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PICTURE TAKING WITH THE KODAK

Duaflex II

CAMERA

This Instruction Manual

... was prepared to help you make good pictures right from the start, and consequently get more enjoyment from photography. There are many Kodak publications on various phases of photography obtainable from your Kodak dealer—some free and some at a nominal price. Ask for them.

Sales Service Division
EASTMAN KODAK COMPANY
Rochester 4, New York



www.orphancameras.com

KODET
LENS



Your photofinisher makes oversized prints from the $2\frac{1}{4} \times 2\frac{1}{4}$ -inch negatives at a cost little more than that of contact prints.

*Picture taking
with the* KODAK

DUAFLEX II CAMERA

KODET LENS

Picture taking is fun with your Kodak Duaflex II Camera. Its large reflex finder, its fixed-focus lens, its single-speed shutter with built-in flash synchronization make for simplicity and efficiency. But if you would make sure of getting good pictures at the very outset, spend a few minutes reading this manual and becoming acquainted with your camera.

Then before your vacation or any important event, make some trial shots just to be sure that you understand your camera and know that your equipment is operating properly. Your Kodak dealer will be glad to help you.

It's Versatile

- **It has a reflex finder** protected from reflections and unwanted light by a finder hood. The finder gives a large, brilliant image of the subject and shows just what each picture will include.
- **It takes flash pictures** with the aid of the Kodak Duaflex Flashholder. With this accessory you can take pictures any time—day or night. The Flashholder is put on in a matter of seconds and the flash is synchronized by the shutter.
- **It takes color pictures** as well as black-and-white. Kodacolor Film opens the world of color to you with your Duaflex. The familiar tones of children's hair, eyes, cheeks, clothes . . . the vivid colors of landscapes, of flowers, beach scenes, picnics . . . you can get them all in Kodacolor snapshots.



It Opens in a Jiffy

Probably the first thing you'll want to do is open the finder hood and look through the finder. Insert the tip of the thumb in the small cutout in the edge of the hood as shown in the illustration; then raise the finder hood as far as it will go. Close the hood by returning it to its original position.

Be careful not to depress the latch spring for opening the back of the camera while raising the finder hood.

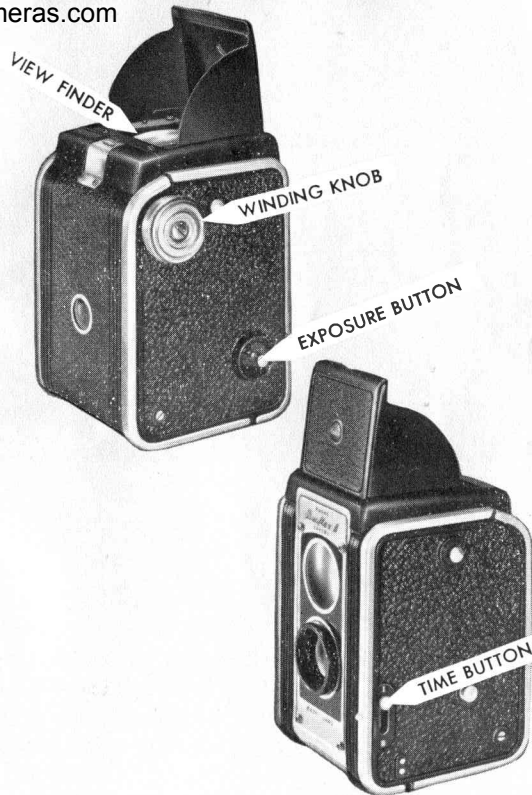
It's Easy to Operate

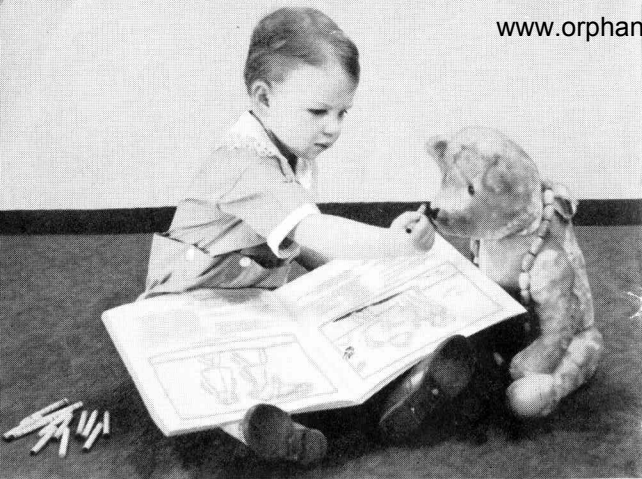
To take any picture, all you do is:

- 1** Set the **TIME BUTTON**.
- 2** Check the **DISTANCE**.
(Keep at least 5 feet from subject.)
- 3** Press the **EXPOSURE BUTTON**.

When you aim your camera at a subject and snap the picture, light reflected from the subject passes through the camera lens to the film and produces an invisible image of the subject on the film.

You *set the time button* to control the type of exposure—"I" (snapshot) or "B" (longer exposures). *Check the distance* to control the sharpness of the image that the light carries to the film—anything 5 feet or farther from the camera is photographed sharply. *Press the exposure button* to allow the light reflected from the subject to record the image on the film.





What Film to Use

SIZE

For best results, load your camera with Kodak No. 620 Roll Film. Each of the films listed on the opposite page gives 12 exposures on a roll. Choose the right type of film for the picture-taking situation at hand.

TYPE

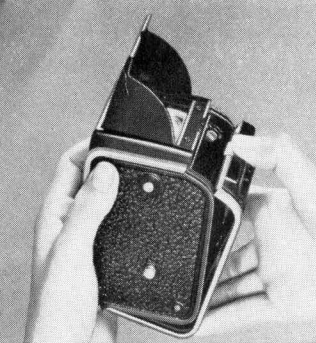
- **For Outdoor Pictures**—In bright or hazy sunlight, use either Kodak Verichrome Film or Kodak Plus-X Film. Both of these films have high speed and excellent exposure latitude.

On dull, cloudy days or when the subject is in the shade, use Kodak Super-XX Film, or use Kodak Verichrome or Kodak Plus-X Film for close-up pictures with flash (see page 16). Don't use Super-XX for pictures in bright sunlight.

- **For Indoor Pictures**—With flash lamps, use either Kodak Verichrome, Kodak Plus-X, or Kodak Super-XX Film (see page 21).

With flood lamps, use Kodak Super-XX Panchromatic Film. This film has extremely high speed, especially under artificial light.

- **For Color Pictures** outdoors in bright sunlight, use Kodacolor Film Daylight Type. For close-up color pictures indoors with flash lamps, use Kodacolor Film Type A. These films yield color negatives from which Kodacolor Prints can be ordered from Kodak dealers.



Note!

Do not break the seal on the roll of film before the roll has been placed on the spool holder—the film may unwind and be fogged.

To Load

- 1** *Press the latch* on the back of the camera and pull the back open.
- 2** *The empty spool* is to be used as the take-up spool on which the exposed film is to be wound. Pull out the **WINDING KNOB** and place the empty spool in the upper recess; then push the **WINDING KNOB** in with a twisting motion.

- 3** *Swing out and hold the pivoted spool holder.* Place the roll of film in the holder so that the pins engage the holes in the film spool. Drop the film and spool holder back into the recess.
- 4** *Break the seal on the roll of film.* Pull the end of the paper, colored side up, across the roller and opening in the back of the camera and thread it

LOAD AND UNLOAD IN SUBDUED LIGHT —NEVER IN STRONG, DIRECT LIGHT

through the longer slot in the take-up spool at the top of the camera *as far as it will go*. Make certain that the *black side* of the paper is toward the *inside* of the camera and the colored side out. Turn the WINDING KNOB to bind the end of the paper securely to the take-up spool; two or three turns will do. *Be sure that the paper is started straight on the take-up spool.*

- 5 **Close the camera back.** Be sure the latch snaps under the lug.
- 6 **Turn the winding knob** until the small hand appears in the window on the back of the camera. Continue turning the WINDING KNOB slowly until the figure 1 is centered in the window. You are now ready for your first picture.



Load the film in subdued light—never in direct sunlight or strong artificial light.

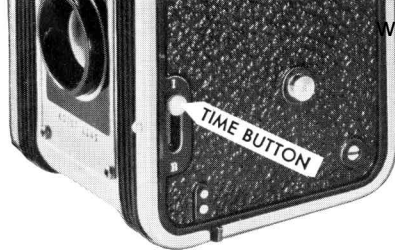


Position is Important

Adjust the length of the neckstrap so that the finder is at the best distance for you.

Hold the camera as illustrated above. With the sun behind your back or over your shoulder, locate the subject in the finder the way you want it to appear in the picture. The subject should be in bright sunlight.

Hold the camera firmly and press the exposure button with a slow squeezing action to guard against camera movement at the moment of exposure.



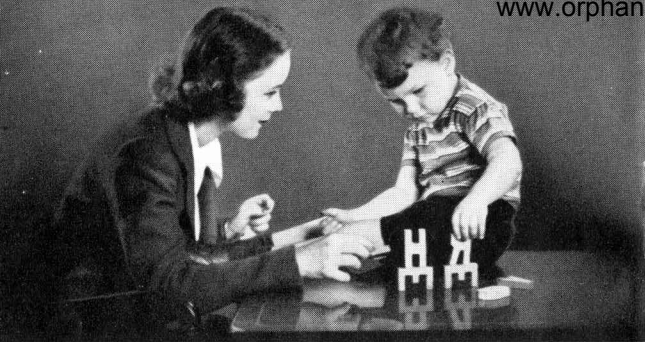
Snapshots

- 1 Set Time Button** on the side of the camera at "I."
Be sure the button is all the way up.
- 2 Look in window** on the back of the camera to make certain the film has been advanced.
- 3 Check the distance**, remembering to keep at least 5 feet from the subject—the Kodak Duaflex II (Kodet Lens) is a fixed-focus camera and only objects 5 feet and beyond photograph sharply.

CAUTION: Although a close-up subject appears sharp in the finder, do not make pictures of subjects closer than 5 feet unless you use a Kodak Close-Up Attachment No. 6A. (See page 26.)



- 4 Hold the camera steady**, and *slowly* press the EXPOSURE BUTTON until it clicks. If no click is heard, the shutter has not been released and no exposure has been made. Any movement of the camera during exposure blurs the picture; therefore, *take a deep breath and hold it as you press the exposure button.*
- 5 Advance the film** to the next exposure number by turning the WINDING KNOB, and you are ready for the next picture. Get into the habit of advancing the film immediately after taking each picture.

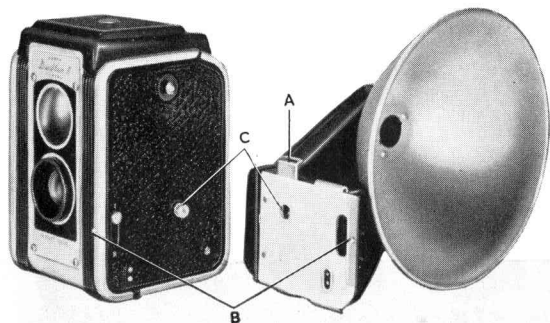


Flash Pictures

Pictures at night, either indoors or out, can be made with the aid of a Kodak Duaflex Flashholder and SM, SF, No. 5, or No. 25 flash lamps. The SM or SF lamp yields a single flash lasting 1/200 of a second. Because of the quick flash, it can even catch a child at play.

With the SM or SF lamp, set the time button at "I." With the No. 5 or No. 25 lamp, set the time button at "B."

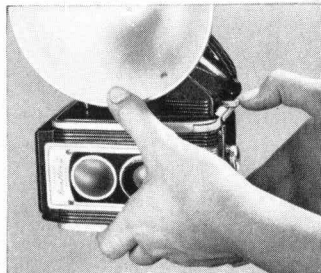
Do not use No. 5 or No. 25 lamps with the time button set at "I."



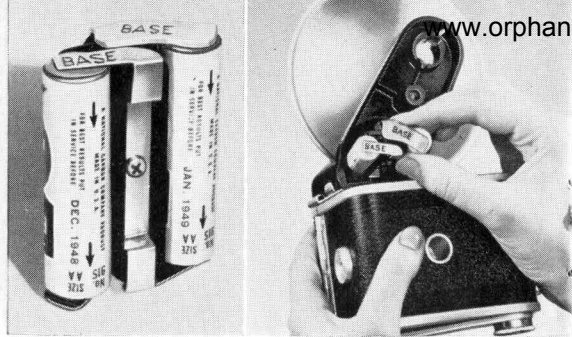
Attach the Flashholder:

CAUTION: Do not attach or remove the flashholder with the bulb inserted.

1. Push the lock slide, A, down.
2. Fit the small hole over the small stud, B.
3. Fit the large hole over the large stud, C.
4. Hold the camera and flashholder as illustrated at the right, pushing down on the reflector with the thumb; then push in the lock slide.



with the SM or SF Lamp at "I"



Install the Batteries:

1. Loosen the slotted screw on the back of the flashholder; then remove the back and take out the adapter.
2. Place two photoflash (or flashlight) penlite batteries in the adapter, *base up*, as illustrated above. Be sure that *both* batteries are *base up*.
3. Now insert the adapter in the flashholder with the batteries *base up*, as illustrated above.
4. Replace the flashholder back and tighten the screw with the fingers.

- **The Time Button** must be in the up position at "I." Insert an SM or SF flash lamp in the reflector socket. Push the lamp straight in without twisting it. Be sure that the lamp contacts are clean and bright.
- **Check the lamp-to-subject distance** according to the table on page 21.
- **Locate the subject** in the finder.
- **Press the Exposure Button** until it clicks. This will open the shutter and flash the lamp.
- **Remove the used lamp** by pushing up the ejector lever on the back of the reflector socket. Do not pull the lamp by force or the socket will be damaged.

Always allow used lamps to cool before handling.

with the No. 5 or No. 25 flash lamp at "B"

The snapshot action of the Kodak Duaflex II Camera does not permit synchronization with the No. 5 or No. 25 lamp. However, these lamps can be used with the time button set at "B."

When a No. 5 or No. 25 lamp is used, make certain that a bright light is not in the camera's field of view. Follow the instructions for the SM and SF lamps but set the time button at "B." Press the exposure button and *release it immediately*. The lamp-to-subject distances for various Kodak Films are given in the table on page 21.

Although Kodacolor Film Type A is recommended for flash pictures, Kodacolor Film Daylight Type may be used with a No. 5B or No. 25B flash lamp.

IMPORTANT—Synchronization of flash pictures requires batteries which deliver at least 3½ amperes when short-circuited. Batteries which have been stored for long periods of time will not be satisfactory.

DISTANCE TABLE in feet**for Flash Lamps**

	Lamp-to-Subject Distance	
	<i>SM or SF Lamp Shutter at "I"</i>	<i>No. 5 or No. 25 Lamp Shutter at "B"</i>
VERICHROME	5 to 8 ft	5 to 14 ft
PLUS-X	5 to 10 ft	6 to 18 ft
SUPER-XX	5 to 14 ft	9 to 25 ft
KODACOLOR TYPE A*	5 ft*	5 to 7 ft*
KODACOLOR DAYLIGHT TYPE*		<i>No. 5B or No. 25B</i> 5 ft*

**Do not use a lamp-to-subject distance greater than that recommended, or underexposed, unprintable negatives will result.*

CAUTION: Since lamps may shatter when flashed, the use of a transparent protective screen, such as the Kodak 2-Way Flashguard, over the reflector is recommended. Do not flash the lamps in an explosive atmosphere.

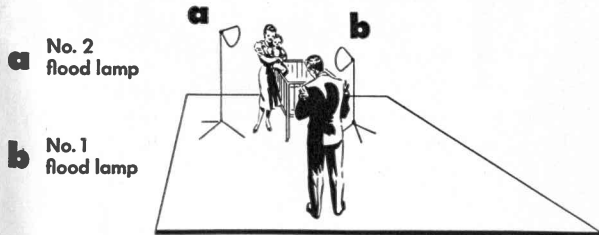
Flood Lamp Pictures

You can also make indoor snapshots with flood lamps and Kodak Super-XX Panchromatic Film. An effective lighting arrangement is shown in the diagram opposite.

Obtain a No. 1 and a No. 2 flood lamp and suitable reflectors for them from your dealer. Both lamps fit all regular home sockets. The No. 2 lamp, which gives twice the light of the No. 1 lamp, should be about 2 feet higher as illustrated.

For best results the subject should be near a light-colored background. With both lamps 3½ feet from the subject, hold the camera at least 5 feet from the subject; then set the time lever at "I," and snap the picture.

CAUTION: Flood lamps become very hot in use. Do not touch the lamps or allow them to come in contact with anything, either while they are in use or before they have cooled after use.



"B" Exposures

When the light is insufficient for a snapshot and flash lamps are not available, use a "B" (longer) exposure.

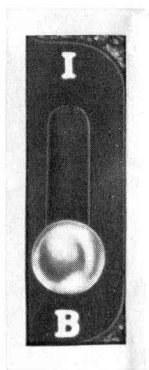
For a "B" exposure, the camera must always be placed on a tripod or other firm support such as a table. Do not place the camera more than two or three inches from the table edge, or the table will show in the picture. Never try to hold the camera in your hands, or the picture will be blurred.

Set the TIME BUTTON at "B" and keep at least 5 feet from the subject.

Press the exposure button in as far as it will go and hold it there; the shutter will remain open until you release the exposure button.

Exterior Views at Night. Striking scenes like the one on the opposite page are possible at night.

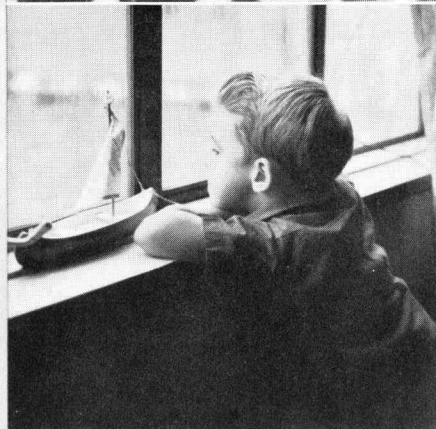
Indoor Portraits Near a Window. To make an indoor portrait by daylight, similar to that shown opposite, have the subject stand or sit diagonally in front of an unshaded window.



For a scene like this, make an exposure of approximately 3 minutes with Kodak Plus-X Film.



Use a sheet or tablecloth to reflect light to the shadow side and make an exposure of approximately 1 second with Kodak Super-XX Film for a picture like this.

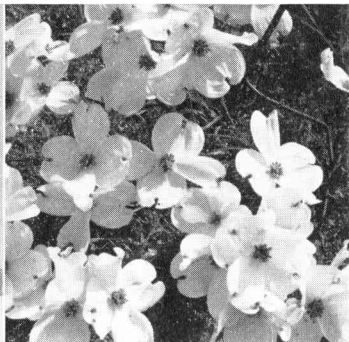
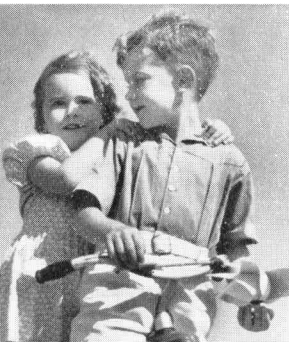




Close-Ups

WITH THE KODAK
CLOSE-UP ATTACHMENT
No. 6A

The Kodak Duaflex II is a fixed-focus camera so that only subjects 5 feet from the camera and beyond are photographed sharply. For pictures closer than 5 feet, such as head and shoulder pictures of people or close-ups of flowers and similar subjects, obtain a Kodak Close-Up Attachment No. 6A. The attachment snaps over the camera lens and *the subject must then be between 3 and 4½ feet from the camera.*



Suggestions

for taking better pictures

- **Make Them Interesting**—They should tell a story at a glance. For natural, unposed effects, give your subject something to do.
- **Check the Background**—Look beyond the subject and exclude distracting and uninteresting objects. You can often use the sky as a background by choosing a low point of view.
- **Hold the Camera Level**—Straight lines in buildings should be parallel to the sides of the view finder to prevent a distorted effect.
- **Moving Objects** can be photographed if the subject's path of travel is toward or away from the camera.
- **Come in Close** for a larger image of your subject—but no closer than 5 feet without a Close-Up Attachment.

Removing the Film

1. Turn the winding knob until the protective paper passes the window and is drawn up to the film spool.

2. Press the latch on the top of the camera and, *in subdued light*, open the camera back.

3. Pull the winding knob out with a clockwise twist. Turn the camera as shown and allow the film to fall just far enough from its recess so that

it may be grasped by the thumb and fingers. Do not allow the film to unwind from the spool or it will be fogged.

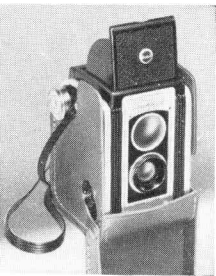
CAUTION: After removing the roll of film, do not twist it tight on the spool, or the film may become scratched.

4. Fold under the end of the protective paper and fasten it with the sticker.

5. Move the empty spool up to the winding knob end



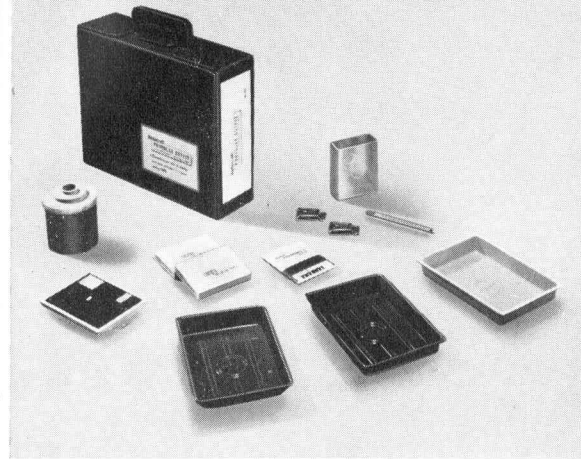
of the camera. Push in the winding knob and turn the knob to make sure it engages the slot in the end of the spool. The camera is now ready to be reloaded as described on pages 10, 11, and 12. Close the camera back, making sure that the latch catches.



Field Case

The Kodak Field Case for Kodak Duaflex Cameras provides the maximum protection for your camera. This case is of the instant-opening type that permits the camera to be ready at a moment's notice. Insert the camera by spreading the sides of the case slightly

so that all knobs and studs on the camera will have ample clearance until the camera is in place; then allow the sides of the case to assume their normal position. The camera will then be held securely in its case by means of the operating parts that protrude through the cutouts in the case.



Kodacraft Photo-Lab Outfit

This outfit contains the basic needs for home developing and printing in one low-cost unit. Instructions for its use are included. Ask your Kodak dealer about this or one of two other Kodacraft kits available for home processing.

EASTMAN KODAK COMPANY • ROCHESTER 4, N. Y.

**with No. 5 or No. 25 flash lamp,
and the shutter set at "B"**

Do not use a No. 5 or No. 25 flash lamp with the shutter set for "I" because the snapshot action of the shutter is too fast to catch the full flash of a No. 5 or a No. 25 lamp. However, these lamps can be used with the time button set at "B." Make certain that a bright light is not in the camera's field of view. Follow the instructions for the SM or SF lamp but set the time button at "B." Press the exposure button and *release it immediately*. The duration of the flash is about 1/50 second and determines the exposure. See the table on page 7.

Although Kodacolor Film Type A is recommended for flash pictures, Kodacolor Film Daylight Type may be used with a No. 5B or No. 25B flash lamp.

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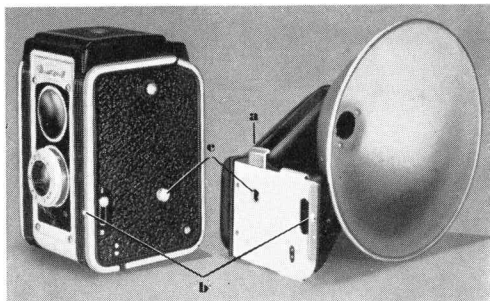
THE KODAK

DUAFLEX

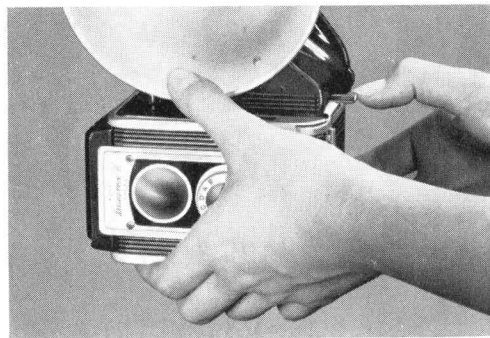
FLASHOLDER

EASTMAN KODAK COMPANY
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1



2



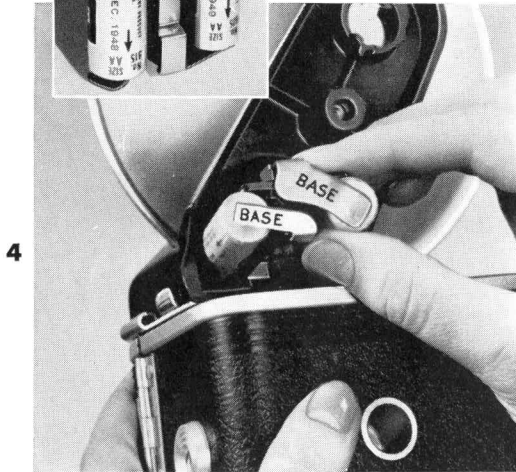
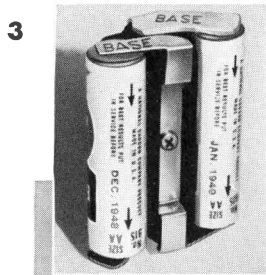
To attach the Flashholder

1. Push down the lock slide, a, figure 1.
2. Fit the small hole over the small stud, b.
3. Fit the large hole over the large stud, c.
4. Hold the camera and Flashholder as illustrated in figure 2, *pushing down on the reflector with the thumb; then push the lock slide up.*

There are no cords or plugs to attach—contacts are made automatically.

THE KODAK 2-CELL ADAPTER

Experience has shown that batteries vary during their life. It may be desirable, therefore, to have more voltage than supplied by a single C cell. For this reason, an adapter to take two pen-lite batteries is being supplied in your Flashholder.



◀ To install the Kodak 2-Cell Adapter

1. Loosen the slotted screw on the back of the Flashholder; then remove the back and take out the adapter.
2. Place two penlite photoflash (or flashlight) batteries in the adapter, *base up*, figure 3. Be sure that both batteries are *base up*—do not reverse them.
3. Now insert the adapter in the Flashholder with the batteries *base up*, figure 4.
4. Replace the Flashholder back and tighten the screw with the fingers.

Synchronization of flash pictures requires penlite batteries which test at least $3\frac{1}{2}$ amperes. Batteries which have been stored for long periods of time will not be satisfactory.

To make FLASH pictures with the Kodak Duaflex Cameras

with SM or SF flashlamps and the shutter set at "I"

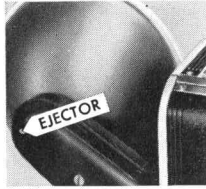
Be sure the Time Button is in the up position—at "I."

Insert an SM or SF lamp in the reflector socket. Push the lamp straight in without twisting it. Be sure that the lamp contacts are clean and bright.

Check the lamp-to-subject distance according to the table and locate the subject in the finder.

With the Kodar Lens Model, set the Focusing Pointer for the camera-to-subject distance.

Press the Exposure Button until it clicks. This will open the shutter and flash the lamp.



Remove the used lamp by pushing up the ejector lever on the back of the reflector socket. Do not pull the lamp out by force, or the socket will be damaged. Always allow used lamps to cool before handling.

DISTANCE TABLE IN FEET FOR FLASH LAMPS

	KODAK LENS		KODAR LENS	
	KODET LENS		KODAR LENS	
	SM or SF Lamp No. 25 Shutter at "I"	No. 5 or No. 25 Lamp Shutter at "B"	SM or SF Lamp Shutter at "I"	No. 5 or No. 25 Lamp Shutter at "B"
VERICHROME	5-8	5-14	f/8	f/16
PLUS-X	5-10	6-18	5-10	5-8
SUPER-XX	5-14	9-25	5-14	5-10
*KODACOLOR TYPE A	5	5-7	6-18	5-14
*KODACOLOR DAYLIGHT TYPE	No. 5B or No. 25B Lamp	5-7	5
	5
			f/8	f/11
			9-25	7-20
			12-35	9-25
			16-45	12-35
			9-13	6-9
			No. 5B or No. 25B Lamp	
			7-10	5-7
				5

*Do not use a lamp-to-subject distance greater than recommended, or underexposed, unprintable negatives will result.

Caution: Since lamps may shatter when flashed, the use of a transparent protective screen over the reflector is recommended. Do not flash the lamps in an explosive atmosphere.