BenQ DC E40 Digital Camera
User's Manual

Welcome

ⓘTaking Care of Your Camera

- Do not use your camera at temperatures below 0°C or above 40°C.
- Do not use or store your camera in the environments listed below:
  - Direct sunlight
  - High and dusty places
  - Next to an air conditioner, electric heater or other heat sources
  - In a closed car that is directly under the sun
  - Unstable locations
- If your camera becomes wet, wipe it with dry cloth as soon as possible.
- Salt or seawater may cause severe camera damage.
- Do not use organic solvents, such as alcohol, etc., to clean your camera.
- If the lens or viewfinder is dirty, use a lens brush or soft cloth to clean the lens. Do not touch the lens with your fingers.
- To prevent electrical shock, do not attempt to disassemble or repair your camera by yourself.
- Water may cause a fire or electric shock. Therefore, store your camera in a dry place.
- Do not use your camera outdoors when it is raining or snowing.
- Do not use your camera in or near water.
- If a foreign substance or water gets in your camera, please turn the power off immediately and disconnect the batteries and the transformer. Remove the foreign substance or water, and send it to the maintenance center.
- Transfer the data to the computer as soon as possible to avoid losing your image data.
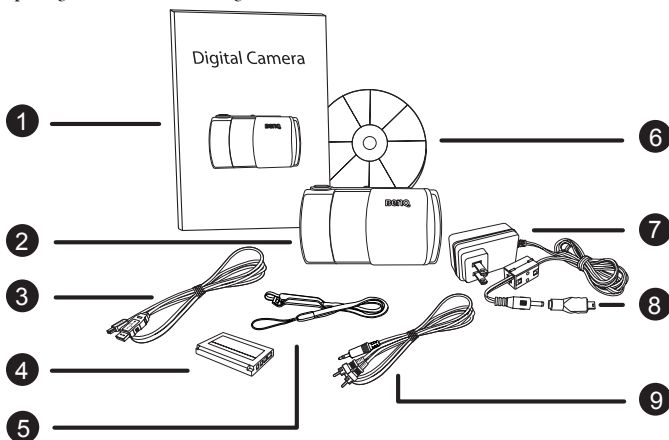
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TOURING YOUR DC E40

1.1 Checking the Package Contents

The package includes the following items:

1. User's manual
2. DC E40 digital camera
3. USB cable
4. Lithium-ion battery (rechargeable)
5. Hand strap with stylus
6. DC E40 software CD-ROM
7. AC power adapter
8. USB converter
9. AV cable

If anything is missing or appears damaged, contact your dealer. Save the packaging in the event you need to ship your camera for service.

1.2 DC E40 Components

1.2.1 Front View

1. Shutter button
2. Power button
3. Mode switch
4. Indicator LED
5. Microphone
6. Flash
7. TV out
8. Normal/macro switch
9. Lens
10. Speaker
11. Self-timer indicator LED / Video or sound recording on
12. Lens cover
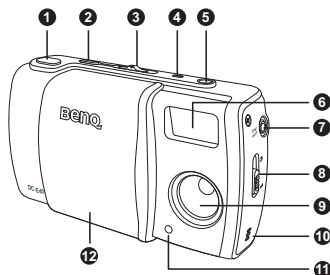
1.2.2 Rear View

1. Microphone
2. Indicator LED
3. Mode switch
4. Power button
5. Shutter button
6. Zoom/flash/review/navigation button
7. Battery/SD card cover
8. USB/charger port
9. Touch panel/LCD screen
10. Hand strap attachment
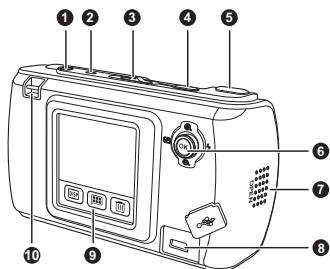
Note

- The LCD on the digital camera is manufactured with sophisticated technology, however, the display may have some light spots or show unusual colors. This is normal and does not indicate display malfunction, nor will this affect the pictures you take with the camera.
- The Indicator LED displays the current status of the camera.

1.2.3   Using the Mode Switch

❶	📷	Snapshot Mode	Take photographs in manual or automatic mode. ➡ page 10
❷	▶	Playback Mode	Replay photos, movie clips and sound clips stored in memory. ➡ page 27
❸	🎥	Movie Recording Mode	Record movie clips. ➡ page 24
❹	🎤	Sound Recording Mode	Record sound clips. ➡ page 26
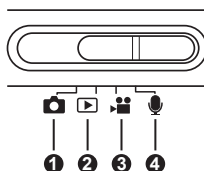
1.2.4   Indicator LED Status

Status	Top Indicator LED (Green)	Top Indicator LED (Orange)	Front Indicator LED (Red)
Always On	Power is on, ready to use	Battery is charging	Recording movie or sound clip.
Fast Blinking	Processing data	Error/Warning or Low Power	—
Slow Blinking	—	Flash is charging	—
Slowest Blinking	—	AC adapter or USB cable attached with no battery	—

1.2.5   Using the Stylus

Use the stylus attached to the included hand strap to perform operations on the touch screen. You can also use your finger, but the stylus is more accurate and won't cause fingerprints on the screen.

Stylus

Unfold the stylus from the clip to use it.

Operate the touch screen by tapping an icon with the stylus. Some features require tapping and holding an icon to change its value, and other icons, such as sliders, require tapping and dragging with the stylus to adjust the slider value.
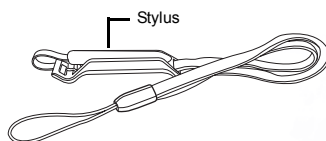
1.2.6 Using the Navigation Button

You can use the Navigation button to highlight an icon on the screen and then press OK (push the Navigation button) to select it.

Pressing Up/Down or Left/Right also adjusts values such as the zoom factor or EV bias.
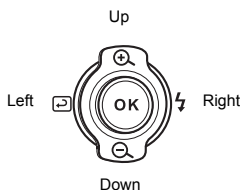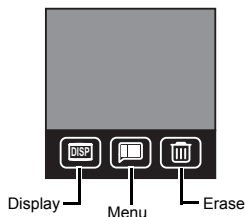
Up

Left

OK

Right

Down

1.2.7 Using the Touch Screen

BenQ DC E40 is equipped with a touch-sensitive LCD screen that enables you to change your camera's settings and features quickly and conveniently. Tap the three buttons below the screen to access the following features:

Display

Menu

Erase

Icon	Name	Description
DISP	Display	Tapping the Display button switches the LCD information display mode between Icons On, Icons Off or All Off.
▣	Menu	Tapping the Menu button turns DC E40's on-screen menu system off and on in any camera mode.
🗑	Erase	Tapping the Erase button erases the currently displayed photo, movie clips, or sound clips from memory.

② PREPARING YOUR DC E40 FOR USE

The lithium ion battery included with the DC E40 allows you to take photos, record movie and sound clips. Use the AC adapter whenever possible to conserve battery power.

2.1 Inserting the Battery

**1.** Turn the camera off.

2. Slide the battery cover in the direction of the arrow **A** and open the battery/SD card cover **B** .

3. Push the battery latch in the direction of the arrow **C** and insert the battery in the correct orientation as shown **D** with the notches facing up. If the battery is inserted incorrectly, the latch will not close.

4. Close the battery/SD card cover **E** .

To remove the battery: open the battery cover and push the battery latch. The battery pops out slightly; remove the battery.

Battery Latch
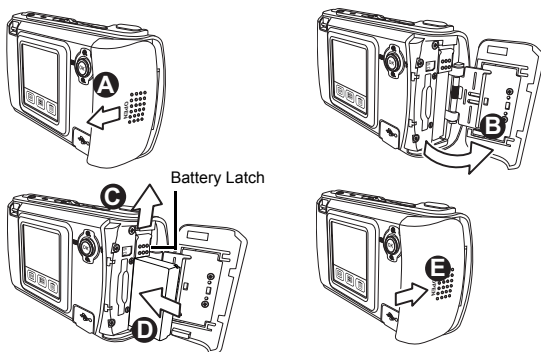
Note

- Use only the specified battery type (lithium-ion battery).
- If you are not going to use the battery for an extended time, remove it from the camera to prevent leakage or corrosion.
- Avoid using the battery in extremely cold environments. Low temperatures reduce battery life and performance.

Preparing Your DC E40 for Use   5
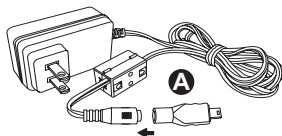
2.2   Using an AC Power Adapter

The BenQ DC E40 comes with an AC power adapter that both powers the camera and recharges the battery. Connect the power adapter to the DC E40 as shown below.
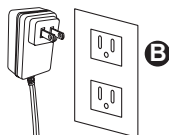
1. Turn the camera off.
2. Connect the included USB converter to the power adapter connector **A** .
3. Plug the power adapter into a power outlet **B** .
4. Connect the USB adapter to the USB port at the back of the camera **C** .

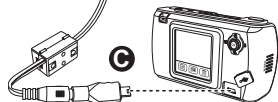Connect the USB converter to the power adapter connector.

Note

• Use only the AC power adapter specified for the camera. Damage caused by the use of an incorrect adapter is not covered under the warranty.
• Dual Charging Mode allows you to charge the battery when transferring files to or from a computer through the included USB cable.

Plug the power adapter into a power outlet.

Connect the USB adapter to the USB port.

2.3   Charging the Battery

1. Turn the camera off.
2. Insert the battery as described on page 5.
3. Connect the AC power adapter as described in the section above, or connect the included USB cable to a computer USB port as described in "Transferring Files To/From a Computer" on page 50.

The Indicator LED at the top of the camera is orange while the camera is charging. When charging is complete, the LED turns off.
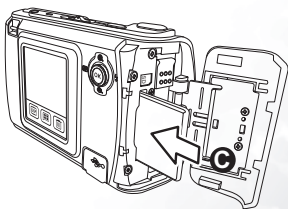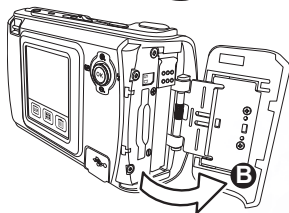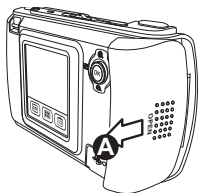
Note

- Use only the AC power adapter specified for the camera. Damage caused by the use of an incorrect adapter is not covered under the warranty.
- The battery may not begin charging immediately if it is too hot. In this case, let the camera cool before charging the battery.
- When using the AC power adapter, the camera must be turned off in order to charge the battery.
- When connected to a PC with the USB cable, the battery will charge if the camera is either on or off.

2.4   Inserting an SD Memory Card

All images, movies, and sound clips taken by the camera can be stored in an SD (Secure Digital) memory card as well as in the camera's internal memory. Files stored on the SD card remain even if the camera's power is turned off.

1. Turn the camera off.
2. Slide the battery/SD card cover in the direction shown **A** and open the cover **B** .
3. Insert an SD card **C** :
   - The front side of the SD card (the side with the label) should be facing the front of the camera.
   - If the card does not slide into the slot, turn it around and try again.
**4.** Close the battery/SD card cover.

5. To remove the SD card, make sure the camera is turned off, open the battery/SD card cover, and press down lightly on the exposed edge of the card. The card will eject itself **D** .
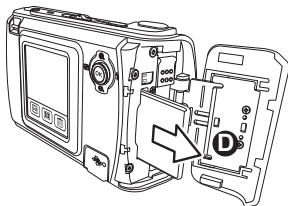
Note

- To prevent data from being accidentally erased from the SD card, slide the write-protect tab to the "LOCK" position.

Press the tab in the direction of the arrow on the card to write protect the SD Memory Card.

Write-protect tab

- The SD card must be unlocked in order to save, edit, or erase data.
- Format new SD cards using the camera's format function before use. See "Memory: Copying and Formatting" on page 41 to learn how to format SD cards.
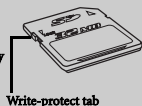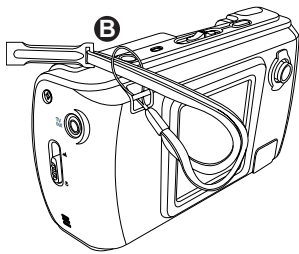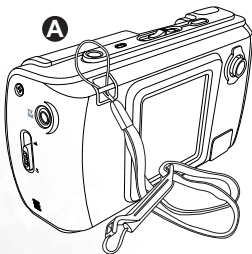
2.5   Attaching the Hand Strap

Always use the hand strap to prevent accidentally dropping the camera. The hand strap is also a good way to keep your stylus nearby.

1. Thread the small loop of the hand strap through the strap eyelet at the top left corner of the rear of the camera **A** .

**2.** Pull the stylus and large loop through the small loop until the strap is firmly secured **B** .

2.6　Setting the Date and Time

Before using your camera for the first time, set the date and time. For instructions, see "Setting the Date and Time" on page 42.

2.7　Turning the Camera On

Press and hold the Power button for two seconds to turn the camera on or off.

Sliding the lens cover Ⓐ open and closed also turns the camera on or off.

Power button

English
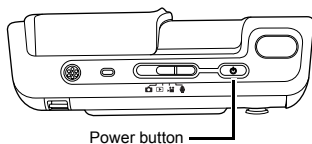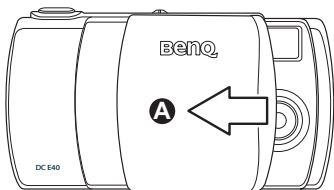
TAKING PHOTOS

This chapter describes the camera operating modes, and explains how to take pictures, record movie clips and sound clips, play back photos, movies and sound clips.

3.1   Photo Mode

Two photo modes are available: Auto mode 📷 and Manual mode 📷 .

In **Auto mode** 📷 , all camera settings, such as focus and white balance, are automatically selected by the camera. Auto mode is suitable for photography beginners and for quick and easy snapshots.

Manual mode 📷 allows you to adjust individual camera settings, such as focus metering and EV bias, in order to attain special photographic effects, or to fine-tune results to match specific lighting conditions.

This chapter describes the camera settings that are available in each photo mode.

Note

• Some settings can be changed only when the camera is in Auto mode 📷 . These include White Balance, ISO Setting, EV Bias, and Metering.

3.2   Taking Photos

Before taking any photos, make sure the battery is charged, that an SD card is properly installed if needed, and that the lens cover is open **A** .

1. Turn the camera on by pressing the Power button if necessary.
2. Frame the shot in the LCD screen.
3. Press the Shutter button down halfway **B** . Pressing the shutter button down halfway starts focus and exposure adjustments.
4. Press the Shutter button completely down. The camera makes a shutter sound and the image freezes on the LCD screen for a few moments while the image is transferred to memory. The camera is then ready to take another shot.
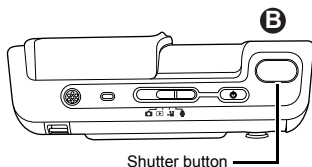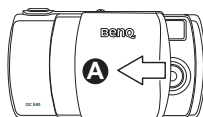
Shutter button

3.3 About the LCD Screen Icons

The LCD screen displays icons that show the camera's current settings. The diagram below shows all of the icon types available in Snapshot mode. Refer to the table on the following page for a complete description of each.
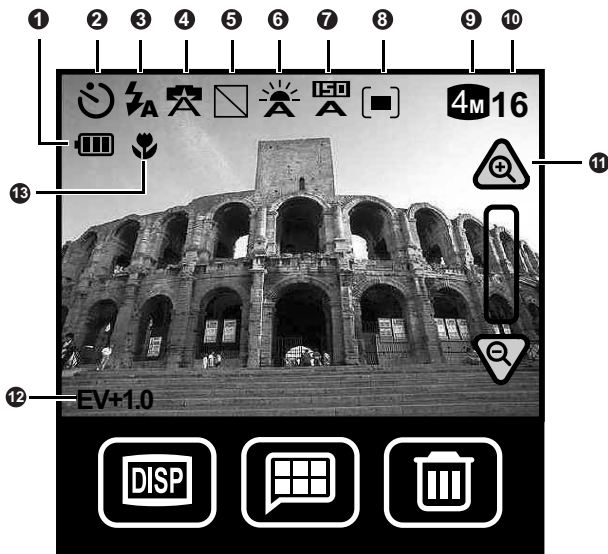
The following table shows all of the Snapshot mode icons that can be shown on the LCD screen. For more information, refer to the indicated page number.

	Setting	Mode	Icon	Page
❶	Battery Level	Full	🔋	6
		2/3		
		1/3		
		Empty		
❷	Capture Mode	Single Shot	1	16
		Continuous		
		Self-Timer On		
		Continuous Self-Timer On		
❸	Flash Mode	Auto		14
		Red-Eye Reduction		
		Forced On		
		Off		
❹	Scene	Auto		14
		Sport		
		Landscape		
		Portrait		
		Back Light		
		Night Scene		
❺	Photo Effect	Normal		20
		B&W		
		Sepia		
		Vivid		

	Setting	Mode	Icon	Page
❻	White Balance	Auto		18
		Sunny		
		Cloudy		
		Tungsten Light		
		Fluorescent Light		
❼	ISO Setting	Auto		19
		100		
		200		
❽	Metering	Center Average		21
		Center Spot		
		Average		
❾	Image Size	2848x2136	6M	17
		2304x1728	4M	
		1600x1200	2M	
		1280x968	1M	
❿	Shots Remaining	[number]	5	
⓫	Zoom	Zoom In		15
		Zoom Out		
⓬	EV bias	-2 ~ +2	EV+1.0	20
⓭	Macro			22

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3.4   Switching the LCD Display Mode

The camera setting icons can be turned off by pressing the Display button 🖼 to switch between display modes:

Icons On ⟶ Icons Off ⟶ LCD Off
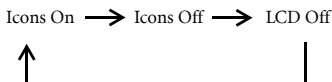
Note

- The image on the LCD screen may appear dark when used in sunlight or bright lighting. This is not a malfunction. You can adjust the brightness of the LCD screen as shown on page 43.
- Using the LCD screen for extended periods consumes battery power and therefore decreases the number of photos you can take. To conserve battery power, turn the LCD screen off when not taking photos.

3.5   Selecting Auto or Manual Photo Mode

1. Tap the Menu button 🖼.
2. Tap the Manual/Auto icon 🎚/🅰.
3. Select Manual 🎚 or Auto 🅰. The menu screen appears with the mode icon you chose.
4. Tap the Return icon ⇆ to exit the menu and return to Snapshot mode. The camera setting icons on the LCD screen show the current camera settings for the Photo mode you chose.

Note

To enable full control of camera setting in Snapshot mode, always select Auto Scene mode 📷 (see "Selecting the Scene Mode" on page 14). Some camera settings cannot be changed when other Scene modes are selected.

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3.6   Selecting the Scene Mode

The camera automatically adjusts settings for optimum results when capturing certain types of photographs, or scenes. The DC E40 offers six different Scene modes.

1. Tap the Menu button [⊞].
2. Tap the Scene icon [⚘].
3. Select the Scene mode. The menu screen appears with the mode icon you chose.
4. Tap the Return icon ⬎ to exit the menu and return to Photo mode. The camera setting icons on the LCD screen show the current camera settings for the Photo mode you chose.

All Scene modes except Auto Scene mode override the Flash settings. If you want to change the Flash setting, you must select Auto Scene mode [⚘]. See 3.7 "Using the Flash" for more information on Flash settings.

Icon	Scene Mode	Description
[⚘]	Auto	Select this mode to allow the camera to adjust all settings automatically.
[⚘]	Portrait	Select this mode when taking photos of people.
[⚘]	Landscape	Select this mode to take photos of distant scenery or landscapes in daytime.
[⚘]	Sport	Select this mode to take photos of fast-moving subjects such as runners or cars. Sport mode is not suitable for indoor photography.
[⚘]	Backlight	Select this mode to take photos in which the light source is behind the subject.
[⚘]	Night Scene	Select this mode to take photos of subjects with a dark or poorly-lit background.

3.7   Using the Flash

Use the flash to brighten photos of subjects taken in dark or non-optimal lighting conditions. The DC E40 is equipped with four Flash settings that can be used in both Auto and Manual Photo modes.

The Scene mode must be set to Auto [⚘] in order to change the flash setting manually. Also note that the Flash setting can't be changed manually if it is set to Auto Flash mode.

1. Press the Navigation button to the right to change the Flash setting.

Auto → Red-Eye → Forced On → Off

2. The LCD screen icon shows the current Flash setting.

Icon	Flash Setting	Description
$\mathbf{4}_A$	Auto	The flash fires automatically according to the ambient light conditions. In some Scene modes (for example Portrait), Red-Eye Reduction is automatically selected.
👁	Red-Eye Reduction	The flash fires several times in quick succession before firing the main flash. This helps to avoid the phenomenon of eye pupils appearing red in photographs.
🔆	Forced On	The flash fires regardless of the light conditions. Select this setting to take photos of high contrast subjects (back lighting) or dark shadows.
⊗	Off	The flash does not fire. Choose this setting when taking photos in areas where flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash.

Note

- You can change the flash setting only when the Scene mode is set to Auto 🖼.
- In Continuous Shot mode (see page 16), the flash is set to Off ⊗.
- Do not use the flash at close distances from young children.

3.8 Using the Digital Zoom

The DC E40 is equipped with a 4x digital zoom that enlarges images so that the subject appears to be closer.

1. Set the Photo mode (see page 13).
2. Frame the subject in the LCD screen.
3. Tap the Zoom In 🔼 or Zoom Out 🔽 icon on the LCD to adjust the zoom. You can also use the Navigation button to zoom in or out.
4. The zoom slider on the LCD moves up or down to indicate the zoom level.

Note

- The zoom function is disabled when the image size is set to 6M 🖼. See "Image Size" on page 17.

3.9   Using the Self-Timer

The self-timer enables you to put yourself in the picture. When the Self-Timer is turned on, the camera takes the photo 10 seconds after the Shutter button is pressed.

1. Tap the Menu button.
2. Tap the Self-Timer icon.
3. Select On or Off. The menu screen appears with the Self-Timer icon you chose.
4. Tap the Return icon to exit the menu and return to Photo mode. The Self-Timer icon appears on the LCD screen.
5. Press the shutter button down halfway to focus, then press it down fully. The red Self-Timer indicator LED at the front of the camera blinks slowly for five seconds, and then quickly for five seconds before the camera takes the shot. A countdown timer also appears on the LCD screen. Press OK to cancel the Self-Timer.
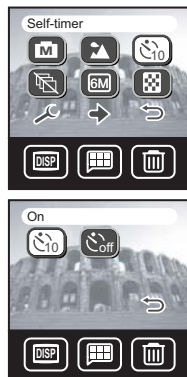
3.10   Continuous Shots

Use Continuous Shot mode to take two consecutive photos in rapid succession. This is used for take photos of fast moving objects.

1. Tap the Menu button.
2. Tap the Continuous Shot icon.
3. Select On or Off. The menu screen appears with the Continuous Shot icon you chose.

Taking Photos

4. Tap the Return icon ⬑ to exit the menu and return to Photo mode. The Continuous Shot mode icon appears on the LCD screen.

5. Press the shutter button down halfway to focus, then press it down fully. The camera takes two photos in rapid succession. When complete, a timer icon appears on the LCD for a few moments while the photos are processed.
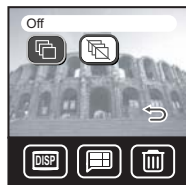
Note

- The flash is set to Off ⊗ when Continuous Shot mode is turned on.
- You can use the Self-Timer ⏲ function to take continuous shots.
- The continuous shot function cannot be used in Back Light Scene Mode.

3.11 Image Size

The DC E40 allows you to choose from four different image sizes, or resolutions. Higher resolution photos require more memory, so your camera will store fewer high resolution photos than lower resolution photos but the quality will be better.

1. Tap the Menu button 🎛.
2. Tap the Image Size icon 🔲.
3. Select the image size. The menu screen appears with the Image Size icon you chose.
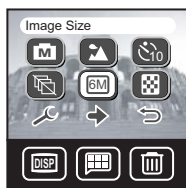
Icon	Image Size	Icon	Image Size
6M	6M 2848x2136	2M	2M 1600x1200
4M	4M 2048x1536	1M	1M 1280x968

Note

- Use a lower image size if you want to store more photos in a limited amount of memory.
- Continuous Shot mode 🗗 cannot be used when the image size is set to 6M (2848x2136) 🔲.

3.12   Image Quality

In addition to Image Size, you can also set the Image Quality, also known as the compression ratio. Higher quality (lower compression) images require more memory storage than lower quality (higher compression) images for images that are the same size (e.g. 2848x2136).

1. Tap the Menu button 🔲.
2. Tap the Image Quality icon 🔢.
3. Select the Image Quality setting. The menu screen appears with the Image Quality icon you chose.

Icon	Image Quality	Description
🔢	Fine	lower compression
⬛	Normal	higher compression

3.13   White Balance

White balance is a measure of the 'coolness' of white light. If your photos have a reddish tinge, it probably means that the white balance is set incorrectly.

1. Make sure the camera is in Manual mode 🅼, and that Scene mode is set to Auto 🌠.
2. Tap the Menu button 🔲, then tap the Next icon ⇨.
3. Tap the White Balance icon ☀.
4. Select the White Balance setting. The menu screen appears with the White Balance icon you chose.

Taking Photos
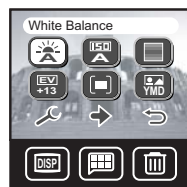
Icon	White Balance	Description
(☀)	Auto	Automatically adjusts the white balance.
(☀)	Sunny	Suitable for bright daylight conditions.
(☀)	Cloudy	Suitable for cloudy, twilight, or shady conditions.
(☀)	Tungsten Light	Suitable for subjects lit by tungsten (incandescent) lighting.
(☀)	Fluorescent Light	Suitable for subjects lit by fluorescent lighting.

Note

To adjust the white balance, the camera must be set to Manual Photo mode 🖾 with the Scene mode set to Auto ⊠.

3.14 ISO Setting

The camera's sensitivity to light is configured by the ISO setting.

1. Make sure the camera is in Manual mode 🖾, and that Scene mode is set to Auto ⊠.
2. Tap the Menu button 🔲, then tap the Next icon ⇨.
3. Tap the ISO Setting icon ⊠.
4. Select the ISO setting. The menu screen appears with the ISO Setting icon you chose.

Icon	ISO Setting	Description
(ISO A)	Auto	Automatically sets the ISO value between 100 and 200.
(ISO 100)	100	Equivalent to color ISO100 film. Use for outdoor photography in bright sunlight.
(ISO 200)	200	Equivalent to color ISO200 film. Use for outdoor or brightly lit indoor photography.

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3.15   Photo Effect

The DC E40 enables you to apply a tone or color to your photos to create an artistic effect.

1. Tap the Menu button 🔲, then tap the Next icon ⇨.
2. Tap the Photo Effect icon 🔲.
3. Select the Photo Effect. The menu screen appears with the Photo Effect icon you chose.
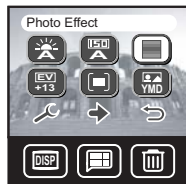
Icon	Photo Effect	Description
🔲	Normal	Standard RGB color settings suitable for general photography.
🔲	B&W	Black and white photos (with shades of grey).
🔲	Sepia	Produces a warm, old-fashioned style of photo in which the colors are more brown and orange.
🔲	Vivid	Produces sharper and more vibrant colors.

3.16   EV Bias

EV (exposure value) bias enables you to lighten or darken an image. Use this setting when the brightness between the subject and the background is not balanced or when the subject occupies only a small part of the photograph.

Use a positive (+) EV bias for:

- printed text (black type on white background)
- backlit portraits
- very bright scenes (such as snow) and highly reflective subjects (such as polished metal)
- shots made up predominantly of sky

Use a negative (-) EV bias for:

- spotlit subject, especially against dark backgrounds
- scenes with low reflectivity, such as green or dark foliage

The DC E40 supports the following EV values: -2.0, -1.6, -1.3, -1.0, -0.6, -0.3, 0.0, 0.3, 0.6, 1.0, 1.3, 1.6, and 2.0.

1. Make sure the camera is in Manual mode 🔲, and that Scene mode is set to Auto 🎞.
2. Tap the Menu button 🔲, then tap the Next icon ⬦.
3. Tap the ISO Setting icon 🔲.
4. Use the stylus or Navigation button to increase ⬥ or decrease ⬦ the value.
5. Tap OK to set the value. The menu screen appears with the ISO Setting icon you chose.
6. Tap the Return icon ⤺ to exit the menu and return to Photo mode. The EV bias value appears in the bottom left corner of the LCD screen.

EV Bias value — **EV+1.0**
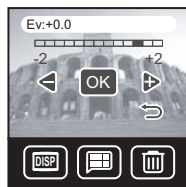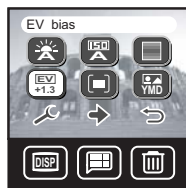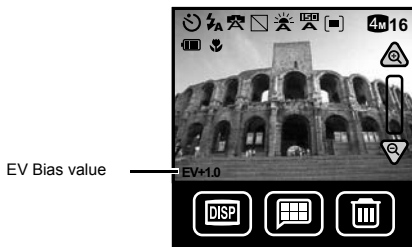
3.17 Metering

Metering enables you to adjust the region of the subject or frame on which the camera measures light.

1. Make sure the camera is in Manual mode 🔲, and that Scene mode is set to Auto 🎞.
2. Tap the Menu button 🔲, then tap the Next icon ⬦.
3. Tap the Metering icon 🔲.
4. Select the Metering mode. The menu screen appears with the Metering icon you chose.

Icon	Metering Mode	Description
🔲	Center Average	The camera metering is set for the average brightness of objects in the center region of the frame.
🔲	Center Spot	The camera metering is set for the brightness of the object at the center of the frame.
🔲	Average	The camera metering is set for the average brightness of all objects in the frame.

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3.18   Date Imprint

You can automatically print the current date on the bottom right corner of photos you take.

1. Tap the Menu button 🔲 , then tap the Next icon ⇨ .
2. Tap the Date Imprint icon 🖼 .
3. Select the Date Imprint On 🖼 or Off 🖼 . The menu screen appears with the setting you chose.
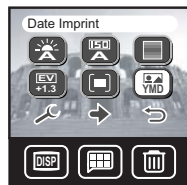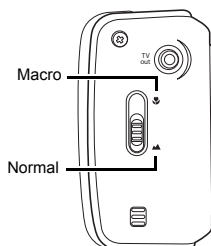
Note

For instructions on changing the date format, see page 42.

3.19   Macro and Normal Modes

A switch on the side of the DC E40 enables you to change between Macro 🌷 and Normal 🔺 modes.

Use Macro 🌷 for close-up shots of people or objects within 30 to 100 cm (12 to 40 inches) of the camera lens.

Normal mode 🔺 should be used for all photos of subjects more than 100 cm (40 inches) from the lens.

Macro

Normal

Note

- After taking a photo in Macro mode 🌷 , remember to switch back to Normal mode 🔺 to avoid taking photos that are not in focus.
- Scene Mode is not available in Macro Mode 🌷 . If you switch to Macro Mode 🌷 , Scene Mode is automatically set to Auto Scene Mode 🎞 .

Taking Photos

3.20   Quick Review and Erase

After taking a photo you can review it on the LCD screen.
If you don't want to keep the photo, you can delete it in
order to make more memory available.

1. Take a photo and wait a few moments for the camera
to finish processing it.
2. Press the Navigation button to the left Ⓐ. The photo
you just took appears on the screen.
3. To delete the photo, tap the Erase button 🔟 below
the LCD screen Ⓑ.
4. You are asked to confirm the delete action. Tap Yes to
delete the photo, or press No to cancel.

Erase Button ──── Ⓑ
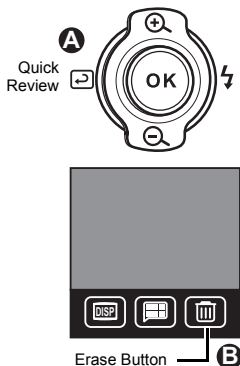
Note

- Deleting unwanted photos makes more memory available for storing additional photos.
- Deleting a photo cannot be undone.
- You can also delete photos at any time by using the Erase function in Playback mode. See
"Erasing Single Files" on page 39 and "Erasing All Files" on page 39.

Taking Photos   23

4 RECORDING MOVIE CLIPS
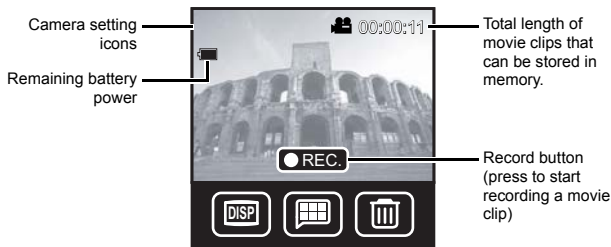
Switching the camera to Movie Recording mode 🎥 allows you to record movie clips. The length of the recording depends on the amount of memory remaining on the installed SD memory card, or in the camera's built-in internal memory.

Movie Recording mode
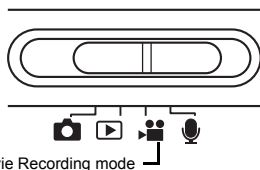
4.1 Movie Recording Mode

Follow these steps to record a movie clip.

1. Turn the camera on.
2. Set the Mode switch to Movie Recording mode 🎥. The movie clip recording screen appears.

Camera setting icons

Remaining battery power

🎥 00:00:11 — Total length of movie clips that can be stored in memory.

●REC. — Record button (press to start recording a movie clip)

DISP

3. Frame the subject in the LCD screen and tap the record button ●REC. to begin recording the movie clip. You can also press OK (push the Navigation button) or the shutter button to start recording.
4. The elapsed recording time appears in red at the top right corner of the LCD screen.
5. Tap the stop button 📷 to finish recording. You can also press OK or the shutter button to stop recording. The camera takes a few moments to process the movie clip.
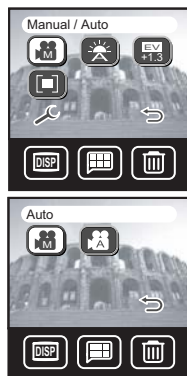
Note

• In Movie Recording mode 🎥, the flash is automatically set to Off 🚫.

• Zoom is disabled in Movie Recording mode 🎥.

Recording Movie Clips

4.1.1 Manual and Automatic Movie Recording Modes

While in Movie Recording mode, setting the camera to Manual enables you to adjust white balance, EV bias, and metering. The camera automatically adjusts these values when it is set to Auto.

1. In Movie Recording mode ▶🎥, tap the Menu button 🖽 to display the Movie mode menu.
2. Tap the Manual/Auto icon 🎥 / 🎥 .
3. Select Manual 🎥 or Auto 🎥 . The menu screen appears with the icon you selected.
4. Press the Return icon ⮌ to exit the menu, or press another icon to change other settings.

4.1.2 Movie Recording Mode Camera Settings

To adjust the white balance, EV bias, and metering in Movie Recording mode, follow the instructions given in Snapshot mode.

| Icon	Setting	Page
🔆	White Balance	18
EV +1.3	EV Bias	20
▣	Metering	21

Note

- To adjust camera settings in Movie Recording mode ▶🎥, you must first select Manual mode 🎥 . See "Manual and Automatic Movie Recording Modes" on page 25.
- If you change the White Balance, EV Bias, or Metering settings in Movie Recording mode, the settings will also be changed in Snapshot mode and vice-versa.

Recording Movie Clips   25

5 RECORDING SOUND CLIPS

Sound Recording mode allows you to use the DC E40 as a voice recorder. Sound recordings are saved on the installed SD memory card or in the camera's internal memory.

Sound is recorded by the built-in microphone located at the top of the camera.

Microphone
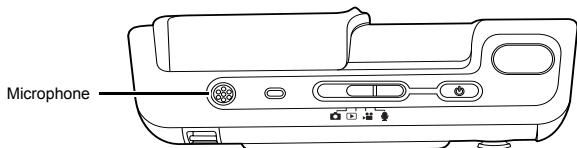
Follow these steps to record a sound clip.

1. Turn the camera on.
2. Set the Mode switch to Sound Recording mode 🎤. The sound clip recording screen appears:

Remaining battery power

🕐 00:05:13 — Total length of audio that can be stored in memory.

00 : 00 : 00
Standby

● REC. — Record button (tap to start recording a sound clip)

DISP

3. Tap the record icon ● REC. to begin recording the sound clip. You can also press OK to start recording (push the Navigation button), or press the shutter button.
4. The elapsed recording time appears in red next to the microphone icon in the center of the LCD screen.
5. Tap the stop icon ■ REC. , press OK, or press the shutter button to finish recording. The available remaining recording time at the top right corner of the LCD screen is updated.

Note

- You cannot record a movie or sound clips with a length of less than 3 seconds.
- Movie or Sound clips will become damaged if you switch off power during the recording process.

PLAYING BACK PHOTOS, MOVIES AND SOUND CLIPS

In Playback mode, the DC E40 can:

- display photos on the LCD screen
- play movie clips on the LCD screen
- play sound clips through the built-in speaker

To use Playback mode, set the Mode switch to
Playback mode ▶ and turn the camera on.
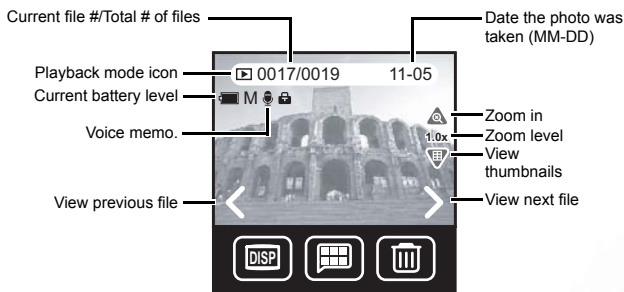Playback mode works with the lens cover open or
closed.
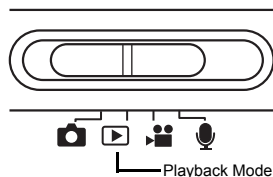
Playback Mode

In Playback mode you can review all of the images, movies, and sound clips stored in the
camera's internal memory or on the installed SD memory card. Files are played back in the
order in which they were recorded.

Note

- Close the camera lens cover and turn the camera on by pressing the Power button in
  Playback mode to protect the lens from dust and accidental damage.

6.1 Viewing Photos

When viewing photos in Playback mode, the LCD screen displays information about the photo
as well as navigation and zoom controls.

Current file #/Total # of files

Date the photo was
taken (MM-DD)

Playback mode icon ▶ 0017/0019   11-05

Current battery level

Voice memo.

Zoom in

1.0x Zoom level

View thumbnails

View previous file

View next file

[DISP] [⊞] [🗑]

1. Set the Mode switch to Playback mode ▶ .
2. The most recently recorded file appears on the LCD screen.

3. Press Next ❯ to view the next image, or press Previous ❮ to go back one image. You can also press the Navigation button to the left or right to scroll forward or back.

Note

- Press the Display button ⬛ to turn off the icons and view the photo only. When the icon is off, use the Navigation button to view the next or previous image.

6.1.1 Zoom and Pan

When a photo is displayed on the LCD screen in Playback mode, you can zoom in or out, and pan up, down, left, or right across the image to view it in closer detail.

1. Tap the Zoom icon ⊕ or press the Navigation button up. The zoom and pan controls appear on the LCD screen.
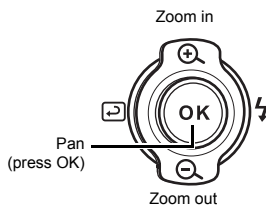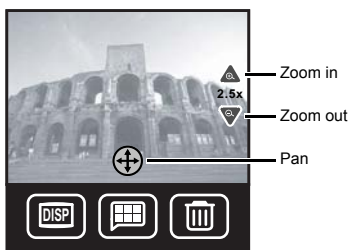
2. Tap the Zoom in ⊕ or Zoom out ⊖ icons. The zoom factor is displayed.
3. Tap the Pan ⊕ icon to bring up the pan controls: left ❮, right ❯, up ⋀, and down ⋁. You can also press OK on the Navigation button to turn panning on and press it left, right, up, or down to pan across the image.
4. When you are finished panning across the photo, tap the 1.0x (1.0x) icon or press OK to return to Playback mode.

6.1.2 Viewing Thumbnails

Thumbnails are a quick way to view the files stored in your camera's memory.

1. In Playback ▶ mode, press the Thumbnail 🗒 icon or press the Navigation button down. Thumbnail view appears on the LCD screen.

Selected file has a red border

Scroll up one page

Selected file #

Total # of files

Scroll down one page

0007
0023
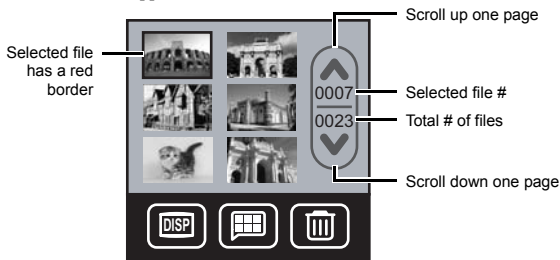
2. Tap ▲ to scroll up or ▼ to scroll down one page. You can also use the Navigation button to scroll up, down, left, and right. A red border appears around the selected file.

Note

• In Thumbnail mode, photos, movies, and sound files appear as follows:

  Photo (see "Viewing Photos" on page 27)

  Movie clip (see "Viewing Movie Clips" on page 30)

  Sound clip (see "Listening to Sound Clips" on page 31)

3. Tap on a thumbnail to view it at full-size in the LCD screen or press OK to view the selected file.

Note

• You can also enter Thumbnail mode by pressing the Menu 📧 button, and then pressing the Thumbnail 🗒 icon.

• You can erase a photo, movie clip, or sound clip in Thumbnail Mode by pressing the Erase 🗑 icon.

Playing Back Photos, Movies and Sound Clips   29

6.2 Viewing Movie Clips

You can play movie clips that are stored in the camera's internal memory or on the installed SD memory card when the camera is in Playback ▶ mode.

Current file #/Total # of files

Playback mode icon ▶ 0017/0019 11-05 Date the clip was recorded (MM-DD)

Current battery level 🎬 00:00:23

Time remaining

View previous file ‹ › View next file

DISP 🎬 🗑
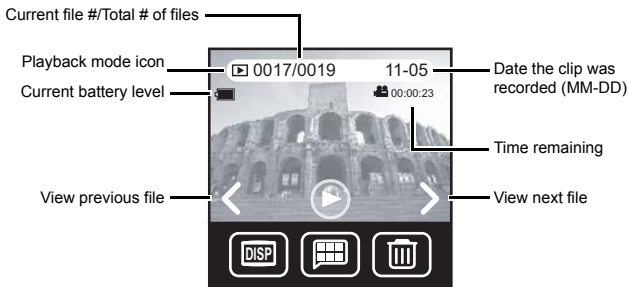
To play a movie clip:

1. Set the Mode switch to Playback mode ▶.
2. The most recently recorded file appears on the LCD screen.
3. Press Next 〉 or Previous 〈 to select a movie clip. You can also press the Navigation button to the left or right to scroll forward or back.
4. Tap Play ▶ or press OK on the Navigation button to start playing the movie clip. The pause (❚❚) and stop (■) buttons appear on the screen.
5. Press OK on the Navigation button will also pause playback.

Note

• Tap the Display button 🎬 to turn off the icons and view the movie clip only.
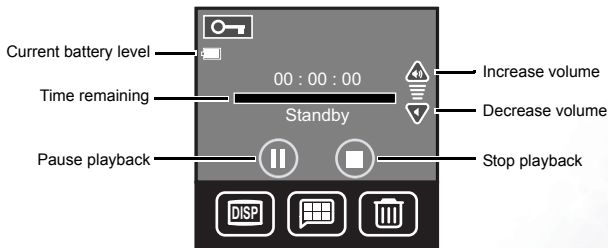
6.3 Listening to Sound Clips

Audio clips can be played in Playback ▶ mode through the camera's built-in speaker.

The LCD screen appears as follows when an sound clip is selected.

TV out

Speaker

Current file #/Total # of files

Playback mode icon
Current battery level

▶ 8/9   01-05

00 : 00 : 00

Standby

Previous file

Play

Next file

Date the sound clip was recorded (MM-DD)

Total playing time

DISP
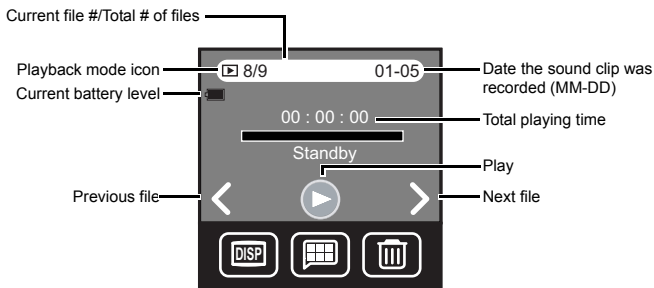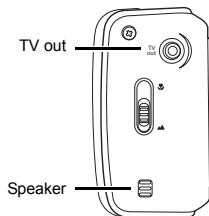
To play a sound clip:

1. Set the Mode switch to Playback ▶ mode.
2. Scroll until you come to a sound clip. You will know it is a sound clip if you see the sound clip playback screen, or when you see a sound clip thumbnail (see "Viewing Thumbnails" on page 29).
3. Tap the Play ▶ icon or press OK on the Navigation button.

Current battery level

00 : 00 : 00

Standby

Time remaining

Pause playback

Stop playback

Increase volume

Decrease volume

DISP

Playing Back Photos, Movies and Sound Clips   31

4. Tap ⟨⟨⟩⟩ to increase the playback volume, tap ⟨⟨⟩ to decrease the volume. You can also press the Navigation button up or down to adjust the volume.

5. Tap ⟨II⟩ to pause playback at any time or tap ⟨■⟩ to stop and return to the beginning of the clip. Pressing OK on the Navigation button will also pause playback.
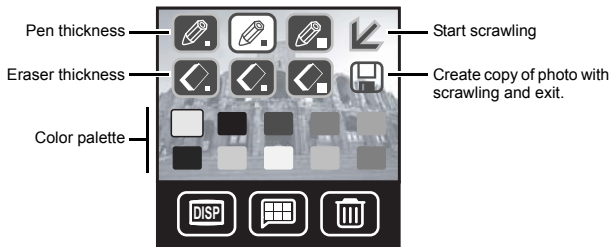
6.4   Special Playback Functions

To access special functions in Playback mode ⟨▶⟩, tap the Menu ⟨▦⟩ icon. Depending on the type of file you are currently viewing (photo, movie clip, or sound clip) the following functions are available.

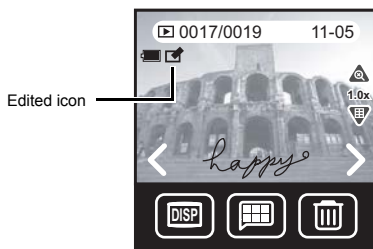| Icon	Function	Description	File Types	Page
⟨✍⟩	Scrawling	Use the stylus to write a note or sketch on top of a photo.	Photo	33
⟨□⟩	Frame	Choose from up to 20 different frames to superimpose on a photo.	Photo	34
⟨🎤⟩	Voice Memo	Record a voice annotation to accompany a photo.	Photo	35
⟨▤⟩	Slide Show	View an automatic slide show on the LCD screen.	Photo Movie Clip	37
⟨🔒⟩	Lock	Lock files to prevent accidental deletion.	Photo Movie Clip Sound Clip	37
⟨▦⟩	Thumbnails	Toggle Thumbnail mode on and off.	Photo Movie Clip Sound Clip	29

6.4.1 Scrawling

Scrawling allows you to write a note or draw a sketch on top of a photograph. You can choose the thickness of the pen or eraser, the color, and decide to save the edited picture as a new file.

1. In Playback ▶ mode, select a photo (not a movie or sound clip).
2. Tap the Menu 📱 icon.
3. Tap the Scrawling 🖋 icon. The Scrawling edit menu appears.

Pen thickness — ✎. ✎. ✎.   Start scrawling — ↙
Eraser thickness — ◇. ◇. ◇.   Create copy of photo with scrawling and exit. — 💾
Color palette —

[DISP] [▦] [🗑]

4. Select the pen size and color you want, then tap ↙ to begin scrawling.
5. Tap the Display button [DISP] to change the pen or eraser size, or color.
6. Tap the Menu 📱 button when you are finished. You are asked if you want to save the new photo with the scrawl. Select Yes to save or No to cancel.

Save as new file?
YES No
[DISP] [▦] [🗑]

7. The Edited ✏ icon appears on the top left of the LCD screen.

▶ 0017/0019   11-05
■ ✏   🔍
                           1.0x

Edited icon —

< happy >

[DISP] [▦] [🗑]

Note

• When you save a photo after scrawling on it, the edited photo is saved as a separate file with a size of 640x480 pixels. The original file remains unchanged in the camera's memory.

Playing Back Photos, Movies and Sound Clips   33

6.4.2 Adding a Frame

The DC E40 comes with up to 20 different frame designs that you can add to your photos for a fun and interesting effect.

1. In Playback ▶ mode, select a photo (not a movie or sound clip).
2. Tap the Menu 🔳 icon.
3. Tap the Frame ⬚ icon. The Frame edit menu appears.

Frame #/Total # of frames — **10 / 15** — Return to Playback mode

Select current frame style

Previous frame style — Next frame style
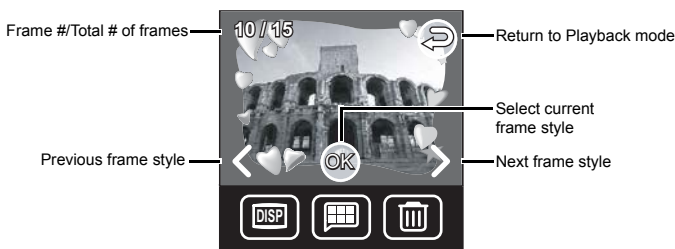
4. Tap ‹ and › or use the Navigation button to scroll through the frame styles. Tap OK to choose a frame style and save the picture directly to a new file. Alternatively, tap the Menu 🔳 icon; you are prompted to save the framed picture as a new file.
5. Tap Yes to save the photo with the selected frame or tap No to cancel and return to Playback mode.
6. The Edited 🗹 icon appears on the top left of the LCD screen.
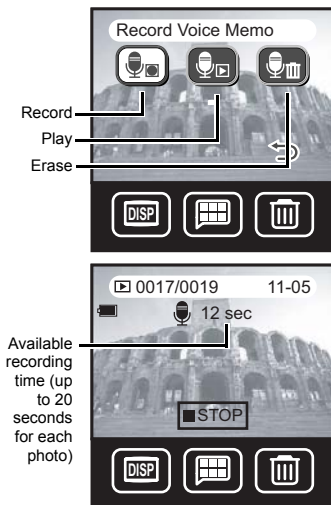
Save as new file?

YES   No

Notes

- When you save a photo after adding a frame, the framed photo is saved as a separate file with a size of 640x480 pixels. The original file remains unchanged in the camera's memory.

6.4.3 Adding a Voice Memo

Adding a voice memo is a useful way of adding notes and reminders to photos.

1. In Playback ▶ mode, select a photo (not a movie or sound clip).
2. Tap the Menu 🔳 icon.
3. Tap the Voice Memo 🔳 icon. The Record Voice Memo screen appears.
4. Tap the Record 🎙 icon to begin recording. The remaining recording time appears on the LCD screen. Tap Stop or press OK on the Navigation button to end recording.
5. Tap Return ↩ to go back to the Playback menu.

Record Voice Memo

Record
Play
Erase

Available recording time (up to 20 seconds for each photo)

0017/0019   11-05
🎙 12 sec
■STOP

Playing Back Photos, Movies and Sound Clips   35

6.4.4 Listening to Voice Memos

Follow these steps to listen to a voice memo that was previously added to a photo.

1. In Playback ▶ mode, select a photo with a voice memo. You will see the Voice Memo icon 🎤 in the top left corner of the LCD screen.
2. Tap the Menu 🖼 icon.
3. Tap the Voice Memo 🎤 icon. The Record Voice Memo screen appears.
4. Tap the Play Voice Memo 🎤▶ icon to play the voice memo for the photo using the camera's built-in speakers or attached headphones.
5. Tap Stop or press OK on the Navigation button to stop playback at any time.
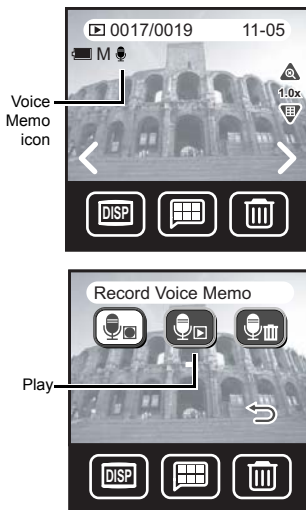
Note

• A photo can have only one voice memo. If you record a voice memo for a photo with an existing voice memo, the previous voice memo will be erased.

6.4.5 Erasing Voice Memos

Follow these steps to erase a voice memo that was previously added to a photo.

1. In Playback ▶ mode, select a photo with a voice memo. You will see the Voice Memo icon 🎤 in the top left corner of the LCD screen.
2. Tap the Menu 🖼 icon.
3. Tap the Voice Memo 🎤 icon. The Record Voice Memo screen appears.
4. Tap the Erase Voice Memo 🎤 icon to erase the voice memo for the photo.
5. Tap Yes or to erase the voice memo, or tap No to cancel.

6.4.6 Playing a Slide Show

The camera can automatically display photos (or the first frame of movie clips) stored in memory in sequence at a two-second interval. Movie clips and sound clips are not played during slide shows.
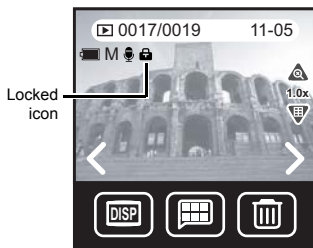
1. In Playback ▶ mode, tap the Menu 🖼 icon.
2. Tap the Slide Show 🔲 icon. The slide show begins.
3. Tap the Menu 🖼 icon or press OK to stop the slide show and return to the Playback mode menu.

6.4.7 Locking and Unlocking Files

Locking photos, movie clips, and sound clips stored in your camera's memory or on an installed SD memory card prevents them from being accidentally deleted. You can lock and unlock individual files, or all files.

6.4.7.1 Locking a Single File

1. In Playback ▶ mode, select the photo, movie clip, or sound clip you want to lock.
2. Tap the Menu 🖼 button.
3. Tap the Lock 🔒 icon.
4. Tap the single Lock 🔒 icon. The screen returns to the Playback menu.
5. Tap Return ↩. The Locked icon 🔒 now appears at the top left corner of the playback screen.

Locked icon

Note

• To delete a file that is locked, you must first unlock it. See "Unlocking Single Files" on page 38.

Playing Back Photos, Movies and Sound Clips   37

6.4.7.2 Locking all Files

1. In Playback ▶ mode, tap the Menu 🔳 button.
2. Tap the Lock 🔒 icon.
3. Tap the Lock All 🔒 icon.
4. Tap Yes to lock all files or tap No to return to the Lock menu.
5. Tap Return ↩. The Locked icon 🔒 appears at the top left corner of the playback screen for all photos, movie clips, and sound clips.

6.4.7.3 Unlocking Single Files

1. In Playback ▶ mode, select a file that is locked (the Locked icon 🔒 should be visible).
2. Tap the Menu 🔳 button.
3. Tap the Lock 🔒 icon.
4. Tap the Unlock 🔓 icon. The screen returns to the Playback menu.
5. Tap Return ↩. The Locked icon 🔒 no longer appears at the top left corner of the playback screen.

6.4.7.4 Unlocking all Files

1. In Playback ▶ mode, tap the Menu 🔳 button.
2. Tap the Lock 🔒 icon.
3. Tap the Unlock All 🔓 icon.
4. Tap Yes to unlock all files or tap No to return to the Lock menu.
5. The screen returns to the Playback menu.
6. Tap Return ↩. The Locked icon 🔒 no longer appears at the top left corner of the playback screen for all photos.

Note

• You cannot add a voice memo for a locked image file.

6.4.8 Erasing Single Files

Erasing a photo, movie clip, or sound clip permanently removes the file from memory. It cannot be recovered. It is strongly suggested that you lock files that you are certain you want to keep. See "Locking and Unlocking Files" on page 37 for more information.

1. In Playback ▶ mode, select the photo, movie clip, or sound clip that you want to delete.
2. Tap the Erase 🗑 button located below the LCD screen.
3. Tap Yes to erase the file or tap No to cancel and return to Playback mode.

Erase button

Note

• To erase a file that is locked, you must first unlock it. See "Unlocking Single Files" on page 38.

6.4.9 Erasing All Files

Selecting this action will permanently remove all unlocked photos, movie clips, and sound clips from the camera's memory.

1. In Playback ▶ mode, tap the Erase 🗑 button located below the LCD screen.
2. Tap the Erase All 🗑 icon.
3. Tap Yes to erase all files or tap No to cancel and return to Playback mode.

Erase All

Erase button

CAMERA SETTINGS

Camera settings can be accessed in any mode by tapping the Menu ▣ button and then tapping the Setup ⚲ icon. Some settings are located on the second setup screen, accessed by tapping Next ➪ .
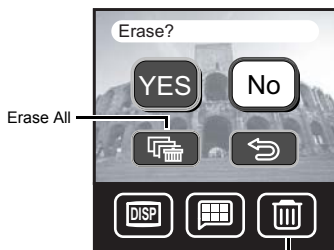
You can change or adjust a number of basic camera settings including:

Icon	Setting	Description	Page
[SD]	Memory	Copy files from internal memory to an installed SD card. Format an SD card or internal memory.	41
[📷]	Date/Time	Adjust the camera's date and time.	42
[YMD]	Date Format	Select the date format used for the Date Imprint feature (page 22).	42
[☀]	LCD Brightness	Set the LCD screen to Bright or Normal.	43
[🔊]	Sound	Turn the camera's system sound effects on or off.	43
[123]	File Number Reset	Reset the automatic file counter.	43
[NT SC]	Video Output	Select NTSC or PAL video output.	44
[🔋]	Power Saving	Set the camera to automatically power off after three minutes of disuse.	44
[En]	Language	Select the default menu language.	45
[🔲]	Default Setting	Return all camera settings to factory preset values.	45
[Ver]	Software Version	Display the installed firmware version number.	46
[⊕]	Screen Calibration	Reset the touch screen point and tap settings.	46

7.1 Memory: Copying and Formatting

This function enables you to:

• copy files from the camera's internal memory to an installed SD memory card
• format an installed SD memory card or the camera's internal memory

Follow the steps below.

1. Tap Menu 🔳, then tap Setup 🔧.
2. Tap Memory 🔳.
3. To copy files from the camera's internal memory to an installed SD memory card, tap 🔳.
   You are prompted to confirm the action.
4. To format an installed SD memory card, tap 🔳.
   You are prompted to confirm the action.
5. To format the camera's internal memory, make sure an SD card is not installed, and follow steps 1 to 3 above. The internal memory icon 🔳 appears.
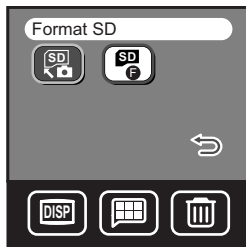
Note

• Formatting an SD card or internal memory permanently removes all files, even if files are locked (see "Locking and Unlocking Files" on page 37).
• If an SD card is corrupted or you are having problems storing files on the camera, formatting the card will usually solve the problem.
• Always format the SD card using the camera's function. Formatting the SD card with another camera or with a computer may make it unusable with the DC E40.

7.2 Setting the Date and Time

Setting the date and time correctly is important as this information is stored with the photos you take, and is used if you have turned Date Imprint on (see "Date Imprint" on page 22).

1. Tap Menu 📧, then tap Setup 🔧.
2. Tap Date/Time 🕒.
3. Tap the year. The value adjust screen appears.
4. Tap 🔼 to increase the year or tap 🔽 to decrease the year. You can also use the Navigation button to adjust the values.
5. Repeat Step 4 for the remaining values.
6. Tap 🆗 to save the changes or tap ↩ to cancel and return to the Setup menu.
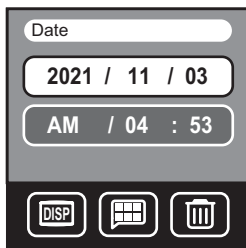
7.3 Date Format

The camera can store and display the current date in three different formats:

- [YMD] Year - Month - Day (e.g. 04 01 31)
- [MDY] Month - Day - Year (e.g. 01 31 04)
- [DMY] Day - Month - Year (e.g. 31 01 04)

Follow these steps to change the date format:

1. Tap Menu 📧, then tap Setup 🔧.
2. Tap Date Format [YMD].
3. Tap the format you prefer.
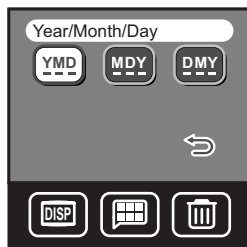
7.4 LCD Brightness

The brightness of the LCD screen can be set to Bright or Normal. The Bright setting is useful for use in brightly-lit areas, however, battery power is consumed at a faster rate.

1. Tap Menu 🔲, then tap Setup 🔧.
2. Tap LCD Brightness 🔆.
3. Tap Bright 🔆 or Normal 🔅.
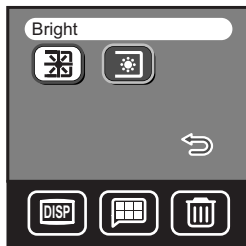
7.5 Sound

The Sound function enables you to toggle system sound effects (such as the beep when tapping or scrolling) on or off.

1. Tap Menu 🔲, then tap Setup 🔧.
2. Tap Sound 🔊.
3. Tap On 🔊 or Off 📷.

Note

• The shutter and warning sounds cannot be turned off.
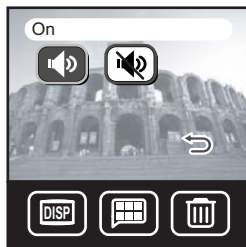
7.6 File No. Reset

The DC E40 automatically assigns incrementing numbers to the file names of all photos, movie clips, and sound clips that you record. You can choose to reset the auto numbering to start from 1. This can be useful if you have erased all files from memory or formatted the SD card.

1. Tap Menu 🔲, then tap Setup 🔧.
2. Tap File No. Reset 🔢.
3. Tap Yes YES or No No.

Camera Settings 43
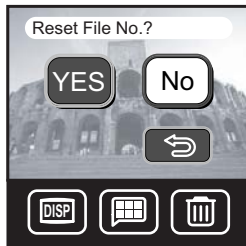
7.7 Video Output

The camera's TV out port provides audio and video output for listening to sound clips and viewing photos or video clips on a standard TV screen. Use the Audio/Video setup function to set the operating mode.

Set the video output mode to either NTSC or PAL. Refer to your local authorities for information on whether NTSC or PAL is used in your region.

For information on connecting your camera to a TV, see "Connecting to a TV" on page 47.

1. Tap Menu 🗐, then tap Setup 🔧 and tap Next ⇨.

2. Tap Video Output ⟮NTSC⟯.

3. Tap NTSC Out ⟮NTSC⟯, or PAL out ⟮PAL⟯.

7.8 Power Saving

When power saving is turned on, the LCD screen will turn off after three minutes of disuse, and will shut down completely after five minutes. It is recommended that power saving be turned on to avoid accidental discharging of the battery.

1. Tap Menu 🗐, then tap Setup 🔧 and tap Next ⇨.

2. Tap Power Saving ⟮⟯.

3. Tap On ⟮⟯ or Off ⟮⟯.

7.9 Language

The DC E40's on-screen menus and messages can be displayed in eight different languages, including: English, Spanish, German, French, Italian, Portuguese, Simplified Chinese, and Traditional Chinese.

1. Tap Menu 🔲, then tap Setup 🔧 and tap Next ⇨.
2. Tap Language 📖.
3. Tap the language icon you prefer.
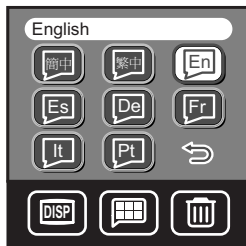
Note

• If you accidentally set the language to one that you don't understand, you can restore your preferred language by tapping the appropriate language icon.

7.10 Default Setting

Selecting this functions returns all camera settings to the condition they were in at the factory.

1. Tap Menu 🔲, then tap Setup 🔧 and tap Next ⇨.
2. Tap Default Setting 🔲.
3. Tap Yes (YES) or No (No).
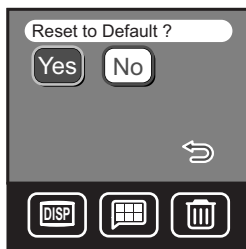
7.11 Software Version

This function displays the version number of the software installed in the DC E40. Should you ever require technical assistance (see "Service Information" on page 56), the technician you speak to may request this information.

1. Tap Menu 🔢, then tap Setup 🔧 and tap Next ⮕.
2. Tap Software Version (Ver).
3. The software version appears on the screen. Tap Return ⮌ to exit.

V1000
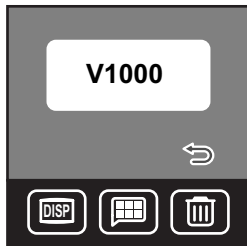
7.12 Screen Calibration

Over time, the LCD touch screen may become uncalibrated, making it difficult to tap on icons, sliders, or other objects. If this occurs, you should calibrate the screen as follows.

1. Tap Menu 🔢, then tap Setup 🔧 and tap Next ⮕.
2. Tap Screen Calibration (⊕).
3. Follow the instructions that appear on the screen.
4. If the calibration succeeds, the camera will restart itself. If it fails, repeat steps 1 to 3.

Please tap the target of the center to start
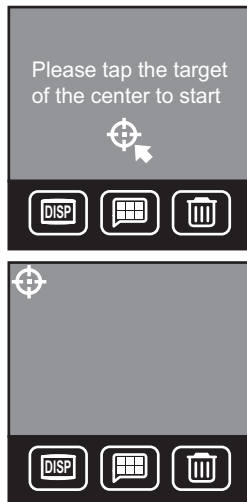
❽ CONNECTING TO A TV

You can connect the DC E40 to a television and view photos and movie clips on a large screen.

Use the included AV to connect the DC E40 to your television as illustrated below. Your own television input jacks may differ from the illustration. Refer to your television's user manual for assistance.

Connect the yellow RCA jack to the television's Video In port.

Connect the white RCA jack to the television's left or right Audio In port.

AV
R   L   VIDEO

Connect the small end of the AV cable to the camera's TV out port.
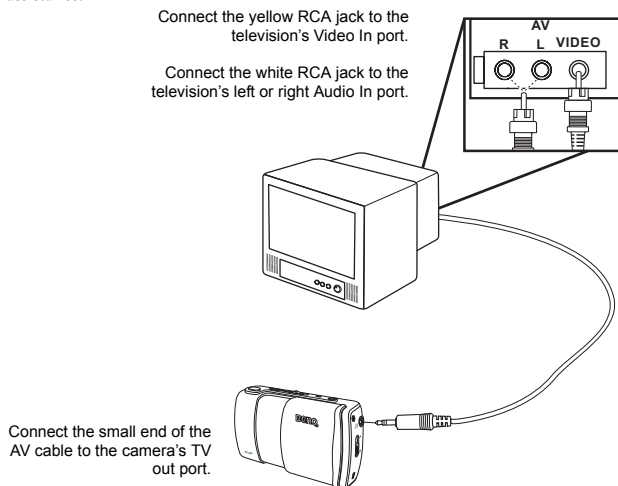
1. Turn the camera off and connect the AV cable's mini-plug to the camera's earphone jack.
2. Connect the two RCA jacks to your television as illustrated above.
3. Turn the camera on. Everything you can see on the camera's LCD screen also appears on the television. The image on the camera LCD screen indicates that the TV has been successfully connected. Then the LCD screen turns off; view the previous or next image by pressing the Navigation button.
4. Use the DC E40's playback functions to view photos, movie clips, etc. Refer to "Playing Back Photos, Movies and Sound Clips" on page 27 for more information.

Note

- Turn the camera off before disconnecting it from the TV.
- You may need to change the camera's PAL or NTSC video format setting depending on your region. For information, see "Video Output" on page 44.
- The DC E40 supports mono audio output only.

◉ CONNECTING TO A COMPUTER

Connecting the DC E40 to your computer enables you to perform the following functions:

• upload photos, movie clips, and sound clips to your computer for storage and organization

Before connecting to a computer running Microsoft Windows, you must first install the software that is included on the software installation CD-ROM that came with the DC E40.

9.1   Installing the Digital Camera Software

• It's recommended that you set up the driver and software before connecting the digital camera to your PC. Normally, a software installation menu appears automatically after this installation CD is inserted into your CD-ROM drive. If the menu does not appear, browse the CD with Windows Explorer, find a program file named "Autorun.exe" in the root directory and double-click it. The setup menu appears.
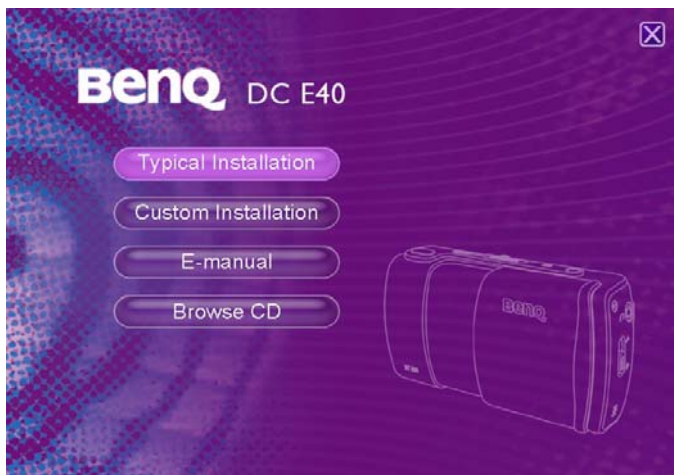
• Click each item to install the software program of your choice.

To browse the content of this CD and install software manually, refer to the descriptions of the CD content in the next section.

9.2 Bundled Software

The software installation CD-ROM included with the DC E40 includes the following software. Please refer to the software's help or electronic user manual for instructions.

Software	Description
PhotoBase	Arcsoft PhotoBase enables you to efficiently find and organize your media-files. Use it to create slide shows, Web albums, or video postcards, and share your media-files with your friends on the Internet.
PhotoImpression	ArcSoft PhotoImpression is an easy-to-use photo editing and creative design program. Edit and retouch your photos, then add special effects or place them in cards, calendars, frames and fantasy templates. PhotoImpression also includes a wide variety of printing options.
VideoImpression	Arcsoft Video Impression lets you edit and combine video files. New videos can be created by existing video, animation, and image files. Quickly and easily create desktop video presentations for use at home, business, or on the Internet.
PhotoPrinter Pro.	Arcsoft Photo Printer is a versatile printing utility that lets you print out several different images on a single sheet of paper. It's as simple as opening your image, selecting from an assortment of templates and clicking Print.
Microsoft DirectX	Microsoft DirectX is an all-in-one and cross-platform media tool.
Microsoft Media Player	Microsoft Media Player is a Windows utility that plays audio, video, and streaming formats as well as many other popular audio and video formats, including MP3, CD audio, and MIDI files.
Acrobat reader	Adobe Acrobat Reader is a "must have" utility to read files in the popular cross-platform PDF file format.
QLink	BenQ QLink is a utility for your smart photo downloads, and has printout and edit functions. Share via e-mail with others, for photos folders management and show slide show photos on screen.

9.3 Transferring Files To/From a Computer

This section explains how to transfer images, movies between your camera and a PC using Windows XP/ME/2000/98SE.

9.3.1 Transferring Photos, Movie Clips, Sound Clips, and Music Files

This section shows you how to use the Windows Explorer utility to manipulate files between your camera and a PC.

1. Turn on the computer.
2. Turn on the camera.
3. Connect the camera to the PC with the included USB cable. Ensure that the connection is secure.
4. Tap "QLink-Storage" on the camera's LCD screen.
5. A new disk appears in Windows Explorer labelled "Removable Disk." (See note below).
6. Stored photos, movie clips, and sound clips can be found in the directory "Removable Disk\DCIM\100MEDIA".

USB cable
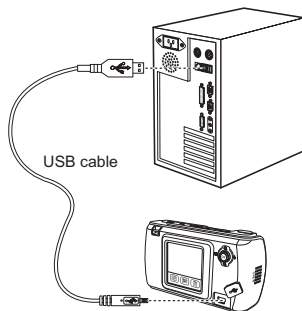
Copy, view, delete, and move images, movie clips, sound clips, and music files using standard drag and drop Windows Explorer commands.

Note

- If an SD memory card is installed, two "Removable Disks" will appear in Windows Explore. One represents the camera's internal memory, the other represents the SD card.
- Photo files have the suffix ".jpg"
- Voice Memo files have the suffix ".htm"
- Downloaded frame files have the suffix ".bqf" (not built-in frame files)
- Movie clips have the suffix ".mpg"
- Sound clips have the suffix ".wav"
- Refer to your computer's Help for information on viewing or playing multimedia files on your computer.

9.3.2 Using the QLink Software

The included QLink software is a useful tool for downloading photos from your camera to your computer, and then displaying, e-mailing, printing, or editing them.

After successfully installing the software (see "Installing the Digital Camera Software" on page 48), follow the steps below to get started with QLink.

1. Turn on the computer and start the QLink software.

2. Turn on the camera.

3. Connect the camera to the PC with the included USB cable. Ensure that the connection is secure.

4. Tap "QLink-Storage" on the camera's LCD screen. The software takes a moment to detect and mount the camera.

5. A new disk appears in the navigation panel on the left labelled "Removable Disk."

6. Photos, movie clips, and sound clips stored on your camera are displayed in the preview screen at center.

7. The buttons at the left of the screen allow you to view a slide show, e-mail selected photos, print selected photos, edit photos, change program settings, and exit the program.

8. Refer to the built-in QLink help for more information on all of QLink's features.

Note

- SD memory cards in the following sizes are supported: 8MB, 16MB, 32MB, 64MB, 128MB, 256MB, and 512MB. The DC E40 is compatible with SD memory cards manufactured by Panasonic, Toshiba, and Sandisk. Please contact your local dealer for purchasing information.

9.3.3 Using the QLink Frame

The included QLink software is also the tool for transferring downloaded frames from your computer to your camera.

After successfully installing the software (see "Installing the Digital Camera Software" on page 48), follow the steps below to get started with QLink.

1. Turn on the computer and start the QLink software.

2. Turn on the camera.

3. Connect the camera to the PC with the included USB cable. Ensure that the connection is secure.

4. Tap "QLink-Frame" on the camera's LCD screen. The software takes a moment to detect and mount the camera.

5. The QLink Frame software will automatically launch as below.
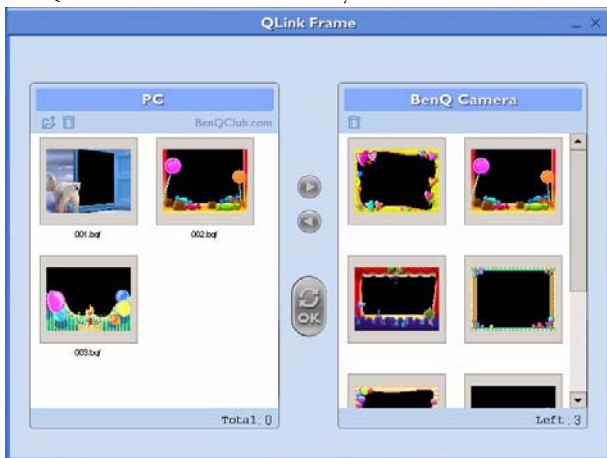
6. If you've downloaded frames from our Web site (refer to 9.3.3.1 "Downloading Frames"), click 📤 and browse to the location of the downloaded frames to transfer them to the QLink Frame PC window.

7. Select frames in either the PC or BenQ Camera window, and click ▶ to copy frames from the PC to the camera or click ◀ to transfer frames from the camera to the PC. Click a frame and drag it to 🗑 in either window to remove the frame from the window.

8. When you have finished copying frames between the PC and BenQ Camera window, click 🔄 to transfer the files.

9. When you have finished transferring files, detach the camera from the PC; then turn the camera on to make the changes effective.

Note

- You can also import frames from the bundled CD in the directory CD-ROM/PHOTO-FRAMES.

9.3.3.1 Downloading Frames

The DC E40 comes with 10 fun photo frames pre-installed in the camera's internal memory. You can download and install up to 10 more frames styles and also get more information about downloading frames at other locations on the BenQ Web site at the following address: *www.BenQ.com.tw/global/*

🔟 TROUBLESHOOTING

Symptoms	Causes	Solutions
The power won't turn on.	• The battery is out of power. • The AC power adapter is not connected or is damaged. • The USB cable is not properly connected to the camera or PC.	• Use the AC power adapter to charge the battery. • Make sure the AC power is connected and it's not damaged. • First turn on the PC, then connect the camera and PC with the USB cable.
The power turns off during use.	• The battery is out of power. • Power Saving mode is enabled. • The battery/SD card cover is opened when in use. • The adapter has not been connected properly.	• Use the AC power adapter to charge the battery. • Switch on the power. • Do not open the battery/SD card cover when the camera is in use. • Connect the adapter correctly.
The battery power is being used up too quickly.	• The external temperature is too cold. • The battery is not used for a long time.	• Keep the camera away from extreme temperatures. • Recharge the battery with the AC power adapter or USB cable.
The camera does not take pictures when the shutter button is pressed.	• The camera is not in Snapshot Mode. • The battery is weak. • The power has not been switched on.	• Set the Mode switch to Snapshot mode. • Replace the battery. • Switch on the power.
The close-up image is blurred.	• Select the correct focus range.	• If the subject is within 30 to 100 cm (12 to 40 inches), select Macro mode.
The flash does not fire.	• The camera flash is turned off. • The light source is sufficient. • The flash is not fully charged.	• Set the flash mode to Auto Flash, Forced Flash, or Red-Eye Reduction mode. • Wait for the flash to fully charge.
There is something wrong with the color of the captured image.	• White balance is not set properly.	• Set the white balance to Auto mode or other suitable mode.
The picture is too bright or too dark.	• There is excessive or inadequate exposure.	• Reset EV bias value.
The LCD screen is not clear.	• The LCD screen plastic cover is dirty. • The LCD screen has hot spots.	• Clean the LCD screen with a soft cloth. • Hot spots are normal and do not affect the camera's functionality.
The camera cannot download images to the PC.	• The cable is not connected properly. • The camera is off. • OS is not Windows 98SE /2000/ME/XP or the PC is not equipped with a USB port. • USB driver is not installed (Windows 98SE only).	• Check the cable connection. • Turn on the power. • Install Windows 98SE/2000/ME/XP and USB port. • Install the USB Driver (Windows 98SE only).

🔟 SPECIFICATIONS

Image Sensor	1/2.5-inch 4.23 megapixel CCD with 4.0 megapixel effective resolution
Lens	f=35 mm (35 mm film equivalent) F 3.2/F 8.0
Digital Zoom	Digital: 4X
LCD Monitor	1.5-inch color LTPS LCD
Focus Range	Macro: 30~100 cm, Normal: 100 cm to infinity
Shutter Speed	1/20 ~ 1/1000 seconds (2~1/1000 seconds for Night Scene)
Exposure	Metering: Spot, Center-Weighted Average, Average Exposure compensation ±2 EV (0.3 EV / step)
ISO Equivalent	Auto, 100, 200
White Balance	Auto / Daylight / Cloudy / Tungsten / Fluorescent
Flash	Auto / Forced Flash / Flash Off / Red - Eye Reduction
Self-Timer	10 seconds
File Format	Still image: JPEG (EXIF 2.2)
Movie Mode	ASF format Size: 320x240 with sound (continuous)
Image size	2848 x 2136 pixels, 2304 x 1728 pixels 1600 x 1200 pixels, 1280 x 960 pixels
Dictaphone	WAV format (continuous)
Voice Memo	WAV format (20 seconds)
Storage Type	Built-in 8MB / SD card compatible
Interface	Digital out: USB 1.1 TV out: Audio/Video output DC power input: 5V
Power Source	Rechargeable Lithium-ion battery / AC adapter / USB cable
Dimensions (WxHxD)	100.8 x 55.2 x 27.5 mm
Weight	125g (without battery)
CD-ROM Contents	QLink Arcsoft PhotoBase Arcsoft PhotoImpression Arcsoft VideoImpression Arcsoft PhotoPrinter Adobe Acrobat Reader Microsoft DirectX Microsoft Media Player Electronic User's Manual

11.1 System Requirements

- Pentium 166 MHz MMX class or higher CPU
- 64 MB RAM
- CD-ROM drive
- 100 MB free hard disk space
- Available USB port
- Windows 98SE/2000/ME/XP

⑪ SERVICE INFORMATION

If you encountered problems using DC E40 and the camera driver program, please send an E-mail (containing detailed descriptions of the problem you came upon, the hardware and software environment of your system) to the following addresses:

USA: support-sc@BenQ.com

Europe: service@BenQ-eu.com

Taiwan: service-tw@BenQ.com

China: service_china@BenQ.com

Asia: support@BenQ.com

Australia and New Zealand: service-au@BenQ.com

For free driver program updates, product information and news release, please visit the following web address:

http://www.BenQ.com.tw/global/