DC 2410

User's Manual

Benq

Copyright

Disclaimer

Taking care of your camera

- Do not use your camera over the following environmental range: temperature: O°C to 40°C, relative humidity: 45% ~ 85%.
- Do not use or store your camera in environments listed below:
  Direct sunlight.
  High humidity and dusty places.
  Next to the air conditioner, electric heater or the other heat sources.
  In a closed car that is directly under the sun.
  Avoid shaky places.
- If your camera becomes wet, wipe it with dry cloth as soon as possible.
- Salt of 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, please use the 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, please 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 the water.
- If the foreign substance or water gets in your camera, please tum 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.

BenQ DC 2410 User's Manual

1. TOURING YOUR DC 2410

1.1. Checking package contents

The package should include the following items:

DC 2410 digital camera   Camera pouch   USB cable   Hand Strap

2 pcs of AA Battery   DC 2410 software CD-ROM   User's Manual

1.2. Parts of the DC 2410 and their names

1.2.1. Front View

Shutter Button   Viewfinder

Mode Dial

Self-timer Indicator LED

Lens

Flash

Focus Switch

USB Connector

DC In Connector

Lens Cover Switch

1.2.2. Rear View

Viewfinder

Indication LED

TFT LCD Monitor

Power Switch

Menu/ Enter button

Strap Eyelet

Direction Button
(Up/Down/Right/Left)

LCD Button

1.2.3. Top View

Shutter Button

Mode Dial

1.2.4. Bottom View

Battery/ Memory
Card cover

Tripod mount
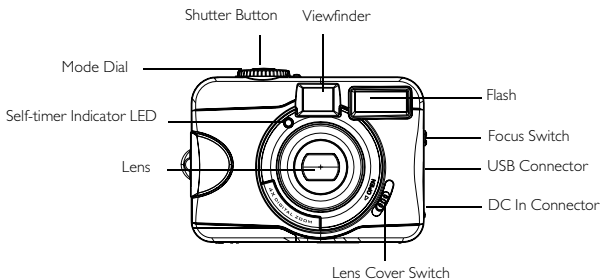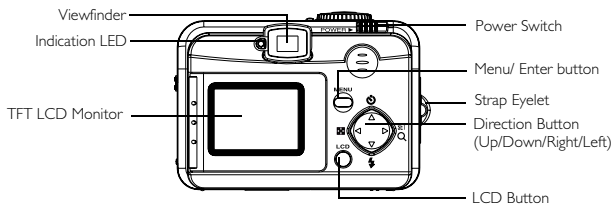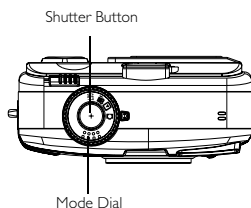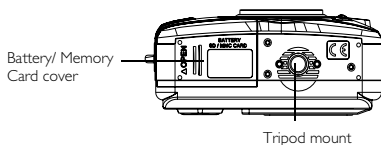
1.2.5. Mode Dial and Focus Range

Mode Dial

- Recording Mode (◻)
- Playback Mode (▶)
- Video Mode (🎥)
- Setup Mode (SET)

Focus

- Macro (♣) : 0.2 m
- Normal (▲▲) : 0.8m~infinity

2

2. PREPARING YOUR DC 2410 FOR USING

2.1. How to Switch On or Switch Off The Camera

Slide the "POWER" switch sideways and hold it a while to switch on the camera. Repeat the action above to switch off the camera.

■ Load the Batteries:

1. Check if the camera is switched off.

2. Slide the Battery / Memory Card Cover out to open it.

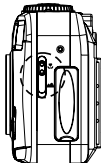3. Load 2 x AA batteries into the battery chamber, following the polarity indications.
4. Close the Battery / Memory Card Cover.

Note

The below symbols are the indication of the battery status on the TFT LCD Monitor.

(▭) Battery power is full.

(▭) Battery power is half drained. Have new batteries ready.

(▭) Battery power is drained. Replace the batteries you are using now.

Note

Please use the below suggested battery to ensure that the battery is of acceptable quality to support the camera's operation:

Brand	Type
Duracell Ultra	Alkaline

Note

1. Batteries may lose power if kept inside the camera for a long time without using. Please remove the batteries while the camera is not in use.
2. Do not use manganese batteries as they cannot supply sufficient power to support the camera's operation.
3. Batteries may not work normally under 0°C.
4. It's normal that the temperature of the camera body rises a little after being in use for a long period.

■ Attach the Hand Strap:

Please follow the illustrations.

1.   2.   3.

2.2. Insert and Remove the SD Card

■ Insert the SD Card

(1) Switch off the camera.
(2) Open the Battery / Memory Card Cover.
(3) Insert the SD card into the card slot
    and press it down until you hear a click sound.
(4) Close the Battery / Memory Card Cover.

Note

If a new SD card is used, you'll have to format it first. Please refer to page 16 for details.

Note

This camera is equipped with a built-in flash memory. The image(s) can be stored in the built-in memory or in a memory card if used. Please note that if a memory card is not inserted, all operations will affect only the built-in flash memory. If the memory card is inserted, all operations will affect only the memory card but not the built-in flash memory.

■ Remove the SD Card

(1) Make sure the camera is switched off.
(2) Open the Battery / Memory Card Cover.
(3) Press down the SD card and the card will jump
    up.
(4) Take out the card and close the Battery / Memory
    Card Cover.

2.3. LCD Display Icon Definition

Flash mode
(🔺A)Auto flash
(◯)Auto flash with
red-eye reduction
(☪)Slow sync
(⚡)Fill-in flash
(🚫)Flash off

White balance
(AUTO)Auto
(☀)Daylight
(🌄)Sunset
(☲)Fluorescent
(☀)Tungsten

Voice Memo

Working mode

Digital zoom

Focus Range

Battery status
(▭) Battery power full
(▭) Battery half drained
(▭) Battery drained

0006

Image quality
(✷)Super fine
(★★)Fine
(★)Normal

Image size
(XL)2560x1920
(☐)2048x1536
(M)1600x1200
(S)1280x960

+0.5

2003/10/30

Exposure

Memory card inside

Date stamp

2.4. Icon Index

| Icon Index					
Working Modes	📷	▶	🎬	SET	
Focus Range	🌷	▲▲			
Flash Modes	🔺A	◯	☪	⚡	🚫
Digital Zoom	꙰				
Thumbnails	▦				
Self-timer	⟳				
Movie Clips	🎬				
Memory Card Inside	☐				
Battery Status	▭	▭	▭		
Image Size (Resolution)	S	M	☐	XL	
Image Quality	★	★★	✷		
White Balance	AUTO	☀	🌄	☲	☀
Exposure	±0	▧			
Voice Memo	🎤				
Protecting Images	⊶				
Print (DPOF)	🖹				
Darkness Warning	✋				

3. USING THE DC 2410

The functions of DC 2410 are mainly composed of five modes: Recording mode, Playback mode, Video Mode, and Setup Mode. In this chapter, we will introduce the functions of DC 2410 according to these four modes.

■ Basic Photography

1. Open the lens cover.
2. Switch on the power.
3. Set the Mode Dial at Shooting Mode (🔲) for still image or Movie Clip Mode (📹) for video recording.
4. The setting of the focus range for still image capture is required as follows:

    Macro (🌷) : 0.2m

    Normal (🔺): 0.8m~infinity
5. Refer to the next section -- "Working Mode" (page 7) to set up the features you prefer.
6. Hold still and press down the Shutter Button.
7. The LED Indicator starts blinking right after the Shutter Button is released.
8. Once the LED Indicator stops blinking, you are ready to take another shot.

1.

2.

3.

4.

5.
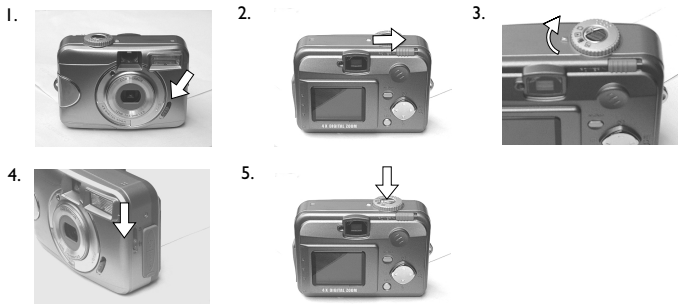
Note

A message of "LENS COVER" blinking on the TFT LCD Monitor as a warning is to remind you of opening the lens cover first.

Note

The TFT LCD Monitor will show "Low Light!" as a warning to remind you that the image which you are going to capture is in a low light environment. It is suggested to set the Flash Mode at Auto Flash or Fill-in Flash for supplementary light to compose a good image.
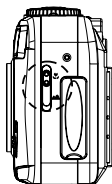
Working Mode

3.1. Recording Mode

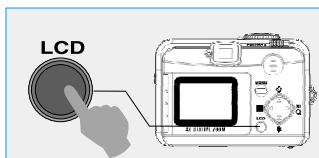Please set the Mode Dial at Recording Mode (<img>) before setting up the below functions.

I. Set Up Focus Range

Before you take pictures, please make sure you set the Focus Switch at the correct focus range or the image may not be clear.

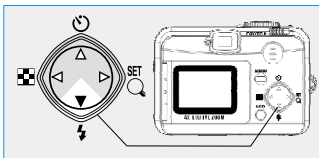a. Macro (✿): 0.2m.
b. Normal(▲▲): 0.8m~infinity.

II. Turn On or Turn Off the LCD Display (Preset at On status)

You can change the icon display on the TFT LCD Monitor, turn it off, and turn it on again by pressing the LCD button in order.

#### III. Set Up Flash Mode (Preset at Auto Flash mode)

You can change the flash mode shown below according to the environment.

There are five flash modes as below:

a. Auto flash(⚡A): The camera will judge the necessity of using the flash. If the environment is too dark the flash will fire automatically.

b. Auto flash with red-eye reduction(⬤): The camera will judge the necessity of using the flash and reduce the chance of red-eye reduction.

c. Slow sync (🌟): The shutter speed will become slow in order to catch more light to make good images in low light circumstances. Under this mode, it is suggested to use a tripod to make sure the camera is held still while taking the picture.

d. Fill-in-flash(⚡): The flash will fire in any light circumstances.

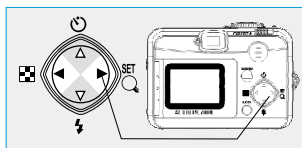e. Flash off (🚫): The flash will not fire in any light circumstances.

IV. Set Up Self-timer (Preset at no self-timer)
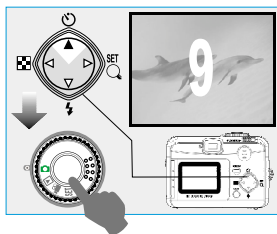
The self-timer starts with the countdown for 10 seconds.

The self-timer will be automatically cancelled once the shoot is done.

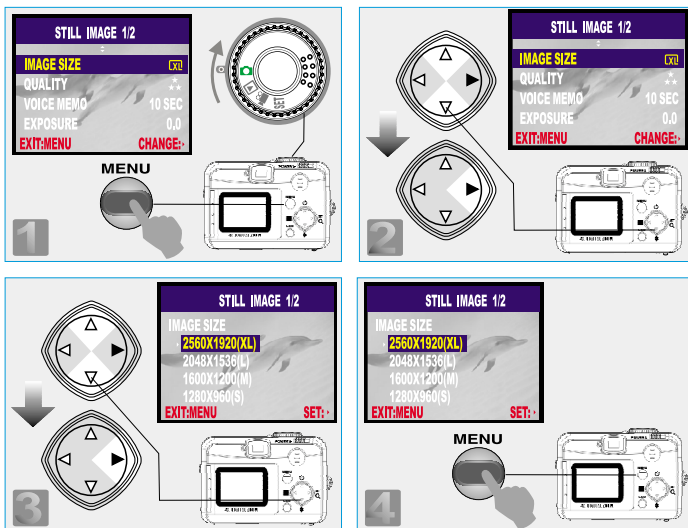**V. Set Up Digital Zoom (Preset at no digital zoom)**

The zoom bar, appearing on the left on the TFT LCD monitor, shows the current digital zoom position.

Note

It is normal that the image with digital zoom is not as sharp comparing to the image without digital zoom.

VI. Set Up Image Size (Preset at 1600 x 1200)

Step **1** : To enter the setting mode.   Step **2** : To select and enter the option.

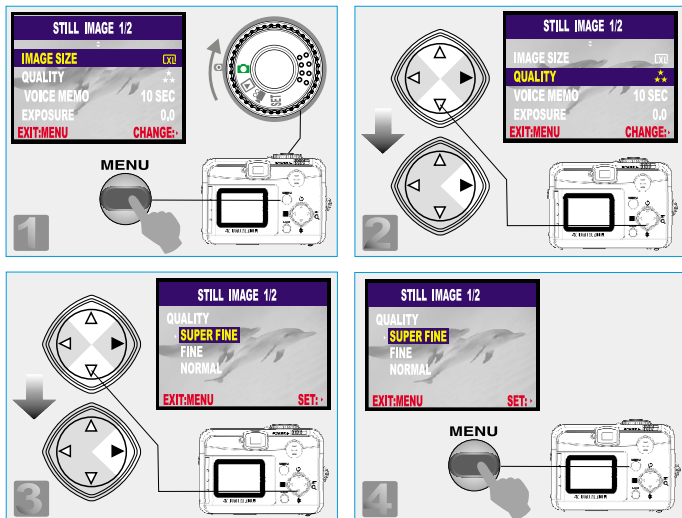Step **3** : To select and confirm the option.   Step **4** : To escape the setting.

Four resolutions provided can be selected as follows:

(🗔) 2560 x 1920 (XL)

(🗔) 2048 x 1536 (L)

(🗔) 1600 x 1200 (M)

(🗔) 1280 x 960 (S)

Note

You can easily check whether the setting is changed or not by the resolution icon display on the right side of the LCD screen. If not, please repeat the above steps.

VII. Set Up Image Quality (Preset at Fine quality)

STILL IMAGE 1/2
IMAGE SIZE
QUALITY
VOICE MEMO   10 SEC
EXPOSURE   0.0
EXIT:MENU   CHANGE:

MENU

STILL IMAGE 1/2
IMAGE SIZE
QUALITY
VOICE MEMO   10 SEC
EXPOSURE   0.0
EXIT:MENU   CHANGE:

STILL IMAGE 1/2
QUALITY
  SUPER FINE
  FINE
  NORMAL
EXIT:MENU   SET:

STILL IMAGE 1/2
QUALITY
  SUPER FINE
  FINE
  NORMAL
EXIT:MENU   SET:

MENU

Step **1** : To enter the setting mode.   Step **2** : To select and enter the option.

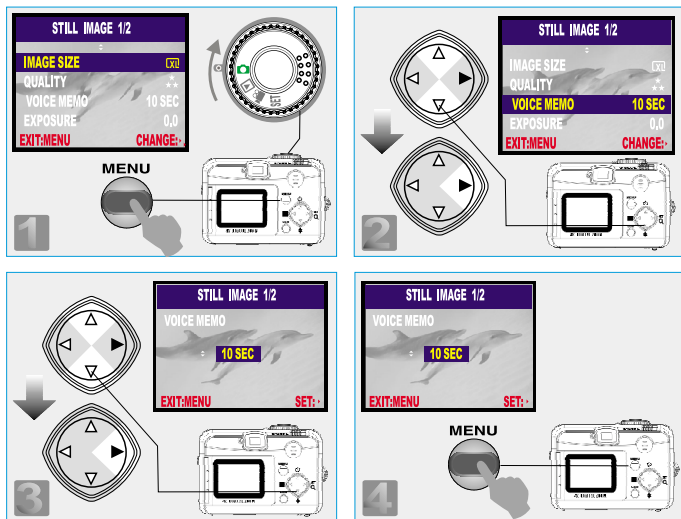Step **3** : To select and confirm the option.   Step **4** : To escape the setting.

Three levels of image quality can be selected as follows:

( ) Super Fine

( ) Fine

( ) Normal

Note

The better the image quality is set, the less number of images can be stored in the built-in flash memory or the memory card.

VIII. Set Up Voice Memo (Preset at 10 SEC)

Step **1** : To enter the setting mode.   Step **2** : To select and enter the option.

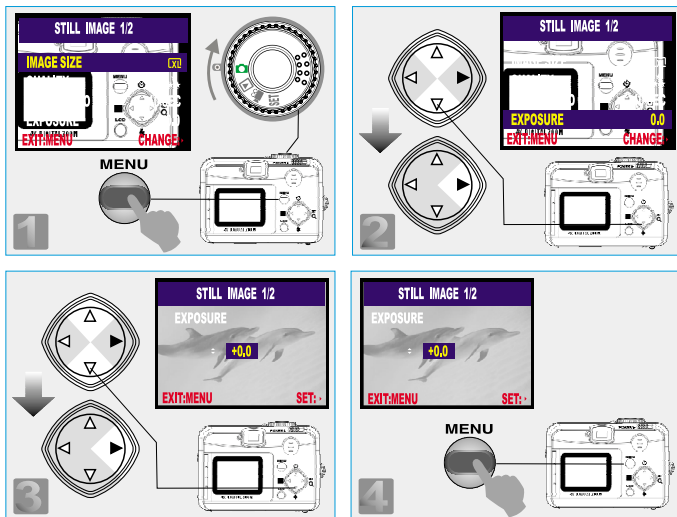Step **3** : To select and confirm the option.   Step **4** : To escape the setting.

Note

With the Voice Memo, you can view the icon (🎤) on the TFT LCD Monitor.

Note

With the Voice Memo, the audio is stored in WAV file format. So you can download both of the images in JPG and the voice Memo in WAV on PC.

IX. Set Up Exposure (Preset at +0)

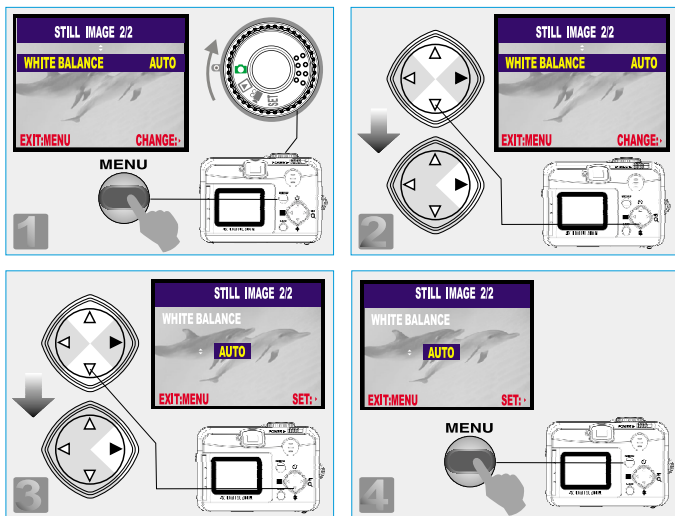Step ![1] : To enter the setting mode.   Step ![2] : To select and enter the option.

Step ![3] : To select and confirm the option.   Step ![4] : To escape the setting.

Note

The higher the value is, the brighter the image will be.

X. Set Up White Balance (Preset at Auto White Balance)

Step **1** : To enter the setting mode.   Step **2** : To select and enter the option.

Step **3** : To select and confirm the option.   Step **4** : To escape the setting.

There are five modes can be selected which are:

(AUTO) Auto White Balance: The camera will adjust the white balance by itself. It is suggested that the user stay with this mode unless the light environment is very different from normal.

(☀) Daylight: For strong light environment.

(🌅) Sunset: For sunset light environment.

(⛭) Fluorescent: For fluorescent light environment.
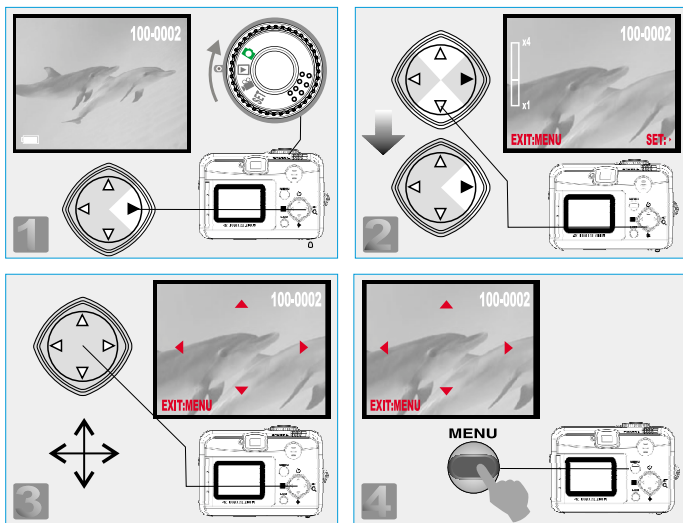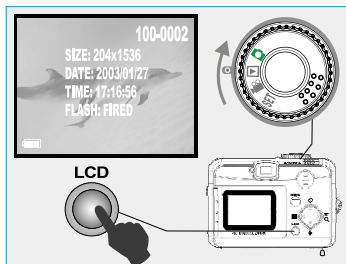
(🔆) Tungsten: For tungsten light environment.

Note

It is suggested to stay Auto mode for beginners.

3.2. Playback Mode

I. Exploring An Image

Step **1** : To enter the setting mode.
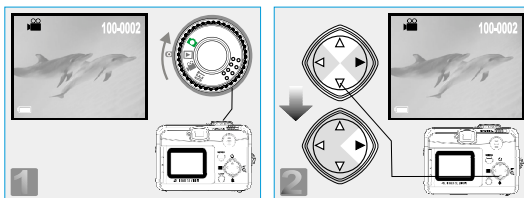
Step **3** : To select and confirm the option.

Step **2** : To select and enter the option.

Step **4** : To escape the setting.

II. Displaying An Image Information

Press LCD button to get the information of the image.
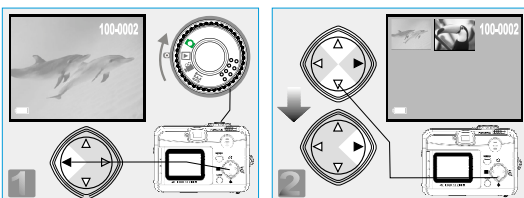
III. Playback of A Recorded Movie Clip

Press Up (▲) and Down(▼) Direction Buttons to select a movie clip you record and press Right Direction Button (▶) to play the movie clip.

Note

You can press Right Direction Button (▶) to pause the playback and repress it to cancel the pause.

IV. Thumbnail Images (Small Images) Display

Press Up(▲) and Down(▼) Direction Buttons to select an image or movie clip and press Right Direction Button(▶) to enlarge the selected image or movie clip.
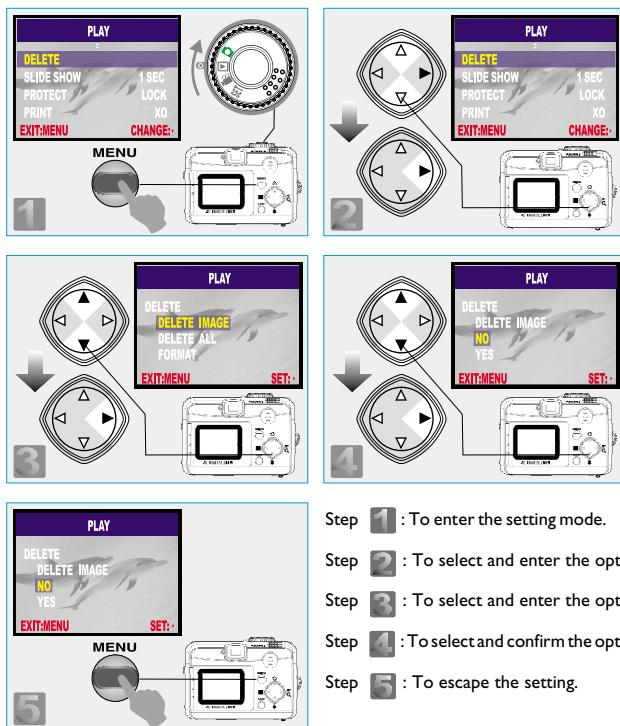
Note

The appearance of icon of (🎬) represents a movie clip, not a still image.

Note

The appearance of icon of (🎤) represents a still image with voice memo.

V. To Delete Image(s)

Step 1 : To enter the setting mode.

Step 2 : To select and enter the option.

Step 3 : To select and enter the option.

Step 4 : To select and confirm the option.

Step 5 : To escape the setting.

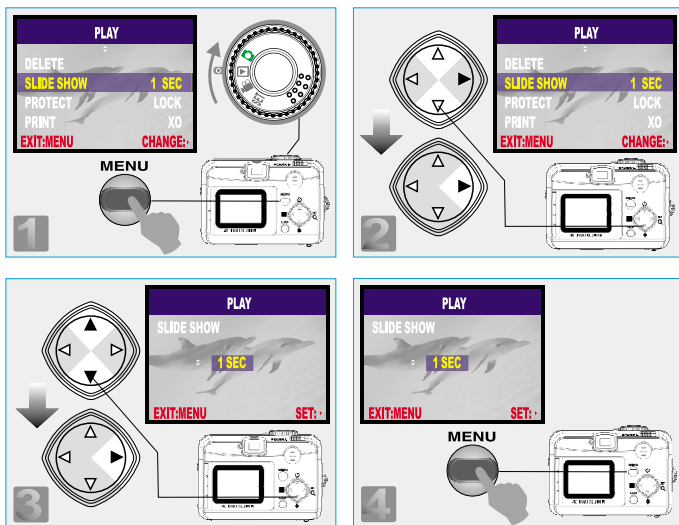## VI. To Format a SD Card

Please insert a SD Card in advance.
Follow the above steps, selecting "FORMAT" in step 3, "YES" in step 4.

VII. Formatting the Built-in Flash Memory

Please make sure no memory card is inserted.
Refer to page 16 and follow the steps, selecting "FORMAT" in step 3 , "YES" in step 4.
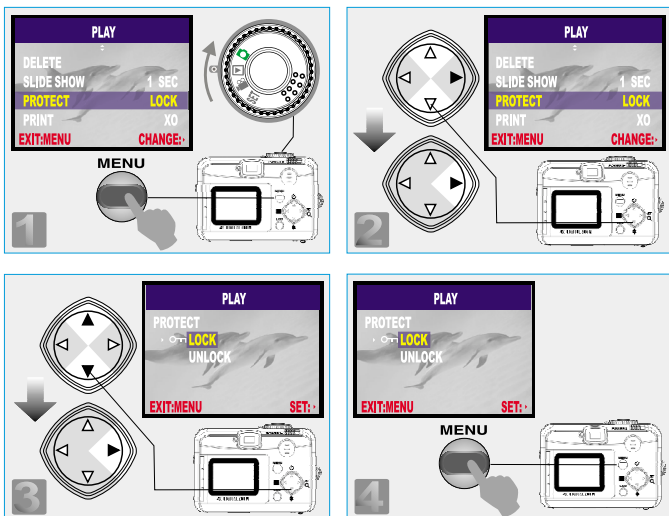
VIII. Set Up Slide Show (Preset at 1 second)

Step **1** : To enter the setting mode.
Step **3** : To select and confirm the option.
Step **2** : To select and enter the option.
Step **4** : To escape the setting.

IX. Setting Image Protection
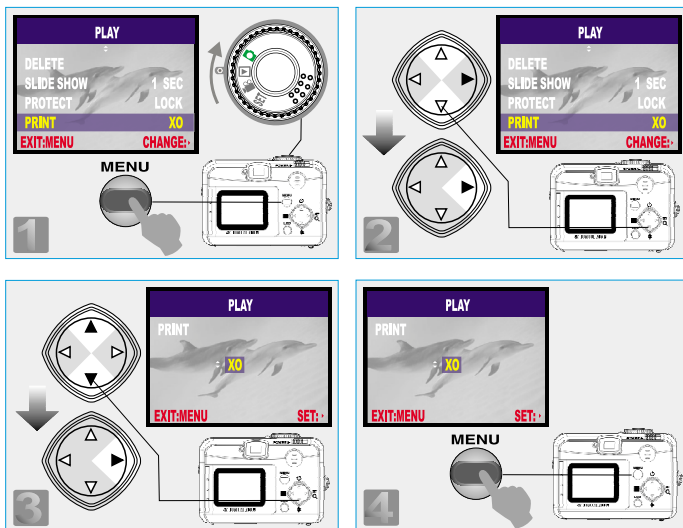

Step **1** : To enter the setting mode.   Step **2** : To select and enter the option.

Step **3** : To select and confirm the option. Step **4** : To escape the setting.

Note

After above steps are done, please check if the ($\boxed{\diamond}$) is shown on the right side of the TFT LCD screen. If it is not shown, please repeat the above steps. For cancelling this "PROTECT" function, please repeat the steps above and select "UNLOCK" in the step 3 instead.

X. Printing Out Images without a PC (Preset : X0)

Step **1** : To enter the setting mode.   Step **2** : To select and enter the option.

Step **3** : To select and confirm the option.   Step **4** : To escape the setting.

Note

After above steps are done, please check if the (   ) is shown on the left down corner.
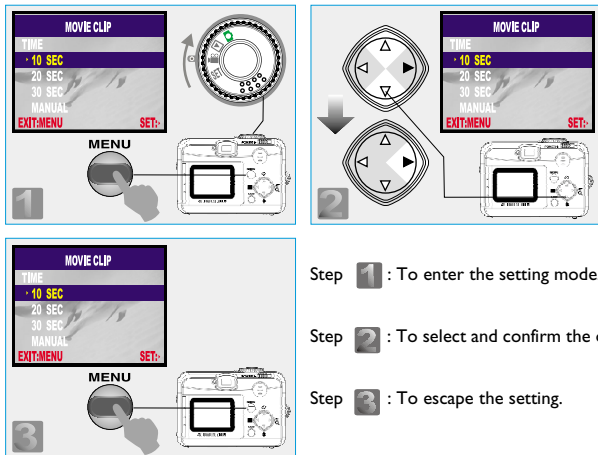If it is not shown, please repeat the steps.

Note

You cannot see the "PRINT" function on the TFT LCD Monitor if a memory card is not inserted.

3.3. Video Mode (Preset :10 SEC)

Please set the Mode Dial at Video Mode (🎥) .

Setting the Recording Time of a Movie Clip

Step **1** : To enter the setting mode.

Step **2** : To select and confirm the option.

Step **3** : To escape the setting.

Note

1. When 10, 20 or 30 seconds is selected, press the Shutter Button and the camera will start the recording and stop automatically according to the set time.
2. When "Manual" is selected, press the Shutter Button to start the recording and press the Shutter Button to stop the recording, the file length can be unlimited because it depends on the media capacity.
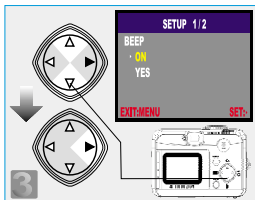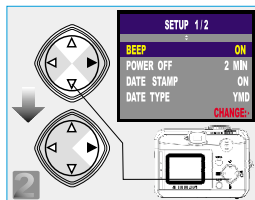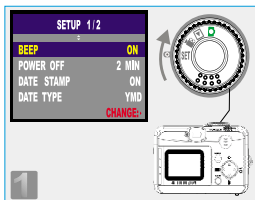

Note

The TFT LCD Monitor will show "Low Light!" as a warning to remind you that the video which you are going to record is in a low light environment. It is suggested not to record the video or to record it in a stronger light environment.

3.4. Set Up Mode

Please set the Mode Dial at Set Up Mode (**SET**).

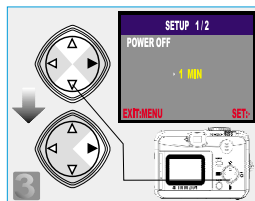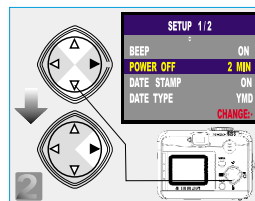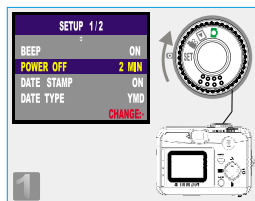### I. Set Up Beep Sound (Preset at On)

Step **1** : To enter the setting mode.

Step **2** : To select and enter the option.

Step **3** : To select and confirm the option.

Step **4** : To escape the setting.

II. Set Auto Power Off (Preset at 2 minutes)

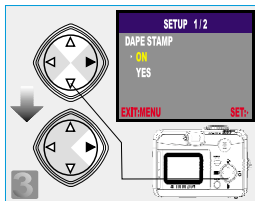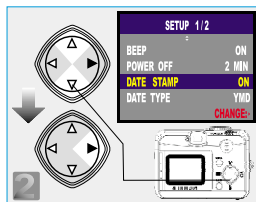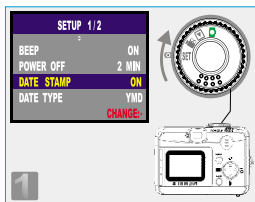Step **1** : To enter the setting mode.

Step **2** : To select and enter the option.

Step **3** : To select and confirm the option.

Step **4** : To escape the setting.

III. Set Date Stamp (Preset On)

Step **1** : To enter the setting mode.

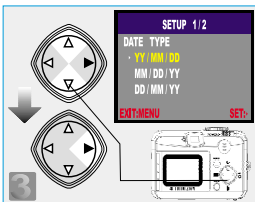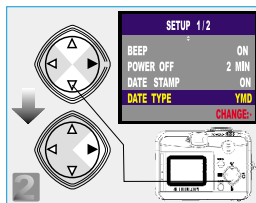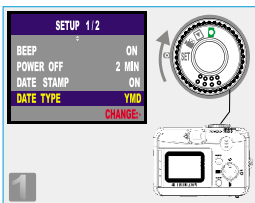Step **2** : To select and enter the option.

Step **3** : To select and confirm the option.

Step **4** : To escape the setting.

Note

If this function is turned "ON", the date will be printed on the image.

IV. Set Date Type

Step **1** : To enter the setting mode.

Step **2** : To select and enter the option.

Step **3** : To select and confirm the option.

Step **4** : To escape the setting.

V. Date Set Up

Step **1** : To enter the setting mode.

Step **2** : To select and enter the option.

Step **3** : To set up the date.

Step **4** : To escape the setting.
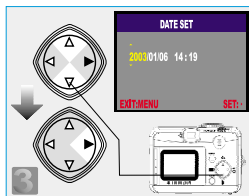
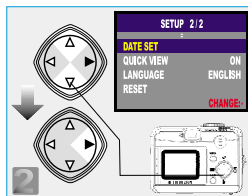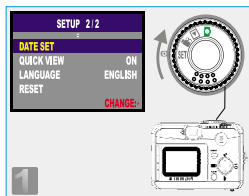## VI. Set Up Quick View (Preset at On)

Step **1** : To enter the setting mode.

Step **2** : To select and enter the option.

Step **3** : To select and confirm the option.

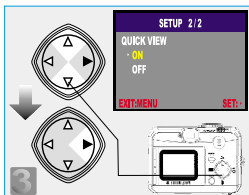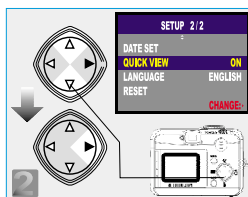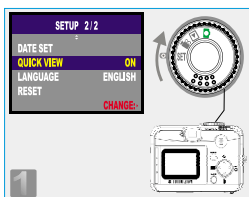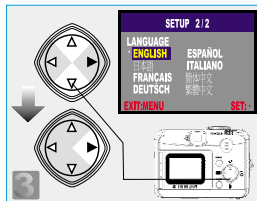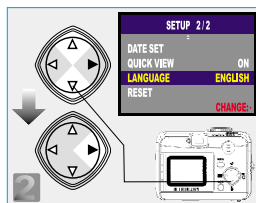Step **4** : To escape the setting.

Note

This can allow you to view the image on the TFT LCD Monitor right after you take a picture.
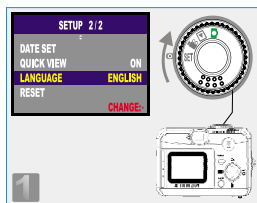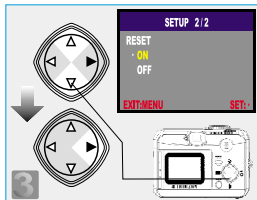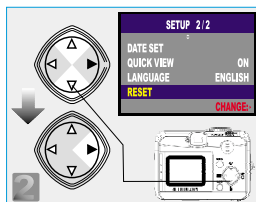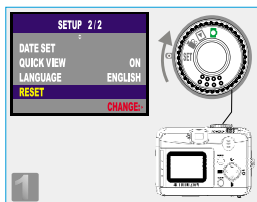
4. PC DEPENDENT FEATURES

Preparations

To use the PC dependent functions, you need to install your digital camera software and connect the camera to your PC.

4.1. Installing digital camera software

- If your operation system is Windows 98, please setup the DC 2410 driver first, if the operation system is Windows ME/2000/XP, then it's not necessary for you to setup driver in advance.

- It's recommended that you setup driver and software before connecting digital still camera to your PC for smooth installation. Normally, a software installation menu appears automatically after this installation CD is inserted into your CD-ROM drive.
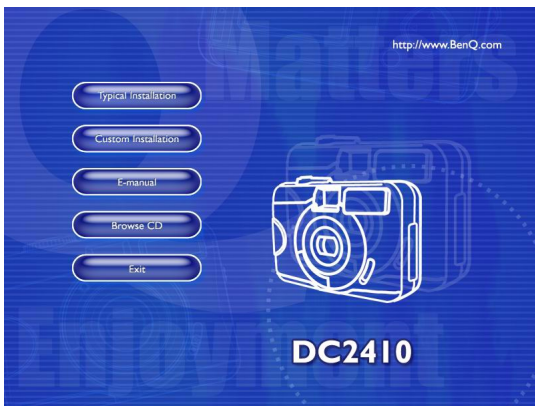
- Click on each item to start installing the software program of your choice. If the menu did not appear, please browse the CD and find a program file named "setup.exe" in the root directory and double-click on it. The menu will appear. If you want to know the content of this CD and install software manually, please refer to the descriptions of the CD content below.

4.2. The Software of this Installation CD

Software	Description
1. PhotoBase	Arcsoft PhotoBase, for you to find and organize your media-files efficiently. You can use it to creat a slide show, a web album, or a video postcard, then sharing these media-files with your friends through internet.
2. PhotoImpression	ArcSoft PhotoImpression, it is an easy-to-use photo editing and creative design program. You can 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.
3. VideoImpression	Arcsoft Video Impression, for you to edit and combine the 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.
4. PhotoPrinter Pro.	Arcsoft Photo Printer this versatile printing utility lets you print out casually, it can be 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.
5. Microsoft DirectX	Microsoft DirectX, an all-in-one and closs-platform media tool.
6. Acrobat reader	Adobe Acrobat Reader, it's a "must have" utility to read files in the popular cross-platform file format "PDF".

4.3. Downloading the Image(s)

Under Windows Operating System (Windows 98/98SE/2000/ME/XP)

■ **Downloading Image(s) From Removable Disk**

1. Turn on the PC.
2. Switch on the camera.
3. Connect the camera to the PC with USB cable under any working mode.
   Please make sure the USB cable is well connected to the PC and camera.
4. When the USB cable is connected to the PC, it will create a new hard disk named
   Removable Disk .
5. The stored image(s) can be found in Removable Disk\Dcim\100media.
6. View the image with double-clicks.
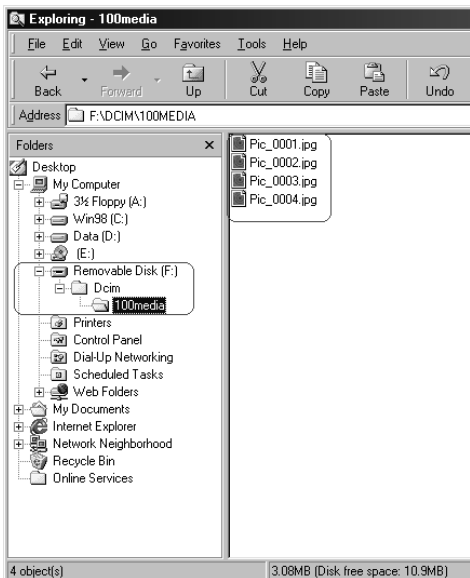
5. TROUBLESHOOTING (ERROR MESSAGE TABLE)

Message	Cause	Solution
CARD FULL	There is insuffient card memory capacity to store an image.	Delete the stored image(s) in the memory card or insert a new memory card.
MEMORY FULL	There is insuffient internal memory capacity to store an image.	Delete the stored image(s) in the flash memory.
CARD LOCKED (CARD ICON is BLINKING)	The SD card is under protection.	Set the card protection switch at non- protection position.
LOCK	The image can't be deleted under protection.	Unlock the protected image.
NO IMAGE	There is no image stored in the memory card or built- in flash memory.	
FILE ERROR	The camera flash is turned off.	Delete this image and take the picture again.
MEMORY ERROR		Format the flash memory.
CARD ERROR		Insert a new memory card.
USB ERROR	USB connection erroor.	Check USB cable connection.
LOW LIGHT!	The environment is too dark with "Flash Off" mode.	Set the flash modeat Auto Flash or Fill-in Flash.
HAND SHAKE ICON	The environment is too dark with "Flash Off" mode.	Set the flash modeat Auto Flash or Fill-in Flash.
LENS COVER	The lens cover is closed.	Please open the lens cover before taking pictures.

6. SPECIFICATIONS

Image Sensor	1/2.7" CCD with 3.34 Mega pixels
Lens	f=5.1mm (35mm film equivalent : 34mm) F2.9 / F8.0
Digital Zoom	1.1 to 4.0 (0.2/Step)
Viewfinder	Optical virtual image viewfinder
LCD Monitor	1.6" color TFT LCD (80k pixels)
Focusing	Fixed Focus with 2 steps manual adjustment
Focusing Range	Macro: 0.2m, Normal: 0.8m-infinity
Shutter	Mechanical shutter and Electrical shutter
Shutter Speed	1/4~ 1/1000 sec. Mechanical shutter 1/1000 sec. Electrical shutter
Exposure	Program AE / Exposure compensation $\pm$2EV (0.5EV / step)
ISO Equivalent	100,200 (Automatic)
White Balance	Auto / Daylight / Fluorescent / Tungsten / Sunset
Flash	Auto / Fill-in flash / Flash off / Auto & Red - eye reduction / Slow sync.
Flash Range	0.8 ~ 2.5m
Self-timer	10 seconds with LED indicator
Movie Clips	Size : 320x240 Recording time : 10~30 sec. (10sec./step) and Manual (unlimited length)
Storage	Internal memory: 16MB flash memory; External memory: support SD Card
File Format	Still Image: JPEG , EXIF, DCF, DPOF; Movie Clip: AVI

Image size	Extra-Large: 2560x1920 (by interpolated), Large: 2048x1536 pixels, Medium: 1600x1200 pixels, Small : 1280x960 pixels
Image Play	Single image / AVI play / Thumbnails / Slide show
Interface	Digital output connector: USB 1.1 DC power input connector: 3.3V/ 2.0A
Power Source	2 pcs of AA alkaline / 2 pcs of Ni-MH batteries. AC adapter (Optional)
Dimensions (WxHxD)	94 x 66 x 41 mm
Weight	145g (without batteries and card)

System Requirments	
FOR WINDOWS	PC with processor better than MMX Pentium 233MHz Windows 98/98SE/2000/ME/XP Minimum 64MB RAM 100MB of available hard-disk space USB port CD-ROM drive 800x600 pixels,16-bit color display compatible monitor. (24-bit color display recommended)

7. SERVICE INFORMATION

Technical support

If you encountered problems using DC 2410 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 and other countries: support@BenQ.com

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

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

<Memo>