BROWNIE

Flashmite

CAMERA 20
For 12 Black-and-white Snapshots—Standard enlarged black-and-white 3½ x 3½-inch prints are available from your 2¼ x 2¼-inch negatives.

For 12 Color Snapshots—Standard enlarged full-color 3½ x 3½-inch prints can be made from your 2¼ x 2¼-inch color negatives.

For 12 Color Transparencies—Full-color 2¼ x 2¼-inch positive transparencies can be obtained for direct viewing. Standard enlarged 3½ x 3½-inch color prints from these positives can be ordered or...

- When the "super-slide" format in the finder is used to frame the picture, color slides, mounted in 2 x 2-inch cardboard mounts (1½ x 1½-inch opening), can be obtained for projection or for making color prints. See page 9.

Your dealer can arrange for processing, prints or enlargements.

To make sure that you understand your camera, read these instructions. Before any important pictures, shoot a roll of film and take a few flash shots. Your Kodak dealer will be glad to help.
LOAD— 2 The empty spool should be over the WINDING KNOB, in the recess labeled EMPTY SPOOL on the film holder of the camera. Engage the center hole of the spool with the pin of the SPRING, push up against the spring; then press in the lower end of the spool, while turning the winding

1 First, slide the bright metal BUTTON on the bottom of the camera to the end of its slot marked LOAD; then move the lock LEVER as far as it will go toward OPEN. Remove the FILM HOLDER, as illustrated.

Note: If you're practicing with an empty camera and find that the shutter release cannot be pressed down, turn the winding knob on the bottom of the camera to unlock the shutter release.
knob to engage the winding key with the slot in the spool.

3 Hold the spool of film so that the paper will draw over the outside of the roll; then place the film spool in the recess labeled LOAD on the film holder of the camera. Do this by engaging the center hole of the film spool with the pin of the spring. Now press up against the spring and swing in the bottom spool flange in the direction of the arrow so that the lower center hole of the film spool engages the lower PIN. The illustration shows the film spool just before pressing in the bottom flange to engage the lower pin.
4 Break the film seal; then draw the paper, colored side out, over the side of the film holder marked FILM THIS SIDE. Thread the end of the paper fully into the longer slot of the empty spool. Turn the winding knob two full turns to make sure the paper is straight and tight. To make sure the paper is tight, apply pressure on the paper while winding the two turns.

5 Replace the film holder—make sure that it is all the way in. Move the locking lever as far as it will go toward LOCK.

6 Uncover the red window on the back of the camera by raising the slide by its exposed tab.
(under thumb in illustration) as far as it will go, in the direction of the arrow. Turn the winding knob* until warning arrows appear in the window; then continue turning slowly until the pair of "1's" is centered in the window. (The film name precedes each of the 12 numbers.) Lower slide to cover window.

7 Now slide the bright metal button, on the bottom of the camera, to the end of its slot (marked EXP. 1-12). This engages the automatic film stop mechanism so that it will not be necessary to consult the red window to center succeeding exposures—merely turn the winding knob to a stop—do not force. The slide can be raised, of course, to see how many exposures have been made. Then lower the slide to protect the film.

Note: When winding film, grasp the camera so that your hand does not smudge either lens. Keep the lens clean at all times. Use Kodak Lens Cleaning Paper or a soft, lintless cloth.

*Warning: If the winding knob locks during this operation, the bright metal button on the bottom of the camera has not been moved to LOAD.
OUTDOOR SNAPSHOTS

The best outdoor color snapshots are made in sunlight. Kodak Verichrome Pan Film can be used on sunny, hazy or cloudy-bright days. The sun should be behind you.

1. Set the LENS OPENING LEVER by moving it to the proper exposure value number. Make sure that the lever “click-stops” at one of the three numbers, not between them.
   - Set the lever at COLOR 13 for color films exposed in bright sun.
   - Set the lever at B & W 14 for Kodak Verichrome Pan Film exposed in sunlight with average surroundings.
   - Set the lever at 15 for Kodak Verichrome Pan Film exposed in bright sun on sand or snow.

2. Focus the camera by revolving the FOCUSING MOUNT until the white dot of the zone which
represents the camera-to-subject distance "click-stops" opposite the FOCUSING INDEX.

3 Compose the picture in the full eye-level finder located on the back of the camera, at the top, left side. Place your eye close to the finder so that all four outer corners of the front finder frame are visible.

4 Hold the camera steady while slowly pressing the SHUTTER RELEASE all the way down. A silver band will appear behind the lens to indicate that the film should be advanced. Advance the film.

NOTE: The shutter release remains locked after it is tripped until the winding knob is turned. This feature prevents accidental double exposures.

Pictures for Super-Slide Mounting

Only when taking Ektachrome pictures for mounting in 2 x 2-inch mounts (Super Slides), compose the picture you want within the four corner markers outlining the center area of the finder (Shown within dotted lines, below). Use full area of finder for all other pictures.

Important: All 12 transparencies on a roll of film must be composed for super-slides. Indicate super-slide mounting on processing instructions.
Flash snapshots are just as easy as outdoor snapshots. Just insert an AG-1 lamp, focus, aim, and shoot. To make color slides indoors use Kodak Ektachrome Film Type F and clear flash lamps. With Kodak Verichrome Pan or Kodacolor Films use clear lamps.

1. Two fresh 1½-volt photoflash penlite BATTERIES are required. To install batteries, insert the thumb tip in the small cutout in the center of the top rear edge of the camera and lift up and remove the cover plate. Make sure that battery and camera contacts are clean; then insert the batteries, both bases toward the shutter release side of the camera, between the contacts as illustrated. Replace the cover by inserting the two cover prongs in their slots toward the front of the camera and pressing down the rear edge until it snaps into place.

   Note: Used batteries may be easily removed after pressing down on one end of the battery to raise the opposite end.

2. Push the lamp straight into the reflector socket until it “clicks”.

3. The setting of the lens-opening lever and the distance from
the camera to the subject are very important. Keep within the distances listed for the films in the table below or on the top cover plate, and adjust the lens opening lever and focusing mount accordingly. (The distance ranges in the flash table overlap a single distance zone on the camera in some instances. Make sure that the focusing mount is adjusted to include the camera-to-subject distance.)

4 Compose the picture in the finder. If you are taking pictures on Ektachrome Film for slide mounting, use the “superslide” format (page 9).

5 Slowly press the shutter release to take the picture.

6 Pull back the LAMP EJECTOR to eject the used lamp.

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**INDOOR FLASH EXPOSURE TABLE**

<table>
<thead>
<tr>
<th>KODAK FILM</th>
<th>LENS OPENING</th>
<th>CAMERA-TO-SUBJECT DISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verichrome Pan</td>
<td>14</td>
<td>5-14 feet</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>4-8 feet</td>
</tr>
<tr>
<td>Kodacolor or Ektachrome F</td>
<td>13</td>
<td>5-8 feet</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>4-5 feet</td>
</tr>
</tbody>
</table>

Although the camera is marked COLOR 13 and B & W 14, flash pictures can be made at the 14 setting with color films for shorter distances.

*Note:* Since lamps may shatter when flashed, use of a transparent flashguard is recommended. Never flash lamps in an explosive atmosphere.
You'll take better snapshots if you avoid these three common mistakes pictured below. Keep these in mind.

1 **CAMERA MOVEMENT**, during the exposure, results in a blurred picture. Hold the camera steady and press the shutter release with a slow, steady motion.

2 If you want to avoid pictures with a foggy effect, don’t make pictures with a **DIRTY LENS**. Clean your lens with Kodak Lens Cleaning Paper.

3 If your finger or the neck strap is in front of the lens, you’ll get a picture similar to this.
UNLOAD—Never in bright or direct light

1. After the 12th snapshot, first slide the bright metal BUTTON, on the bottom of the camera, to the end of its slot marked LOAD.

2. Turn the winding knob* until the end of the paper has passed the red window and is completely wound on the spool.

3. Move the lock LEVER as far as it will go toward OPEN and remove the film holder.

4. Grasp the spool of film, press toward the spring end and remove the film. Fold under the end of the protective paper and fasten it with the sticker.

5. Move the empty spool to the winding knob end of the camera so that it is ready for reloading.

*If the winding knob locks, the BUTTON is not at LOAD, as directed in step 1.

Important: Do not leave exposed film in bright light. Have film processed as soon as possible.
PHOTO AIDS

• "How to Make Good Pictures" is perhaps the most famous and popular picture-taking book of all time. See your Kodak dealer for this and other publications.

• The Kodak Close-up Attachment No. 7A is slipped over the lens for close-ups of people, flowers, etc. To make pictures, set the focusing mount at the CLOSE-UP dot; the lens-to-subject distance must be 2 1/2 to 3 1/2 feet.

• The Kodak Cloud Filter 7A captures fluffy clouds by making the blue sky appear darker. Use it with Kodak Verichrome Pan Film—never with Kodak color films.

• The Kodak 500 Projector, Model B shows you the full beauty of your slides brilliantly projected onto a screen.

• The Brownie 20 Carrying Case will protect your camera.

See your photo dealer for these and other photo aids.
DETAILS

FILM
- Negative Size—2¼ x 2¼ inches
- Film Load—Kodak 620; 12 exposures
- Film Advance—Film metering provided after visually setting to first exposure

LENS
- Lens Openings—E.V. 13 for color films, E.V. 14 and 15 for black-and-white film (Verichrome Pan Film)
- Focusing—"CLOSE-UPS" 4-6 ft., "GROUPS" 6-12 ft., and "SCENES" 12 ft. to infinity

SHUTTER
- Instantaneous with double-exposure prevention

FINDER
- Eye-level optical finder. Provides "super-slide" format for 2 x 2-inch slides from Kodak Ektachrome Film

NECK STRAP
- Adjustable, supplied with camera

FLASH
- Built-in: Uses AG-1 lamps

CONSTRUCTION
- Durable, molded two-piece body. Aluminum finished trim and reflector
GUARANTEE

Within a year after purchase, any repairs necessary to this Brownie Camera due to a defect in materials or workmanship will be made or, at our option, the camera will be replaced without charge. No other warranty or guarantee, express or implied, shall be applicable to this equipment. Nor are we responsible for loss of film, for other expenses or inconveniences, or for any consequential damages occasioned by the equipment.

In case of unsatisfactory operation, the camera should be sent directly or through a Kodak dealer to Eastman Kodak Company or a repair firm authorized by us to make such repairs. It should be accompanied by a description of the trouble encountered and other available information regarding the camera, including the date and place of purchase.

EASTMAN KODAK COMPANY, Rochester, New York