SPECTRA *PRO*

Polaroid



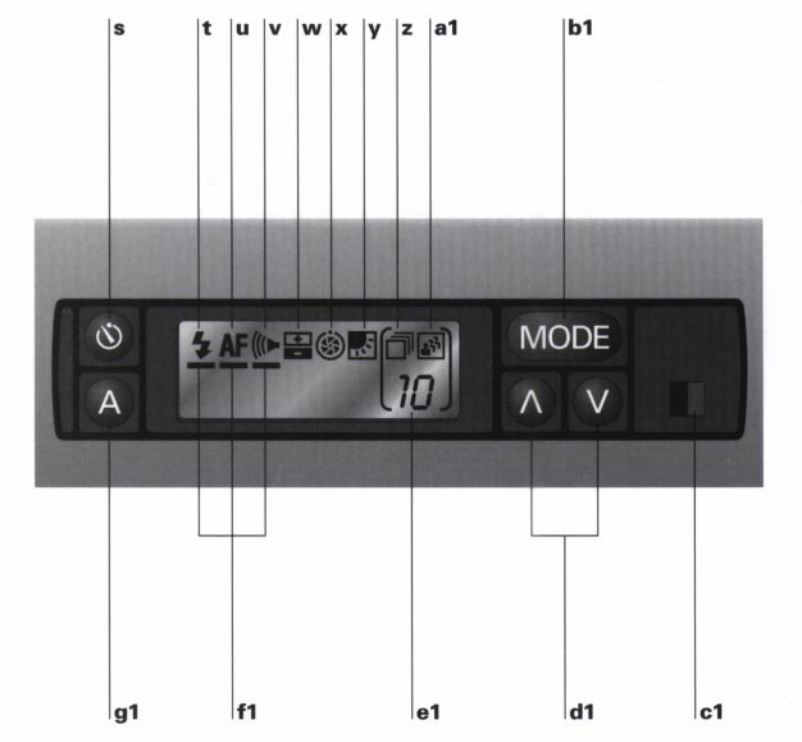


Multiple exposure

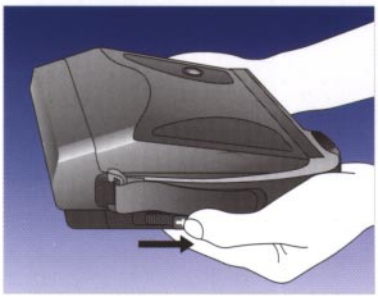
Camera parts



Control panel



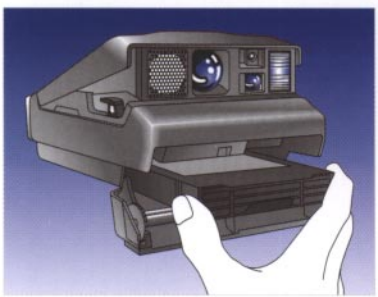
h1



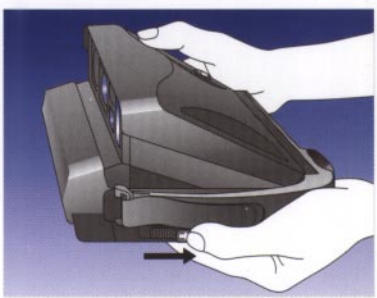
k1



i1



l1



j1



m1





Programmed time exposure - 30 seconds

The camera

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Throughout the text you will find letters that refer to illustrations on the fold-out pages.

Film

Use **only** Polaroid Spectra color film. Each film pack provides 10 color pictures and contains a battery that powers all camera functions.

Check the film expiration date on every film box to be sure the film is fresh.

Camera parts

a Sonar rangefinder (sends out sonar waves to measure distance to subject)

b Three-element, 125mm coated-glass lens

c Automatic shutter system -variable speed/aperture (speeds range from 1/245 of a second to 6 seconds; apertures from f/l0 to f/45)

d Self-timer indicator

e Electronic flash (from 1/3000 to 1/20,000 of a second)

f Film shade (protects picture from light as it ejects from the camera)

g Photocell (silicon photo-diodes measure light from the scene and from the flash)

h Film exit slot

i Film door

j Tripod socket (on bottom of camera)

k Film door release button

l Shutter button

m Control panel

n Liquid crystal display (shows picture-taking information. The display comes on when there is film in the camera. The display disappears about every 40 seconds. **Lightly** press the **MODE** or shutter button to make it reappear.)

o Viewfinder

p Neckstrap connector

q Release latch (to open and close camera)

r Hand strap

Control panel

s Self-timer button

t Electronic flash symbol

u Autofocus symbol

v Audio signals symbol

w Exposure adjustment symbol

x Time exposure symbol

y Backlighting symbol

z Sequential pictures symbol

a1 Multiple exposures symbol

b1 MODE button (press to select a feature)

c1 Green light (shows flash is ready)

d1 Control buttons (press them to turn each feature on or off, or to set the digital displays)

e1 Picture counter (counts down to show how many pictures remain in the film pack and is used with the sequential pictures and multiple exposures features)

f1 Indicator bar (shows that the feature above it is on)

g1 **A**uto reset button (always returns the camera to fully automatic operation: electronic flash, autofocus and audio signals)

This booklet describes the selection and use of each special feature individually, although most of the features may be used in combination with each other for creative picture-taking. You can turn the individual features on or off between pictures by pressing the **MODE** and control buttons.

Note: Closing and reopening the camera will **always** reset it for fully automatic operation.

If the display fails to react as expected when you press the control buttons, press the **A**uto reset button or close and reopen the camera to start again.

Open camera

Place both hands as shown **(h1)**. Slide the release latch back. The camera will open automatically.

Load film

Use only Polaroid Spectra film.

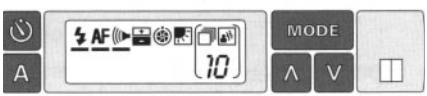
Push the film door release button down. The film door will open.

Hold the film pack by its edges only **(i1)** and slide it all the way into the camera.

As soon as you close the film door, the battery in the film pack will provide power to the camera and you will see:

- the film cover eject
- the liquid crystal display appear a green light indicating the flash is ready to fire.

The liquid crystal display should look like this:



If it does not, press the **A**uto reset button.

Note: The display disappears about every 40 seconds. **Lightly** press the **MODE** or shutter button to make it reappear.

Position subject

Indoors, your subject should be within the **2 to 15 foot** flash range and, for best results, near a light-colored background.

Outdoors, your subject should be **at least 2 feet** away.

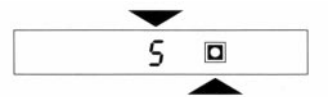
The viewfinder and liquid crystal displays will help you stay at the right distance.

Take picture

Slide your left hand through the hand strap and hold the camera as shown (**j1**) for horizontal pictures. For vertical pictures, see picture **k1**.

Frame your subject in the viewfinder and press the shutter button **halfway**. You should see:

The distance to your subject; for example:



A green "good picture" symbol.

To take the picture, press the shutter button the rest of the way.

When you release the button, the camera ejects the picture and the flash immediately recharges.

Note: If you have pressed the shutter button halfway and you wish to reposition your subject or yourself, **release the button**. Make the changes and press the shutter button halfway again.

To remove an empty film pack

After you have taken the 10th picture, you will hear 3 chimes to remind you to remove the empty film pack.

To remove the pack, push the film door release button down. Pull the film pack out by the colored tab.

When the camera contains an empty film pack

- you hear three chimes when you open the camera
- you hear three chimes and see a flashing zero in the viewfinder when you press the shutter button halfway and hold it.

To close camera

Hold the camera as shown (**l1**). Slide the release latch back. Push the cover down until both sides lock.

When you are not using to protect the lens.

Viewfinder displays

When you press the shutter button halfway, displays indicating distance and symbols for "good picture" or "caution" appear in the viewfinder.

When you see the green symbol  press the shutter button the rest of the way to take the picture.

When you hear a warning tone and see the flashing yellow caution symbol  your subject is either too close, too far, or the flash is turned off. For example, the display shows the yellow symbol and the distance 1:

- **your subject is too close.** Release the shutter button and stand at least 2 feet from your subject.

If the display shows the yellow symbol and a distance from **16 to 20***:

- **your subject is beyond the flash range.** Release the shutter button and position your subject within the **2 to 15 foot** flash range.

If the display shows the yellow symbol and a distance from 2 to 15:

- your subject is within range, but **the flash is off**. Press the **A**uto reset button to turn the flash on.

*When your subject is beyond 20 feet, the distance display is blank.

Autofocus system

When you press the shutter button, sonar waves (at frequencies beyond our range of hearing) are sent to the **central part** of the scene. A built-in computer measures the time it takes the sonar waves to reach the scene and the echo to return. This measurement is used to provide the correct lens setting.

- **Be sure the sonar waves have a clear path to your subject.** If an object near the central part of the scene prevents the sonar waves from reaching your subject, the lens focuses on that object, causing your subject to be unsharp.
- When photographing more than one person, focus and illumination are improved if **everyone is at about the same distance from the camera**.

You can turn off the autofocus system to focus manually. See *Manual focusing*.

Audio signals

Your camera has three audio signals: a **warning tone** when the "caution" symbol appears in the viewfinder, **beeps** that signal the self-timer countdown, and **chimes** that tell you the film pack is empty.

To turn off the audio signals:

1 Press the **MODE** button until you see only the audio signals symbol:



2 Press the **up** (△) or **down** (▽) **control** button **once** to remove the indicator bar and turn the signals off:



3 Press the **MODE** button **once** to return to the full display. You can now take a picture:



To return the camera to fully automatic operation, press the **A**uto reset button.

Electronic flash

The flash automatically begins to charge every time you

- load film into the camera, or
- press the shutter button halfway, or
- take a picture, or
- open the camera.

When the green light comes on, the flash is ready to fire. The light will stay on for 20 to 30 seconds.

If you wish to take a picture and the green light has gone off, press the shutter button **halfway** or press the **MODE** button. You can take the picture when the green light comes on again.

The electronic flash is designed to be used for every picture - indoors and outdoors.

Every time you take a picture, your camera's built-in electronic flash blends light from the scene with just enough flash to give you the best possible picture.

In bright sunlight, your camera blends the sunlight with just the right amount of flash to soften shadows and to reveal the facial details you expect to see in the picture.

In the shade, the flash automatically supplies the additional light needed to produce a pleasing photograph.

Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

In low light (at dusk, in the shade, etc.), the shutter can stay open for as long as 6 seconds after the flash has fired, and camera movement can cause the picture to be unsharp.

Hold the camera steady or place it on a firm support.

Flash range

Indoors: 2 to 15 feet.

Outdoors: Your subject should be at **least 2 feet** from the camera.

Self-timer

To use this feature, place the camera on a tripod or other steady support. If you attach the camera to a **table** tripod, be sure the camera is positioned over the tripod's longest leg for proper support.

Frame your picture in the viewfinder and press the shutter button **halfway** to be sure you get the green "good picture" symbol. Then **release** the shutter button.

Press the self-timer button on the back of control button once to turn on the lighten the camera. You now have **12 seconds** to get into your picture.

During the first **10 seconds**, the camera will beep and you will see a flashing red light on the front of the camera.

Two seconds before the camera takes the picture, the red light will stay on and the beeps will become a steady signal.

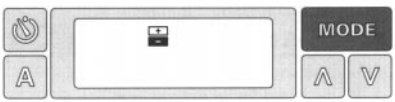
If you want to stop the 12-second countdown, press either the **A**uto reset button or the self-timer button.

Exposure adjustment control

Use this feature when you want to **retake** a picture to make it lighter or darker.

To do this:

1 Press the **MODE** button until you see only the lighten/darken symbol:



2 To **lighten** a picture, press the **up** (△) **control** button **once** to turn on the lighten setting:

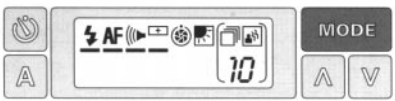


Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

3 To darken a picture, press the down (▽) control button once to turn on the darken setting:



4 When you have selected the setting you want, press the MODE button once to return to the full display. You can now retake a picture to make it lighter **(A)** or darker **(B)**:



A



B

To return the camera to fully automatic operation, press the **A**uto reset button.

Important: If the **background** of a **flash** picture is too dark but your subject is well illuminated, the background is too far away.

To correct this problem, **do not** use the **lighten** setting. Instead, press the **A**uto reset button and retake the picture. Place your subject **near a background** and remember to keep both within the 2 to 15 foot flash range.

Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

Photographing in natural light

To eliminate flash glare and to take advantage of natural light situations, you can turn off the flash when taking pictures indoors or outdoors.

To turn the flash off:

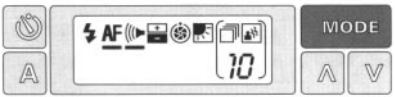
1 Press the **MODE** button until you see only the electronic flash symbol:



2 Press the **up** (△) or **down** (▽) **control** button **once** to remove the indicator bar and turn off the flash:



3 Press the **MODE** button **once** to return to the full display. You can now press the shutter button to take a non-flash picture:



To return the camera to fully automatic operation, press the **A**uto reset button.

Manual focusing

You can turn off the autofocus system and program the distance to your subject by using the manual focusing feature. This allows you to photograph through glass, screens, and fences. When you shoot through glass, you may wish to **turn off the flash** to eliminate glare. See *Photographing in natural light*.

To use this feature:

1 Measure the distance to your subject.

2 Press the **MODE** button until you see only the autofocus symbol:



Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

3 Press the **up** (△) or **down** (▽) **control** button **once** to remove the indicator bar and turn off the autofocus system:



4 Press the **MODE** button **once.** The number 5 will start flashing:



You must now set the distance to your subject.

5 If the focusing distance you want is less than 5 feet away, press the **down** (▽) **control** button. The distance decreases in .1 foot increments down to 2 feet.

If the distance you want is greater than 5 feet, press the **up** (△) **control** button. The distance increases in one-half foot (.5) increments up to 10 feet. The infinity symbol ∞FT, appears after the number 24. Select this symbol when the subject or scene is more than 24 feet away.

6 When the distance you want is displayed (for example, 14 feet), press the **MODE** button **once** to return to the full display. You can now press the shutter button to take the picture:



To return the camera to fully automatic operation, press the **A**uto reset button.

Time exposures

The camera can make **automatic** time exposures of up to 6 seconds, depending on lighting conditions. You can also **program** the shutter to stay open from 1 second up to 2 minutes. You can also make a manual exposure up to 2 minutes long by pressing the shutter button to control the time the shutter stays open.

Programmed and manual time exposures are described in the next section. You may want to use these features to photograph fireworks displays, sunrises and sunsets, lighthouse beacons at night, colorful holiday and amusement park lights, moonlit oceans, city skylines at night, and more.

Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

For time exposures, the camera **must** be placed on a steady support, such as a tripod.

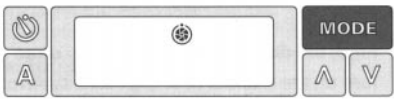
Turn the flash off for better time-exposed photographs.

Programmed time exposures

With this feature, you can program the shutter to stay open, from 1 second up to 2 minutes, to record time exposures.

To program a exposure:

1 Press the **MODE** button until you see only the time exposure symbol:



2 Press the **up** (△) **control** button **once** to turn on the programmed time exposure system:



3 Press the **MODE** button **once**. The :01 second display will start flashing:

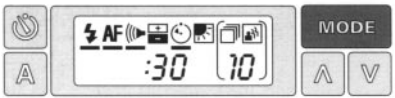


4 You must now decide how long you want the exposure to be.

When you press the **up** (△) **control** button, the time will increase in 1 second increments up to 2 minutes. When you press the **down** (▽) **control** button, the time will decrease in 1 second increments.

Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

5 When the time you want is displayed (for example, 30 seconds), press the **MODE** button **once** to return to the full display. You can now press the shutter button to take the picture:



If you wish to interrupt the preset time exposure in order to shorten the exposure time, press the self-timer button.The shutter will close and the picture will automatically eject.

To return the camera to fully automatic operation, press the **A**uto reset button.

Manual time exposures

You can control the time the shutter stays open by pressing the shutter button down for up to 2 minutes when using the manual time exposure feature.

Place the camera on a **very** steady support and frame your subject.

To take a manual time exposure:

1 Press the **MODE** button until you see only the time exposure symbol:

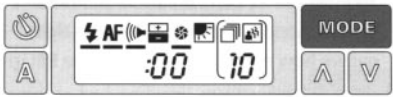


2 Press the **down** (▽) **control** button **once** to turn on the manual time exposure system:



Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

3 Press the **MODE** button **once** to return to the full display:



4 Press the shutter button and keep it down to control the time the shutter stays open. You will know how much time has elapsed by watching the digital display. When the time you want has elapsed, release the shutter button. The camera will eject the picture.

To return the camera to fully automatic operation, press the **A**uto reset button.

Backlighting

The flash **must** be **on** when this feature is used.

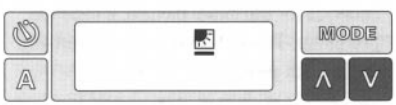
Since a backlit subject can appear too dark in the picture, your camera is programmed to fire just enough flash to illuminate the front of your subject. For best results, your subject should not be further than 6 feet from the camera.

To use this feature:

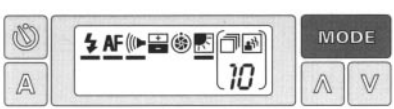
1 Press the **MODE** button until you see only the backlighting symbol:



2 Press the **up** (△) or **down** (▽) **control** button **once** to turn on the feature:



3 Press the **MODE** button **once** to return to the full display. You can now press the shutter button to take the picture:



To return the camera to fully automatic operation, press the **A**uto reset button.

Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

Sequential pictures

The camera allows you to take a series of pictures at various time intervals from 3 seconds to 19.9 minutes. Two types of sequential pictures are possible: self-timed sequential pictures and variable sequential pictures. Both are described below.

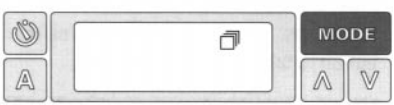
The number of pictures you can take is automatically limited to the number of pictures left in the film pack.

Self-timed sequential pictures

These pictures are programmed for 12 seconds for the initial picture, 6 seconds thereafter. The self-timer signals alert you when each picture will be taken.

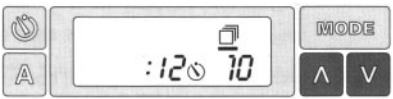
To take self-timed sequential pictures:

1 Press the **MODE** button until you see only the sequential pictures symbol:



2 Press the **up** (△) or **down** (▽) **control** button **once** to turn on the feature.

You will see 12 seconds and a self-timer symbol appear. The number to the right shows how many pictures you have left in the film pack:



3 Press the **MODE** button **once**. The 12 second display will start flashing:



Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

4 Select the 12 second setting by pressing the **MODE** button **once** again. The number of **pictures left in the film pack** will start flashing:



5 If the number of pictures left in the film pack is the number of pictures you want to take, press the **MODE** button **once**. If you want to take fewer pictures, press the **down** (▽) **control** button. When the number you want is displayed (for example, 4) press the **MODE** button **once** to return to the full display:



6 Be sure your subject is correctly framed in the viewfinder. Now press and release the shutter button. The camera will automatically begin taking the series of pictures.

If you wish to interrupt the series, press the self-timer button.

To return the camera to fully automatic operation, press the **A**uto reset button.

Note: When you use the 12 second setting to get into the picture, 12 seconds will pass before the first picture is taken. The time between the other pictures will be only 6 seconds. The camera will beep and the red indicator on the front of the camera will flash as described in the section the Se/f-timer

Variable sequential pictures

This feature allows you to preset the camera to whatever interval you want. For example, you can take 4 pictures and program the camera to take them 30 seconds apart with one press of the shutter button.

To take variable sequential pictures:

1 Press the **MODE** button until you see only the sequential pictures symbol:



Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

2 Press the **up** (△) or **down** (▽) **control** button **once** to turn on the feature.

You will see 12 seconds and a self-timer symbol appear. The number to the right shows how many pictures you have left in the film pack:



3 Press the **MODE** button **once**. The 12 second display will start flashing:



You must now program when the camera will take each picture.

To increase the time, press the **up** (△) **control** button. The time increases in 1 second increments up to 2 minutes. The time increases in tenths of a minute from 2 to 19.9 minutes.

If you want less than 12 seconds, press the **down** (▽) **control** button. The time decreases in 1 second increments down to 3 seconds.

If, for example, you choose 30 seconds, 30 seconds passes before each picture is taken, including the first picture.

4 When you have selected the time you want (for example, 30 seconds), press the **MODE** button **once**.

The number of **pictures left in the film pack** will start flashing:



Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

5 If the number of pictures left in the film pack is the number of pictures you want to take, press the **MODE** button **once**. If you want to take fewer pictures, press the **down** (▽) **control** button. When the number you want is displayed (for example, 4), press the **MODE** button **once** to return to the full display:



6 Be sure your subject is correctly framed in the viewfinder. Now press and release the shutter button. The camera will automatically begin taking the series of pictures.

If you wish to interrupt the series, press the self-timer button.

To return the camera to fully automatic operation, press the **A**uto reset button.

Multiple exposures

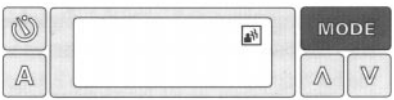
With this feature, you can take up to 5 exposures on the same piece of film. For best results, place your subject in front of a simple, dark background.

When making a double exposure, you may wish to place your subject first to the left in the viewfinder, make the exposure, then place the subject to the right in the viewfinder and make the second exposure.

Note: The battery power may not be sufficient to take 5 flash exposures on all 10 pictures in the film pack for a total of 50 flashes.

To take multiple exposures:

1 Press the **MODE** button until you see only the multiple exposure symbol:



2 Press the **up** (△) or **down** (▽) **control** button **once** to turn on the feature:



Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

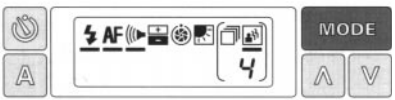
3 Press the **MODE** button **once**. The number 2 will start flashing:



4 You must now decide how many exposures you want to make.

If you want to make 2 exposures, press the **MODE** button **once** more. The number 2 will stop flashing and the camera will return to the full display. You can now make 2 exposures.

If you want to take more than 2 exposures, press the **up** (△) **control** button to increase the exposures to 3,4, or 5. Press the **MODE** button **once** to return to the full display.



5 Frame your picture in the viewfinder and press the shutter button to make the first exposure. The film stays in the camera and the digital display shows how many exposures you have left to take.

Note: You can make changes (such as exposure adjustments, flash on or off, etc.) before each additional exposure.

Frame the next image in the viewfinder and press the shutter button again. Do this for each exposure. The camera will eject the picture after you take the last exposure.

To return the camera to fully automatic operation, press the **A**uto reset button.

Caution: This camera is battery-operated. Closely supervise children when camera is operated by them or used in their presence. To prevent electrical shock, camera should not be exposed to or immersed in water or other fluids, disassembled, or operated if dropped or damaged. For repair information, contact a Polaroid Service Center.

Note: *The display disappears about every 40 seconds.* ***Lightly*** *press the* ***MODE*** *or shutter button to make it reappear.*

Bright light sources

If your subject is placed in front of a window in daylight, the camera's photocell measures the bright light, causing your subject to be too dark in the picture. Use the backlighting feature to illuminate your subject without changing the entire exposure.

When a bright source of light (lamplight, candlelight, etc.) is in the central part of the scene and in front of the subject, the photocell measures the bright light, causing the subject to be too dark. Move the source of light to one side of your subject.

Temperature

For better colors, avoid extreme temperatures. When the temperature is below 55°F (13°C), keep the camera and film warm. Above 95'°F (35°C), keep the camera and film as cool as possible.

Avoid storing camera or film in hot places. Keep developing pictures away from hot surfaces. As the picture develops, its image area is dry because the development process takes place inside the film. It is important not to bend the developing picture during this process.

Developer rollers

The developer rollers inside the film door (**i**) must be kept clean to avoid repeated spots or bar patterns on the pictures. Clean the rollers with a damp, lint-free cloth.

Lens

To remove fingerprints, breathe on the lens and wipe it gently with a clean, soft facial tissue. Do not use silicone-treated eyeglass tissue.

Helpful hints for using the camera's special features

Programmed time exposures

To create the illusion of motion in your pictures when photographing at night: Place the camera on a steady support, turn off the flash, and program the exposure time for 2-5 seconds. The lights of moving cars will appear as streaks of light in your picture.

To take a portrait by candlelight: Turn off the flash. We suggest programming the exposure time from 5 to 10 seconds. The resulting portrait will be warm and pleasing.

To photograph home interiors in average light: Turn off the flash and start with a programmed time exposure of 1 second.

To photograph floodlit buildings, fountains or monuments: Start with a programmed time exposure of 2 seconds.

To photograph through glass or window screens: Turn off the flash to reduce unwanted reflections in your picture. If the subject is well beyond the glass or screen, use the manual focusing feature as well.

To photograph a nearby subject against a scenic background at dusk, sunrise or sunset: Use flash to illuminate your subject properly. A timed exposure of about 2 seconds will give correct exposure of the background.

Manual time exposures

To photograph fireworks: Use the manual time exposure feature. Press and hold the shutter button from the time the fireworks go up until they burst in the sky.

Sequential pictures

To obtain multiple images of the same scene: Use the self-timed sequential pictures feature for group portraits when you wish to obtain several photographs of the same scene with one press of the shutter button. This feature allows you to be included in the portrait.

Multiple exposures

To take multiple exposures on the piece of film: It may be helpful to set the same exposure control towards darken, especially if the background is not dark enough.

Note: Avoid subject movement while taking pictures.

Full lifetime warranty

If this camera proves to be defective, we will, at your option either replace or repair it without charge for as long as you own the camera (original owners only). See Your warranty options. This warranty does not cover damage caused by accident, misuse, or tampering with the camera, and a charge will be made for such repairs. To obtain warranty service, please call Polaroid toll-free at 1-800-343-5000, or write to the Polaroid Customer Care Center, 201 Burlington Road, Bedford, MA 01730.

This warranty gives you specific rights, and you may also have other rights which vary from state to state. This warranty excludes all consequential damages. Some states do not allow the exclusion of consequential damages so the foregoing exclusion may not apply to you.

Your warranty options

Replacement: You can choose to receive a replacement camera at no charge. If the failure occurs within 90 days of the purchase date, you can return the camera to any participating Polaroid dealer and you will receive a new camera. If the failure occurs after that period, call Polaroid at the toll-free number listed and we will ship you a refurbished camera of equal or better value. Replacement will be made 3-5 business days from the *receipt* of your camera.

Repair: Call the number listed for the address of the nearest authorized Polaroid repair location. Please allow 5 to 7 days from the receipt of your camera for the repair. The repaired camera will be returned to you along with a reimbursement of your postage cost. This warranty applies to new cameras purchased in retail stores in the U.S.A.

For information and help

If you are unable to get good pictures, review this instruction book.

Picture problems are often due to incorrect use of the camera. If you need further help, and before you return your camera for repair, please see your dealer or contact the nearest Polaroid office.

If you write, please explain the nature of the problem and, if possible, enclose sample pictures. Include your return address.

Accessories

The accessories listed add to the versatility of your camera and to your enjoyment of your photographs.

For information on these and other accessories, please contact your dealer or the nearest Polaroid office.

Light Lock Close-Up Lens

The Polaroid Light Lock Non-Contacting Close-Up Lens fits all Polaroid Spectra cameras. The lens lets you take photographs at 10 inches without making contact with the object being photographed.

The lens attaches easily and securely to the front of the camera and lets you take pictures that are 50 percent the size of the actual object (5 to 1).

Close-Up Lens F112

With the Polaroid Close-Up Lens, you can photograph objects 10 inches from the camera. The lens attaches easily to the front of the camera and produces a picture that shows an object at half its actual size,

Close-Up Stand

The Polaroid Close-Up Stand is designed for use with all Polaroid Spectra cameras to produce close-up photographs of small objects and printed materials such as stamps, coins or jewelry. The magnification is approximately 1:1.

PhotoFile

Holds 20 Polaroid Spectra photographs.

Specifications

Aperture/shutter system:
Apertures: from f/l0 to f/45. Shutter speeds: from 1/245 to 6 seconds in Auto mode.

Camera size:
Length: 6.34 inches
Width: 5.63 inches
Height: 2.96 inches closed;
3.81 inches opened.

Camera weight:
1 lb, 12 1/2 oz., without a film pack.

Film advance:
Automatic film advance; motorized picture ejection.

Film size:
Outer border: 4 x 4.06 inches.
Image area: 3.60 x 2.90 inches.

Film speed:
IS0 600/29° (approx.)

Film type:
Polaroid Spectra color film.
Starts developing in seconds.
Ten pictures per pack.

Lens:
Patented Quintic, three element, 125mm coated glass lens system. Ten zone focusing from 2 feet to infinity.

Liquid crystal display:
Features: automatic/manual distance focusing; automatic program for manual time exposures; backlighting feature; sequential series of pictures; multiple exposures on one print; on/off flash and audio signals; exposure adjustment feature.

Photocell:
Dual-filter, silicon photodiodes. Green filtered cell measures visible light; black filtered cell measures infrared light for better indoor flash exposures.

Power source:
A fresh, 6-volt battery in each film pack powers all camera functions.

Programmed flash:
Built-in fill flash designed to be used indoors and outdoors.
Recharge time: from 0.1 to 2.8 sets
Flash duration: from 1/3000 to 1/20,000 of a second.
Indoor flash range: from 2 to 15 feet.

Self-timer:
Built-in self-timer; blinking LED and signal time the 12-second countdown.

Sonar autofocus system:
Computerized autofocus system uses sonar waves to accurately measure the distance to your subject and set the lens. Sonar ranging time: from 10 to 50 thousandths of a second.

Viewfinder:
100% viewing (no parallax) at 6 feet - a popular picture-taking distance. Six lenses, two prisms, and four mirrors provide sharp, clear viewing. Viewfinder magnification: 0.5x (subjects appear half life-size).

Viewfinder display:
Display includes a digital read-out in feet and a yellow “caution” or green “good picture” symbol.