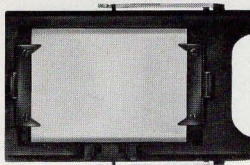
Made up of the following items:

**Cat. No. 7304** Graflok Back

**Cat. No. 7383** Focusing Panel

**Cat. No. 7145** Viewing Hood

**Cat. No. 7305**

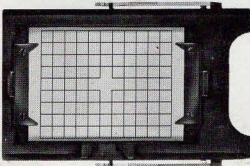


## xl Focusing Panels

All three attach to Cat. No. 7304:

a. Panel with limit lines for ideal format  $2\frac{1}{4}'' \times 2\frac{3}{4}''$  (Supplied as part of Cat. No. 7305)

**Cat. No. 9283**

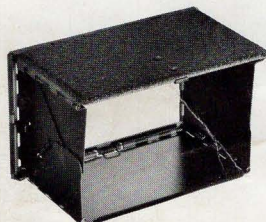


b. Panel with limit lines for ideal format and with Ektalite field lens for brighter corner viewing.

**Cat. No. 9284**

c. Panel with Grid lines and Ektalite field lens for critical composition and alignment of subject matter

**Cat. No. 9276**



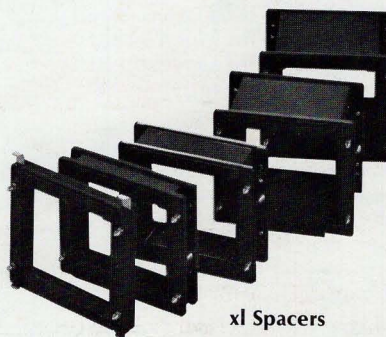
## xl Viewing Hood

Removeable all metal shields focusing panel for focusing. Opens and closes easily with one hand.

**Cat. No. 9145**

## FINDER AND MASK CHART

Picture Format	Lens	Finder or Mask Use	Finder Cat. No.	Mask Cat. No.
$2\frac{1}{4}'' \times 2\frac{1}{4}''$ Square	58, 100, 180	Mask index lines	7362	7366
$2\frac{1}{4}'' \times 2\frac{3}{4}''$ ideal format	58	Finder frame outside edge	7362	
$2\frac{1}{4}'' \times 2\frac{3}{4}''$	80	Finder frame inside edge	7362	—
$2\frac{1}{4}'' \times 2\frac{3}{4}''$	100, 180	Mask index lines	7362	7365
$2\frac{1}{4}'' \times 2\frac{3}{4}''$	150	Mask index lines outside limit	7362	7365
$2\frac{1}{4}'' \times 2\frac{3}{4}''$	270	Mask index lines	7362	7367
$2\frac{1}{4}'' \times 3\frac{1}{16}''$ wide	47	Finder frame	7361	
Polaroid	47	Entire mask	7361	7363
Polaroid	100, 180	Mask index lines	7362	7364



## 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 xls Camera Body

LENS	$\frac{1}{2}''$ Spacer	1" Spacer	$1\frac{1}{2}''$ Spacer	3" Spacer	$3\frac{3}{4}''$ 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 xls Body to accept all xl lenses.

### Object To Image Reproduction Ratio With xlr or xls Camera Bodies

LENS	$\frac{1}{2}''$ Spacer	1" Spacer	$1\frac{1}{2}''$ Spacer	3" Spacer	$3\frac{3}{4}''$ 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

### $\frac{1}{2}''$ Length

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

### 1" Length

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

### $1\frac{1}{2}''$ Length

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

### 3" Length

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

### $3\frac{3}{4}''$ Length

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

### Custom Lengths

Spacers to meet your exact requirements are available—write to Graflex Customer Service Department giving full details for quotation.