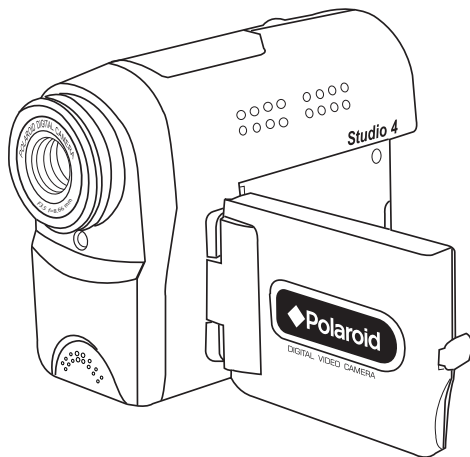




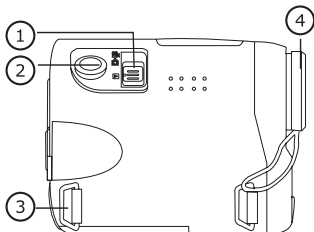
Studio 4

Digital Video Camera User Guide



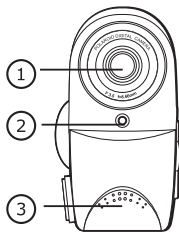
Product Overview

1. Capture/Playback selector
2. Shutter button
3. Hand strap eyelet
4. Lens cap



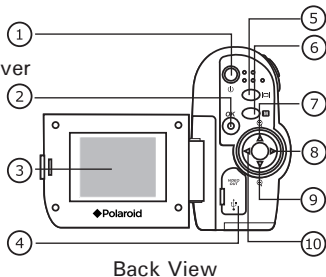
Side View

-
1. Lens
 2. Status LED
 3. Microphone



Front View

1. Power On/Off button
2. OK button
3. LCD screen
4. Video output terminal & USB port cover
5. Display On/Off button
6. Menu button
7. Up/Zoom in button
8. Right button
9. Down/Zoom out button
10. Left button



-
1. Tripod mount
 2. SD card slot door
 3. Battery door

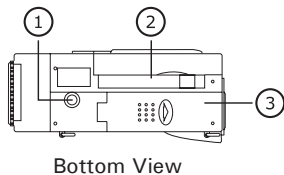


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1 Getting Started

• What can I Do with My Camera?

Capture



Enjoy point & shoot operation. Store pictures and video clips on the internal memory or a SD Card.

Setup



Select various camera settings.

• What can I Do with My Digital Pictures?

View



View pictures on a computer using PhotoImpression or on a TV.

Save



Save pictures to the computer memory by Mass Storage interface.

Communicate



Send pictures over the Internet to family and friends.

• What can I Do with My Video Clips?

Playback



Playback video clips with audio feature on a computer using the Window Media Play or a TV.

Save



Save video clips with audio feature to the computer memory by Mass Storage interface.

Communicate



Send the video clips with audio feature over the Internet to family and friends.

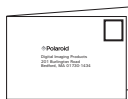
• Camera Package Contents



Polaroid Studio 4



Quick Guide



Registration Card



Video Cable



The CD-ROM includes
Polaroid Studio 4 Camera Driver (PC)
ArcSoft® PhotImpression™ 5.0 (PC & Mac)
ArcSoft® ShowBiz DVD 1.3 (PC)
Adobe® Acrobat® Reader (PC & Mac)
QuickTime Player (Mac)
DivX (PC)
DivX Doctor II (Mac)
User Guide (in PDF Format)



2 x AA Batteries



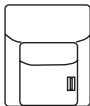
Hand Strap



USB Cable



Tripod



Pouch

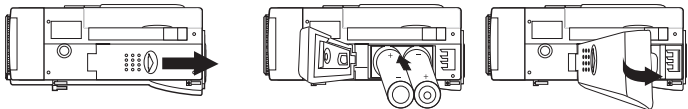


Lens Cap with Strap

• Installing the Batteries

Two AA batteries are supplied with the product. For a detailed guideline on battery usage, please see “Using your batteries” on page 74.

1. Open the camera battery door by pushing it outwards as illustrated.
2. Insert the batteries as shown, ensuring you follow the +/– signs correctly.
3. Close the battery door by pressing it downwards and then sliding it towards the camera to lock.



IMPORTANT NOTE:

For best performance and prolonged battery life, we recommend the use of AA lithium or rechargeable NiMH.

• Turning the Camera On and Off

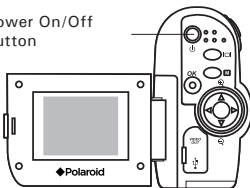
Pull left to open the LCD screen panel. Fully press and hold the Power On/Off button until the LCD screen is on. Press the Power On/Off button again to turn off the camera.



NOTE:

Check and make sure that the date and time are correct after switching on the camera, especially when the batteries are kept in the battery compartment for a period of time (like over a month or so), or when the batteries are removed from the camera for over a week. For a detailed guideline on date and time adjustment, see “Setting the Current Date and Time” on page 16.

Power On/Off
button




• Checking the Battery Power Level

Check the battery power level before taking pictures.

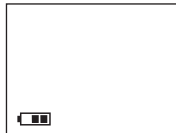
1. Turn on the camera.
2. Check the battery power level that appears on the LCD screen.

 Battery power is full.

 Battery power is adequate.


 Battery power is low.

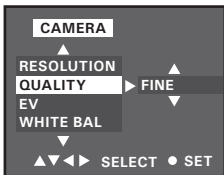
 Battery power is exhausted.



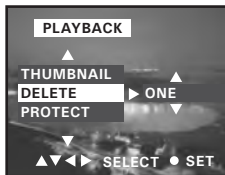
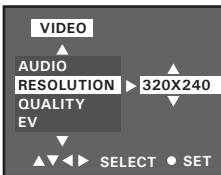
• How to Navigate Menus

Menus are used to adjust capture and play settings, as well as other camera settings like the date/time and auto power off.



1. In the Capture or Playback mode, press the  button to enter the CAMERA, VIDEO or PLAYBACK menu and press it again to exit.



Capture Mode







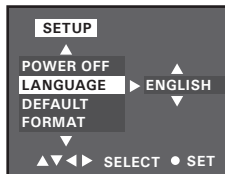
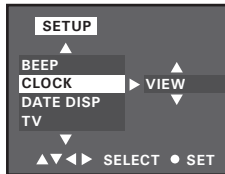
Playback Mode

In the Playback mode, press the  button to enter the SETUP menu. Press the  button to exit.

2. Press the  or  button to select a menu item. Press the  button to enter the submenu.

Press the  button to return to the menu.

3. Press the  or  button to select the desired setting.
4. Press the  button to confirm.
4. Press the  button to close the menu.



2 Camera Setting

• Checking Camera Status

Open the LCD panel. Turn on the camera, view the camera LCD screen to check which camera settings are active. If the feature icon is not displayed, it means that particular feature is not activated.

Still Image mode

The diagram shows a camera's LCD screen with various settings and their corresponding icons. The screen displays a landscape image with the following information overlaid: a camera icon, a white balance icon (AI), a self-timer icon (a circle with a slash), resolution (640X480), a counter (0002), quality (three stars), a zoom status (X2.3), a battery level indicator, a time display (17:00), and a date display (01. 19. 2005). Lines connect these elements to their respective labels in the surrounding text.

White balance

- Auto* (AI icon)
- Daylight (Sun icon)
- Tungsten (Light bulb icon)
- Fluorescent (Fluorescent tube icon)
- Cloudy (Cloud icon)

Capture mode

- Still Image (Camera icon)
- Video* (Video camera icon)

SD card inserted (SD card icon)

Battery power level

- Full (Full battery icon)
- Adequate (Medium battery icon)
- Low (Low battery icon)
- Exhausted (Exhausted battery icon)

Image resolution

- 640 x 480
- 1280 x 960
- 1600 x 1200
- 2048 x 1536*

Number of remaining pictures (0002)

Quality

- ★★★ Fine*
- ★★ Normal
- ★ Economic

Current time (17:00)

Current date (01. 19. 2005)

Digital zoom status (X2.3)

Self-timer on (Self-timer icon)

* Default setting

Video mode

Video mode

White balance

- Auto*
- Daylight
- Tungsten
- Fluorescent
- Cloudy



Resolution
320 x 240
640 x 480*

Remaining Time

Quality
★★★ Fine*
★★ Normal


* Default setting

Playback mode

Playback mode

File type

- Picture
- Video clip



Total number / File number

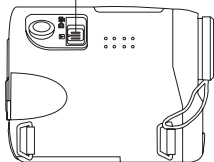
Locked file

Play indicator

• Camera Modes

The camera has two working modes, Capture mode and Playback mode. You can switch between them by pushing the Capture/Playback selector upwards or downwards.

Capture/Playback
selector



Capture Mode


Under this mode, you can select the image and video settings according to the shooting environment, and take pictures and video clips under the settings you have selected. For more details, please refer to “Taking Pictures” on page 26 and “Recording Video Clips” on page 35.

Playback mode

This mode allows the review or deletion of pictures and video clips from the camera. For more details, please refer to “Reviewing and Managing Pictures and Video Clips” on page 41.

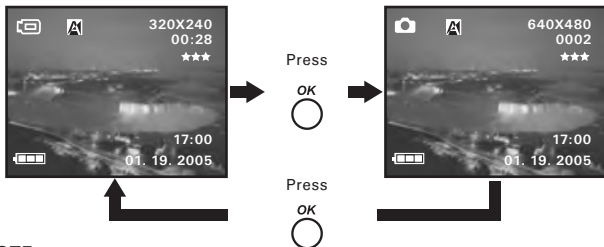
• Drive Mode


The camera has two modes for taking pictures and video clips.

 Still Image mode













 Video mode

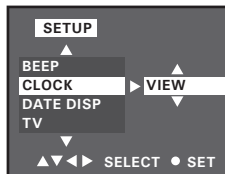
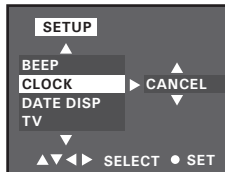
You may switch between these two modes according to the following steps.



 **NOTE:** Video mode is the default capture mode.







• Setting the Current Date and Time

1. Set the camera to Playback mode.
2. Press the  button.
3. Press the  or  button to select "CLOCK".
4. Press the  button.
5. Press the  or  button to select "VIEW".
6. Press the  button.
7. Press the  or  button to adjust the value in the field.
8. Press the  or  button to switch to the next field.
9. Press the  button.





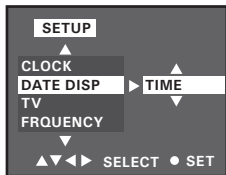
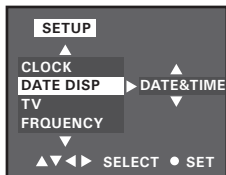
• Setting Date/Time Display On/Off

Date and time are displayed on the LCD screen by default. You can hide one or both of them by the following steps.

1. Set the camera to Playback mode.
2. Press the  button.
3. Press the  or  button to select "DATE DISP".
4. Press the  button.
5. Press the  or  button to select the desired setting.

You can choose either time or date to only display the item you have selected or you can select "CANCEL" to turn off this feature.

6. Press the  button.
7. Press the  button.











• Auto Power Save Settings

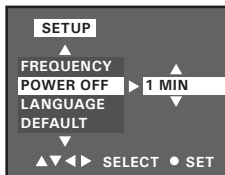
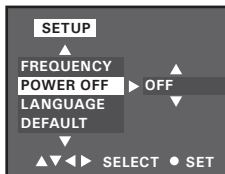
The camera performs the following power save operations to conserve battery power.

OFF The power save feature is not activated.

1/3/5 MIN The camera is designed to switch off automatically to save battery life after the specified period of inactivity.

You can change the power save setting according to the following steps:

1. Set the camera to Playback mode.
2. Press the  button.
3. Press the  or  button to select "POWER OFF".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.











NOTE:

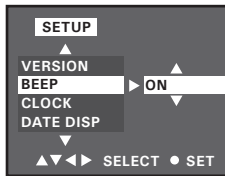
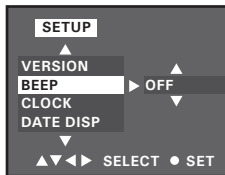
Auto power off is automatically disabled under any one of the following conditions.

- While recording a video clip.
- While the camera's USB port is connected to a computer or other external devices, or while the camera is being controlled by an external device.

• Setting the Beep Sound On/Off

When the beep sound is turned on, the camera will beep when you press the buttons.


1. Set the camera to Playback mode.
2. Press the  button.
3. Press the  or  button to select "BEEP".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.



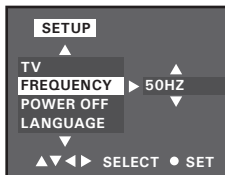
• Setting Frequency

In order to take a better indoor picture, the camera needs to be set to suit the correct lighting frequency. Set the frequency to 60Hz for US, 50Hz for Europe and Asia.



1. Set the camera to Playback mode.


2. Press the  button.

3. Press the  or  button to select "FREQUENCY".

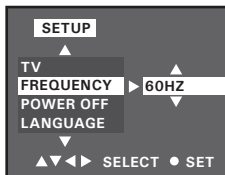


4. Press the  button.

5. Press the  or  button to select the desired setting.









6. Press the  button.

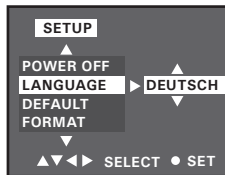
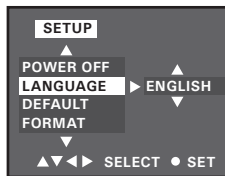
7. Press the  button.



• Setting Display Language

Under this setting, you can select the language you prefer for the LCD screen.

1. Set the camera to Playback mode.
2. Press the  button.
3. Press the  or  button to select "LANGUAGE".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.




• Resetting to Default Settings

You can easily change all the settings you made back to the camera default settings by the following steps.

Please refer to “Camera Default Settings” on page 74 for more details.


1. Set the camera to Playback mode.

2. Press the  button.

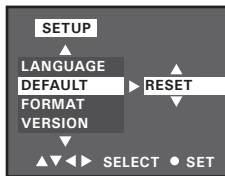
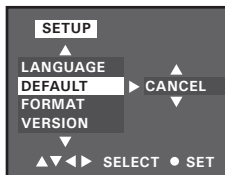
3. Press the  or  button to select “DEFAULT”.

4. Press the  button.

5. Press the  or  button to select “RESET”.












6. Press the  button.

7. Press the  button.



• Formatting the Internal Memory

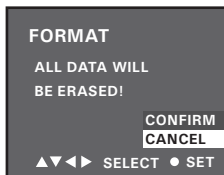
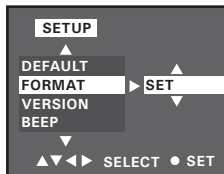
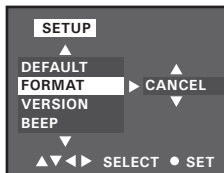
Formatting the internal memory deletes all data already stored in it.

1. Set the camera to Playback mode.
2. Press the  button.
3. Press the  or  button to select "FORMAT".
4. Press the  button.
5. Press the  or  button to select "SET".
6. Press the  button.
7. Press the  or  button to select the desired setting.
8. Press the  button.
9. Press the  button.



NOTE:


- Data deleted by a format operation cannot be recovered. Make sure you do not have any useful data currently stored in the internal memory before you format it.
- Formatting the internal memory destroys all the pictures, even those are protected.
- With a memory card inserted, the above operation would format the inserted memory card only. The internal memory will not be formatted with a memory card inserted.



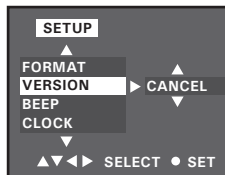
• Viewing Firmware Version

The camera's firmware version can be viewed for maintenance or upgrade.

1. Set the camera to Playback mode.

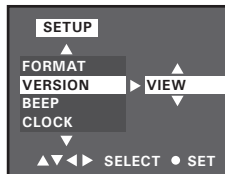
2. Press the  button.


3. Press the  or  button to select "VERSION".




4. Press the  button.

5. Press the  or  button to select "VIEW".




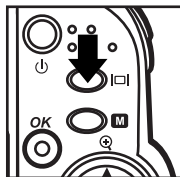
6. Press the  button.

7. Press the  button.

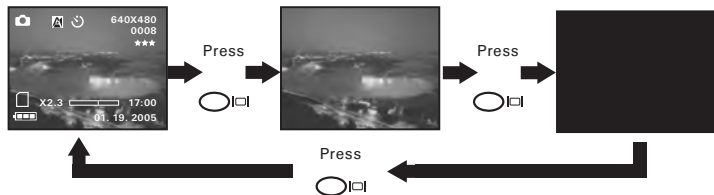
8. Press the  button.

• Turning the Information Display and the LCD Screen On/Off

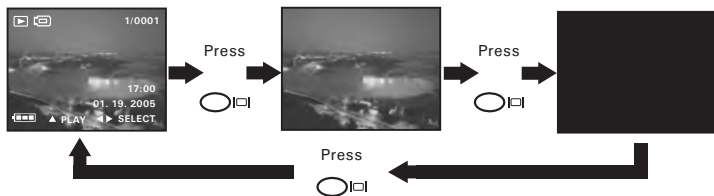
Pressing the  button each time switches the LCD screen to the next display mode in the following sequence.



Capture mode



Playback mode



3 Taking Pictures

Before you take pictures, please read this note first:



IMPORTANT!

- Never remove batteries while a picture is being saved. Doing so will prevent the current picture from being saved and may corrupt other pictures already stored in the camera's internal memory or on the memory card.
- Change the drive mode from Video mode to Still Image mode before taking pictures, since Video mode is the default capture mode. Please refer to "Drive Mode" on page 15 for more details.

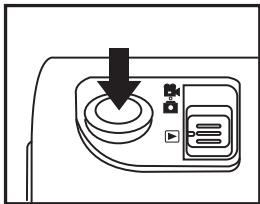
Outdoor Pictures

- Avoid intense sunlight that may cause sun spots in pictures.
- Always make sure that the sun or other light source is in front of the subject.
- For best results, take pictures outdoors or indoors in a brightly lit room.

• Taking a Picture

Taking pictures at approximately 3.2 ft to infinity (1.0 m to infinity).

1. Set the camera to Still Image mode.
2. Frame your subject using the LCD screen.
3. Hold the camera steady. Press the shutter button completely down to take a picture. A beep will sound (if the beep sound is turned on) when a picture is taken.












NOTE:

Image quality may vary if it is taken under dark lighting conditions.

• Setting Self-timer

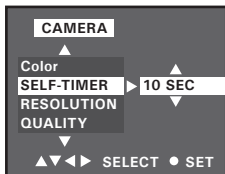
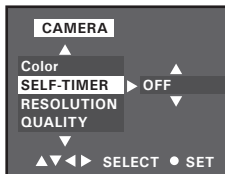
Your camera is designed with a self-timer function, which allows you to take pictures with a 10-second built-in timer.

1. Set the camera to Still Image mode.
2. Press the  button.
3. Press the  or  button to select "SELF-TIMER".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.
8. The icon  will appear on the LCD screen.



NOTE:

To disable the self-timer function, repeat the above steps and select "OFF".



9. Frame your subject using the LCD screen.
10. Press the shutter button to take a picture. A beep will sound (if it is turned on) and the Status LED will blink slowly for 6 seconds, then quickly for 4 seconds before the picture is taken.

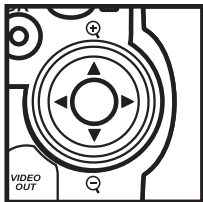
**NOTE:**

- Place the camera on a flat surface or use a tripod when using the self-timer function.
- This setting is also available in Video mode.

• Zoom Feature

Your camera is designed with 12X digital zoom. This feature lets you zoom in on the central area of a photo or portion of the video scene, and records only that enlarged portion.

1. Set the camera to Still Image mode or Video mode.
2. Press the ▲ button to zoom in. Press the ▼ button to zoom out. The zoom status is shown on the LCD screen.









**NOTE:**

- You may notice a decrease in image quality when using the digital zoom.
- The digital zoom function is not available for reviewing a video clip.

• Setting Image Resolution and Quality

Picture resolution refers to the number of pixels in a digital picture. Picture quality depends on the JPEG file compression that the camera applies when the picture is taken. Higher resolution and less compression produces better quality but occupies more memory space. Smaller size pictures and normal quality are easier to email while larger size and fine quality are better for printing.

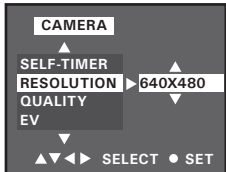
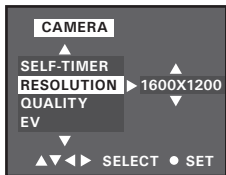
Resolution Setting

1. Set the camera to Still Image mode.
2. Press the  button.
3. Press the  or  button to select "RESOLUTION".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.











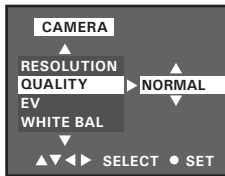
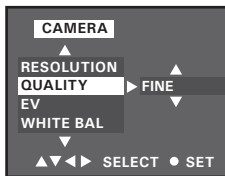
NOTE:

It is recommended to use the 2048 x 1536 resolution for printing.






Quality Setting

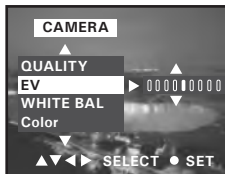
1. Set the camera to Still Image mode.
2. Press the  button.
3. Press the  or  button to select "QUALITY".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.








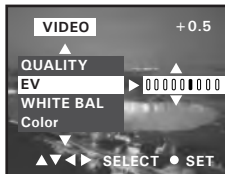
• Setting Exposure Compensation

You can adjust the exposure compensation value (EV) within the range of -2EV to +2EV in order to compensate for current lighting conditions. This setting can be used to obtain better result when shooting with backlighting, indirect indoor lighting, a dark background, and so on.

1. Set the camera to Still Image mode.
2. Press the  button.
3. Press the  or  button to select "EV".



4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.











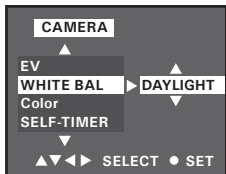
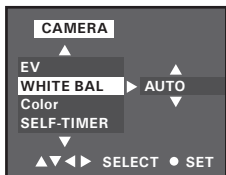
NOTE:






- A higher EV value is best for light-colored subjects and backlit subjects. A lower EV value is best for dark-colored subjects.
- When shooting under very dark or very bright conditions, you may not be able to obtain satisfactory results even after performing exposure compensation.
- This setting is also available in Video mode.

• Setting the White Balance

Selecting the right type of white balance can help to make the color of a subject appear more natural under the type of lighting that is available.

1. Set the camera to Still Image mode.
2. Press the  button.
3. Press the  or  button to select "WHITE BAL".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.



When shooting under these conditions:	Select this setting	Icons shown on LCD
Automatic adjustment	AUTO	
Outdoor daylight	DAYLIGHT	
Indoors, illuminated by light bulbs	TUNGSTEN	
Indoors, illuminated by fluorescent lighting	FLUORESCENT	
Cloudy	CLOUDY	











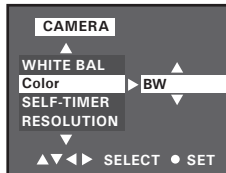
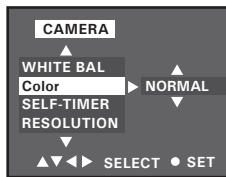
NOTE:

This setting is also available in Video mode.


• Setting Photo Effect

You can control the color tones and moods of a picture in this setting.

1. Set the camera to Still Image mode.
2. Press the  button.
3. Press the  or  button to select “Color”.
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.



- NORMAL For taking pictures with neutral hues.
SEPIA For taking pictures with a brown and antique look.
BW For taking black-and-white pictures.

 **NOTE:**
This setting is also available in Video mode.

4 Recording Video Clips

• Recording Video Clips

Use the Video mode to record video clips with audio. The elapsed time on the LCD screen increases while recording.

1. Set the camera to Video mode.
2. Frame your subject using the LCD screen.
3. Press the shutter button completely down to start recording.
4. Press the shutter button again to stop recording, or recording stops when the current memory is full.













NOTE:

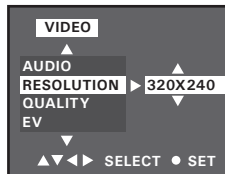
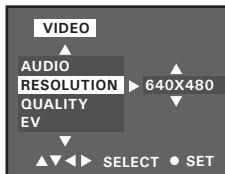
- Pictures and video clips can be taken in the dark environment but their quality may be affected slightly or greatly.
- For best results, take videos outdoors or indoors in a brightly lit room.

• Setting Video Resolution and Quality









Video resolution refers to the number of pixels in a digital video clip. Video clip quality depends on the file resolution that the camera applies when the video clip is recorded. Higher resolution makes better quality which occupies more memory space.

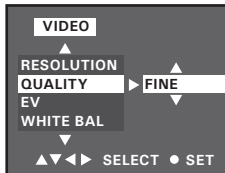
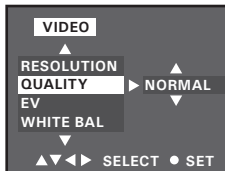
Resolution Setting

1. Set the camera to Video mode.
2. Press the   button.
3. Press the  or  button to select "RESOLUTION".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the   button.











Quality Setting

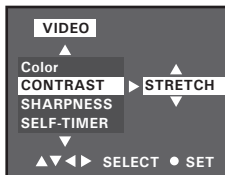
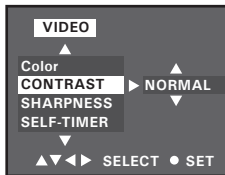
1. Set the camera to Video mode.
2. Press the  button.
3. Press the  or  button to select "QUALITY".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.



• Adjusting the Brightness Contrast

Brightness controls the amount of lightness or darkness in an image. Increasing contrast increases the difference in brightness between lighter or darker pixels.

1. Set the camera to Video mode.
2. Press the  button.
3. Press the  or  button to select "CONTRAST".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.











NORMAL
STRETCH

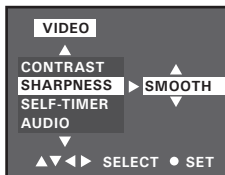
Use it when no contrast enhancement is needed.

Enhancing the brightness contrast sharpens an image and makes specific areas stand out.

• Setting Sharpness

Use the sharpness setting to highlight or blend the edges of the subject in pictures.









1. Set the camera to Video mode.
2. Press the  button.
3. Press the  or  button to select "SHARPNESS".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.

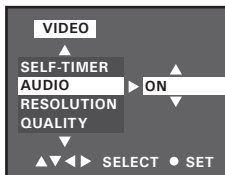


NORMAL	Use when no special effect is needed. Ideal for everyday pictures.
SMOOTH	Softens the edges of the picture, creating a "soft focus" effect.
SHARPEN	Increases contrast on the edges of the picture. Ideal when you want to improve the clarity of a picture, or if you later may want to crop or cut out specific areas in the picture.

• Setting Audio Recording On/Off

When taking video clips, the audio sound is recorded simultaneously. You can disable the audio recording if desired.

1. Set the camera to Video mode.
2. Press the  button.
3. Press the  or  button to select "AUDIO".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.



5 Reviewing and Managing Pictures and Video Clips




NOTE:

Change the camera mode from Capture mode to Playback mode before reviewing pictures and video clips. Please refer to “Camera Modes” on page 14 for more details.

• Reviewing Pictures on the LCD Screen

1. Set the camera to Playback mode.
2. Press the ◀ or ▶ buttons to view the pictures taken.


The  icon is shown on the LCD screen when a picture is selected.











The currently displayed picture can be magnified up to 12 times using the ▲ button. Press the ▼ button to view the picture in the original size.

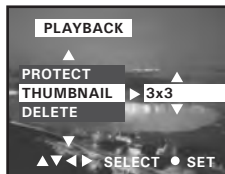
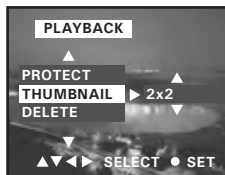
• Reviewing Picture and Video Clip Files in Thumbnail

You can view up to 16 picture and video clip files at a time on the LCD screen by using the Thumbnail function.

1. Set the camera to Playback mode.
2. Press the ▼ button. Thumbnail files will be shown on the LCD screen and the last reviewed picture will be highlighted.
3. Press the ▲, ▼, ◀ and ▶ button to select a thumbnail file and view it in full screen by pressing the  button.

Selecting Thumbnail Display Format

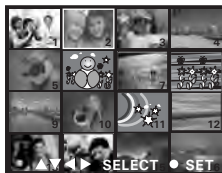
1. Set the camera to Playback mode.
2. Press the  button.
3. Press the  or  button to select "THUMBNAIL".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.



2 x 2




3 x 3





4 x 4

• Playing the Video Clip

1. Set the camera to Playback mode.
2. Press the ◀ or ▶ button to select the video clip you want to play.







The  icon is shown on LCD screen when a video clip is selected.

3. Press the ▲ button to start playing video clip. Press it again to pause.
4. Press the  button to stop.


- ▲ Start and pause playing a video clip
-  Stop playing a video clip
- ◀ Rewind
- ▶ Fast forward





• Protect or Unprotect Picture(s) or Video Clip(s)

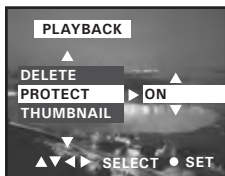
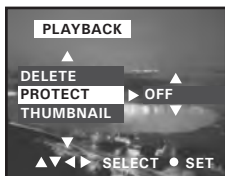
1. Set the camera to Playback mode.
2. Press the  button.
3. Press the  or  button to select "PROTECT".
4. Press the  button.
5. Press the  or  button to select the desired setting.

ON	Protect the selected picture or video clip
OFF	Remove protection from the selected picture or video clip
ALL ON	Protect all pictures and video clips in the current memory
ALL OFF	Remove protection from all of the pictures and video clips











The  icon appears on the information display when you review the protection status of the protected picture or video clip.

NOTE:

To protect one picture or video clip, use the  or  button to select the one you want to protect before the above operation.





• Delete Picture(s) or Video Clip(s)

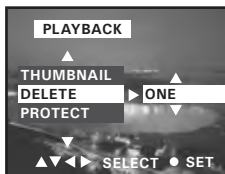
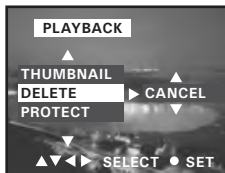
1. Set the camera to Playback mode.
2. Press the  button.
3. Press the  or  button to select "DELETE".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  or  button to select the desired setting.
8. Press the  button.

You may cancel the deletion by choosing "CANCEL".



NOTE:

- To delete one picture or video clip, use the  or  button to select the one you want to delete before the above operation.
- Protected files cannot be deleted. Remove protection before deleting.
- All deleted picture and video clips cannot be recovered.











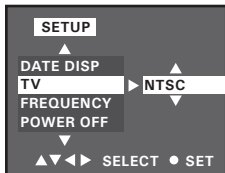
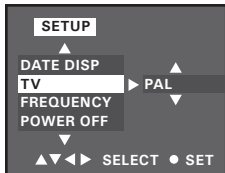
• View Pictures and Video Clips on a TV

Setting the Video Output System

The video output signal (NTSC or PAL) can be switched to accommodate different signal systems. For example: NTSC for USA, Canada, Taiwan, Japan, etc. and PAL for Europe, Asia (excluding Taiwan), and so on.

You can change the video output system according to the following steps:

1. Set the camera to Playback mode.
2. Press the  button.
3. Press the  or  button to select "TV".
4. Press the  button.
5. Press the  or  button to select the desired setting.
6. Press the  button.
7. Press the  button.



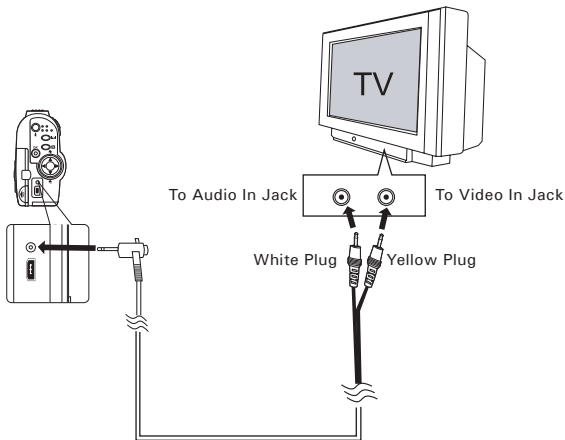
Connecting to a TV

"NTSC" or "PAL" can be selected when the camera is connected to a TV. The TV screen now performs as the LCD screen and the LCD screen is powered off.

1. Connect the camera to a TV via the video cable (supplied) as illustrated.
2. When the camera is set to Still Image mode or Video mode, you can preview the picture you want to take on the TV screen.
3. When the camera is set to Playback mode, you can review all pictures and video clips in the camera on the TV.

NOTE:

When playing the pictures or video clips on the TV, its color may be over-saturated. Manually adjust the color setting on the TV for best color effect.



6 Using the SD (Secure Digital) Card

• Using the SD card

Your camera comes with a 16 MB built-in flash memory for storing pictures and video clips. You can expand the memory using a commercially available SD card (up to 1GB). The camera senses whether a memory card is inserted, and automatically saves pictures and video clips accordingly. Note that you cannot save pictures or video clips to the built-in flash memory while a memory card is installed in the camera.



NOTE:

As tests prove, the Studio 4 works best with 32MB to 512MB SD memory cards. Consider using these cards for best performance.

Memory Card Precautions

1. Use only an SD memory card with this camera.
2. Electrostatic charge, electrical noise, and other phenomena can cause data corruption or even loss. Always make sure you back up important data on other media (MO disc, computer hard drive, etc.).
3. If a memory card starts to behave abnormally, you can restore normal operation by reformatting it. However, we recommend that you always take along more than one memory card whenever using the camera away from the home or office.
4. We recommend that you format a memory card before using it for the first time after purchasing it, or whenever the card you are using seems to be the cause of abnormal pictures. Remember to format a memory card if it was used in another digital camera or other devices.

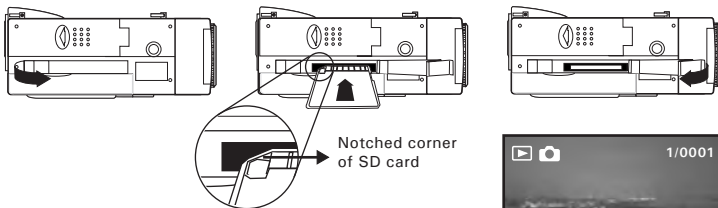



IMPORTANT!

- Make sure you turn off the camera before inserting or removing a memory card.
- Be sure to orient the card correctly when inserting it. Never try to force a memory card into the slot when you feel resistance.
- SD memory cards have a write protection switch that you can use to protect files from accidental deletion. However, you must remove the write protection whenever you want to record new files onto it, format it, or delete its files.
- **Files contained in the SD card recorded by other cameras may conflict with the Studio 4 camera, and valuable data in your existing SD card may be distorted or lost when the card is inserted in the Studio 4 camera. We strongly recommend the user to use a NEW or formatted SD card for the Studio 4 camera. The manufacturer is not liable for losing or corrupting any valuable data or files in your SD card due to your improper operation.**
- **As tests prove, the Studio 4 works best with popular brands of memory cards such as SanDisk, Panasonic, Lexar and TOSHIBA. Consider using these cards for best performance.**

Inserting the SD Card

Turn off the camera and open the SD card slot door as illustrated. Insert the SD card, ensuring that the card is inserted the correct position as illustrated. Close the card slot door before using the camera.

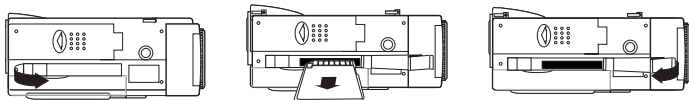


The  icon will appear on the LCD screen when an SD card is inserted into the camera.



Removing the SD Card

To remove the SD card, turn off camera and open the SD card slot door. Gently use your finger to push the SD card inwards and then release it for the SD card to bounce out of the SD card slot as illustrated.



IMPORTANT!

- Never insert any other object into the camera's SD card slot. Doing so creates the risk of damage to the camera and card.
- Should water or any foreign objects ever get into the card slot, immediately turn off the camera, remove the batteries and contact your dealer or nearest service provider.
- Never remove a card from the camera while the camera is powered on. Doing so can cause the picture or video recording operation to fail, and even damage the memory card.

Formatting the SD Card

Formatting the SD card erases all files stored in it, including the protected ones. Removing the SD card during formatting may damage the card.

1. Insert an SD card into the camera card slot.
2. Turn on the camera.
3. Procedures are the same as for formatting the internal memory. Refer to "Formatting the Internal Memory" on page 23 for details.



IMPORTANT!

- You can format a memory card on the camera or on a computer. However formatting a memory card on a computer takes much longer.
- Note that data deleted by a format operation cannot be recovered. Make sure you do not have any useful data currently stored on a memory card before you format it.

7 Installing the Software onto a Computer

• Installing the Software

For Windows® Users:

PC



IMPORTANT!

MAKE SURE YOU INSTALL ALL THE SOFTWARE FROM THE CD SUPPLIED BEFORE YOU CONNECT YOUR CAMERA TO A COMPUTER AND TRANSFER PICTURES FROM YOUR CAMERA TO THE COMPUTER.



IMPORTANT! (For Windows® 98SE)

On Windows® 98SE Mass Storage function needs to install the Studio 4 Driver. After the installation, please restart the Windows before connecting the camera to the PC.



IMPORTANT! (For Windows® Me, 2000, XP)

Directly plug-in the camera to transfer and play the pictures. No need to install the driver.



IMPORTANT!

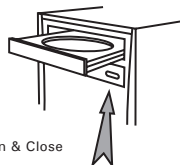
To view the video clips it is recommended to install the Arcsoft ShowBiz 1.3. It can be found in the CD.



IMPORTANT!

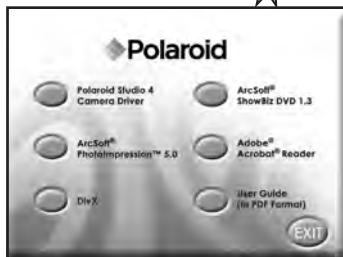
To play the video clips (AVI format), it is necessary to install the DivX from the CD supplied.

1. Before you begin, close all other software applications open on your computer.
2. Insert the CD supplied into the computer CD-ROM Drive.
3. The CD User Interface Screen will automatically launch.
4. With the mouse, click on each software interface button in turn and follow the on screen instructions.



 **NOTE:**

If the setup screen does not appear after loading the CD, then you can manually start it by double clicking the "My Computer" icon on your desktop, then double clicking the icon for the CD-ROM drive. When the CD-ROM window opens, double click the "INSTALL-E.EXE" icon.



For Macintosh Users:

Mac

 **IMPORTANT!**

To play the video clips (AVI format), it is necessary to install the DivX Doctor II from the CD supplied.

 **IMPORTANT!**

To view the video clips it is recommended to install the QuickTime Player. It can be found in the CD.

• Software Included with Your Camera

The Studio 4 software CD contains the following software:

Polaroid Studio 4 Camera Driver *Plug & Play removable disk*

Easy to use, just plug the camera to a computer and use it as a removable disk. Use the ArcSoft® Photolmpression™ 5.0 to edit and print the Pictures.

ArcSoft Photolmpression™ 5.0 *Picture Editing Software*

ArcSoft Photolmpression™ is an easy to use image-editing program. This program enables users to upload still image and movie clips stored in your camera. You could also edit and retouch your photos, then add special effects or place them in cards, calendars, frames and fantasy templates. ArcSoft Photolmpression™ also includes a wide variety of printing options.

ArcSoft ShowBiz 1.3 *Movie Making Software*

ArcSoft ShowBiz 1.3 is an easy-to-use program that has everything you need to capture your home movies and create your own DVDs to share with friends or send to customers. It includes tools for editing your video footage, customizing DVD menus, and designing DVD photo slideshows!

Adobe® Acrobat® Reader .PDF File Reading Software

Adobe® Acrobat® Reader lets you view and print Adobe Portable Document format (PDF) files on all major computer platforms, as well as fill in and submit Adobe PDF forms online.

DivX®/DivX® Doctor II *Advanced Digital Media Format*

DivX lets you play, create and share digital video by turning bulky videos into lean, mean DivX files. The DivX® codec (short for compressor/decompressor) can compress video to a convenient size without losing any noticeable quality and play those videos back on almost any device.

QuickTime Player *Media Playing Software (Mac Only)*

The QuickTime Player is an easy-to-use application for playing, interacting with or viewing any video, audio, VR, or graphic file that is compatible with QuickTime.

• Computer System Requirements

For acceptable picture transferring and editing performance, we recommend the following minimum requirements;

For Windows® Users

PC

- Compatible with Microsoft® Windows® 98SE, Me, 2000 or XP
- Pentium® III 800MHz or equivalent processor
- USB Port
- 128MB RAM (512MB recommended)
- 400MB free disk space
- Color monitor with high color (16-bit) graphic capability or higher
- CD-ROM drive
- Standard mouse and keyboard
- Stereo speakers
- DivX

For Macintosh Users

Mac

- Mac® OS Version 9.2 ~ X
- PowerMac G3 or higher
- USB Port
- 256MB RAM
- 400MB Free disk space
- Color monitor with high color (16-bit) graphic capability or higher
- CD-ROM drive
- Standard mouse and keyboard
- Stereo speakers
- DivX Doctor II

8 Transferring Pictures and Video Clips To Your Computer

• Before Transferring Files



IMPORTANT! - FOR PC USERS

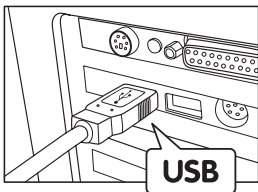
BEFORE YOU CONNECT YOUR DIGITAL CAMERA TO THE COMPUTER, MAKE SURE THAT YOU HAVE INSTALLED THE SOFTWARE FROM THE ENCLOSED CD. PLEASE REFER TO "7 Installing the Software onto a Computer".

For Windows® Users:

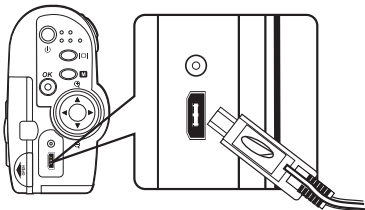
PC

• Connecting to Your Computer


Connecting with the USB Cable.



USB Series "A" plug
connects to your computer



USB Series "Mini B" plug
connects to your camera

1. Open the LCD screen panel and turn on the camera.
2. Plug USB Series "A" plug into the socket marked  on your computer.
3. Plug USB Series "Mini B" plug into the USB port on your camera.

• Transferring Pictures and Video Clips to PC

1. Open the LCD screen panel and turn on the camera.
2. Connect the camera to a computer via the USB cable.
3. Double click on "My Computer" icon on your desktop and then you can see a "Removable Disk" drive.
4. Double click "Removable Disk" -> double click "DCIM"-> double click "100MEDIA".
5. All the pictures and video clips are in the "100MEDIA" folder. Highlight the pictures or video clips and drag them to a folder of your choice. You can also create sub-folders to group them or use the ArcSoft software to edit and manage the pictures.

• Transferring the Pictures and Video Clips to Mac



NOTE:

For Mac user, directly plug-in the camera, no need to install the driver.

1. Open the LCD screen panel and turn on the camera.
2. Set the camera to Playback mode.
3. Connect the camera to a computer via the USB cable, the systems will automatically recognize the MASS STORAGE drive named "Unlabled".



NOTE:

This Drive name will vary on different versions of Mac OS systems.

4. Double click the folder "Unlabled" to enter sub-folder "DCIM".
5. Double click the folder "DCIM" and then any sub folder inside.
6. You can copy the pictures and video clips from this directory folder and paste them to the hard disk.

- **PhotoImpression 5.0 Hot Plug Function (PC Only)**

PhotoImpression 5.0 will detect the connection between the camera and the computer automatically.

When connect the camera to the computer, PhotoImpression 5.0 will launch on your desktop automatically.



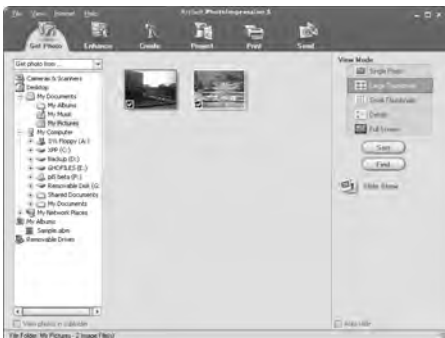
PhotoImpression 5.0 will detect any new photos in the camera. Click "OK" button to start the copying new photos to the computer.



You can select the destination which the photos are copied to. Click the “folder” icon - > Browse for folder - > Click the “OK” button to confirm. Click “OK” to start copying.




The photos have been copied to the computer successfully. You can start to use the PhotoImpression 5.0 to edit the photos.



9 Troubleshooting Problem

• Troubleshooting

The troubleshooting guide is designed to help you. If problems continue, please call your local customer support hot-line. See your registration card for hot line contact details.

Symptom	Problem	Solution
I receive an error message when I am installing Polaroid Studio 4 Camera Driver.	Polaroid Studio 4 Camera Driver does not load.	Shut down all other applications and attempt to reinstall the driver.
		Check the USB controller in your BIOS if they are activated. If these do not work, contact your national Customer Support representative.
I cannot upload images to the PC.	Connection failure.	Check all cable connections are secured.
My Studio 4 camera cannot be recognized by the system.	Conflict with another camera driver or capture device.	If you have another camera installed on your computer, remove it and its driver completely from your system to avoid conflicting with the Studio 4.
I get a blurred image when uploading my images to my computer.	There may be a momentary delay between pressing the shutter button and the actual exposure.	Hold your Studio 4 camera steadily until you hear a beep which indicates the exposure is completed.
My Studio 4 Camera LCD screen shows  icon. or I cannot activate my digital camera by pressing the Power button.	Insufficient battery power or batteries are missing. or Batteries are not oriented correctly.	Replace batteries. or Orient batteries correctly.

Symptom	Problem	Solution
Camera suddenly powers off.	Auto power off function is activated. or Batteries are dead.	Turn the camera on. or Replace batteries.
There is no response from the camera while pressing any buttons.	Your camera may be affected by the electrostatic discharge. or The LCD screen is frozen or the camera is hanged.	Remove and re-install the battery or batteries to reset the camera. Your valuable data stored in the camera will not be lost.
Image is not recorded when the Shutter button is pressed.	Camera is turned off. or Memory is full.	Turn the camera on. or Delete images you no longer need, or use another memory card.
Camera powers off during self-timer countdown.	Batteries are dead.	Replace batteries.
Recorded pictures are not saved in memory.	Camera powers off before the save operation is complete. or Remove the memory card before the save operation is complete.	If the low battery indicator displays on the LCD screen, replace with new batteries. or Do not remove the memory card before the save operation is complete.
Color of the playback pictures is different from the picture on the LCD screen during recording.	Sunlight or light from another source is shining directly into the lens during recording.	Position the camera so that sunlight does not shine directly onto the lens.

Symptom	Problem	Solution
My CD installation wizard does not work.	The auto installation file is switched to off.	Go to the computer desktop Right click on "My Computer". Click "Properties". Select "Device Manager". Double click on "CD-Rom", double click on "CD-R" (Normally the manufacturer's name). Click on " Setting . Ensure "Auto insert notification " is ticked and the " disconnect " is ticked. If you change the settings the computer will ask you to restart your PC. Click " Yes "
	The CD ROM is disconnected.	You can manually start it by going to the Windows Desktop, double click "My Computer", double click your CD ROM icon and finally double click "INSTALL-E.EXE" file.
I cannot upload the images from the internal memory of the Studio 4 camera to PC.	The SD Card is inserted inside the SD Card slot.	The memory card with a higher priority than the internal memory for image storage or image transfer or delete.
The video clip (AVI) file cannot be played.	DivX codec is not installed yet.	Download and install the DivX or DivX Doctor II from CD

Please also refer to the help files & User Guides that accompany the enclosed applications. For further information and support, please visit our web site: <http://www.polaroid-digital.com>

10 Getting Help

• Polaroid-digital Online Services

Website: <http://www.polaroid-digital.com>

• Customer Support



Questions? Need Help? Call us at 1-877-388-3779 (USA), 1-866-722-0866 (Mexico), 1-888-235-0808 (Canada). Monday thru Friday, 10 am-7 pm EST and Sat 10 am-4 pm EST Or visit us at <http://www.polaroid-digital.com>

• ArcSoft Software Help

For United States

ArcSoft HQ Support Center
(Fremont, CA 94538)
Tel.: 1-510-979-5599
Fax: 1-510-440-7978
E-mail: support@arcsoftsupport.com
Web: <http://www.arcsoft.com/en/support/>

For Latin America

E-mail: latinsupport@arcsoftsupport.com

For Europe

ArcSoft Europe Support Center
(Ireland)
Tel.: + 353-(0) 61-702087
Fax: + 353-(0) 61-702001
E-mail: eurosupport@arcsoft.com
support

For China

ArcSoft China Support Center
(Hangzhou)
Tel.: +86-571-88210575
E-mail: support@arcsoft.com.cn
Web: <http://www.arcsoft.com.cn/new/>

For JapanFor Taiwan

ArcSoft Japan Support Center (Tokyo)
Tel.: + 81-3-5795-1392
Fax: + 81-3-5795-1397
E-mail: support@arcsoft.jp
Web: <http://www.arcsoft.jp>

ArcSoft Taiwan Support Center (Taiwan)
Tel.: + 886-(0) 2-2506-9355
Fax: + 886-(0) 2-2506-8922
E-mail: support@arcsoft.com.tw
Web: www.arcsoft.com.tw

Visit <http://www.arcsoft.com> for technical support and frequently asked questions (FAQ's).

11 Appendix

• Technical Specifications

Picture Resolution	<ul style="list-style-type: none">• Sensor:<ul style="list-style-type: none">- 1/1.8 inch- 3.2 Mega Pixels CMOS
Lens	<ul style="list-style-type: none">• Type: 5 elements plus IR filter• Aperture: F 3.5• Focal Length: $f = 8.66$ mm• Focal Distance<ul style="list-style-type: none">- Normal Focus: 3.2 ft to ∞ (1 m to ∞) (The focusing range is the distance from the lens surface to the subject.)• Focus Zones: center-zone
LCD Screen	1.5" TFT color panel
ISO Speed	Auto
Exposure Control	-/+ 2 EV in 0.5 increments

Shutter Speed	Electronic shutter 1/1000 sec ~ 1/10 sec
White Balance	Auto, Daylight, Cloudy, Tungsten, Fluorescent
Storage	<ul style="list-style-type: none"> • Internal Memory: 16MB (11MB for data storage) • External Memory: supports SD card up to 1 GB (not included)
File Format	<ul style="list-style-type: none"> • Still Image <ul style="list-style-type: none"> - EXIF 2.2 compatible format (JPEG compression) • Video Clip: AVI format
Power Supply	2 x AA-size batteries (included)
Self-timer	10 seconds with beep sound
Tripod Socket	Yes
Connectivity	<ul style="list-style-type: none"> • With computer via USB cable (included) • With TV via video cable (included)
Dimension	<ul style="list-style-type: none"> • Size: (W) 92 mm x (D) 35 mm x (H) 74 mm • Weight: Approximately 125g excluding batteries or card
Operating System	<ul style="list-style-type: none"> • For Windows® Users: Microsoft® Windows® 98SE, Me, 2000 or XP • For Macintosh Users: Mac OS 9.2 ~ X

• Storage Capacities

The charts below indicate the approximate numbers of pictures and length of video clips the camera can hold at each setting based on the internal memory and different capacities of SD card.

Recordable Images

Units: Images

Resolution	Quality	16MB Internal Memory (11MB for data storage)	32MB SD	64MB SD
2048 x 1536	High	20	55	110
	Normal	27	72	144
	Low	34	91	182
1600 x 1200	High	33	91	182
	Normal	45	127	254
	Low	56	148	296
1280 x 960	High	52	140	280
	Normal	68	183	366
	Low	87	221	442
640 x 480	High	170	457	914
	Normal	227	545	1090
	Low	228	551	1102

Resolution	Quality	128MB SD	256MB SD	512MB SD	1GB SD
2048 x 1536	High	220	440	880	1760
	Normal	288	576	1152	2304
	Low	384	768	1536	3072
1600 x 1200	High	364	728	1456	2912
	Normal	508	1016	2032	4064
	Low	592	1184	1368	4736
1280 x 960	High	560	1120	2240	4480
	Normal	532	1064	2128	4256
	Low	884	1768	3536	7072
640 x 480	High	1828	3656	7312	14624
	Normal	2180	4360	8720	17440
	Low	2204	4408	8816	17632

Recordable Video Length

Units: Minute

	Resolution	Quality	Video clips can be taken
16MB Internal Memroy (11MB for data storage)	640 x 480	Fine	0.46
		Normal	0.5
	320 x 240	Fine	1
		Normal	1.2
32MB SD	640 x 480	Fine	1.2
		Normal	1.3
	320 x 240	Fine	3
		Normal	3.5
64MB SD	640 x 480	Fine	2.4
		Normal	2.6
	320 x 240	Fine	6
		Normal	7
128MB SD	640 x 480	Fine	4.8
		Normal	5.2
	320 x 240	Fine	12
		Normal	14

	Resolution	Quality	Video clips can be taken
256MB SD	640 x 480	Fine	9.6
		Normal	10.4
	320 x 240	Fine	24
		Normal	28
512MB SD	640 x 480	Fine	19.2
		Normal	20.8
	320 x 240	Fine	48
		Normal	56
1GB SD	640 x 480	Fine	38.4
		Normal	41.6
	320 x 240	Fine	96
		Normal	112



NOTE:

Scene complexity affects a picture's file size. For example, a picture of trees in autumn has a larger file size than a picture of blue sky at the same resolution and quality setting. Therefore, the number of pictures and length of video clips you can store on a memory card may vary.

• Uninstall the Camera Driver (PC)

PC

For Windows® Users:

1. Click Windows Start button.
2. Go to Setting -> Control Panel.
3. Double-click "Add or Remove Program".
4. Choose the "Polaroid Studio 4 Camera" and Click "Change/Remove" to uninstall it.
5. The driver will be removed automatically.

• Camera Default Settings

Camera Mode	Description	Default
Still Image Mode	Image Resolution	2048 x 1536
	Quality	Fine
	Exposure Compensation	0
	White Balance	Auto
	Color	Normal
	Self-timer	Off
Video Mode	Video Resolution	640x480
	Quality	Fine
	Exposure Compensation	0
	White Balance	Auto
	Color	Normal
	Self-timer	Off
	Contrast	Normal
	Sharpness	Normal
	Audio	On
Setup Mode	Beep	On
	Date / Time Display	Date & Time
	Driver Type	Mass Storage
	TV	PAL
	Frequency	60Hz for USA / 50Hz for Europe
	Auto Power Off	1 minute
	Language	English

**NOTE:**

The default language for the LCD screen may vary with different countries and regions.

• Using Your Batteries**IMPORTANT NOTE:**

For best performance and prolonged battery life, we recommend the use of AA lithium or rechargeable NiMH.

Limit the following activities that reduces battery life:

Reviewing your pictures on the LCD screen.

WARNING!

- Batteries should be replaced by an adult.
- Do not mix different types of batteries (or new and used batteries).
- Use recommended or equivalent type of batteries only.
- Insert the batteries in the correct polarity.
- Remove exhausted batteries from the camera immediately.
- Do not short the supply terminals.
- Do not dispose the batteries in fire.
- Remove batteries from the camera when not in use.

These instructions should be retained for future reference.

• **Tips, Your Safety & Maintenance**

Your Camera should only be operated within the following environmental conditions;

- 32 - 104° Fahrenheit; 0 - 40° Celsius
- 20% - 85% relative humidity, non condensing

Battery life or image quality may be affected outside these conditions.



Camera Cautions

- NEVER immerse any part of the Camera or its accessories into any fluid or liquid.
- ALWAYS disconnect the Camera from your PC or TV before cleaning it.
- ALWAYS remove dust or stains with a soft cloth dampened with water or neutral detergent.
- NEVER place hot items on the surface of the Camera.
- NEVER attempt to open or disassemble Camera as this will affect any warranty claim.

• **Regulatory Information**

FCC Notice

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded cable must be used with this unit to ensure compliance with the Class B FCC limits.

Under the environment with electrostatic discharge, the product may malfunction and require user to reset the product.

US 0705

Part No.: OM3376US006

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