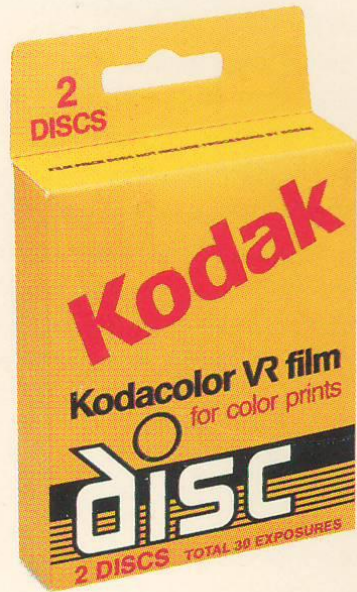


KODAK Film.
Because time goes by.



Consumer/Professional & Finishing Markets
Rochester, New York 14650



12-83-GEX
Pt. No. 633667

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How to Use the
KODAK disc 4100 Camera



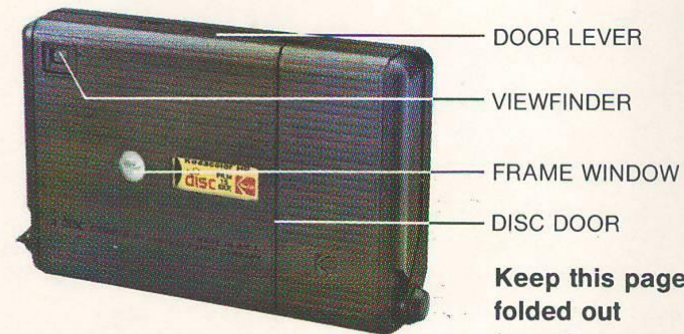
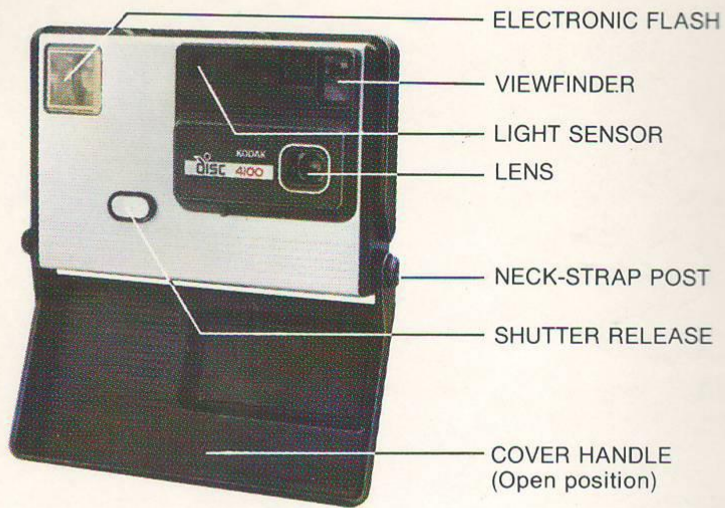
**Welcome to the exciting world
of disc photography!**

Your *KODAK* Disc Camera incorporates the latest in photographic technology. It lets you take pictures almost anywhere, in almost any kind of light.

In dimly lighted places—in living rooms, and outdoors in deep shade or at night—the built-in flash will fire automatically, letting you take pictures at distances up to 18 feet. Outdoors in daylight and in brighter scenes indoors—brightly lighted stage shows, sporting events, and offices—you can take pictures at virtually any distance beyond 4 feet.

This booklet will help you to take good pictures. Before you use your camera, please read these instructions, and then follow them closely. If you have questions about your camera, please write to Eastman Kodak Company, Photo Information, Department 841, Rochester, New York 14650. The warranty and instructions for obtaining service are at the back of this booklet.

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**Keep this page
folded out
for reference
as you read
the manual.**

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Equipment subject to minor appearance changes.

Store your camera and film away from heat and direct sunlight—not in the trunk, on the rear-window shelf, or in any other hot spot in a car.

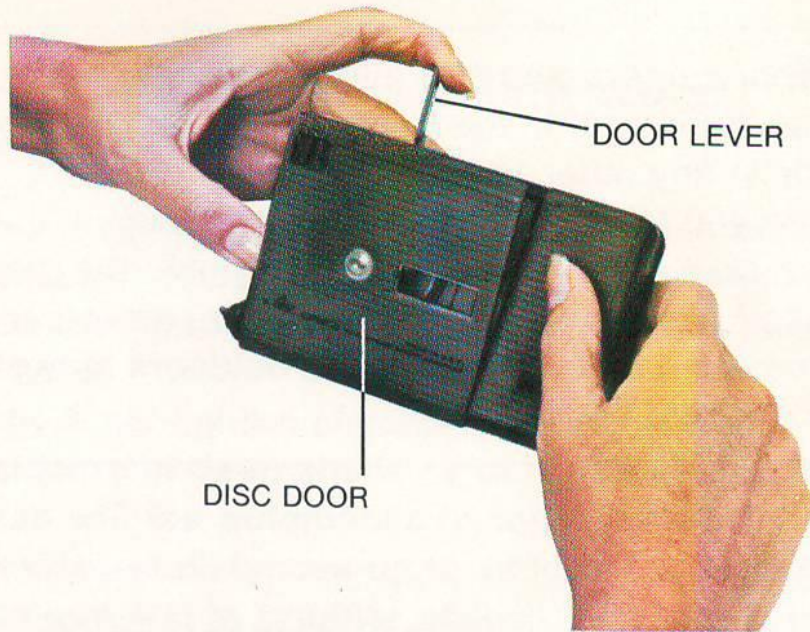
Before you take any especially important pictures, take some test pictures and have the disc processed. This will let you check your camera and your operation of it. Take pictures outdoors as well as indoors with flash.

NECK STRAP

Clip the neck strap onto the NECK-STRAP POST on the side of the camera.

POWER SOURCE

Your new disc camera contains a built-in long-life power source that powers the electronic flash, the automatic film advance, and the automatic exposure control. It is covered by the full five-year warranty. Do not attempt to disassemble this camera. If your camera won't operate, see the "Troubleshooting Guide" on page 13, and the warranty at the back of this manual.



LOADING THE FILM

Be sure that the COVER HANDLE is closed. Lift the DOOR LEVER to its fully open position, and open the DISC DOOR. *Be sure that the door lever is raised and latched in the upright position before inserting the film disc.* Then insert the disc as shown; it fits only the correct way.

Press the door as shown until the door lever snaps toward the closed position; then push the lever fully closed. **Do not push the door lever down while the disc door is open.**



TAKING PICTURES

1. Open the cover handle to its fully open position. *The camera will operate only with the cover handle open.* The disc will automatically advance to the No. 1 frame. After each picture, the disc will advance to the next frame. See the FRAME WINDOW on the back of the camera.
2. Be sure your subject is at least 4 feet from the camera.
3. Hold the camera up to your eye, and frame your subject within the luminous frame in the VIEWFINDER. The area that you see within the luminous frame will be included in your picture.

Horizontal.
CORRECT

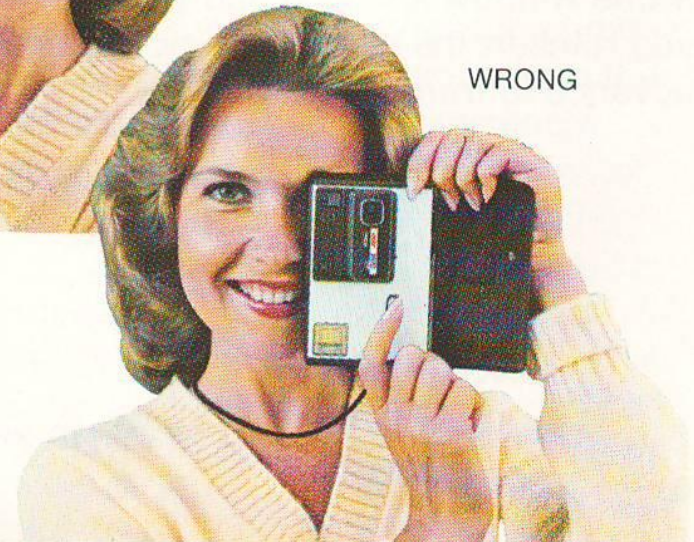


4. Use the cover handle to hold the camera firmly, **keeping your fingers away from the LENS and the ELECTRONIC FLASH.** When you take vertical pictures, **hold the camera with the flash at the top.** This produces more normal shadows on the subject, and helps prevent accidentally covering the flash with your fingers. See the illustrations below.

Vertical.
CORRECT



WRONG



5. Gently squeeze the SHUTTER RELEASE. If the flash is needed, it will fire automatically.
6. When you are finished taking pictures, close the cover handle to protect the lens and to prevent accidentally pressing the shutter release.

When you've taken 15 pictures, the camera will not operate. You'll see an X in the frame window. Close the cover handle firmly. Then raise the door lever to its fully open position, open the disc door, and remove the exposed disc. **To avoid fogging the film, be sure that the door lever stays in its fully open position as you remove the disc.**

Note: Do not remove the disc until you have taken all 15 pictures. If you remove and reinsert a partially used disc, one of the pictures will be lost. For example, if the frame window shows 8 and you remove the disc, when you reinsert the disc the camera will automatically advance to frame 9. Frame 8 will be skipped.



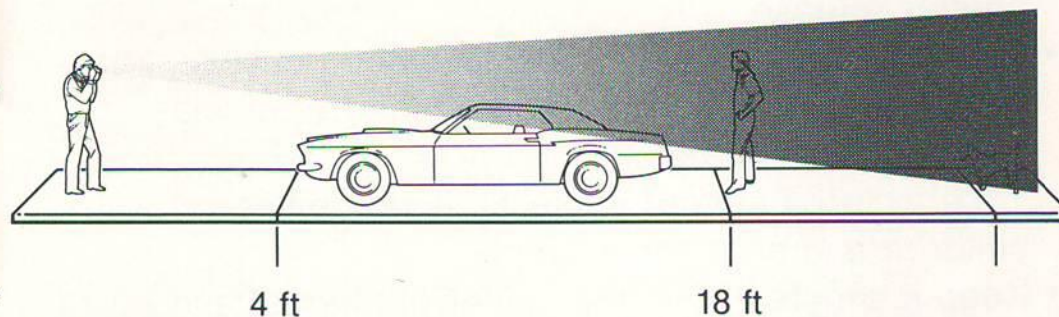
1 EXPOSURE LEFT



FULLY EXPOSED DISC

FLASH

In dimly lighted places—in living rooms, and outdoors in deep shade or at night—the flash distance range is approximately 4 to 18 feet.



In brighter scenes indoors—brightly lighted stage shows, sporting events, and offices—and outdoors in daylight, you can take pictures at virtually any distance beyond 4 feet.

Minimizing Eye Reflections

When you take flash pictures, people's eyes sometimes appear red. The red is produced by reflections from the retina of the eye. This effect is especially noticeable when your subject is young, has a light complexion, or has blue eyes—also when your subject is in a dimly lighted place. You can minimize these reflections by (1) turning on additional room lights, and (2) having your subject look directly at one of the room lights. This causes the pupils of the eyes to contract, reducing the reflections.

PHOTO TIPS

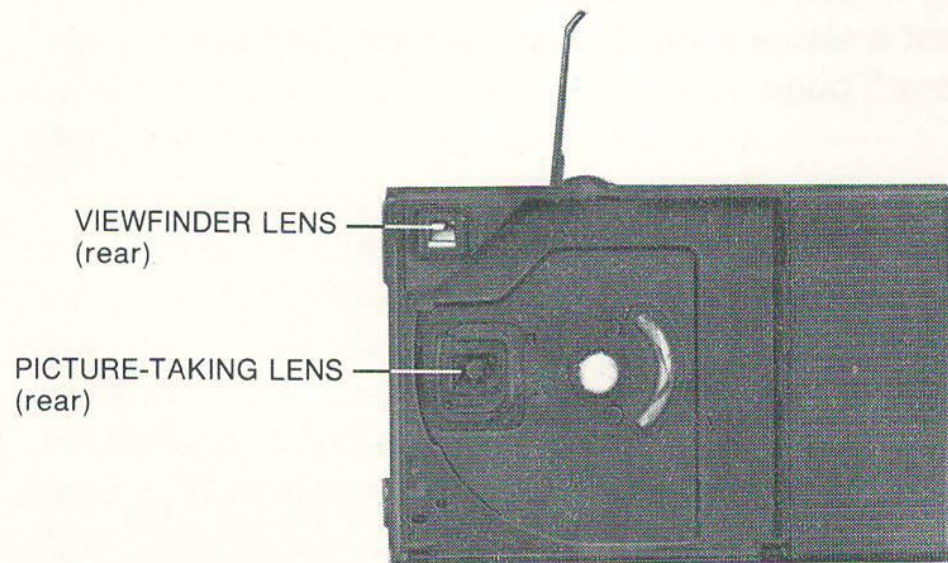
- Keep your camera steady. Stand still and grip the camera firmly with both hands while holding your elbows close to your body. **Gently** squeeze the shutter release.
- Take close-ups of your subjects when possible. Move in to a distance of 4 feet, and fill the frame with subjects such as people and pets.
- Take pictures at your subjects' level (lower for children and pets, for example).
- Keep it simple. Have one center of interest and avoid cluttered backgrounds.
- Keep your subjects busy. Have them do something natural rather than stand stiffly staring at the camera.
- Keep your fingers away from the flash. If your fingers block the flash, the light can't reach your subject, and your prints may be too dark.
- Indoors, place your subjects as far away from walls as possible. Subjects close to walls will cast dark shadows on the wall.
- Hold the camera so that the flash is at the top when you take vertical pictures. Shadows will appear above the subject when the flash is at the bottom. Also, you may cover the flash with your fingers if you hold the camera with the flash at the bottom.

- To minimize shadows around your subject, turn on extra room lights.
- Use fresh film, keep it cool, and process it as soon as possible after exposure.

CAMERA CARE

When you carry your camera in your pocket or purse, close the cover handle to protect the picture-taking lens. Always protect your camera from sand and dirt.

When necessary, clean the front and the back of the picture-taking lens and the viewfinder lenses by blowing away any dust or dirt. (You can clean the back of the picture-taking lens only when there is no film in the camera.) Then wipe the surface of the lens with a



Back of camera—disc door open.

cotton swab or a soft, clean, lintless cloth moistened with a lens cleaner, such as *KODAK* Lens Cleaner. Use a circular motion, beginning in the center of the lens and working out to the edges. If you don't have a lens cleaner, breathe on the lens to form a mist, and lightly wipe the mist away with a dry cotton swab. *Don't apply pressure, because you may scratch the lens.*

Important: Never wipe or rub a dry lens. Never use solvents or solutions not designed for cleaning camera lenses, and never use chemically treated tissues intended for eyeglasses.

WARNING: Do not disassemble or attempt to repair this camera. The voltages associated with the energy source in this camera can, under certain conditions, present a shock hazard. See "Service for Your Camera," page 11.

SERVICE FOR YOUR CAMERA

If you have questions about your camera or have difficulty in using it, carefully reread the section of this manual that pertains to the questions you have. **ESPECIALLY** be sure to check the "Troubleshooting Guide" that begins on page 13. *Since many cameras that are returned for repair do not need service, please carefully review this information.*

If you have a difficulty that isn't covered in the "Troubleshooting Guide":

Take your camera, the disc you were using, and any sample prints that show the problem to your photo dealer.

OR

Take your camera, disc, and prints to a Kodak Consumer Center if one is located near you. The addresses are listed on pages 16 and 17.

OR

Send a letter describing the problem to Eastman Kodak Company, Photo Information, Dept. 841, Rochester, New York 14650. Please enclose the problem disc and prints with your letter to help us in answering your questions, and be sure to specify the model of your camera. We'll give you help and return your disc and prints.

If your camera requires repair, you may send it through your photo dealer or directly to one of our Service Centers, listed on page 19. See the warranty on page 20.

Packing Instructions

1. Include a note with your camera giving all details: date and place of purchase and a description of the problem, as well as the disc and sample prints. If possible, include a telephone number where you can be reached between 8:00 a.m. and 5:00 p.m.
2. Place the camera in a plastic bag to keep out dirt and packing material.
3. Use a sturdy carton that is large enough for you to surround the camera completely with packing material such as crumpled newspaper.
4. Securely fasten the carton with tape. Clearly write the address of the Service Center and your name on the top and bottom of the carton.
5. Mail the carton to Kodak. It's a good idea to insure the camera to replacement value.

TROUBLESHOOTING GUIDE

What Happened	Probable Cause	Correction
Camera will not operate.	a. No film in camera. b. X shows in frame window. c. Disc door/door lever not fully closed. d. Energy source exhausted.	a. Load camera with disc. b. Disc fully exposed. Remove disc and install new one. c. Hold door firmly closed. Push door lever to fully closed position. d. See warranty on page 20.
Fuzzy pictures.	Camera too close to subject.	Stay at least 4 feet from subject.
Foggy, misty pictures; blotches, specks in pictures.	Dirty camera lens.	Clean lens; see page 9.

What Happened	Probable Cause	Correction
Black/dark picture or partial picture.	Hand or object covering lens or flash.	Keep hands and objects away from lens and flash.
Blank frame.	Film advanced without taking picture.	Don't raise and lower door lever unless you're loading film or removing exposed disc.
Light fog on frames 1 and 15.	Door lever moved during unloading of disc.	Be sure door lever always stays in fully open position during unloading.
Flash pictures too dark.	Flash too far from subject.	Subject should be 4 to 18 feet from flash in low-light situations.

What Happened	Probable Cause	Correction
Flash pictures too light.	Flash too close to subject.	Subject must be at least 4 feet from flash.
Flash fails to operate.	a. Scene too bright for flash. b. Camera in need of repair.	a. Check flash operation in dark; if it does not flash, see b, below. b. Return camera to Kodak; see page 12.
Subject not framed properly or partly cut off.	Improper use of viewfinder.	Frame subject as described on page 4.
Red reflections in subject's eyes.	Flash reflected back to camera lens.	Turn on additional room lights. See page 7.

KODAK CONSUMER CENTERS

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

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

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

FLORIDA

1001 Ponce de
Leon Boulevard
Coral Gables 33134
(Miami area)
(305) 444-1494

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

NEW JERSEY

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

NEW YORK

800 Lee Road
Rochester 14650
(716) 722-0670

TEXAS

2800 Forest Lane
Dallas 75234
(214) 241-1611

7020 Portwest Drive
Suite 160
Houston 77024
(713) 820-7700

VIRGINIA

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

TECHNICAL SPECIFICATIONS

Film Advance	Automatic—motorized.
Lens	12.5 mm <i>f</i> /2.8 4-element glass; cover handle—shutter release inoperative with cover handle closed.
Focus	Fixed—4 feet to infinity.
Film	<i>KODACOLOR</i> VR Disc Film.
Flash	Electronic; range 4 feet to 18 feet (or beyond if scenes are brightly lighted).
Exposure Control	Automatic 2-step: <i>f</i> /2.8 at 1/100 second (with flash) cycles at 1.0 second. <i>f</i> /6 at 1/200 second (without flash) cycles at 0.4 second.
Energy Source	Two 3-volt lithium cells. Free replacement during 5-year warranty; after warranty, replacement for nominal fee at Kodak Equipment Service Center.
Viewfinder	Projected reticle.

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.

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
800 Lee Road, Rochester, New York 14650
Campo Rico Ave. and 246th Street, Country Club,
Carolina, Puerto Rico 00630
2800 Forest Lane, Dallas, Texas 75234

FULL FIVE-YEAR WARRANTY

This Kodak camera is warranted by Kodak to function properly for five years 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 the best results and prevent damage to your camera.

If this camera does not function properly within the warranty period, 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, or its power cell, return the camera through a dealer in Kodak products or a Kodak Consumer Center, or directly to one of the Kodak Equipment Service Centers listed on page 19. Enclosing a note with the camera giving details of the problem and date of purchase will help Kodak return it promptly.

Note: After the 5-year warranty period the power cell can be replaced for a nominal fee at one of the Kodak Equipment Service Centers.