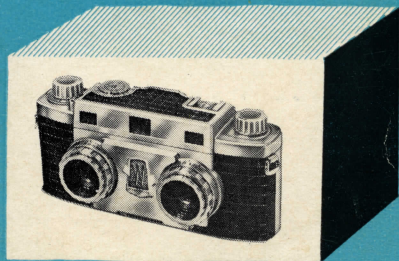




Wollensak



INSTRUCTION MANUAL

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- Know Your Camera..... 4-5
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- How to Expose..... 8-9
- Simplified Exposure ..... 10
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- How to Use Flash.....12-13
- Hyperfocal Table ..... 14
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# INTRODUCTION

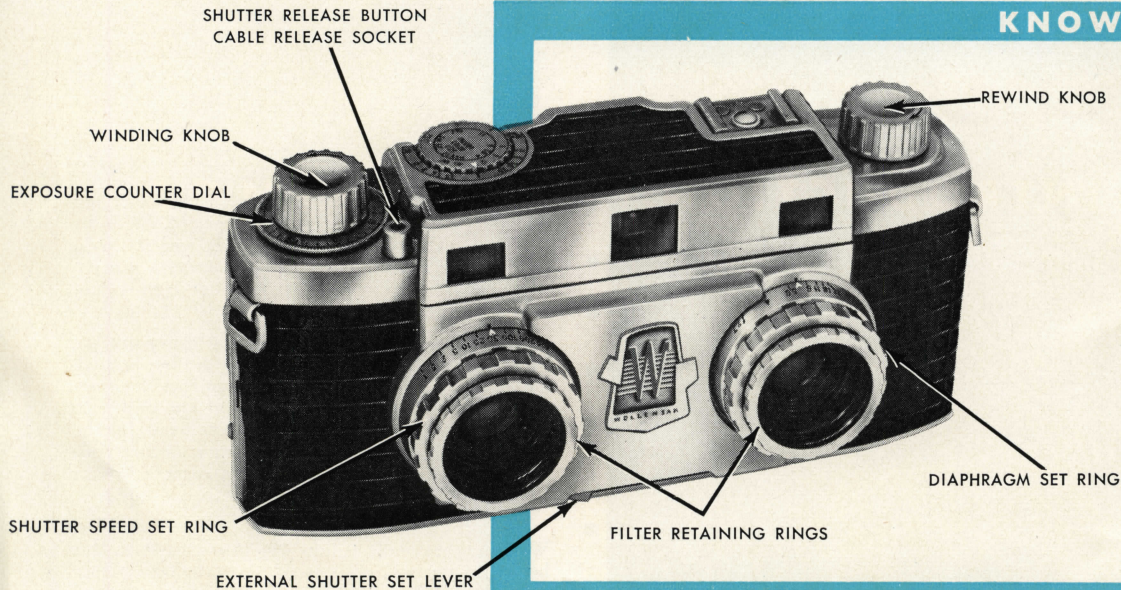
- New vistas of photographic pleasure await you with this fine Wollensak stereo camera. With its thrilling realism of third dimension and its vivid colors, your stereo camera will give you a real-as-life record of your vacations, your friends and family as they are today.

Since 1899, the Wollensak Optical Company has been known for their production of fine optical lenses and precision, high-speed cameras. Now we are turning our vast experience and knowledge to the design and manufacture of fine cameras for the amateur. This, combined with the finest of materials and workmanship, has produced a camera that is unexcelled in design and performance.

We are sure that you will enjoy your fine Wollensak camera. Follow the instructions in this book and you will easily achieve stereo transparencies you will be proud to show.



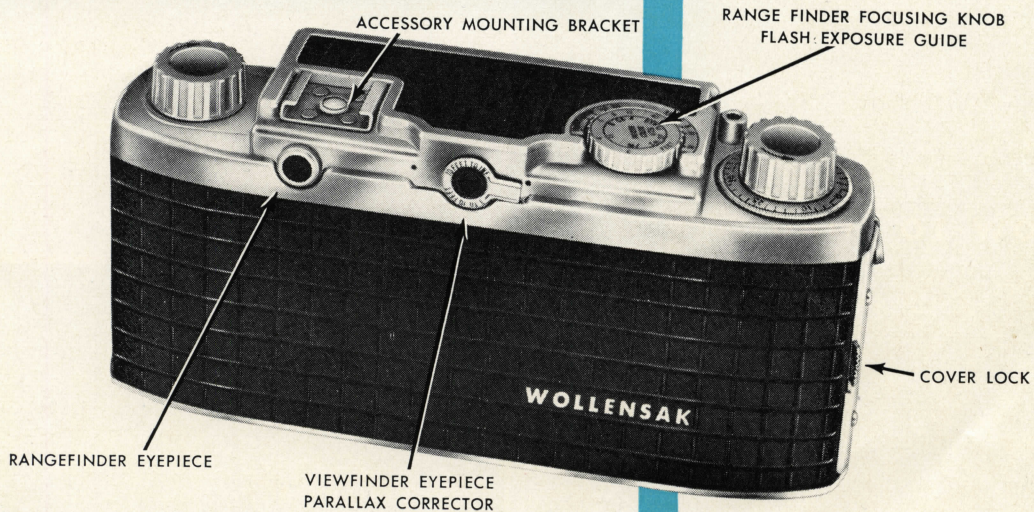
KNOW



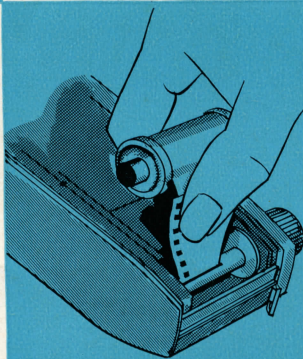
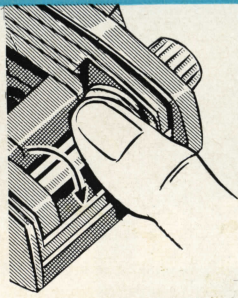
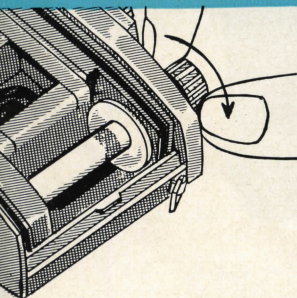
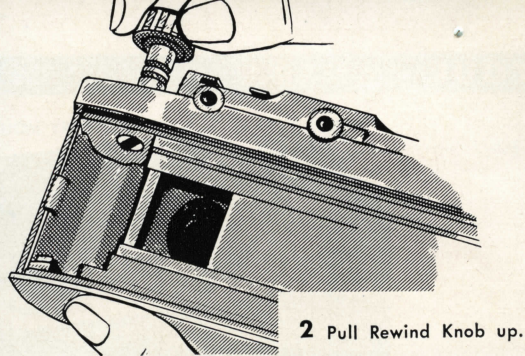
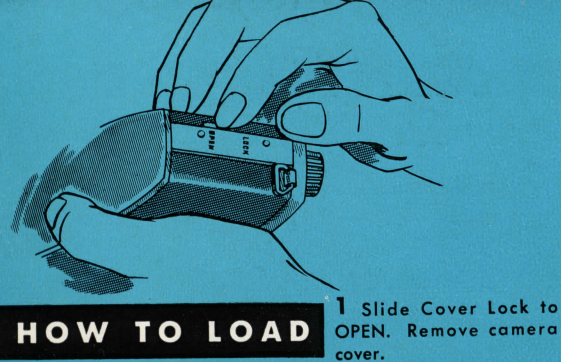
KNOW



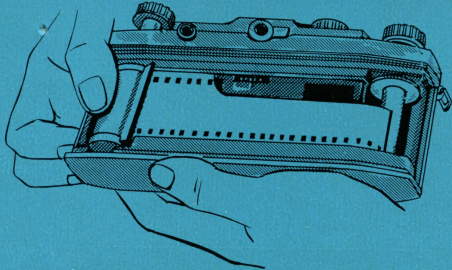
## YOUR CAMERA



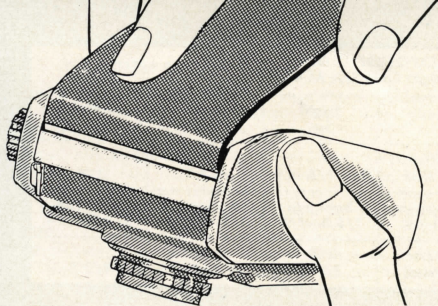
## YOUR CAMERA



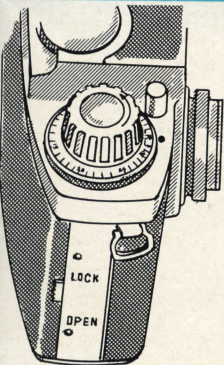




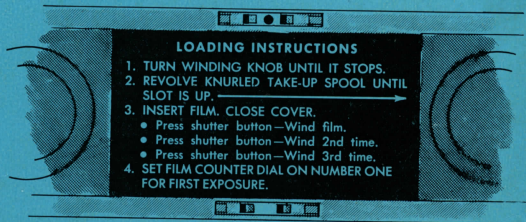
**5** Draw film cartridge across film channel and drop cartridge into recess. Push down Rewind Knob.



**6** Insert Cover hinge into hinge recess.



**7** Press cover closed. Lock snaps into locked position. Press Shutter Release and advance film. Press Shutter Release and advance film a second time. Press Shutter Release and advance film a third time. You are now ready for first exposure. Set Exposure Counter Dial to 1. (Turn Exposure Counter Dial clockwise only.) When advancing film Rewind Knob will turn only after slack in film cartridge has been taken up.



#### LOADING INSTRUCTIONS

1. TURN WINDING KNOB UNTIL IT STOPS.
2. REVOLVE KNURLED TAKE-UP SPOOL UNTIL SLOT IS UP. →
3. INSERT FILM. CLOSE COVER.
  - Press shutter button—Wind film.
  - Press shutter button—Wind 2nd time.
  - Press shutter button—Wind 3rd time.
4. SET FILM COUNTER DIAL ON NUMBER ONE FOR FIRST EXPOSURE.

- For quick reference, condensed loading instructions appear inside the camera.



EXPOSURE GUIDE Daylight Color Film ASA 10		SHUTTER SPEED 1/50	
	Bright Sun	Hazy Sun	Cloudy Bright
Light Subject	f/8	f/5.6	f/4
Average Subject	between f/5.6—f/8	between f/4—f/5.6	between f/2.7—f/4
Dark Subject	f/5.6	f/4	f/2.7

## HOW TO EXPOSE

**1** Set proper shutter speed and lens opening. A convenient exposure guide has been placed on the bottom plate of the camera. When other combinations of shutter speeds and lens openings are desired, use of a light meter is recommended.

Type A, indoor film, rated ASA 16, may also be used for sunlight exposures with Daylight conversion filters. With this combination the exposures are the same as recommended for Daylight color film rated ASA 10.

*Always set the calibration marks of the shutter speed selected directly in line with the index mark on the front of the camera.*



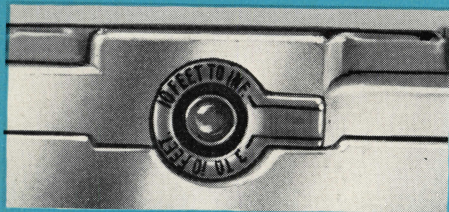
**2** Look through the Rangefinder Eyepiece. Select the main object in your picture. Adjust Rangefinder Focusing Knob until the double image blends into one image. The chosen object is now in sharp focus.

**OUT OF FOCUS**



**IN FOCUS**





**3** Look through Viewfinder Eyepiece. Concentrate on framing the main object to give the desired composition. The level bubble, when visible at any point along the bottom of the viewfinder window, will produce stereo pairs free of tilt. This eliminates eyestrain when viewing stereo pictures.

Hold camera firm and steady when pressing Shutter Release Button.

Set Parallax Corrector as required. For subjects located from 10 feet to Infinity the **BLACK** line is aligned with the **BLACK** dot. For distances of 3 to 10 feet the Parallax Corrector should be rotated to the left until the **RED** line is aligned with the **RED** dot.



The Wollensak Stereo Camera has filter retaining rings built into each lens barrel, assuring perfect filter alignment. The filters, when in place, thus become an integral part of the camera.

The lens barrel will accept Series V mounted filters. To install the filters, remove the lens retaining rings, lay the filters in place, and reassemble the filter rings. Tighten the retaining rings enough to hold the filters firmly, but not too tight. The following filters are most generally used.

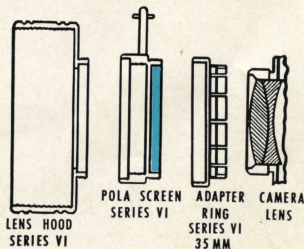
**HAZE FILTER** — a colorless filter used for penetrating blue atmospheric haze and improving the clarity of distant landscapes. Also minimizes bluish cast when taking pictures in the shade. No exposure increase necessary.

**TYPE A FILTER** — a conversion filter used only when taking pictures in daylight with Type A Indoor Film. Exposures are the same as when exposing film labeled for Daylight use.

**81C FILTER** — for improved color rendition of pictures taken with Type A Indoor Film and No. 5 GE flash lamps.

**POLA SCREEN FILTER** — Dramatic and very striking blue sky effects can be obtained with Pola Screen Filters of subjects that are top or side lighted. The Pola Screen method is the only known means of darkening the sky in color photography without affecting any of the other colors. See instructions supplied with filters for proper use.

The Wollensak Stereo Camera accepts Series VI EK Pola Screen, Sun Shade, and 35 MM Adapter Ring. The EK Pola Screen assemblies are used as slip-on accessories. Do not remove filter retaining rings which are a part of the camera. See illustration for correct assembly of EK Pola Screen components.



**simplified**

**3-arrow**

**exposure**

**FOR  
USE  
WITH**

**DAYLIGHT  
COLOR  
FILM  
ASA 10**

**BRIGHT  
SUN**

**AVERAGE  
SUBJECTS**

**SET APERTURE**

**SET SHUTTER**

**SET RANGE FINDER**

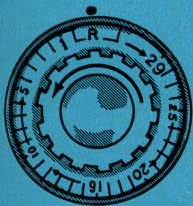
**1**

**2**

**3**

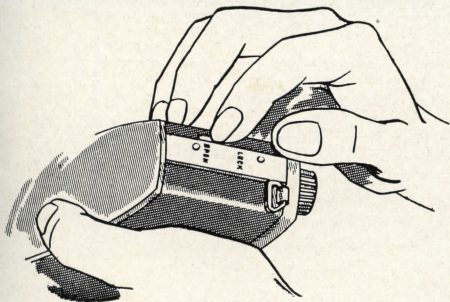
**objects in focus  
from 7 ft. to Inf.**



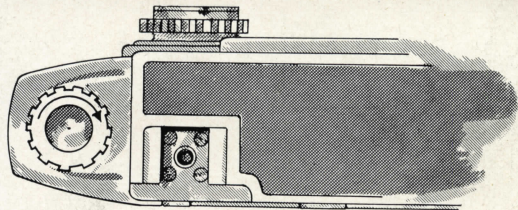


Your Counter will indicate when the film is completely exposed. Film packaged for Stereo use only should show 20 exposures. The standard 20 or 36 exposure roll should show 16 or 29 stereo exposures respectively. **CAUTION:** Do not advance film beyond the recommended number of exposures. Overwinding will break film loose from Rewind Spindle and require removing film in dark room.

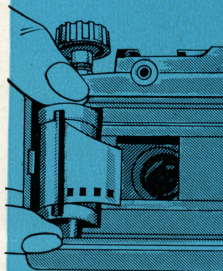
**1** Turn Exposure Counter Dial clockwise until the R lines up with the RED index dot.



**3** Unlock and remove camera cover.



**2** Exposed roll of film is returned into cartridge by turning Knob marked "REWIND" in direction of arrow. When film is completely rewound into cartridge, Rewind Knob will turn without tension. **CAUTION**—Damage to film or camera mechanism may result if either Rewind or Winding Knob are forced in the direction opposite to the arrows.



## HOW TO UNLOAD

**4** Pull up Rewind Knob and remove film cartridge. To reload at this point, begin with Step 3, page 6.

## HOW TO USE FLASH



### FLASH SYNCHRONIZATION

Flash pictures are easy to make with your Wollensak Stereo Camera. For your convenience the shutter has been internally synchronized for Class "M" and "F" flash lamps and Strobe lights. Select the proper shutter speed and lens opening according to the directions for the type of lamp you are using.

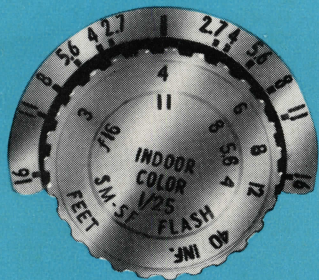
TYPE OF LAMP	SHUTTER SPEED
MEDIUM PEAK (#5 or #25)	1/25
FAST PEAK (SM or SF)	1/25, 1/50, 1/100 (f/stop same at each speed)
STROBE LIGHT (Class X)	All Shutter Speeds

### MOUNTING THE FLASH UNIT

Mount the flash unit by sliding the Mounting Foot into the Accessory Mounting Bracket on the camera. Press flash unit forward until fully inserted to a positive stop.

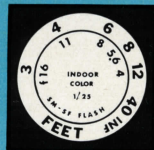
*Caution:* Mount unit on camera before inserting lamp and always flash with protective shield in place.





## INDOOR COLOR FLASH GUIDE

Shutter speed 1/25 second—average subjects—5 inch reflector. With flash gun attached to camera, focus



rangefinder dial on subject, and read "FEET" marked in RED. Correct exposure is indicated below the RED numbers. For example: If rangefinder dial indicates 6 feet, correct lens opening setting is f/8. Dial is computed for SM or SF flash bulbs with indoor color film.

Short peak performance makes this type bulb ideal for stopping action. No special filter is required. When exposing indoor color film with No. 5 flash bulbs, an EK81C filter is recommended for correct color rendition. For No. 25 bulbs use an EK81D filter. When using No. 5 or 25 flash bulbs expose as follows:

Feet	4½	6½	9	12	18	20
f/stop	f/16	f/11	f/8	f/5.6	f/4	f/3.5

Although not recommended for best results, daylight color film may be exposed with 5B or 25B blue tinted flash bulbs as the main light source. Exposures are the same as indicated on rangefinder dial computed for SM-SF flash with indoor color film.

As in outdoor photography, expose light subjects ½ stop less and dark subjects ½ stop more.

Caution: Since bulbs may shatter when flashed, use a clear protective shield over the reflector as a safety measure. Do not flash lamps in an explosive atmosphere.



When DISTANT AS WELL AS CLOSE OBJECTS are included in a stereo picture, the greatest depth-of-field is obtained by advancing the Range Finder Dial to a footage indication termed the "Hyperfocal Distance". Choice of correct Hyperfocal setting will produce a sharp image from approximately half the Hyperfocal Distance to Infinity (Over 100 ft.).

Maximum depth-of-field can be obtained by consulting the following Hyperfocal table.

APERTURE SETTING	RANGE FINDER HYPERFOCAL SETTING	PICTURE IS IN FOCUS FROM APPROX.
f/22	6 feet	3 feet to INF.
f/16	8 feet	4 feet to INF.
between f/11 & f/8	12 feet	6 feet to INF.
arrow between f/8 & f/5.6	arrow between 12 feet & 40 feet	7 feet to INF.
f/4	40 feet	20 feet to INF.
f/2.7	INF.	30 feet to INF.

**SET RANGE FINDER DIAL ON INFINITY, WITH ALL "F" STOPS, WHEN PHOTOGRAPHING DISTANT SCENES WITHOUT FOREGROUND INTEREST.**

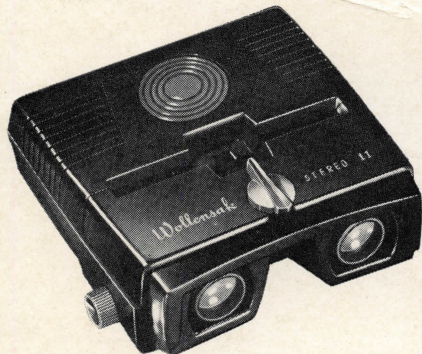
Pictures taken with small f-stops require longer exposures and a tripod to steady the camera. When photographing action, faster shutter speeds and increased lens openings are necessary. Select correct shutter speed for above aperture settings by using a reliable light meter or exposure computer. For fixed focus results, beginners are urged to use the simplified 3-arrow system described on page 10.

## HYPERFOCAL TABLE

### HOW TO COMPUTE DEPTH-OF-FIELD WITH THE RANGE FINDER DIAL

Depth-of-field may also be computed with the aid of two groups of f-numbers located outside the Range Finder Dial. For example: If the Range Finder is focused on a closeup and reads 4 feet and the chosen aperture is f/8, note that the f/8 on the left side lines up with the RED 3, and on the right side f/8 lines up with the RED 6. This indicates that a subject focused at 4 feet and exposed at f/8 will be in critical focus between 3 and 6 feet. (See illustration pg. 13). In this case, objects being photographed should be situated near a background which is also 6 feet or closer. This method of computing depth-of-field is especially helpful when taking pictures of closeups which include a near background. Remember that in the best stereo slides, all objects should be in sharp focus. Always choose settings giving the best depth-of-field coverage.

## WOLLENSAK



### STEREO VIEWER

The finest show you've ever seen—natural, life-like, easy on the eyes. Precision Wollensak achromatic lenses give exceptional picture sharpness and depth . . . brings out true color. Right and left hand focusing knobs and interocular adjustment fits the picture to your eyes. Large light switch button makes viewing of many slides effortless. Built-in illumination system; durable lightweight plastic body.

S  
T  
E  
R  
E  
O

## ACCESSORIES



### CAMERA CARRYING CASE

A fine, top grade, imported saddle leather case with strap. Designed with convenient drop front and built-in tripod mount.

**WOLLENSAK OPTICAL COMPANY • 320 EAST 21st STREET • CHICAGO 16, ILLINOIS**