

GUARANTEE

Within a year after purchase, any repairs necessary to this Kodak Instantic 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 a defect, 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, N. Y. 14650

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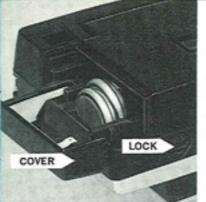
Read this entire instruction manual carefully. Although your camera is amazingly easy to use, small details of camera operation are important for good pictures. Keep the manual handy for future reference.

Your Kodak Instamatic 414 Camera provides a fine array of automatic features—automatic film advance, automatic flash-cube rotation, and automatic daylight exposure control with its battery-powered cadmium sulphide cell. Instant, effortless picture-taking is "built-in."

After inserting batteries, simply do this . . .

- · Drop in film cartridge-camera is loaded
- Wind Spring-power Motor . . . first exposure is ready
- Aim through Eye-level Finder—you see a bright, clear image of your subject
- Press the Shutter Release—you've snapped the picture. Film will advance automatically to next frame

... read on for the important details



INSTALL BATTERIES

Batteries must be installed before you take any pictures. Install two fresh, PX825-size batteries (like those supplied with outfits) to power the daylight exposure control and to fire flashbulbs.

Before installing, clean battery surfaces with a rough cloth. Using the illustrations as a guide, open the battery compartment by first turning the coin-slotted LOCK counterclockwise, then

swinging open the hinged COVER. As illustrated, insert both batteries in the compartment slots, with their positive (+) sides toward the inside of the camera. Close the cover and hold it closed while turning the coin-slotted LOCK clockwise (in direction of arrow on lock) as far as it will go to lock the cover. If the cover does not close easily, do not force it—check batteries for proper positioning.

Important: Flash failure usually results from tarnish (often invisible) on battery surfaces and battery compartment contacts. Clean battery surfaces and the two battery compartment metal contacts periodically with a rough cloth. If flash failure persists, install fresh batteries.

FILM

Your camera accepts Kodak Film in the 126 film cartridge for instant loading and unloading. Choose, from the table below, the film that produces the type of pictures you want.

Type of Picture	Film	No. of Exposures	Produces (order from dealer)
Black-and-White Prints	Kodak Verichrome Pan	12	3½ x 3½-inch black-and-white prints or enlargements.
Color Prints	Kodacolor-X	12 or 20	3½ x 3½-inch color prints or enlargements.*
Color Slides	KODACHROME-X EKTACHROME-X High Speed EKTACHROMES	20 20 20	Color slides, mounted in 2 x 2-inch cardboard mounts for projection or viewing.†

^{*}Color slides are also available from your Kodacolor-X negatives.
†Duplicate slides or enlarged color prints can be made from your original slides.

§Extremely fast film. Ideal for daylight pictures of dimly lighted subjects.



Your camera takes all three-

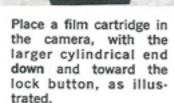
- Black-and-white prints
- 2 Color prints
- 3 Color slides

Before you take any important pictures, try a test 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.

(Pictures shown in reduced size)



Open the back of the camera by pressing up the LOCK button and swinging out the hinged cover.





Close the back of the camera by pressing it against the camera body until it locks. The film name and number of exposures per cartridge appear in the winpow on the back of the camera. (When motor is wound, first exposure positions itself immediately.)

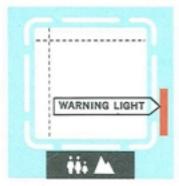
Turn the WINDUP KNOB counterclockwise (or back and forth like a watch) until the spring motor is fully wound. This windup positions the first exposure and provides power to advance the film automatically. The appearance of an arrow in the window indicates that the first exposure has not been reached, thus indicating insufficient windup.

The number that appears in the window on the back of the camera (the same number may appear in duplicate) serves as your exposure counter.

UNLOADING

- After the last picture, the yellow paper will automatically move past the window, provided sufficient power remains in the motor. If an "X" shows in the center of the window, before opening the back of the camera, turn the windup knob a few turns counterclockwise to restore power for advancing the yellow paper beyond the window.
- 2 Slide up the lock button and open the camera.
- 3 Remove the cartridge by turning the camera over to allow the cartridge to fall into your hand. For processing, send entire cartridge. NOTE: Do not remove the cartridge from the camera until all the yellow paper, with the "X's," has been moved past the window; otherwise several exposures will be "light-fogged." Removing and replacing partially exposed cartridges, even under darkroom conditions, may result in loss of one or more exposures due to possible loss of tension on the cartridge takeup spool.





OUTDOOR PICTURES

• The size of the lens opening is automatically controlled by the amount of light reflected to the electric eye by the subject. 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 toward the sun or other bright light-source.

NOTE: Look through the viewfinder window. If there is not sufficient light to take a properly exposed picture, a red WARNING LIGHT will appear in the right side of the viewfinder as the shutter release is partially depressed. Also, see note, page 12.

- Set the 2-position focus slide. For normal subject distances (6 feet to infinity*) allow the ribbed BUTTON of the focus slide to remain in its normal position; that is, toward the shutter release. For close-up pictures (2 to 6 feet), move the ribbed button as far as it will go away from the shutter release. After each exposure with the slide in this close-up position, the slide button automatically returns to the normal (6 feet to infinity) position. It must be reset for another close-up picture. The focus slide setting is indicated on the slide, as well as by symbols below the luminous frame in the viewfinder.
- View the subject by bringing the rear opening of the viewfinder close enough to your eye to see the four sides of the luminous frame in the viewfinder; retain this position and move head and camera as a unit to outline the subject in the luminous frame. For better centering of the picture at close subject distances (2 to 4 feet), frame the subject so that imaginary lines, shown by the two dotted lines in the illustration

Of the black figures on the slide indicate feet, the red figures indicate meters. Infinity is shown by its symbol: ∞.



Color prints and enlargements, like the one shown reduced size above, can be produced from Kodacolor-X and other color films. Actual standard size is 3½ x 3½ inches. on page 8 indicate the top and left-hand boundary of the picture.

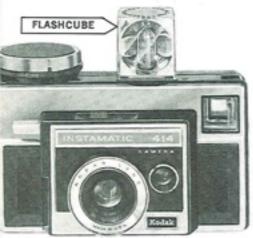
- Hold the camera steady and take the picture by slowly pressing down the SHUTTER RELEASE all the way. Make sure that the lens is clean and unobstructed by fingers, case, or strap.
- With the motor wound, film advances automatically to the next frame when pressure is removed from the shutter release.

FLASH PICTURES

Your camera features easy, rapid, flash picture-taking with flashcubes. Each flashcube incorporates 4 blue bulbs, reflectors and flashguards. As pressure is removed from the shutter release, after taking a flash shot, the flashcube rotates one quarter turn counterclockwise to bring another flashbulb into firing position. Do not take daylight pictures with a used flashcube in place.

Distance: For properly focused and exposed flash pictures, follow the table below.

KODAK Films	Focus Setting	Camera-To-Subject Distance Range
Verichrome Pan (6 feet to Inf. (∞)	Between 6 and 18 feet
Kodacolor-X	2 to 6 feet	Between 2 and 6 feet
KODACHROME-X or EKTACHROME-X	6 feet to Inf. (∞) 2 to 6 feet	Between 6 and 13 feet Between 2 and 6 feet
High Speed	6 feet to Inf. (∞)	Between 9 and 24 feet
EKTACHROME	2 to 6 feet	6 feet



Important: Do not obstruct rotation of flashcube.

TAKING FLASH PICTURES

1. Insert the Flashcube—Insert the base of the FLASHCUBE into the socket on the top of the camera; then press down the flashcube until it snap-locks in place with one of its four sides facing forward. Flash exposure is not controlled by the electric eye, but depends on camera-to-subject distance. Disregard the appearance of the warning light.

NOTE: If in outdoor picture-taking, the red warning light (in viewfinder window) indicates insufficient light for proper exposure because of heavy overcast or shaded light conditions, take a flash picture. Acceptable exposures of subjects in the 2- to 13-foot range can be made with all films except High Speed EKTACHROME, which extends the range to 6 to 24 feet.

The cube revolves one quarter turn as pressure is removed from the shutter release after making an exposure, thus providing flash for 4 successive exposures if a fresh cube is in place. To use a partially used cube, advance the film; then insert a cube with a fresh bulb forward. The cube can also be rotated by hand to position a bulb for firing. To remove a flashcube, lift it off the camera.

- 2. Check Camera-to-Subject Distance—The distance from the flashcube to the subject is important for proper exposure. Therefore, make sure that the subject is within the distance range shown in the table on page 11, and that the focus slide is set to include the subject distance.
- 3. Flash the Picture—View the subject by bringing the rear opening of the viewfinder just close enough to your eye to see the four sides of the luminous frame in the viewfinder; move head and camera as a unit to outline the subject in the luminous frame—then, slowly press the shutter release to flash the bulb and take the picture.

When pressure is removed from the shutter release, the cube revolves one quarter turn to position another bulb for the next exposure.

PHOTO AIDS You can extend your picture-taking scope and enjoyment with the photo aids described below. See your Kodak dealer for these and others.

KODAK INSTAMATIC Field Case, Model L—This attractively lined, molded field case will provide maximum protection for your camera. Its special design permits instant picturetaking, loading, and unloading, without removing the camera from its case. Fasten the camera in the case by tightening the screw in the base of the case into the threaded socket in the base of the camera,

KODAK Flashcube Extender-Increases the distance between the lens and the flashcube to produce more pleasing modeling and shadow effects in close-ups.

KODAK Projectors-A Kodak projector or viewer will show your color slides big, bright and sharp on the screen. Ask your dealer to see the low-cost, compact KODAK READY-MATIC Viewer or the popular KODAK CAROUSEL Projectors.

KODAK Publications-The way to snapshot fun and success is to be found in "How to Make Good Pictures"-perhaps the most popular picture-taking book of all time. Your Kodak dealer will be glad to show you this and other inexpensive books on photography.

If your KODAK camera should require attention, complete service facilities are provided at Rochester and in Kodak Regional Sales Divisions at the addresses, opposite. 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.

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Notice: Equipment subject to minor appearance changes.