



GRAFLEX[®]

Prize-Winning Cameras

**Stereo
Graphic[®]**

**INSTRUCTION
BOOK**

www.orphancameras.com

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Congratulations **YOU NOW OWN A Stereo Graphic**

Your Stereo Graphic goes beyond the capabilities of previous stereo cameras in that it gives you maximum three dimensional effect without having to manually focus your camera. For this camera has a unique and exclusive method of focusing known as Depthmaster Auto-focus. Even a beginner can get thrilling lifelike three dimensional pictures with the Stereo Graphic.

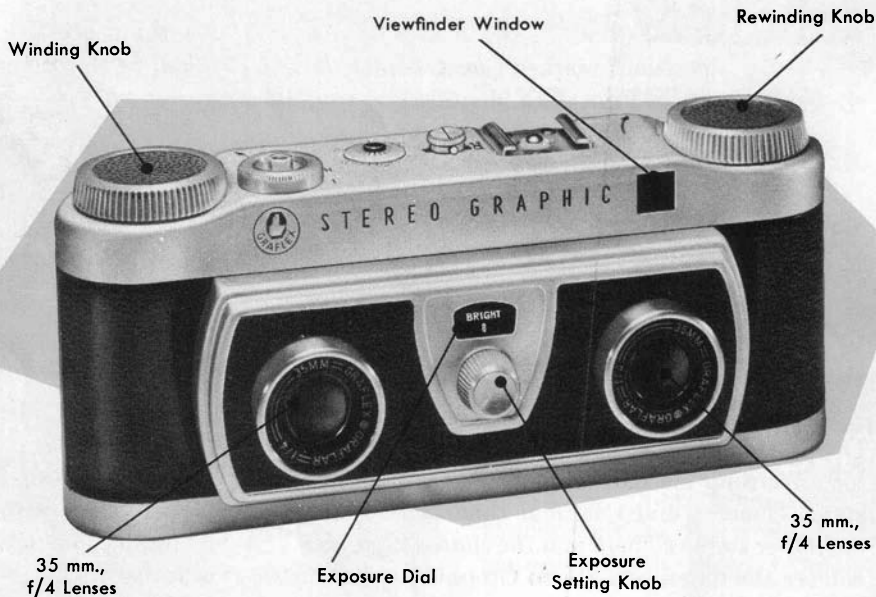
EASY A..B..C..Picture taking...

- A.** . . **SELECT THE CORRECT EXPOSURE SETTING**; there are five positions marked *Cloudy, Hazy, Bright, Brilliant* and *f/16* for Color Film (also identified by f/numbers).
- B.** . . **SIGHT AND SHOOT.**
- C.** . . **WIND THE FILM FOR THE NEXT PICTURE**; this automatically cocks the shutter, prevents double exposures, and turns the film counter dial.

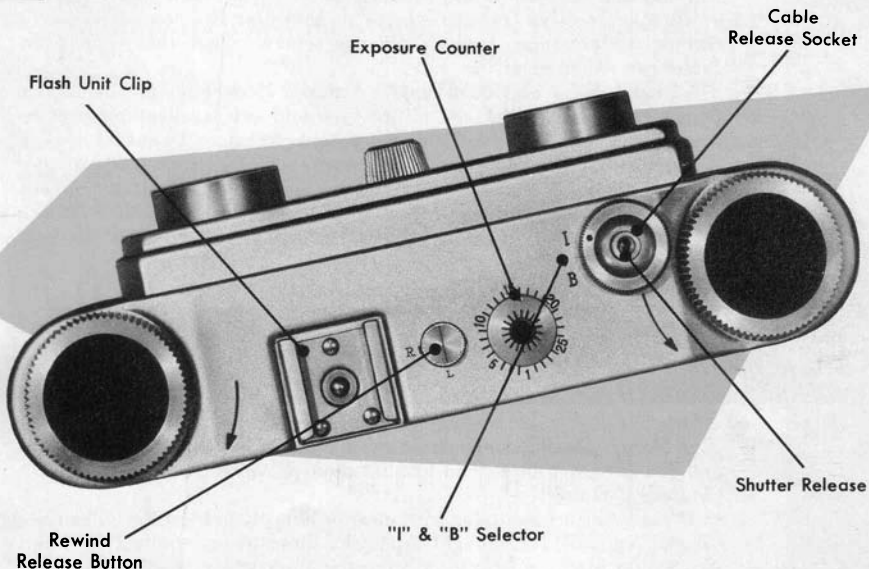
Y

our new Stereo Graphic is different from other stereo cameras. The Depthmaster lens system used in the Stereo Graphic eliminates the need for a focusing mechanism and gives you greater depth of field than other stereo cameras under normal conditions. Compare the slides taken with any other stereo camera and the slides taken with a Stereo Graphic and you will see the difference. Stereo Graphic slides are always in focus from foreground to background.

Here are the parts of your Stereo Graphic®



Your Stereo Graphic camera is a precision instrument designed and built by the world's most skilled photographic craftsmen. They have for years built the famous Speed Graphic cameras used by press photographers around the world.



What kind of film to buy . . .

Any type of 35 mm. film can be used in the Stereo Graphic, but you will find that the easiest and least expensive is color film that gives you a full color positive transparency. This includes: Kodachrome, Anscochrome, Ektachrome, Ansco Color and several others that your photo dealer can recommend.

All color films are identified for outdoor (daylight) use or indoor (tungsten) use. You can use either type and get excellent pictures as long as you carefully follow the instructions on pages 10 and 11.

These films come in 20 and 36 exposure rolls. *NOTE: on a 20 exposure roll you will get 16 pairs of stereo pictures; on a 36 exposure roll you will get 29 pairs of stereo pictures.* Kodachrome film is also available in size 335, made especially for stereo cameras, which gives 20 pairs of pictures on a roll.

What kind of flash bulbs to buy . . .

Your Stereo Graphic is synchronized for all M type bulbs such as No. 5 and No. 25 (M-2 bulbs can also be used provided you have the M-2 Graflash B-C unit).

These bulbs are available with clear or blue glass. Use blue bulbs (No. 5B and No. 25B) for daylight type color film and clear bulbs (No. 5 and No. 25) for black and white or tungsten (indoor) type color film. For detailed instructions see pages 10 and 11.

Take care of your CAMERA . . .

Protect it from dust, dirt and rain. It is a good idea to keep the camera in the leather carrying case with the cover flap closed whenever the camera is not in use.

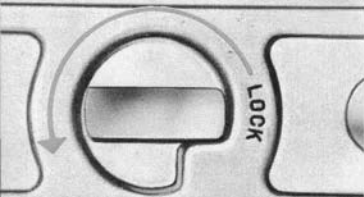
Do not attempt to oil or repair your STEREO GRAPHIC yourself. Remember that on general principles it is a good idea to have your photo dealer check your camera every few years to make sure it is in tip-top operating condition.

The surface of the lenses has a hard coating which will reduce internal reflections and help make clearer, brighter color transparencies. To preserve the coating, clean the lenses with a soft camel's hair brush or lens tissue. Moisten the lens tissue with a drop or two of lens cleaner. Do not apply the lens cleaner directly to the surface of the lenses. When cleaning the lenses, wipe them with smooth, easy motions. Avoid scrubbing the lenses.

LOADING YOUR Stereo Graphic®



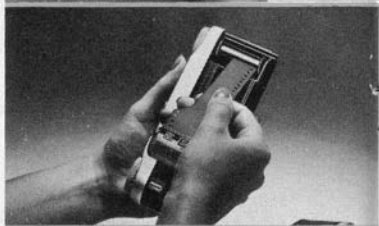
1. Remove the camera from the leather carrying case by loosening the large thumb screw (fig. 1) on the bottom.



2. Turn the *Lock* lever on the bottom of the camera in a counterclockwise direction (fig. 2).



3. Now that the camera is unlocked, the bottom and back can easily be slipped down about $\frac{1}{4}$ inch and lifted off (fig. 3).

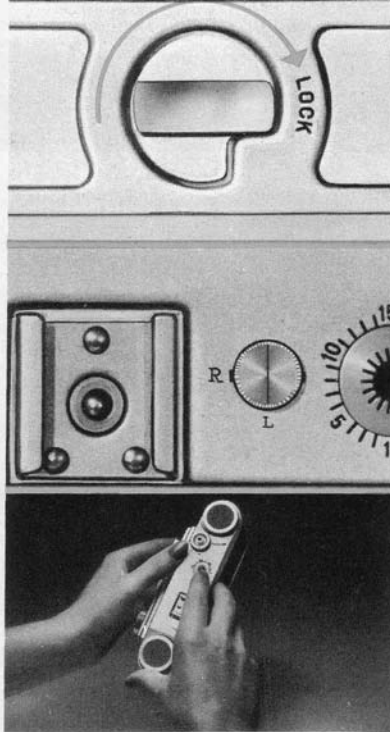


4. Turn the winding knob so that the slot in the take-up spool is showing (fig. 4).

5. Hold the camera in the left hand and the film in the right hand. Insert the end of the film into the slot on the take-up spool with the perforated edge against the flange of the spool (fig. 5).

6. Place your left thumb on the film to hold it in place, draw the film cartridge toward you, and slip it into position. Turn the rewind knob until the cartridge is engaged (fig. 6).

7. Transport film by turning winding knob in the direction the arrow points until it stops. The film can also be advanced by turning the take-up spool directly with the thumb. The film must lie between the guide rails and both sprockets must engage the film perforations (fig. 7).



8. Lay the back of the camera over the film and slide it closed. Lock it by turning the *Lock* lever in a clockwise direction (fig. 8). With the back in place, *press the shutter release and wind the film*. Repeat this complete *cycle* two more times. The camera is now set.

9. Turn the knurled rewind release button on the top of the camera so that the lock pins in it extend across the camera away from the slots in the cover. This will prevent its being accidentally depressed, which would cause the exposure counter dial to register incorrectly and may result in incorrect advance of the film.

10. Set the exposure counter at "16" for regular 20-exposure film or at "29" for regular 36-exposure film, or at "20" for Kodachrome 335. To set, press down on black center of dial and turn (fig. 10). After each exposure, turn winding knob *fully until it locks*; dial will tell you how many exposures you have *left* on the film.

**THE CAMERA IS NOW READY
TO TAKE THE FIRST EXPOSURE**

www.brianclark.com

Setting the exposure dial . . .

The exposure setting controls the lens opening and regulates the amount of light that reaches the film. It is the only adjustment you will have to make in order to get good pictures.

When you turn the exposure setting knob (fig. 1) on the front of the camera you will see that there are five different positions. Each position is identified with a descriptive word and a number (for example: Bright—8). The numbers are standard f/stops used by advanced amateur and professional photographers. The descriptive word refers to the amount of sunlight shining on the subject and makes it easy for the beginner to select the correct exposure setting.

When using daylight Kodachrome or daylight Ansco Color Film follow these simple directions.

DO NOT SET THE EXPOSURE DIAL BETWEEN STOPS



fig. 1

1. Be sure that the black dot on the shutter selector is set at instantaneous, "I." (Approximately 1/50 second has been chosen to assure good exposures.) (Fig. 2).

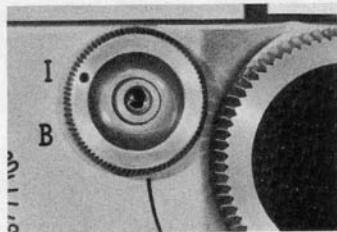


fig. 2

2. For a clear sunny day, set the exposure dial at "BRIGHT" and you are ready to take your picture. *For a brilliant sunny day at the beach or on the snow set the diaphragm at "BRILLIANT"; for a hazy day with soft shadows set the diaphragm at "HAZY." On dull overcast days you can take pictures at "CLOUDY" but the colors are usually bluish-gray, just as they appear to the eye.*

To take pictures with Ektachrome or Anscochrome film outdoors, and when taking flash pictures, follow the f/stop numbers listed in the charts on the opposite page.

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DAYLIGHT SETTINGS*

	Daylight Color Films.		Kodachrome A (indoor) No. 85 Filter
	Kodachrome Ansco Color	Ektachrome Anscochrome	
Beach, water and snow scenes in bright sun	Brilliant f/11	f/16	Brilliant f/11
Nearby subjects of average color, sunny, clear sky	Bright f/8	Brilliant f/11	Bright f/8
Hazy, light clouds, transparent shadows, with no sharply defined edges	Hazy f/5.6	Bright f/8	Hazy f/5.6
Cloudy sky, overcast, no shadow**	Cloudy f/4	Hazy f/5.6	Cloudy f/4
Open shade.** Subject in open with ample light from sky overhead, but not in direct sunlight.	Cloudy f/4	Hazy f/5.6	Cloudy f/4

**Note that pictures taken under these conditions may have an excessive bluish cast. Picture taking is not recommended under these conditions because of difficulty of judging light values. Try one exposure at indicated setting, and if possible, one with the next larger lens opening.

*For Stereo Graphic with shutter selector set at "I."

FLASH SETTINGS*

	7-10 ft.	10-14 ft.	15-22 ft.
Kodachrome (daylight with blue bulbs)	5.6	4	—
Kodachrome (indoor type A with clear bulbs)	11	8	5.6
Ektachrome (daylight with blue bulbs)	8	5.6	4
Ektachrome (indoor type F with clear bulbs)	16	11	8
Ansco Color Film (daylight with blue bulbs)	5.6	4	—
Ansco Color Film (indoor with clear bulbs)	11	8	5.6
Anscochrome (daylight with blue bulbs)	8	5.6	4
Anscochrome (indoor with clear bulbs)	16	11	8

*The correct diaphragm setting for flash pictures depends upon the distance between the *flash bulb* and the *subject*. These flash settings are for No. 5 or No. 25 flash bulbs (clear or blue as indicated) used with the Stereo Graphic and with the shutter selector set at "I."

Note: Do not set the exposure dial between stops.

Taking the picture . . .

COCKING THE SHUTTER and DOUBLE EXPOSURE PREVENTION—Your Stereo Graphic has an Automatic Cocking Shutter coupled to the Winding Knob. Simply wind the knob after each exposure and your shutter is cocked ready for use. Note: Just turn the knob until it stops. Excessive pressure is not needed and should be avoided. The Stereo Graphic also has Double Exposure Prevention, so if your shutter fails to operate it is an indication that you inadvertently forgot to wind the film.

SET THE EXPOSURE DIAL . . . SEE PAGE 10 (do not set the exposure dial between stops).

SETTING THE SHUTTER—On the top of your Stereo Graphic you will find two shutter positions identified as “I” and “B” (fig. 1). Choose the shutter setting you want by turning the Shutter Selector so that the black dot lines up with the letter “I” or “B.”

The “I” setting stands for *instantaneous* (approximately 1/50 second). *All of the exposure settings described on pages 10 and 11 are to be used with the shutter set at “I.”*

The “B” setting stands for *bulb* and is used in taking long exposures. Its use is described on page 14.

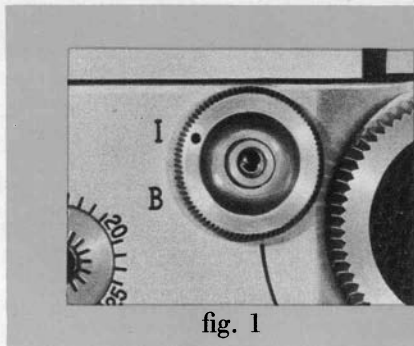




fig. 2

HOLDING THE CAMERA—When using any stereo camera it is *important to hold the camera perfectly straight and level*. Pick up with both hands and hold as shown in fig. 2. Hold the camera tightly against your face so that you can see through the viewfinder window. Pull your elbows in close to your body so that the camera will be as steady as possible.

FRAMING THE SUBJECT IN THE VIEWFINDER—To get the best pictures from your camera, consider the scene you see through the viewfinder . . .

Get the subject in the center of the picture.

Don't be afraid to get close when photographing people and pets (your Stereo Graphic will give you sharp focus as close as four feet).

Check to make sure that horizon lines are not tilted at an angle.

Keep trees, poles and buildings vertical so they do not appear to be falling over.

Make sure your picture has a pleasing background because it will be sharp from foreground to infinity.

CLICKING THE SHUTTER—Simply press the Shutter Release Button in the center of the Shutter Selector (fig. 3). You will hear an audible “click” as the shutter opens and closes. Wind the film for the next exposure by turning the Winding Knob.

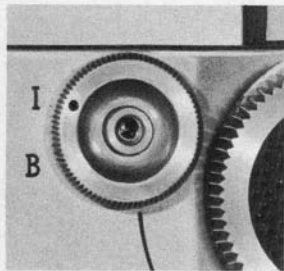


fig. 3

Using the "B"—bulb setting — for SLOW SPEEDS

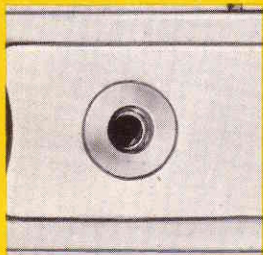


fig. 1



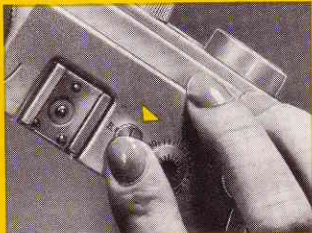
fig. 2

The "B"—*bulb setting*—is for long exposures. You may want to take occasional pictures at slow speeds for special effects, in poor light or when using floodlights indoors. Each of these classes of photography requires specific information that can be found on the sheet of specifications packed with each roll of film you buy. When using your STEREO GRAPHIC at slow speeds it is recommended that you use a tripod and cable release. *Remember that the shutter will remain open as long as the shutter release is depressed.*

MOUNTING ON A TRIPOD—Your STEREO GRAPHIC has a standard tripod socket (fig. 1). Just screw your camera into position.

ATTACHING A CABLE RELEASE—Any standard European or American-made cable release will fit the Cable Release Socket (fig. 2).

fig. 1

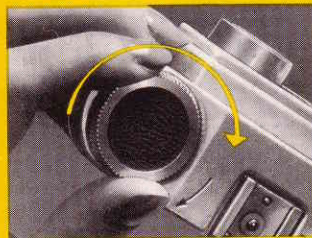


REWINDING THE FILM—Turn the rewind release button until the bar points to “R.” Hold the button down with the lock pins engaged in the key slot until the film is completely rewound (fig. 1).

Turn the rewind knob in the direction of the arrow (fig. 2). Rewind the film until the knob turns very freely (to check—release the button, if the knob continues to turn freely, you may remove the back and take out the film).

Free the rewind release button and turn it to “L” so that it cannot be accidentally depressed. If it should be accidentally depressed with film in the camera, the exposure counter dial will not correctly register the number of exposures left to be made on the film.

fig. 2



UNLOADING THE CAMERA—After the film has been rewound release the *Lock* on the bottom of the camera (fig. 3). Slip the back down $\frac{1}{4}$ " and lift off. Remove the film cartridge.

Have a new roll of film handy so that you can immediately reload your camera, and it will always be ready for use.

Exposed film should be processed promptly. Take it to your camera dealer or follow the processing instructions packed with the film.

fig. 3



How to take INDOOR FLASH PICTURES

with your Stereo Graphic[®]

1. . Slide your Graflash Unit, P-L or B-C, into the flash unit clip as far as it will go. Do not attach or remove with unfired lamp in the socket (fig. 1).
2. . . Insert a flash lamp in reflector socket as shown (fig. 2).
3. . . Set the shutter selector at "I" (fig. 3).
4. . . Set the exposure dial (fig. 4) according to the chart on page 11.

fig. 1



fig. 2



fig. 3

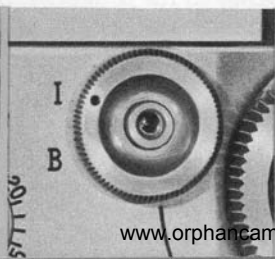


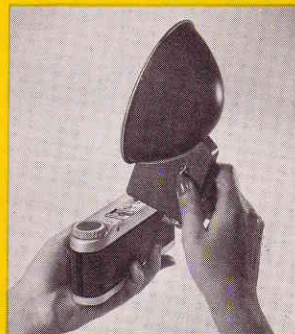
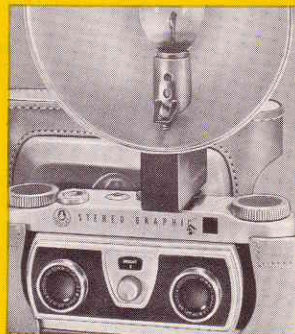
fig. 4



GRAFLASH FOR THE STEREO GRAPHIC—

Your Stereo Graphic will accept three Graflash units. The P-L uses photoflash penlight batteries, and the B-C and M-2 B-C accept a 22½ volt photoflash battery. The first two units accept the bayonet base lamps such as the number 5, 25, SM and SF lamps, and the last accepts the small M-2 lamps, the small reflector providing efficient distribution of light.

FITTING TO CAMERA—Graflash units connect directly to the Stereo Graphic camera without cords or special mounts. Insert the foot of the flash unit into the front of the camera shoe (located on the top of the camera) moving the unit backward as far as it will go freely. Grasp the camera and flash firmly and slide the unit until the curved section of the foot is flush with the fore part of the shoe. This completes the fitting and prepares the equipment for use. To remove the unit apply pressure to the rear of the flash case, gripping firmly so that it does not drop out of the shoe when free. Do not fit or remove the Graflash with an unfired flash lamp in place as it may fire accidentally during fitting or removal.



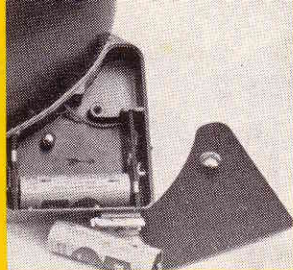
INSTALLING BATTERIES

The Graflash units are offered less batteries in order that fresh ones can be supplied and installed at the time of purchase.

GRAFLASH P-L: Obtain two penlight batteries identified for *photographic* use. Loosen the slotted screw attaching the outer case cover with a coin or finger tips. Remove the plate exposing the interior. Install the batteries observing the arrows conveniently imprinted into the inner portion of the case. Always insert the batteries so that the contact or top end is inserted in the direction of the arrow which will be behind it. Replace cover and tighten down.

GRAFLASH B-C UNITS—Loosen the large screw on the side plate with a small coin or finger tips. Remove the plate exposing the interior. With the reflector facing left, see illustration, the bottom of the battery should also face left, i.e. minus (—) left, plus (+) right. After the battery has been positioned replace the cover and tighten with the screw. With good care the battery should last 1-2 years. **NOTE:** Longer battery life can be expected if lamps are not left in the unit when not in use.

INSERTING AND EJECTING LAMPS **Graflash P-L and Graflash B-C**—The Graflash reflector accepts the standard bayonet type M and F lamps. To fit the lamp, slide the base portion into the socket as far as it will go freely. Apply pressure to the top at the same time pulling forward slightly (see illustration). This will allow the catch to lock the



lamp base into position and the unit will then be ready for use. To remove the lamp depress the ejector at the base of the socket.

INSERTING AND REMOVING LAMPS —

M-2 Graflash B-C—The M-2 lamp has a pinless base and does not have to be turned or aligned in any special way. Merely press the base of the lamp into the reflector socket until it locks in place. To eject, simply push the ejector button on the back of the reflector.

CHECKING—It is good practice to check the equipment from time to time for battery strength and continuity of the circuit. For this obtain from your photo dealer a suitable test lamp. Fit the lamp into the Graflash reflector socket as described above. With the camera unloaded or with the lens covered trip once or twice at a slow shutter speed. Each time that the shutter is tripped the lamp should glow momentarily. Batteries may lose their efficiency with age as well as with use. Strong batteries are your best assurance for constant results. We recommend replacement of penlight batteries approximately every six months and 22½ volt batteries approximately eighteen—twenty-four months.

EXTENSIONS—On one side of the Graflash B-C units will be found an outlet for a two-prong household plug. This accepts a standard connecting cord for Graflite Extension Flash which your dealer will be glad to show you.



Accessories for your Stereo Graphic®



Grafoflash B-C

This small, efficient unit uses a 22½ volt battery and has special current saver circuit. Extension outlet permits use of extension flash. Accepts bayonet base flash lamps.



Grafoflash P-L

Lowest cost Graflash available. Uses two inexpensive penlight batteries. Accepts bayonet base flash lamps.



M-2 Graflash B-C

This unit differs from the regular B-C in that it has new 3" reflector recommended for M-2 flash lamps. Has push-button ejector and extension outlet.



Graflite Sidelighting Unit

For auxiliary back or side lighting, this unit is ideal. Lamp socket assembly has outlets for B-C cartridge and "D" size battery use, two of each accommodating standard household plugs. Adjusts to any position. Includes 15' extension cord.



GRAFLITE® *Jr.*

Designed for more efficient use of Battery or B-C power

Graflite is the finest, most versatile flash unit on the market today. It can be used with "D" size batteries or the new B-C cartridge. Built for use with synchronized shutters.

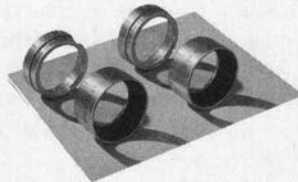
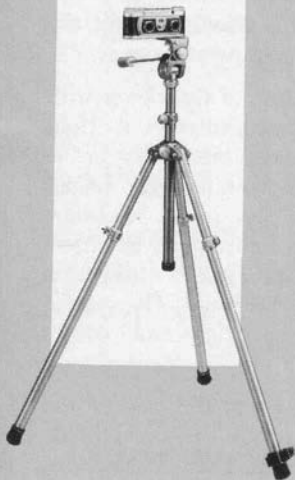
The high efficiency reflector can be adjusted for broad or beam lighting. Light weight, beautifully styled. The finest flash unit you can choose for your Stereo Graphic.

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Graflex Speed Tripod

A good tripod is one of the most useful of accessories. The Graflex Speed Tripod is an ideal unit for your Stereo Graphic. It is rugged, lightweight, compact. Opens to 67 inches, closes to 28 inches. Weighs only 4½ lbs. Complete with Pan-Tilt Head and lateral adjustment for leveling the camera. Quick acting and locking leg extensions with shake proof lock nuts at the top. Double extension center post for quick height adjustment. Economically priced, too.

SEE YOUR GRAFLEX DEALER FOR A COMPLETE LINE
OF GRAFLEX ACCESSORIES



LENS SHADE & FILTERS

Filters for color films especially designed for the Stereo Graphic. Supplied in pairs with slip-on mounts. Lens shades eliminate undesirable reflections on the camera lenses. Slip-on design permits use of filters, sunshades, or both. Camera case may be closed while filters are on lenses.



CARRY-ALL CASE

Handsome grey top grain cowhide. A deluxe case to carry camera, flash, flash bulbs, film, filters, lens shade, exposure meter and other small equipment. Solid reinforced construction. Full length shoulder strap and pad. Lock and key.

Stereo Graphic® Viewer

The Stereo Graphic Viewer has a built-in battery operated light and ground glass diffusion screens for best possible illumination of the slide. You will find it easy and quick to adjust and easy to use.

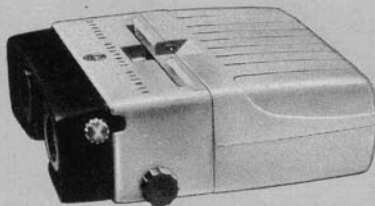
OPERATION—Drop a slide in the slot in the top of the viewer with the slide turned in accordance with the directions printed on it. Hold the viewer in either the right or left hand and press the red bar in the base of the viewer to turn on the light. (Note—fresh batteries should be supplied when the viewer is purchased from your dealer. See below for loading.) Focus the viewer with either the right or the left hand red knob at the sides of the viewer. To gain proper stereo effect, it may be necessary to adjust the separation of the lenses. The control knob for this is conveniently located at the upper right hand corner of the front of the viewer.

CHANGING BATTERIES—Loosen the 2 screws in the base of the viewer. A coin can be used for the purpose. Separate the top and bottom halves of the rear part of the viewer. Insert 2 size D standard batteries for photoflash or industrial use. Be sure to insert them with the tops pointing in the same direction as in a flashlight. Refit the top and bottom sections, sliding them into place, so that they will properly connect with the front part of the viewer. The screws are held in place with retainers, so that they cannot be lost. A coin can be used to re-tighten them.

SIDE

ADJUSTS FOR EYES.

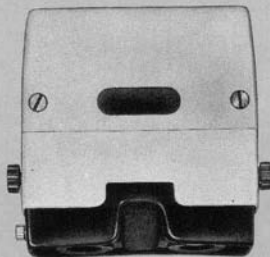
FOCUSING KNOB. 



BOTTOM

PUSH BUTTON.

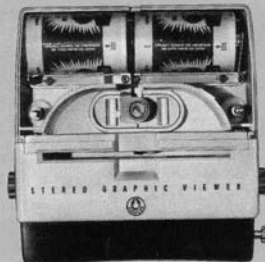
**LOOSEN SCREWS TO
REMOVE COVER.** 



TOP WITH COVER REMOVED

FLASHLIGHT BULB.

D-SIZE FLASHLIGHT BATTERIES. 





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