

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.

EASTMAN KODAK COMPANY

Consumer Markets Division • Rochester, New York 14650

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Pt. No. 636120
10-71-AGE

Printed in the United States of America



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 any light, the electronic shutter *automatically* times each exposure. When taking pictures in low-light levels, a red 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 8-10 and you can take pictures like 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.

THIS

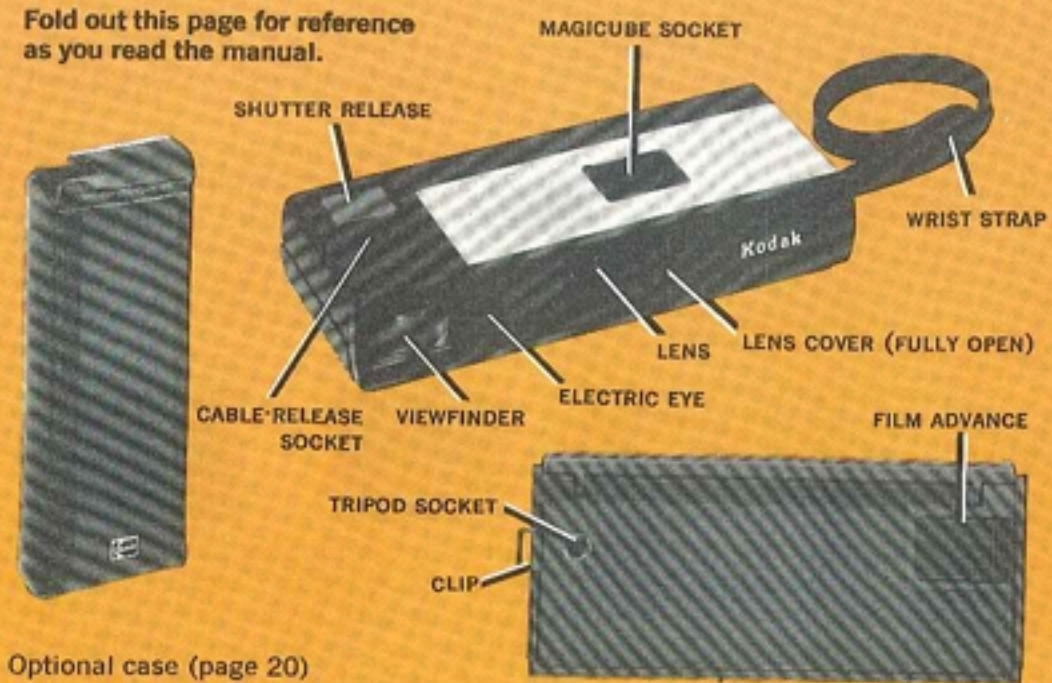


NOT THIS



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.)

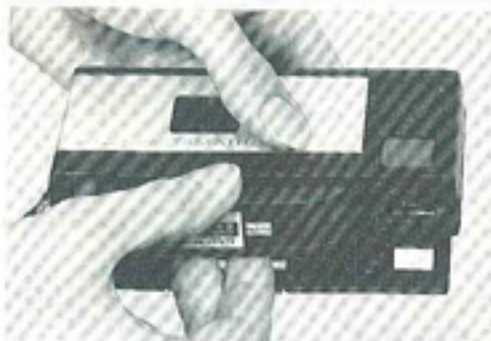
Fold out this page for reference as you read the manual.



Optional case (page 20)

Equipment subject to minor appearance changes.

to use your camera, simply do this . . .



1 Insert film cartridge to load camera (page 4). (Note EXPOSURE-CONTROL BATTERY—battery-check instructions on page 18.) 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 With built-in lens cover opened (page 6), aim through eye-level viewfinder for bright, clear image of your subject (page 9).

NEVER FORCE ANY CAMERA OPERATION; CHECK INSTRUCTIONS FOR OPERATION.

. . . read on for important instructions



4 Hold camera steady and *slowly* depress shutter release—if red indicator light in viewfinder comes on, *place camera on firm support* (page 10) or insert magicube. Smoothly depress shutter release to take picture.



1

Your camera takes all three—

- 1 Black-and-white prints
- 2 Color prints
- 3 Color slides

2

3

Kodachrome
TRANSPARENCY



PROCESSED
BY KODAK



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.

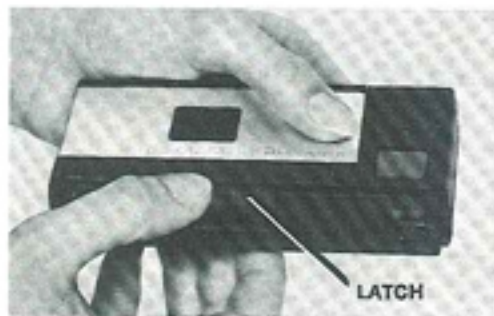
Kodak films

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

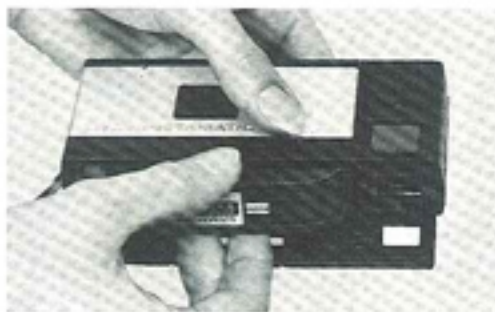
Type of Picture	KODAK Film	Produces	No. of Exposures	Processing	KODAK Mailer
Black-and-White Prints	VERICHROME Pan	3½ x 4½-inch black-and-white prints or enlargements	12	Order from dealer	None
Color Prints	KODACOLOR II	3½ x 4½-inch color prints or 5 x 7-inch color enlargements	12	Order from dealer or	DP12
			20		DP20-3R
Color Slides	KODACHROME-X	Color slides mounted in 30mm x 30mm plastic mounts (by Kodak) for projection*	20	purchase KODAK Prepaid Processing Mailer (number shown at right) from dealer†	PK20
	EKTACHROME-X		20		

*Duplicate slides or color prints available from original slides.
†Color films processed and mailed to address you specify.

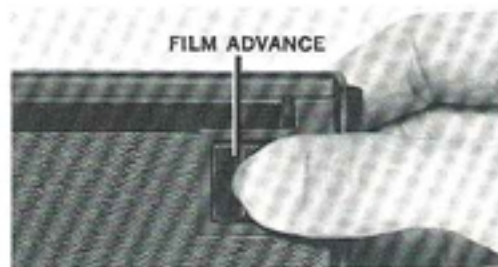
loading camera



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.)

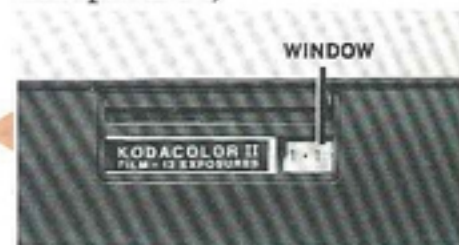


3 Press **SHUTTER RELEASE** once. Then push the **FILM ADVANCE** repeatedly with your right thumb until the advance locks (about 8 full strokes). You will see arrows in the window as you advance the film. The number that you see serves as an exposure counter.

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

wrist strap

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.)





LENS COVER (CLOSED)



WARNING FLAG

VIEWFINDER



LENS COVER (FULLY OPEN)

built-in lens cover

Your camera has a built-in, sliding LENS COVER to protect the lens. Whenever the lens cover is not completely open, a WARNING FLAG appears in the VIEWFINDER.

To open the lens cover, slide it away from the viewfinder.

IMPORTANT: If the warning flag appears in the viewfinder **before** you press the shutter release, the lens cover is not completely open.

Slide the lens cover toward the viewfinder to protect the lens

when you are not using your camera.

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.

double-exposure prevention

You never lose a picture by double exposing a frame. After taking a picture, you must operate the film advance until it locks, or you cannot take another picture.



Your vacation pictures will be more interesting if you include close-up pictures of people. Take them as close to the subject as 5 feet.

NOTE: The color films listed on page 3 are intended primarily for daylight or blue-flash illumination. Pictures taken by tungsten light may appear orange; pictures by fluorescent light may appear green.

automatically timed exposures—in any light

Your camera's electronic shutter is set automatically by the amount of light existing in a scene. The shutter speed ranges from 1/180 second to 10 seconds or longer (lower light levels require longer exposure times). The camera's indicator light comes on when the exposure is 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 12), or 2) place the camera on a tri-

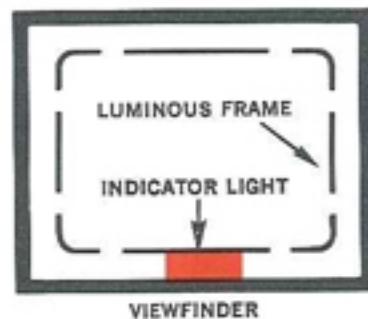
pod or other firm support for a long exposure (page 10).

To get well-exposed 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.



taking the picture

- Keep at least 5 feet from your subject for sharp pictures.
- 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 horizontally or vertically by holding the camera as shown on page 10 (keep your hands *behind* the front edge of the camera).

- Hold the camera steady and *slowly* depress the **SHUTTER RELEASE**. If the **INDICATOR LIGHT** does not come on, smoothly press the shutter release *all the way down* to take the picture.

For
Horizontal
Pictures



For
Vertical
Pictures



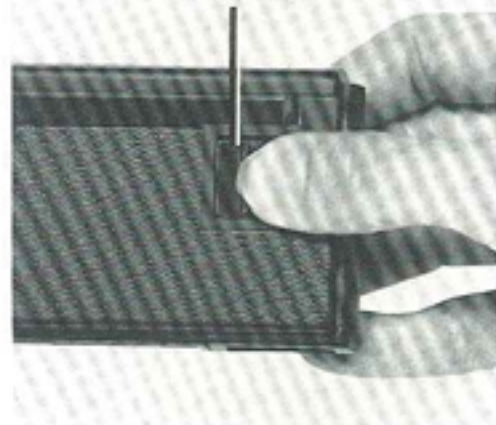
IMPORTANT: If the indicator light comes on, place your camera on a tripod, a solid, flat support such as a table or wall (keep the camera near the edge so the support won't be in your picture), or the optional KODAK Compact Camera Stand (with cable release). Install a cable release in the CABLE-RELEASE 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.

- Push the film advance with



your right thumb until it locks (1½ strokes). To be ready for the next picture, hold the camera at eye level while advancing the film.

FILM ADVANCE



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

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 5 and 10 feet with all the films listed on page 3.

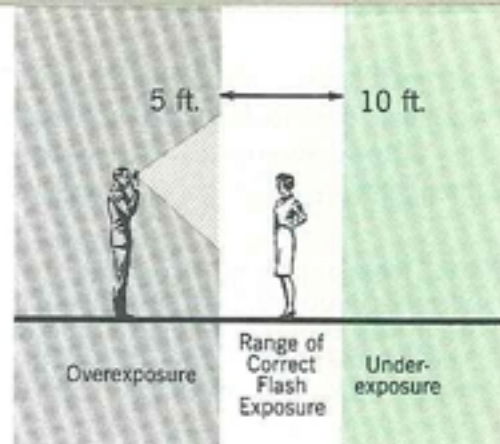
IMPORTANT: Be sure to use only the self-powered magicube. You will damage your camera if you try to use battery-powered flashcubes.



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 Check the distance—The camera-to-subject distance is very important for proper flash exposure. If you are closer than 5 feet, your subject will appear very light (overexposed) and unsharp in the picture; farther than 10 feet, your subject will appear dark in the picture. *Therefore, make sure that your subject is no closer than 5 feet or farther than 10 feet from the camera.*

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 **WARNING FLAG** 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: When taking flash pictures, disregard the indicator light. 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 **WARNING FLAG** 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 in bright sunlight, shadows may appear on the faces of your subjects. To help lighten these shadows, place a magicube on the camera, check the distance (5 to 10 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 20) 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

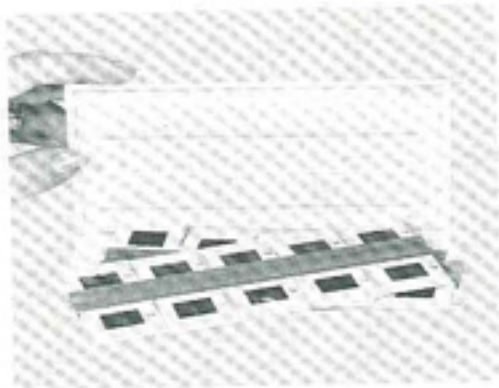
When you have taken the last picture on a cartridge, operate the film advance (about 6 *full* strokes) until you feel a stiff resistance on the advance. **Do Not Force the Advance Any Farther.** (Backing paper will still be visible in the camera window.) Open the camera cover and remove the cartridge. **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 3½ x 4½ 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. When you carry the camera in your pocket or purse, close the lens cover to protect the lens.

Clean the picture-taking and viewfinder lenses 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).

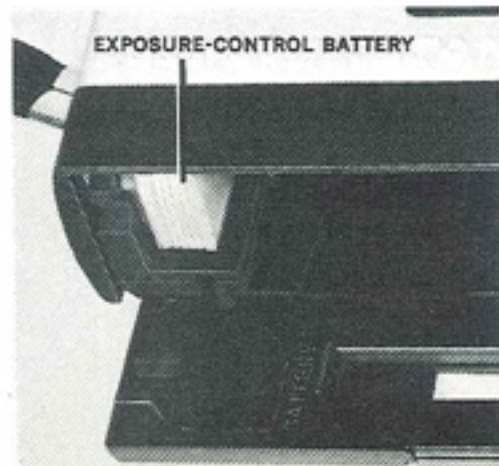
exposure-control battery

To power the camera's indicator light and electronic shutter, 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 Close the lens cover.
- 2 Push the film advance as far as it will go and allow it to return.
- 3 With the camera's back cover open, look at the shutter while you depress and *hold* the shutter release for about 5 seconds.

If the battery is good, the shutter will remain open until you remove your finger from the release. If the battery is weak or

dead, the shutter *will open and close immediately* (1/180 second); install a new battery. (Open the lens cover before you take a picture.)

NOTE: If the indicator light does not come on when you are taking pictures under low-light levels, the battery probably is bad and should be cleaned or replaced. To change the battery when the camera is loaded, open the back cover. Hold the cartridge in place with one hand as you change the battery with the other hand. **Do not lift the cartridge away from the camera or you will lose a frame of film.** Close the back cover and advance the film to the next frame.

photo aids . . . see your photo dealer

KODAK Pocket INSTAMATIC Camera Case, Model A—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 Publications—Keys to snapshot fun are found in *Picture the Fun with Your KODAK INSTAMATIC® Camera*. Your photo dealer will be glad to show

you this and many other inexpensive books on photography.

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.



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.

What Happened	Probable Cause	Correction
No picture or partial picture.	a) Lens cover closed. b) Hand, fingers, or wrist strap in front of lens. c) Camera support obstructed lens.	a) Observe warning flag in viewfinder (page 6). b) Keep both hands and wrist strap behind front of camera. c) Keep camera close to edge of support.
Daylight pictures too dark.	a) Weak or dead battery. b) Battery needs cleaning. c) Shutter release not held down until indicator light went out.	a) Check battery (page 19). b) Clean battery (page 18). c) Observe indicator light (page 9).
Daylight pictures too light.	Electric eye obstructed during picture-taking.	Make sure electric eye isn't obstructed by fingers or other object.

What Happened	Probable Cause	Correction
Flash pictures too dark.	a) Subject too far from flash. b) Weak or dead battery.	a) Subject must be no farther than 10 feet from flash (page 13). DO NOT WASTE FILM ON GREATER DISTANCES. b) Check battery (page 19).
Flash pictures too light.	Subject too close to flash.	Subject must be at least 5 feet from flash (page 13).
Flare in flash pictures.	Hand or fingers too close to lens.	Keep both hands behind front of camera.
Red reflections in subject's eyes.	Subject looked directly at flash.	Have subject look slightly away from flash; turn up room lights; install optional KODAK Magicube Extender in cube socket.
Pictures blurred.	a) Camera movement. b) Subject movement. c) Too close to subject for proper focus.	a) Hold camera steady; press shutter release slowly. b) Subject should be stationary, or can be moving very slowly in bright sunlight. c) Keep at least 5 feet from subject (page 9).
Foggy, misty pictures.	Dirty camera lens.	Clean lens (page 17).
Subject not centered or partly cut off.	Improper use of finder.	View subject within luminous frame of viewfinder (page 9).

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, 1901 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 Rivera Road, Whittier, California 90606

Eastman Kodak Company, Regional Equipment Service Center, P.O. Box 1260, Honolulu, Hawaii 96807

technical details

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

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

Film Speeds—

Negative films—ASA 32-125

Reversal films—ASA 40-80

Lens—LUMENIZED, 25mm, $f/9.5$ triplet lens; fixed focus—5 feet to infinity.

Lens Cover—Sliding, built-in cover with signal in viewfinder for closed lens cover.

Shutter—Electronic (1/180 second to 10 seconds or longer); battery-powered (size K); with cable-release socket.

Flash—Self-powered magicubes; cube rotates as film advances; flash distances—5 to 10 feet.

Viewfinder—Projected frame; warning flag for used bulb or closed lens cover; indicator light for exposures longer than 1/30 second (use firm support).

Construction—Plastic with metal and vinyl panels; tripod socket; clip for wrist strap.