

SERVICE FACILITIES

If your KODAK camera should require attention, complete service facilities are provided at Rochester and in KODAK Regional Sales Divisions at the addresses, below. Also, service covered under the guarantee, is available through independent service shops in many cities. For such local, guarantee-covered service, please see your KODAK dealer or refer to the yellow pages of your telephone directory under Photographic Equipment and Supplies—Factory Approved Warranty Service.

Eastman Kodak Company
Apparatus Service
800 Lee Road
Rochester, New York 14650

Eastman Kodak Company
Apparatus Service
1901 West 22nd Street
Oak Brook, Illinois 60523

Eastman Kodak Company
Apparatus Service
6300 Cedar Springs Road
Dallas, Texas 75235

Eastman Kodak Company
Apparatus Service
5315 Peachtree
Industrial Blvd.
Chamblee, Georgia 30005

Eastman Kodak Company
Apparatus Service
3250 Van Ness Avenue
San Francisco, California 94119

Eastman Kodak Company
Apparatus Service
1334 York Avenue
New York, New York 10021

Eastman Kodak Company
Apparatus Service
808 Rivera Road
Whittier, California 90606

Eastman Kodak Company
Apparatus Service
1065 Kapiolani Blvd.
Honolulu, Hawaii 96807

EASTMAN KODAK COMPANY • ROCHESTER, NEW YORK 14650

GUARANTEE

Within a year after purchase, any repairs necessary to this KODAK INSTAMATIC M4 Movie 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.



KODAK
INSTAMATIC
M4
MOVIE
CAMERA



IMPORTANT

KODAK Super 8 Movie Film can only be projected in a movie projector designed for Super 8 film. You will damage your Super 8 film if you attempt to project it in

a regular 8mm projector. The KODAK INSTAMATIC M80 Movie Projector will show Super 8 as well as regular 8mm films.

INTRODUCTION

Your KODAK INSTAMATIC M4 Movie Camera—with 13mm *f*/1.8 KODAK EKTANAR Lens, automatic electric-eye exposure setting, low-light level warning signal, battery-driven motor, and featuring the use of ready-loaded KODAPAK Movie Cartridges—is one of the distinguished members of a new Super 8 movie camera family.

After you have installed the batteries, moviemaking is as simple as this . . .

- Put in movie cartridge—camera is loaded

KODAK Super 8 MOVIE FILM

Your camera accepts KODAK Super 8 movie film in the KODAPAK Movie Cartridge for instant loading (page 5) and unloading (page 6). KODACHROME II Color Movie Film can be used outdoors and indoors. The camera has a built-in, automatically controlled, color-conversion filter for use

when making movies outdoors. The filter is automatically moved into position by the film cartridge for making movies outdoors, and out of position when the KODAK INSTAMATIC Movie Light or the KODAK 8 Movie Light, Model 2 is attached for movies indoors.

- Aim through viewfinder — you see a bright, clear image of your subject
- Press exposure release — you're taking movies . . . read on for the details

Before making any important pictures—on a trip or at some special event—it is always well to shoot a cartridge of film and check the results. This will give you practice in camera operation and provide a check on your equipment. If you have any questions, your dealer will be glad to help.

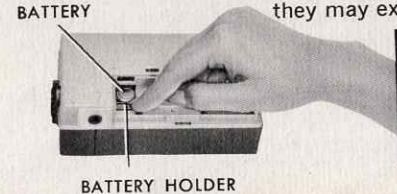


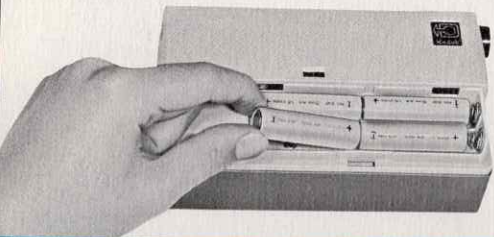
AUTOMATIC EXPOSURE-CONTROL BATTERY

The exposure control is powered by a PX-13 size mercury battery (supplied in a shipping folder which is stored in the film compartment of the camera). The life of the battery is approximately one year under average use. To install the battery, proceed as follows:

- 1 Insert a coin in the SLOT between the camera case and the BATTERY COVER and twist the coin to unlatch the cover.
- 2 Raise the cover slightly and remove it by withdrawing the UPPER TABS from the SLOTS in the camera case.

- 3 Draw open the exposure-control BATTERY HOLDER and put the BATTERY in the holder with "+" side down. It can only be inserted one way. Then close the holder. **WARNING:** Never dispose of used batteries in a fire as they may explode.



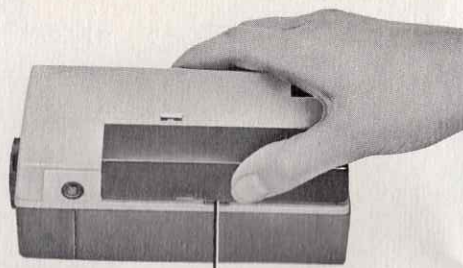


MOTOR-DRIVE BATTERIES

The KODAK INSTAMATIC M4 Movie Camera uses four AA-size 1.5-volt **alkaline** batteries (not supplied).^{*} These batteries are obtainable from your dealer or most hardware stores or drugstores in your area. (Have batteries tested when purchased.) Zinc-carbon batteries should only be used in an emergency and then not outdoors when the temperature is below 55°F.

WARNING: Never dispose of used batteries in a fire as they may explode.

^{*}To insure dependable battery and camera service, clean battery and camera contacts periodically with a rough cloth. For maximum protection of camera contacts, batteries may be removed if camera is stored.



LOWER TAB

INSTALLING MOTOR-DRIVE BATTERIES

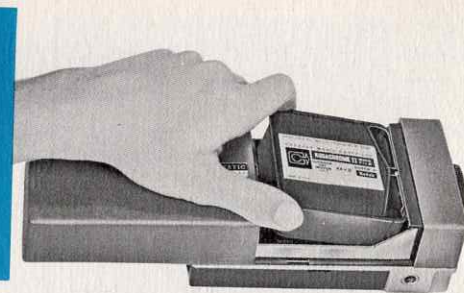
Put four AA-size alkaline batteries in the battery compartment, orienting each battery as shown at left above, and by the molded symbols in the battery compartment. Replace the battery cover, latching it by pushing in slightly on the bottom of the cover until the **LOWER TAB** fits securely in the slot in the camera case.



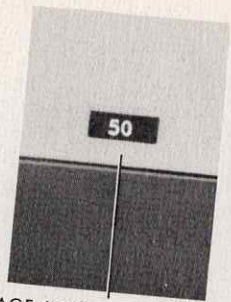
WINDOW CAMERA COVER

LOADING CAMERA

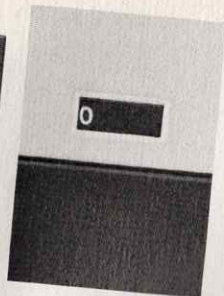
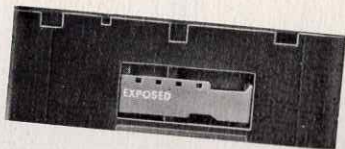
1 Depress and hold down the **COVER LATCH BUTTON** and at the same time slide the **CAMERA COVER** toward the back of the camera as far as it will go.



2 Slip a KODAPAK Movie Cartridge into the camera, at the angle shown, with the notches in the cartridge toward the front of the camera and the label facing out. Push down the back of the cartridge until it is seated.



FOOTAGE INDICATOR WINDOW



3 Slide the camera cover fully forward until it snap locks. With the cover closed, the film type designation on the cartridge label should appear in the WINDOW on the cover.

4 Check the FOOTAGE INDICATOR WINDOW; the figure "50" should be in the window. As you take pictures, the number in the window will change to show you how many feet of film remain to be exposed.

NOTE: Do not carry unwrapped, unexposed film cartridges in your pocket, as dust may accumulate on film and be transferred to camera aperture plate. To clean aperture plate, see page 13.

UNLOADING

When the figure "0" begins to appear in the film indicator window, you are nearing the end of the film. Listen for the change in mechanism sound which tells you exactly when all the film has been used.

Slide open the camera cover and remove the cartridge by lifting it up at the back. The word EXPOSED appears on the film in the aperture of the cartridge so that the cartridge won't inadvertently be returned to the camera. NEVER OPEN THE CARTRIDGE.

How to Get Your Film Processed

You can have your film processed as

follows: (1) take the exposed film to your dealer, who will arrange for processing (specify the processor, if you desire), or (2) mail the exposed film directly to a Kodak laboratory (as described below) or to any laboratory that offers such a processing service.

To mail your film cartridge to a Kodak laboratory, first purchase the appropriate KODAK Prepaid Processing Mailer from your dealer. Then, following carefully the instructions on the Mailer, send the exposed film directly to a Kodak laboratory. After processing your film, the laboratory will mail it directly to you.

NOTE: We do not recommend the interchange or removal of partially exposed movie cartridges as some "light-fogging" of the film will result. In addition, the footage indicator will automatically reset itself to "50" when the cartridge is removed.

However, if you choose to remove the cartridge before it is fully exposed, note the setting of the footage indicator before removing the cartridge. Mark this number

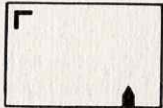
below the KA•II on the cartridge label so that it will appear in the window. Since the footage indicator will be at "50" when the cartridge is reloaded in the camera, subtract the footage remaining in the cartridge from "50" to determine the number to stop at when the cartridge will be fully exposed. For example—if the number of feet remaining is 30—reinsert the cartridge and take pictures until the footage indicator is at 20—giving you a total of 50 feet of exposed film.


VIEWFINDER

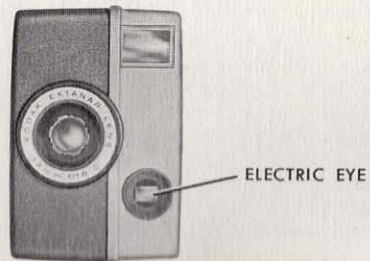
The viewfinder is an enclosed optical-type finder. The scene viewed will be the same as that projected on the screen after the film is processed.

Because the finder and lens are separated, they do not "see" quite the same view. This effect is called parallax and is noticeable in close-ups.

Sight through the viewfinder. Note the



parallax mark  in the upper left corner of the front viewfinder lens. This mark indicates the upper left corner of the scene when the subject is 3½ feet from the camera. Therefore, when filming a subject as close as 3½ feet, tilt the camera up and move it slightly to the left until the top and side of the subject are within the mark.



ELECTRIC EYE

ASA FILM SPEED

Loading the camera with a KODAPAK Movie Cartridge automatically sets the electric eye exposure control for the speed of the film in the cartridge.

AUTOMATIC EXPOSURE CONTROL

The size of the lens opening is automatically controlled by the amount of light reflected to the ELECTRIC EYE by the scene. *Make sure that the electric eye is not obstructed during picture-taking by the fingers or any other object, and that the camera is not pointed directly toward the sun or other unusually bright light source.*

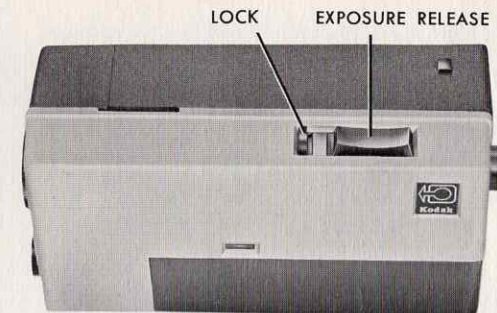
A WARNING POINTER will appear at the lower right corner of the viewfinder, if there is not enough light for properly exposed movies. *If the warning pointer persists, in spite of good lighting conditions, the automatic exposure-control battery is*

probably worn out and should be tested and if necessary replaced, see page 3.

Bright light entering the electric eye causes the exposure-control battery to run down very slowly. To prolong the life of the battery, when the camera is not in use, avoid subjecting the camera to bright, direct light over long periods of time or keep it in the camera case with the case cover closed.

NEARNESS TO SUBJECT

The KODAK INSTAMATIC M4 Movie Camera is factory-focused and needs no focusing. However, for sharp pictures, the subject should be no closer to the camera than a certain distance. For outdoor movies in bright sunlight, pictures can be made as close to the subject as 3½ feet; under poor lighting conditions stay at least 8 feet from the subject.



EXPOSURE RELEASE

The EXPOSURE RELEASE can be set at any one of three positions by means of the exposure-release LOCK.

In the lock position, exposure-release lock pushed toward the back of camera, the exposure release cannot be depressed. This is to avoid accidental running of the camera.

In the run position, exposure release-lock toward the front of camera, the exposure release can be firmly depressed and held for taking pictures. For steady pic-

tures avoid moving the camera when pressing or releasing the exposure release.

For continuous running, depress fully the exposure release and while holding it depressed, move the exposure-release lock toward the back of the camera. To stop the camera, push the lock toward the front of the camera. If you want to get into the picture yourself, mount the camera on a tripod or other firm support and set the camera for continuous running. A tripod socket is built into the base of the camera.

OUTDOOR MOVIES

- For best results the subject should be in bright or hazy sunlight with the sun behind you.
- Keep at least 3½ feet from your subject for sharp pictures.
- View the subject by bringing the rear eyepiece just close enough to your eye to see the entire outline of the front viewfinder frame. Check to be sure the insufficient light warning pointer is not visible.

Caution: Make sure that the fingers or other objects do not obstruct the electric eye or lens on the front of the camera.



- Hold the camera steady by grasping it firmly with both hands. Take the pictures by firmly depressing the exposure release. NOTE: If the camera stops running, the batteries should be checked as the most likely cause, see page 12.

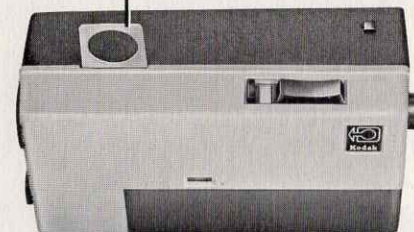


INDOOR MOVIES

The KODAK INSTAMATIC Movie Light and the KODAK 8 Movie Light, Model 2 (available from your dealer), are specifically for use with your camera. They attach easily to the top of your camera. You can use automatic movie cameras with a movie light quite effectively. You don't have to judge subject or lamp-to-subject distance. Picture results are best when the subject is close to a background of medium or light tone.

Put the movie light in position by inserting the light bracket into the slot in the

FILTER KEY



top of the camera. The bracket will "click-stop" when it is fully seated.

Inserting the bracket in the slot moves the built-in filter out of the way, since no filter is required when indoor movies are being made.

A FILTER KEY is furnished with the camera for insertion in the slot when other types of movie lights are used. Do not attempt to carry the camera by means of the movie light or the filter key.

Remember to remove the movie light or

the filter key from the slot when outdoor movies are to be made.

CAUTION: Because of the high heat and light output at close distances, movie lights should be used no closer than 6' to the subject.

SCENE LENGTH

Usually, about 5 to 10 seconds of taking time (approximately 1½ to 2½ feet of film) is used for average action movie scenes. Naturally, some scenes you will want to make longer than others. For example, a series of landscape shots might well be made longer than scenes which include brief, fast-moving action. A good way to time a scene in seconds is to count slowly and deliberately to yourself, "one and one thousand, two and one thousand, three and one thousand—etc." You can time scenes with surprising accuracy by this addition of "and one thousand" to each numbered second.

TIPS

• Batteries

If the camera stops running, the battery and camera contacts should be cleaned and the batteries checked as the most likely cause. Replacing the movie cartridge may give a false impression, since the "rest" given the batteries during the short time when the cartridge is being replaced, may result in pulling several feet of film.

When going on a trip always take along some spare batteries. After about a year of use, or after exposing 25 cartridges, the batteries should be replaced. Low temperature use will reduce the number of cartridges that can be exposed before the batteries must be replaced.

• Panning

Panning, a term which means swinging the camera horizontally to cover an extended view, should be used only in rare instances. Whenever possible, try to photograph an extended scene by a series of views, mov-

ing the camera between shots and overlapping each scene slightly. However, in some instances, a panning shot may be desirable. The secret of a good pan is to move the camera slowly and smoothly. Plant your feet solidly on the ground; hold the camera steady on the first part of the scene for a moment; pivot from the waist and pan slowly. Never pan on near-by objects. When it is necessary to pan to follow a moving subject, keep the subject centered in the finder.

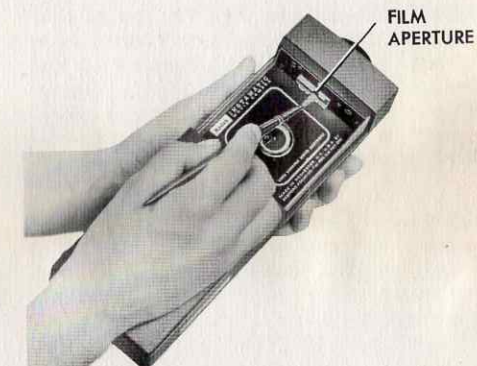
Serial Number—The SERIAL NUMBER of your camera is located on the bottom of the camera near the tripod socket. Make a record of this number and keep it in a safe place in case your camera is lost or stolen.

Identification Number—The catalog number of your camera is No. D34. Use this number and the serial number if you should have occasion to correspond with the Eastman Kodak Company concerning your camera.

CAMERA CARE

Cleaning Film Aperture

The FILM APERTURE in the camera should be cleaned at frequent intervals to prevent build-up of dust around the aperture. Open the camera cover and, holding the camera elevated so that the dust will not fall into the front of the camera, use a small, soft brush to clean the aperture. Remove all dust from inside the camera.



Cleaning Lens

The lens is built into the camera and cannot be taken out for cleaning. If the protective glass in front of the lens needs cleaning, first blow away any dust or grit from the surface; then wipe the surface with KODAK Lens Cleaning Paper or a clean, soft, lintless cloth.

AUXILIARY EQUIPMENT

KODAK Combination Lens Attachments—If you wish to use a Series 5 KODAK Skylight Filter or KODAK PORTRA Lens, a KODAK Series 5, 22mm ($\frac{7}{8}$ inch) Slip-On Adapter Ring is necessary for holding these attachments in place. They may be obtained from your dealer.

KODAK INSTAMATIC M2/M4 Case—Satin-finish black case with bright metal bezels. Tough molded material is shock- and moisture-proof. Protects your camera from scuffings, bangs, falls, and dirt. Holds camera and 2 extra KODAPAK movie cartridges.

KODAK INSTAMATIC Movie Light and KODAK 8 Movie Light, Model 2—Designed specifically for your camera. Provide a compact, easy-to-use, dependable light source for indoor moviemaking. Attach directly to light bar slot on top of camera. With the light in place, the camera is automatically set for making movies indoors.

KODAK Projection Screen—A high-quality, beaded 40 x 40-inch screen of just the right type for home-movie showings. Easy to set up and easy to store.

KODAK INSTAMATIC M50 Movie Projector—Features automatic threading, compact and lightweight design, and an easy-to-turn elevation control—only the optical center moves. Single knob controls forward projection, rapid rewind. Has 200-foot reel capacity.

KODAK INSTAMATIC M60 Movie Projector—Features fully automatic threading to take-up reel and automatic power rewind. Other features include take-up reel storage; built-in preview screen; f1.5 lens.

KODAK INSTAMATIC M70 Movie Projector—Modern, low-format design. Automatic threading. Single control for forward, reverse, and still projection with a choice of forward and reverse projection speeds. Motor-lamp switch with a choice of lamp brilliancy. 400-foot reel capacity.

KODAK INSTAMATIC M80 Movie Projector—Same features as M70 Projector above plus single-knob switching and removable supply spindle adapter for projecting Super 8 and regular 8mm films.

KODAK INSTAMATIC M90 Movie Projector—Has all the features of the M70 Projector but with super brilliant light output—nearly 3 times as much. Room-light receptacle.

KODAK INSTAMATIC M100 Sound Projector—Records and plays back magnetic sound using Super 8 films which have a magnetic stripe. Automatic threading, 1200-foot reel capacity, f1.0 lens.

KODAK PRESSTAPE Universal Splicer—Easy-to-use dry splicer for SUPER 8, regular 8mm, and 16mm films. Uses pressure-sensitive adhesive tape to make splices.