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HOW TO USE THE **PERSER II** *Kodamatic*™ INSTANT CAMERA

Your new camera is easy to use, and has many features which we're sure you'll enjoy. It uses the new KODAMATIC Instant Color Film HS144-10.* With proper care and handling, your camera can provide you with years of picture-taking fun.

This manual will help you to take good pictures. So before you use your camera, please read these instructions and then follow them closely.

More Information—If you need picture-taking help, write to Eastman Kodak Company, Photo Information, Department 841A, 343 State Street, Rochester, New York 14650, or contact one of the Kodak Consumer Centers or your photo dealer.

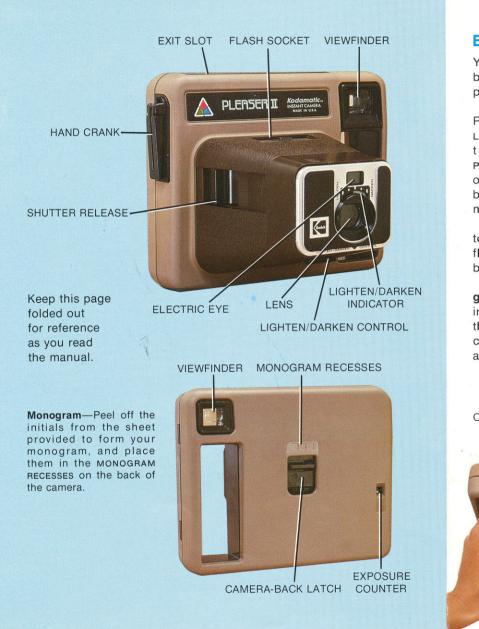
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*You can use KODAK Instant Color Film PR144-10 in an emergency if you move the camera lighten/darken control to its full lighten position. However, the flash range will be reduced, and pictures taken under low light levels outdoors may be too dark.

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Equipment subject to minor appearance changes.

BATTERY

Your camera uses one size J 6-volt battery to power the automatic exposure control.

Turn the camera bottom side up. Press the BATTERY-COMPARTMENT LATCH in the direction of the arrow to release the BATTERY-COM-PARTMENT DOOR, and lift the door open. Insert the battery as shown by the diagram inside the compartment.

Push the battery down and toward the camera LENS until it fits flat in the compartment. Close the battery-compartment door firmly.

To be sure that the battery is good, remove the flipflash (if one is installed on the camera), and cover the ELECTRIC EYE on the front of the camera with an opaque object such as a piece of cardboard. Then pull back partway on the SHUTTER RE-LEASE as you look through the VIEWFINDER. If the red caution light appears in the viewfinder, the battery is good.

To remove the battery, simply push it toward the camera lens to release the notched end, and lift it out. The battery will normally last for about a year.

LOADING THE CAMERA

Use Kodamatic Instant Color Film HS144-10. Holding the film pack by the edges only, remove the protective wrapping by grasping the flap and pulling it in the direction of the arrows. Don't squeeze the pack, since this could allow light to fog the pictures. Then follow these steps:

1. Open the camera back by rotating the CAMERA-BACK LATCH in



the direction of the arrow labeled "TO OPEN," and then lowering the back.

- 2. Holding the film pack as shown, insert it into the film compartment by lining up the blue stripe on the pack with the blue LOAD-ING LINE on the camera.
- 3. Close the camera back and latch it by rotating the camera-back latch in the direction of the arrow labeled "TO CLOSE." The EXPOSURE COUNTER will show the symbol •.
- 4. Unfold the HAND CRANK by lifting its lower end and raising it until the crank is parallel to the side of the camera body. Turn the crank only in the direction of the arrow on the side of the camera to eject

the black FILM COVER through the EXIT SLOT. When the film cover stops moving (after 4 to 5 turns of the crank), grasp it and remove it from the slot. The exposure counter will show 1.

Notes: The exposure counter will count up from 1 through 10 as you take pictures, showing the number of the picture you're ready to expose.

We don't recommend removing and reinserting a partially used film pack (or a full pack after the black film cover has been ejected), because at least one of your pictures will be spoiled. Also, when you reinsert the pack, the exposure counter will reset to •.



TAKING PICTURES

- 1. Be sure your subject is at least 4 feet from the camera.
- Check to see that the LIGHTEN/ DARKEN INDICATOR is in the center position, showing half white and half black. This setting should be the correct one for most of your pictures.
- Hold the camera up to your eye so that you can see all 4 sides of the luminous frame in the viewfinder. The area that you see inside the frame will be included in your picture.
- 4. Hold the camera steady. Pull back the shutter release partway. If the red caution light doesn't appear in the viewfinder, pull the shutter release smoothly all the way back and allow it to return.
- 5. Turn the hand crank to eject the print from the top of the camera. Be sure to turn the crank in a continuous, smooth movement to eject the print (4 to 5 turns). Turn the crank only in the direction of the arrow on the side of the camera. Then grasp the print by its top border and remove it from the exit slot before taking another picture.

It's important to handle the prints carefully during the first 10 minutes after exposure. Don't cut, bend, or fold them. See the handling in-



For horizontal pictures.



For vertical pictures.

structions on the film carton and on page 7.

CAUTION: Picture units in the film pack contain a caustic fluid. Upon ejection from the camera, the fluid in the picture begins to neutralize,

and in approximately 10 minutes any chance of harm is minimal. Should any fluid escape from the picture unit, avoid contact with eyes, mouth, and skin. Also avoid fluid contact with fabrics, carpeting, and furniture to prevent stain.

In case of contact with eyes, immediately flush with plenty of water and get medical attention. In case of any other contact, wash thoroughly at once.

The empty film pack has sharp internal edges. Discard out of the reach of children.

Notes: The shutter can't be operated when the camera isn't loaded, when the camera is loaded but the film cover hasn't been ejected (exposure counter shows •), or when all 10 prints in a film pack have been ejected (exposure counter shows 0). This helps to prevent wasting a flash when you're taking flash pictures.

The print will not begin to develop until you turn the hand crank and eject the print from the camera.

Flash

If the red caution light appears in the viewfinder as you pull back the shutter release partway, use flipflash to take pictures of subjects from 4 to 10 feet from the camera. Or, under some conditions, you can make an extended exposure (page 4).



- 1. Firmly insert a flipflash into the FLASH SOCKET on the top of the camera, with the bulbs facing forward and with one or more fresh bulbs in the top half of the flipflash—the half farther from the camera.
- 2. Check to see that your subject is 4 to 10 feet from the camera. If you are farther than 10 feet from your subject, it will appear too dark in your picture; closer than 4 feet, your subject will be too light and unsharp.
- 3. Frame your subject in the luminous frame in the viewfinder. Hold the camera steady, and pull back the shutter release smoothly to take the picture. The color in the dot on the back of the flipflash will disappear as the corresponding bulb flashes.

4. Turn the crank to eject the print from the camera.

You can remove and reinstall a flipflash at any time. When you replace a partially used flipflash, make sure that the top half (farther from the camera) contains one or more unused bulbs.

After you have used the bulbs in the top half of the flipflash, remove it from the flash socket by "rocking" it to one side. Turn the flash over to position fresh bulbs at the top.

Notes: The caution light will not appear in the viewfinder when a flipflash is installed on the camera.

If at any time a bulb should fail to flash, remove the flipflash and turn it over to position fresh bulbs at the top, or install a new flipflash. Then take a picture. If the bulb flashes, the camera is operating properly; see the *flash* manufacturer's warranty. If the bulb still fails to flash, the camera may require service; see the warranty in this manual. If a bulb fails to flash, any remaining good bulbs in the same half of the flipflash won't flash.

When you take a picture of a very light subject against a dark background at a distance of 4 to 5 feet, move the lighten/darken control toward DARKEN before you take the picture. See page 5.

Occasionally people's eyes appear red in flash pictures. The red is produced by reflections from the retina of the eye, and is most common when (1) your subject is young, has a light complexion, or has blue eyes, and (2) the surroundings are dimly lighted. You can minimize these reflections by (1) turning on additional room lights; (2) having your subject look directly at one of the room lights, causing the pupils to contract; or (3) using a KODAK Flipflash Extender, available from photo dealers.

Extended Exposures

When you take pictures in low-light conditions, the red caution light will appear in the viewfinder as you pull back the shutter release partway. This means that the shutter will remain open for longer than 1/15 second, and that **any movement of the camera or the subject will blur your picture.**

To help keep the camera steady when the caution light comes on, brace the camera or yourself against a **firm** support such as a wall, table, or tree as you take the picture. Hold the shutter release fully back until the caution light goes off, indicating that the shutter has closed.

Extended exposures are most useful under lighting conditions such as those you find outdoors on dull days or in late afternoon, and for some commercially lighted indoor scenes such as bright stage sets.

Usually, extended exposures

aren't adequate for outdoor night scenes or indoor scenes with average room lighting.

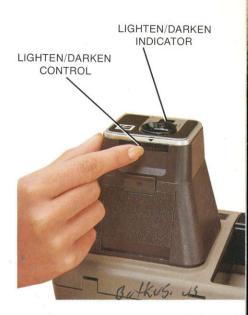
Lighten/Darken Control and Indicator

After you take a picture, if you want a lighter or darker picture of the same subject in the same location without changing the lighting or your position, adjust the LIGHTEN/ DARKEN CONTROL before taking another picture. Moving the lighten/darken control, at the front edge of the camera, changes the position of the LIGHTEN/DARKEN INDICATOR above the lens. For a lighter picture, move the control toward LIGHTEN; for a darker picture, move the control toward DARKEN.

You can use the lighten/darken control to adjust the lightness or darkness for pictures taken with daylight or flipflash illumination.

Notes: The lighten/darken control does *not* automatically return to the center position after you take a picture.

If you photograph a very light subject in very dark surroundings, you may want to move the control toward DARKEN before you take the picture. For a very dark subject in light surroundings, move the control toward LIGHTEN.



UNLOADING THE CAMERA

After you have taken and ejected the tenth picture in a film pack, the exposure counter will show 0. Open the camera back, and lift the empty film pack out of the camera.

CARE OF YOUR CAMERA

When necessary, clean the viewfinder lenses and the picture-taking lens by blowing away any dust or dirt. Then breathe on the lenses to form a mist, and gently wipe the mist away with a soft, clean, lintless cloth (or use a drop of KODAK Lens Cleaner, or equivalent, and then wipe with a clean, soft cloth). Don't use solvents or solutions not designed for camera lenses, and never use chemically treated tissues intended for eyeglasses.

Store your camera away from heat and direct sunlight—never in the glove compartment, on the rear-window shelf, or in any other hot spot in a car—since this may cause permanent damage to the film or the camera.

Cleaning the Rollers

Occasional fluid leakage from the picture units may cause small deposits on the camera rollers, which can produce small spots on your pictures. If this happens, clean the rollers as follows:

- 1. Open the camera back. The ROLLERS are at the top of the film compartment.
- Use a cotton swab or a small piece of soft, lintless cloth moistened with clean water. Don't use solvents or detergents.
- 3. Wipe the dirty areas of the rollers

BOLLERS

with the swab or cloth (never with your fingers). Rotate the rollers by turning the hand crank to position the dirt where it can be removed easily. Then dispose of the swab or cloth in a waste container.

CAUTION: The residue cleaned from the rollers may be caustic. Observe the precautions on page 2.

CARE AND STORAGE OF FILM AND PRINTS

Leaving your film and camera in a hot place such as a sunny window or a closed car on a warm day may produce poor picture quality. If you accidentally leave the film and camera in a hot place, allow them to cool to normal temperature before

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taking any pictures. If there is a film pack inside the camera, wait approximately one hour after the surface of the camera is cool to allow adequate cooling of the film.

Also allow your film and camera to return to normal temperature if they have been left in a cold place such as a car trunk during winter.

The recommended temperature range during development of prints is 60 to 100°F (16 to 38°C). At temperatures below 60°F (16°C), place prints in a warm place—an inside coat pocket, for example—as soon as they are ejected from the camera, and leave them there during development. Otherwise, prints may appear too light. Be sure not to bend or fold the prints.

It's a good idea at the upper end of the temperature range approaching 100°F (38°C)—to set the lighten/darken control toward LIGHTEN to keep prints from becoming too dark.

Don't leave prints in direct sunlight or on a hot surface during development. Prints will probably be too dark when developed at temperatures above 100°F (38°C).

Store your developed prints in a cool, dry place.

The picture area may be safely cut out of the picture unit provided sufficient time (10 minutes) is allowed for the caustic fluid in the picture area to neutralize. If the picture unit is opened, the picture and the waste should be handled with care to avoid possible stains on fabric, furniture, or carpeting.

SERVICE FOR YOUR CAMERA

If you have questions about your camera or KODAMATIC Instant Color Film, or have difficulty using your camera, carefully reread the section of this manual that pertains to the questions you have. ESPE-CIALLY be sure to consult the "Troubleshooting Guide" that begins on the next page. Since many cameras which are returned for repair do not need service, please carefully review this information.

If you believe your camera does need service—

Take your camera and several sample prints to your photo dealer.

OR

Take your camera and several prints to a Kodak Consumer Center if one is located near you. The addresses are listed on page 11.

OR

Send a letter describing the problem to Eastman Kodak Company, Department 841A, 343 State Street, Rochester, New York 14650. Please enclose sample prints with your letter to aid us in helping you, and be sure to specify the model of your camera as well as the type of flash you used (if any). If your camera requires repair, you may send it through your photo dealer or directly to one of our Service Centers, listed on page 13.

Packing Instructions

- Include a note with your camera giving all details: date and place of purchase and a description of the problem, as well as several sample prints. If possible, include a telephone number where you can be reached between 8:00 a.m. and 5:00 p.m.
- 2. Use a sturdy carton that is large enough for you to surround the camera completely with packaging material, such as crumpled newspaper.
- 3. Securely fasten the carton with tape. Clearly write the address of the Service Center and your name and address on the top and bottom of the carton.
- 4. Mail the carton to Kodak. Remember to insure the equipment to replacement value.

Troubleshooting Guide

What Happened	Probable Cause	Correction
Pictures fuzzy, unsharp, or misty.	a, Camera movement.	a. Hold camera steady; operate shutter release smoothly. When caution light indicates extended exposure, see page 4.
	b. Subject movement.	 b. Subject should be stationary, moving slowly in bright sunlight, or moving toward or away from you (not at right angle to camera).
	c. Dirty camera lens.	c. Clean lens (page 6).
	d. Subject too close to camera.	d. Subject must be at least 4 feet from camera.
	e. Flare from very bright light shining directly into lens.	e. Don't point camera directly at sun or other extremely bright light.

What Happened	Probable Cause	Correction
Daylight pictures too dark.	a. Weak battery.	 Check battery (inside fron cover); replace if necessary.
	 b. Light level of scene too low for non-flash picture. 	b. Take flash picture of subjects from 4 to 10 feet from the camera.
	c. Shutter release not fully held back until caution light went out (extended exposures).	c. Be sure to hold shutter release back until caution light goes out (page 4).
	d. Temperature too high during development.	d. See temperature recommendations on page 7.
	e. Print placed on hot surface or in direct sunlight during development.	e. Never leave print on hot surface or in direct sunlight during development.
	f. Kodak Instant Color Film PR144-10 used.	f. Use KODAMATIC Instant Color Film HS144-10.
	g. Lighten/darken control not in proper position.	g. Adjust control (page 5).
Daylight pictures too light.	a. Electric eye obstructed during picture-taking.	a. Keep fingers and objects away from electric eye.
	b. Lighten/darken control not in proper position.	b. Adjust control (page 5).
Pictures too light and off-color.	Temperature below 60°F (16°C) during development.	Put print in warm place—an inside coat pocket, for example—immediately after ejecting it.
Flash pictures too dark.	a. Subject too far away from camera.	a. Subject must be no farther than 10 feet from camera.
	b. Weak battery.	 b. Check battery (inside front cover); replace if necessary.
	 с. Кодак Instant Color Film PR144-10 used. 	c. Use KODAMATIC Instant Color Film HS144-10.
	d. Lighten/darken control not in proper position.	d. Adjust control (page 5).
Flash pictures too light.	a. Subject too close to flash.	a. Subject must be at least 4 feet from flash.
	b. Lighten/darken control not in proper position.	b. Adjust control (page 5).

Probable Cause	Correction
a. Dead battery.	a. Replace battery.
b. No battery in camera.	b. Install battery.
c. Flash didn't go off.	c. Be sure flipflash contains at least one fresh bulb in top half. If bulb still doesn't flash, see page 4.
d. Hand or object completely covering lens when picture was taken.	d. Keep hands and objects away from lens.
User stopped turning crank while ejecting print.	Crank evenly in a smooth continuous movement.
Improper use of viewfinder.	View subject within luminous frame in finder (page 2).
a. Improper handling of film pack during unwrapping or loading.	a. Hold film pack by edges only. Don't press on film cover.
b. Film pack removed and reinserted after film cover was ejected.	 Avoid removing and reinserting pack. If you must remove it, do it in subdued light. Top picture will be fogged.
c. Camera back opened in bright light after film cover was ejected.	c. If you must open camera back, do it in subdued light to avoid fogging prints remaining in pack.
 a. Flipflash not turned over after bulbs in top half were used. 	a. Turn flipflash over to position fresh bulbs at top.
 b. Flash not firmly inserted in flash socket. 	b. Insert flipflash correctly.
c. Malfunctioning flash.	c. See page 4.
Dirt on rollers.	Clean rollers (page 6).
Print bent or flexed	Never bend or flex prints
	 a. Dead battery. b. No battery in camera. c. Flash didn't go off. d. Hand or object completely covering lens when picture was taken. User stopped turning crank while ejecting print. Improper use of viewfinder. a. Improper handling of film pack during unwrapping or loading. b. Film pack removed and reinserted after film cover was ejected. c. Camera back opened in bright light after film cover after bulbs in top half were used. b. Flash not firmly inserted in flash socket. c. Malfunctioning flash. Dirt on rollers.

What Happened	Probable Cause	Correction
Picture doesn't eject from exit slot when crank is	a. Crank turned in wrong direction.	a. Turn crank only in direction of arrow on side of camera.
turned.	b. Crank turned forward and then backward during first turn of crank after taking picture.	b. Open camera in subdued light, remove film pack, and pull top 2 prints from pack by hand. Reinsert pack and proceed as if fresh pack were inserted. However, remember exposure counter will indicate more exposures left than actually remain in pack.
•	c. Shutter release operated before film	c. Same as b, above.

cover fully ejected.

Kodak Consumer Centers

Kodak Consumer Centers offer photographic information on Kodak equipment and film. Also, the centers can perform minor adjustments on Kodak amateur equipment. The centers will advise you on the nature of serious problems and the cost of repairs which may be necessary. Addresses and telephone numbers may change. For up-to-date information, consult the Yellow Pages of your telephone directory under "Photographic Equipment and Supplies."

ALABAMA

720 S. 37th Street Birmingham 35222 (205) 322-2401

CALIFORNIA 1017 N. Las Palmas Avenue Los Angeles 90038

(213) 465-7151

925 Page Mill Road Palo Alto 94304 (San Francisco area) (415) 493-7200

3250 Van Ness Avenue San Francisco 94109 (415) 928-1300 9100 Alcosta Boulevard San Ramon 94583 (San Francisco area) (415) 828-7000

12100 Rivera Road Whittier 90606 (Los Angeles area) (213) 685-5610

COLORADO One Inverness Drive East Englewood 80112 (Denver area) (303) 779-6606 FLORIDA

1001 Ponce de Leon Boulevard Coral Gables 33134 (Miami area) (305) 445-0511

2715 Atlantic Boulevard Jacksonville 32207 (904) 399-4430

GEORGIA 5315 Peachtree Industrial Boulevard Chamblee 30341 (Atlanta area) (404) 455-0123 HAWAII

1065 Kapiolani Boulevard Honolulu 96814 (808) 531-6565

1122 Mapunapuna Street Honolulu 96819 (808) 833-1661

ILLINOIS

1901 West 22nd Street Oak Brook 60521 (Chicago area) (312) 654-5542

INDIANA 4760 Kingsway Drive Indianapolis 46205 (317) 251-3159

KANSAS

7301 Frontage Road, Interstate 35 Shawnee Mission 66204 (Kansas City area) (913) 831-4020

LOUISIANA

Pontchartrain Bldg. Suite 100 3939 N. Causeway Blvd. Metairie 70002 (New Orleans area) (504) 837-3566

MARYLAND

7115 Ambassador Road Baltimore 21207 (301) 265-5400

MASSACHUSETTS 480 Cochituate Road Framingham 01701 (Boston area) (617) 875-0979

MICHIGAN 21600 Greenfield Road Oak Park 48237 (Detroit area) (313) 967-1600 MINNESOTA 2412 Nicollet Avenue Minneapolis 55404 (612) 870-3456

MISSOURI 1853 Craig Road St. Louis 63141 (314) 434-4330

NEBRASKA 7262 Mercy Road Omaha 68124 (402) 393-4000

NEW JERSEY P.O. Box 1334, Route 130 Dayton 08810 (212) 879-1500 and (201) 329-6600

16-31 Route 208 Fair Lawn 07410 (201) 797-0600

NEW YORK 1133 Avenue of the Americas New York City 10036 (212) 930-7565

800 Lee Road Rochester 14650 (716) 722-0670

Photo Information Dept. Rochester 14650 (716) 724-4512

NORTH CAROLINA 77 Executive Center Bldg. 5311, Suite 80 Charlotte 28210 (704) 525-5090

OHIO 14 Knollcrest Drive Cincinnati 45237 (513) 948-5728

4545 West 160th Street Cleveland 44135 (216) 267-0300

OKLAHOMA 3015 United Founders Boulevard Oklahoma City 73112 (405) 848-7803 OREGON 5410 S.W. Macadam Avenue Portland 97201 (503) 222-3831

PENNSYLVANIA 425 Maryland Drive Ft. Washington 19034 (Philadelphia area) (215) 242-3200

2857 Banksville Road Pittsburgh 15216 (412) 563-6733

TENNESSEE 2225 Union Avenue Memphis 38104 (901) 278-5900

TEXAS 2800 Forest Lane Dallas 75234 (214) 241-1611

> 610 Gray Houston 77002 (713) 820-7700

5815 Callaghan Road Suite 112 San Antonio 78228 (512) 684-5934

UTAH University Club Building Suite 100 136 East South Temple Street Salt Lake City 84111 (801) 363-5713

VIRGINIA 1555 Wilson Blvd. Arlington 22209 (Washington, D.C. area) (703) 527-2000

WASHINGTON 9675 Sunset Highway Mercer Island 98040 (Seattle area) (206) 232-7770

SERVICE CENTERS

If your Kodak camera should require service, complete facilities are provided at the following Kodak Equipment Service Centers. For fastest service, send your camera to the Service Center nearest you.

9100 Alcosta Blvd., San Ramon, California 94583 12100 Rivera Road, Whittier, California 90606 5315 Peachtree Industrial Blvd., Chamblee, Georgia 30341 1122 Mapunapuna Street, Honolulu, Hawaii 96819 1901 West 22nd Street, Oak Brook, Illinois 60521 Route 130, P.O. Box 1334, Dayton, New Jersey 08810 800 Lee Road, Rochester, New York 14650 2800 Forest Lane, Dallas, Texas 75234

FULL ONE-YEAR WARRANTY

This Kodak camera is warranted by Kodak to function properly for one year from the date of purchase. Kodak makes no other express warranty for this camera. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Carefully read and follow the instructions in the manual to get good results and prevent damage to your camera.

If this Kodak camera does not function properly within one year after purchase, Kodak will repair it without charge. If Kodak is unable to repair it, the option of replacement or refund of the purchase price will be available. These remedies are not available if the camera is damaged by misuse or other circumstances beyond Kodak's control, or if the improper functioning of the camera is caused by failure to follow the care and operating instructions in the manual.

Repair, and the option of replacement or refund in the event that Kodak is unable to repair the camera, are Kodak's only obligations. Kodak will not be responsible for any consequential or incidental damages resulting from the sale or use of this camera, even if loss or damage is caused by the negligence or other fault of Kodak. (Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.)

For assistance in using this camera, contact a dealer in Kodak products or one of the Kodak Consumer Centers located in the United States. For service on this camera, return the camera through a dealer in Kodak products, one of the Kodak Equipment Service Centers listed on page 13, or a Kodak Consumer Center. Enclosing a note with the camera giving details of the problem and date of purchase will help Kodak return the camera promptly.



Consumer/Professional & Finishing Markets Rochester, New York 14650

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