Congratulations! You've just joined millions of Kodak camera owners who have fun taking pictures. At Kodak, we know how important your pictures are to you. To help make them the best possible pictures, we hope that you'll read this manual thoroughly.

With your new camera, you enter the exciting world of existing-light photography. In very low light, the electronic shutter automatically times each exposure. When taking pictures in low-light levels, an amber light will appear in the viewfinder as you press the shutter release. This indicates an exposure too long for you to hold the camera in your hand. For these exposures, follow the instructions on pages 9-12 and you can take pictures with this without flash.

Chances are you've never used a camera with an electronic shutter before, so be sure to follow the instructions carefully. If you don't, your pictures will be blurred.

If you feel that you need help or advice on using your camera, please write to our staff of photographic experts at Eastman Kodak Company, Photo Information, Dept. 841, 343 State Street, Rochester, New York 14650. (Should your camera ever require service, the warranty and instructions for obtaining service are printed at the back of this manual.)
to use your camera, simply do this...

1. Insert film cartridge to load camera (page 4). (Note EXPOSURE-CORRECT BATTERY—check instructions on page 21.) Close back cover.

2. Press SHUTTER RELEASE once before advancing film. Then push FILM ADVANCE repeatedly until first exposure locks in place (page 5).

3. Set camera-to-subject distance (page 7).

4. Aim through eye-level viewfinder for bright, clear image of your subject (page 6). Hold camera steady, slowly depress shutter release—if amber indicator light appears in finder, place camera on firm support (page 13) or insert magicube. Smoothly depress shutter release to take picture.

...read on for important instructions.

NEVER FORCE ANY CAMERA OPERATION; CHECK INSTRUCTIONS FOR OPERATION.
Your camera takes all three—
1. Black-and-white prints
2. Color prints
3. Color slides

Before you take any especially important pictures, try a cartridge of film to check the camera and your operation of it. Expose pictures outdoors and also indoors with flash. If time is pressing, a cartridge of black-and-white film can be processed very quickly.

### Kodak Films

Your camera uses film in the 110 cartridge for instant loading and unloading. Select a film for the type of picture you want.

<table>
<thead>
<tr>
<th>Type of Picture</th>
<th>Kodak Film</th>
<th>Produces</th>
<th>No. of Exposures</th>
<th>Processing</th>
<th>Kodak Mailer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black-and-White Prints</td>
<td>Verichrome Pan</td>
<td>3½ x 4¼-inch black-and-white prints or enlargements</td>
<td>12</td>
<td>Order from dealer</td>
<td>None</td>
</tr>
<tr>
<td>Color Prints</td>
<td>Kodacolor II</td>
<td>3½ x 4¼-inch color prints or 5 x 3-inch color enlargements</td>
<td>12</td>
<td>Order from dealer or purchase Kodak Prepaid Processing Mailer (number shown at right) from dealer</td>
<td>DP12 DP20-3R</td>
</tr>
<tr>
<td>Color Slides</td>
<td>Kodachrome X</td>
<td>Color slides mounted in 30mm x 30mm plastic mounts (by Kodak) for projection*</td>
<td>20</td>
<td></td>
<td>PK20</td>
</tr>
<tr>
<td></td>
<td>Ektachrome X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Duplicate slides or color prints available from original slides.

**Color films processed and mailed to address you specify.**

**DO NOT USE FILM WITH A SPEED HIGHER THAN ASA 125.**
1 Open hinged back cover by depressing the LATCH and lowering the cover.

2 After removing the 110 cartridge from its box and protective wrapping, insert the cartridge into the camera as shown. Close the cover by pressing it against the camera body until it locks. (The film name and number of exposures appear in the WINDOW in the cover.)

3 Press SHUTTER RELEASE once. Then push the FILM ADVANCE repeatedly with your right thumb until the advance locks (about 8 full strokes). You will see arrows in the window as you advance the film. The number that you see serves as an exposure counter.

IMPORTANT: Always operate the film advance until it locks, or you cannot depress the shutter release.

A removable WRIST STRAP, provided for your carrying convenience, is furnished with the camera. Attach the strap to the WRIST-STRAP CLIP. (Keep the wrist strap behind the front edge of the camera, especially when you take vertical pictures.)
viewfinder

A bright, eye-level, optical viewfinder provides an easy-to-view image of your subject. The image seen within the LUMINOUS FRAME will appear in your picture.

In the center of the viewfinder you will see a circular spot with two images of your subject. When these two images are aligned, the camera lens is correctly focused (see page 7).

Warning lights for used bulbs and extended exposures may appear in the viewfinder as you press the shutter release.

focusing camera

For the sharpest pictures, you will need to set (focus) the camera lens for the camera-to-subject distance. There are two ways of focusing your camera—rangefinder focusing and scale focusing. For close-up pictures (especially with flash or in low-light levels), you must focus the camera carefully.

Rangefinder focusing—Look at your subject through the viewfinder. In the center of the finder you will see a circular area with two images of your subject. Move the FOCUS SLIDE until the two images are aligned to achieve correct focus.
ages coincide; you have set the lens correctly for that distance.

**Scale focusing**—Estimate the camera-to-subject distance; then move the **FOCUS SLIDE** until the red pointer is opposite the estimated distance. (You can use either the footage scale or the metric scale.)

**shutter release**

To prevent accidentally releasing the shutter and losing an exposure, lock the **SHUTTER RELEASE** of your camera by pushing lightly against the side of the release to slide it toward the camera name.

A **CABLE-RELEASE SOCKET** is provided for smoothly releasing the shutter when the camera is on a firm support for long exposures (page 12). The mark (≈) alongside the shutter release and above the viewfinder indicates the film plane within the camera.

**automatically timed exposures... in any light**

Your camera's electronic shutter and lens opening are set automatically by the light existing in a scene. The shutter speed ranges from 1/250 second to 10 seconds or longer (lower light levels require longer exposures). The camera's amber indicator light (FLASH OR TIME) comes on as you press the shutter release when the exposure will be longer than 1/30 second (the light remains on during exposure). When the indicator light comes on, you have a choice—1) insert a magicube (page 14) and take a flash picture, or 2) place the camera on a tripod or other firm support for a long exposure (page 11).

While taking pictures, don't cover the ELECTRIC EYE, and don't point the camera directly toward the sun or other unusually bright light source. Otherwise, exposures will be incorrect.

When taking pictures outdoors in bright sunlight, the shutter speed will usually be fast enough to stop motion (for example, people walking or children playing).
The bright sunlight will also cause the automatic exposure control to set the lens to a small opening. The small opening produces a large range of sharpness in your pictures.

Store camera and film away from heat and direct sunlight—never in glove compartment, on rear-window shelf, or other “hot-spot” in a car.

**taking the picture**

- Unlock the shutter release.
- Set the focus slide for the correct camera-to-subject distance.
- Bring the rear opening of the viewfinder close enough to your eye to see all four sides of the LUMINOUS FRAME in the finder. Then frame your subject (within the luminous frame) the way you want it to appear in your picture. With the rectangular 110-film format, compose your pictures either horizontally or vertically by holding the camera as shown here (keep both hands and the wrist strap behind the front edge of the camera).
- Hold the camera steady and partially depress the shutter release (the indicator light may come on momentarily as the electric eye adjusts for the lighting condition). If the amber indicator light does not come on and remain on, smoothly press the shutter release all the way down to take the picture.

**IMPORTANT:** If the amber indicator light (FLASH OR TIME) comes on and remains on, place your camera on a tripod, a solid flat
support such as a table or wall (keep the camera near the edge so the support won’t appear in your picture), or the optional KODAK Compact Camera Stand (with cable release). Install a cable release in the CABLE-RELEASE SOCKET. Then hold the camera firmly on its support, press and hold the cable release (or shutter release) until the indicator light goes out. Any camera or subject movement during exposure will cause blurred pictures.

**IMPORTANT:** Do not hold your finger on the shutter release while you advance the film.

- Push the film advance with your right thumb until it locks (1 1/2 strokes). To be ready for the next picture, hold the camera at eye level while you advance the film.

Your vacation pictures will be more interesting if you include close-up pictures of people. Take them as close to the subject as 3 feet.
flash pictures

Your camera features easy, rapid, flash picture-taking with the self-powered magicube. As you advance the film, the cube rotates counterclockwise to bring one of its four bulbs into firing position.

When you make flash pictures, the camera-to-subject distance must be between 4 and 30 feet with all the films listed on page 3.

1 Insert magicube—Insert a cube into the socket on top of the camera; then press down on the cube until it snap-locks in place. (If a used bulb faces forward, rotate the cube until a fresh bulb faces forward.) To remove a cube, simply lift it off the camera.

2 Set focus slide—The camera-to-subject distance must be set correctly for proper flash exposure. If you are closer than 4 feet, your subject will appear very light (overexposed) in the picture; farther than 30 feet, your subject will appear dark in the picture. If you do not set the focus slide correctly, your pictures will not be sharp or correctly exposed.

3 Take the picture—View your subject by bringing the rear opening of the viewfinder close enough to your eye to see all four sides of the luminous frame in the finder. Then frame your subject the way you want it to appear in your picture. Hold the camera steady and slowly press the shutter release to flash the bulb and take the picture (the red indicator light—used bulb—will appear in the finder as the bulb flashes). Then advance
the film to the next exposure (the magicube will rotate automatically to bring another bulb into firing position).

NOTE: Disregard the amber indicator light when taking flash pictures. With a magicube in the socket, the shutter speed is set automatically for flash and no extended exposures will occur.

Used-Bulb Warning—When a used bulb faces forward, a red indicator light will appear in the viewfinder as you press the shutter release. To observe this signal, it is very important that you press the shutter release very slowly.

Fill-In Flash—When you take pictures outdoors, shadows may appear on the faces of your subjects in some lighting conditions. To help lighten these shadows, place a magicube on the camera, set the focus slide (4 to 30 feet), and then take the picture.

NOTE: Under some circumstances, your subjects' eyes may appear red in flash pictures. To minimize this, turn up the room lights, have subjects look slightly away from flash, and insert the optional Kodak Magicube Extender (see page 22) into the cube socket.

This raises the cube to minimize the red reflections, and also produces pleasing shadow effects in your flash pictures.

unloading camera

When you have taken the last picture on a cartridge, operate the film advance (about 6 full strokes) until you feel a stiff resistance on the advance. Do Not Force the Advance Any Farther. (Backing paper will still be visible in the camera window.) Open the camera cover and remove the cartridge. Do Not Open the Cartridge or Your Pictures Will Be Ruined.

NOTE: Removing and replacing partially exposed cartridges, even under darkroom conditions, will result in the loss of at least one exposure.
film processing

For best results, have your exposed film processed as soon as possible. Have your photo dealer arrange for processing (by Kodak or other laboratory) or purchase the appropriate Kodak Prepaid Processing Mailer from your dealer (see chart on page 3).

Standard color prints from KODACOLOR II Film are 3 1/2 x 4 1/2 inches, with the frame number and processing date photographically printed in the margin. Kodak Processing Laboratories will return KODACOLOR II Nega-
tives (strips of 4) in a protective sleeve with an attached form for ordering extra prints or 5 x 7-inch enlargements.

Slides from KODACHROME-X and EKTACHROME-X Films are returned from Kodak Processing Laboratories in a protective wallet. Each slide is mounted in a 30mm x 30mm plastic mount, with frame numbers visible in an opening in the mount. Two "sticks" (plastic holders) hold ten slides each for storage or viewing. Duplicate slides and color prints are available from your original color slides.

For best results, project your slides with a Kodak Pocket Carousel Projector (120 slides per tray). You can also use a Kodak Carousel Projector if you insert each 110 slide in a Kodak 2 x 2 Adapter for 110 Slides.

camera care

With proper care and handling, your camera will provide years of enjoyment. Clean the viewfinder lenses and the protective glass in front of the picture-taking lens when necessary by blowing away any dust or dirt. Then breathe on the surfaces and wipe them gently with a soft, clean, lintless cloth (or use Kodak Lens Cleaning Paper moistened with Kodak Lens Cleaner).
exposure-control battery

To power the camera's indicator lights and automatic exposure-control system, a size K battery is supplied installed in your camera. Replace the battery after about a year of use (mark the date on a new battery when you install it).

cleaning battery

1. Open the back cover of the camera.
2. Push the battery down and toward the center of the camera to free it from its retainer; remove the battery. Clean the contact surfaces of the battery with a rough cloth. Reinstall the battery, using the diagram on the cover as a guide.

checking battery

Before you insert a cartridge of film, check the battery condition.

1. Push the film advance as far as it will go and allow it to return.
2. Cover the electric eye with your hand; then point the camera away from any bright light source.
3. Look at the shutter while you depress and hold the shutter release for about 4 seconds. If the battery is good, the lens diaphragm (opening) will open fully and the shutter will open and remain open until you remove your finger from the release. If the battery is weak or dead, the lens diaphragm will open slowly or not at all, and the shutter will open and close immediately (1/250 second); install a new battery.

serial number

A serial number is stamped on the bottom of your camera near the film advance. Make a note of this number for your records.
photo aids . . . see your photo dealer

KODAK Pocket INSTAMATIC Camera Case,
Model B— A convenient way to carry your camera. Attach to your belt, or use camera’s wrist strap to carry camera.

KODAK Compact Camera Stand (with cable release)— The stand screws into the camera’s tripod socket to hold the camera firmly during long exposures. A cable release (supplied) stores in the base of the stand.

KODAK Magicube Extender— Increases separation between magicube and camera lens to reduce red reflections from subjects’ eyes. Often produces more pleasing shadow effects to enhance your flash pictures.

KODAK Pocket CAROUSEL Projectors— Show your 110-size color slides big, bright, and sharp on the screen. Up to 120 slides can be stored in a single Pocket CAROUSEL 120 Slide Tray.

KODAK 2 x 2 Adapter for 110 Slides— Adapts your slides for showing with projectors accepting 2 x 2-inch slide mounts, such as the KODAK CAROUSEL Projectors. Use one adapter for each slide.
KODAK Publications

To help you take pictures you and your friends will enjoy seeing over and over again, Kodak publishes many fascinating idea books. The keys to snapshot fun and success are found in Picture the Fun with Your KODAK INSTAMATIC® Camera, AC-1 ($ .75). The fundamentals of still photography for the amateur are found in How to Make Good Pictures, AW-1 ($1.50). Your photo dealer will be glad to show you these and other inexpensive books on photography.

If your dealer cannot supply these books, order by title and code number directly from Eastman Kodak Company, Dept. 454, Rochester, New York 14650. Please send the amount for the book and include applicable state and local taxes. (Prices subject to change without notice.)

technical details

Film Size—110 cartridge; 12 or 20 exposures producing 13 x 17 mm negatives or transparencies.

Film Advance—Two-stroke thumb advance on bottom of camera.

Rangefinder—Coupled to lens; double image visible within spot in center of viewfinder.

Lens—26 mm, four-element f/2.7 Ektar Lens; continuous unit focus—3 feet to infinity on footage scale, 0.9 meters to infinity on metric scale.

Shutter—Electronic (1/250 second to 10 seconds or longer); battery-powered (size K); cable-release socket; shutter-release lock.

Flash—Self-powered magicubes; cube rotates as film advances; automatic exposure control for flash distances—4 to 30 feet.

Viewfinder—Projected-frame; red indicator light for used bulb; amber indicator light for exposures longer than 1/30 second (use firm support).

Construction—Plastic with metal panels; tripod socket; clip for wrist strap.
helpful hints for better pictures

Taking pictures with your camera is fun and easy. We believe you'll be happy with the many fine pictures you take with it. If occasionally one of your pictures isn't all that you expected, refer to the chart below. When you know what went wrong, you can make sure that it won't happen again.

<table>
<thead>
<tr>
<th>What Happened</th>
<th>Probable Cause</th>
<th>Correction</th>
</tr>
</thead>
<tbody>
<tr>
<td>No picture or partial picture</td>
<td>a) Dead battery.</td>
<td>a) Subject too far from flash.</td>
</tr>
<tr>
<td></td>
<td>b) Hand, fingers, or wrist strap in front of lens.</td>
<td>b) Weak or dead battery.</td>
</tr>
<tr>
<td></td>
<td>c) Camera support obstructed lens.</td>
<td>c) Incorrect focus setting.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>a) Subject must be no farther than 30 feet from flash (page 15). DO NOT WASTE FILM ON GREATER DISTANCES.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Check battery (page 21).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) Set focus slide for correct distance (page 7).</td>
</tr>
<tr>
<td>Daylight pictures too dark</td>
<td>a) Week or dead battery.</td>
<td>a) Subject too close to flash.</td>
</tr>
<tr>
<td></td>
<td>b) Battery needs cleaning.</td>
<td>b) Incorrect focus setting.</td>
</tr>
<tr>
<td></td>
<td>c) Shutter release not held down until indicator light went out.</td>
<td>a) Subject must be at least 4 feet from flash (page 15).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Set focus slide for correct distance (page 7).</td>
</tr>
<tr>
<td>Daylight pictures too light</td>
<td>a) Electric eye obstructed during picture-taking.</td>
<td>a) Camera movement.</td>
</tr>
<tr>
<td></td>
<td>b) Weak battery.</td>
<td>b) Subject movement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) Incorrect focus setting.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>a) Hold camera steady; press shutter release slowly.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Subject should be stationary or moving very slowly.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) Set focus slide for correct distance (page 7).</td>
</tr>
<tr>
<td>Red reflections in subject's</td>
<td>a) Subject looked directly at flash.</td>
<td>a) Subject must be immediately in front of flash.</td>
</tr>
<tr>
<td>eyes</td>
<td></td>
<td>b) Camera movement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) Incorrect focus setting.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>a) Hold camera steady; press shutter release slowly.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Subject should be stationary or moving very slowly.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) Set focus slide for correct distance (page 7).</td>
</tr>
<tr>
<td>Pictures blurred</td>
<td></td>
<td>a) Camera movement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Subject movement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) Incorrect focus setting.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>a) Hold camera steady; press shutter release slowly.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Subject should be stationary or moving very slowly.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) Set focus slide for correct distance (page 7).</td>
</tr>
<tr>
<td>Foggy, misty pictures</td>
<td>Dirty camera lens.</td>
<td>Clean glass lens cover (page 19).</td>
</tr>
<tr>
<td>Subject not centered</td>
<td>Improper use of finder.</td>
<td>View subject within luminous frame of viewfinder (page 10).</td>
</tr>
<tr>
<td>or partly cut off</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
service facilities

If your Kodak camera should require service, complete facilities are provided in Rochester and at Kodak Regional Marketing and Distribution Centers. Also, service covered under the warranty is available through independent service shops in many cities. For such local warranty-covered service, please see your photo dealer or refer to the yellow pages of your telephone directory under Photographic Equipment and Supplies—Retail (Kodak Factory-Approved Warranty Service).

Eastman Kodak Company, Central Equipment Service Center, 800 Lee Road, Rochester, New York 14650

Eastman Kodak Company, Regional Equipment Service Center, 1861, West 22nd Street, Oak Brook, Illinois 60521

Eastman Kodak Company, Regional Equipment Service Center, 2800 Forest Lane, Dallas, Texas 75234

Eastman Kodak Company, Regional Equipment Service Center, 5315 Peachtree Industrial Blvd., Chamblee, Georgia 30341

Eastman Kodak Company, Regional Equipment Service Center, 9100 Alcosta Blvd., San Ramon, California 94583

Eastman Kodak Company, Regional Equipment Service Center, 1334 York Avenue, New York, New York 10021

Eastman Kodak Company, Regional Equipment Service Center, 12100 River Road, Whittier, California 90606

Eastman Kodak Company, Regional Equipment Service Center, P.O. Box 1260, Honolulu, Hawaii 96827

warranty

Within a year after purchase, any repairs necessary to this KODAK INSTAMATIC Camera due to a manufacturing defect will be made, or at our option, the camera will be replaced without charge. No other warranty, 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 a manufacturing defect, the camera should be sent through your photo dealer or directly 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.