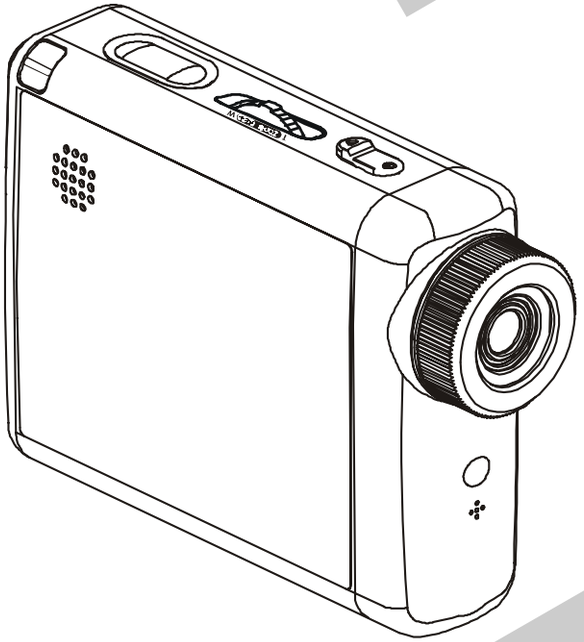
AUDIOVOX®
ELECTRONICS CORP.

DIGITAL VIDEO CAMCORDER



MODEL DC400

128-7078

Specifications

Pixel:	4M
Video Type:	Digital
Image Sensor:	2 Mega CMOS Sensor
Resolution:	2304 x 1728
	(Hardware enhancement)
	1600 x 1200
	640 x 480
Video Clip:	640 x 480
	352 x 288
	320 x 240
Digital Zoom:	4X
Digital Effects:	B&W/Sepia/Mosaic
Display:	1.5” Color TFT LCD
External Memory:	SD/MMC
File Format:	JPEG/ASF/MP3/WAV
Lens:	Fixed (5 Glasses Lens)
	8.5 mm (Equivalent 44 mm for 135 Camera)
F. No.:	2.8
Focusing Range:	25 cm (Macro) 70 cm-infinity (normal)
Interface:	USB/AV out/earphone
Self-Timer:	10-second delay
Shutter Speed:	1/15th to 1/4000th second
Power:	Rechargeable Li-ion battery
	DC-In
	Built-in charger (through USB or DC In)
Dimensions:	82 x 33 x 62 mm (L x W x H)
Weight:	94g (Battery not included)

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List of Accessories

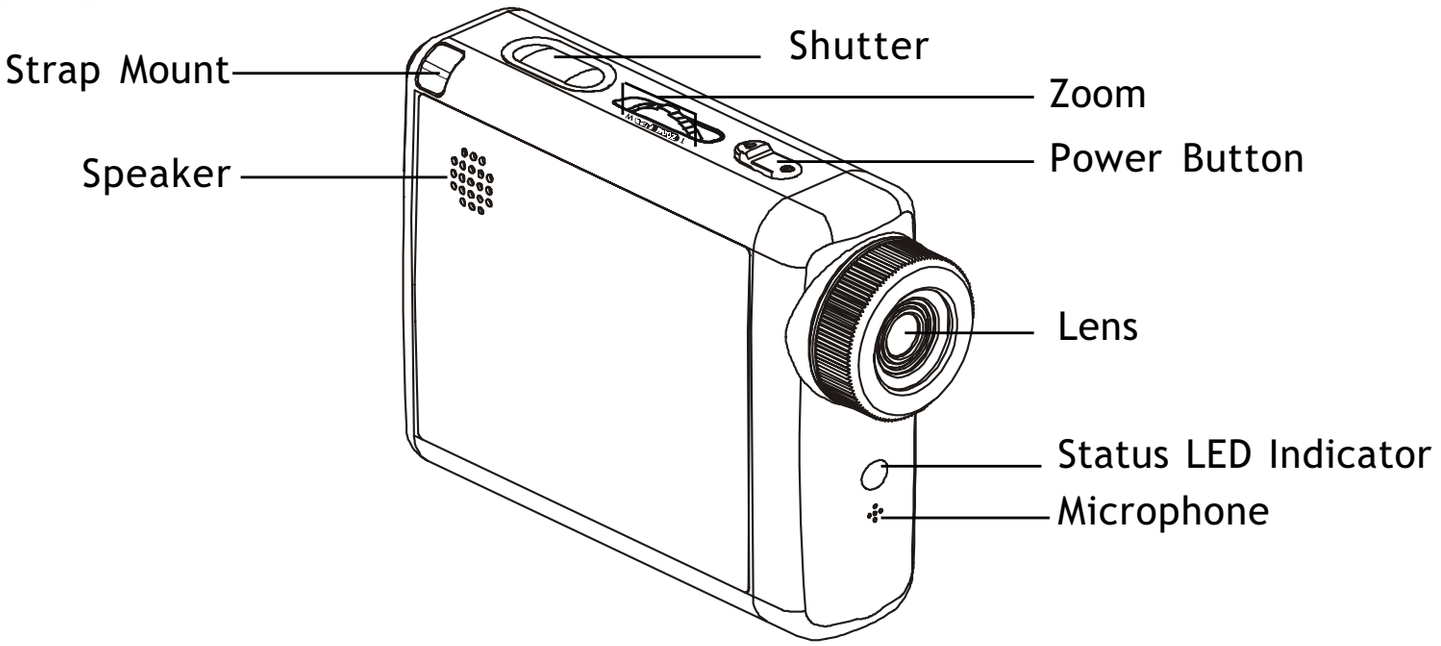
ACCESSORY	SOFTWARE INCLUDED *
• Driver CD • Bundled AP CD • USB Cable • Strap • 32 MB MMC Card • User Manual • Ear Phone • Rechargeable Li-ion Battery • Tripod • AC/DC Adapter **	• VideoStudio SE • Photo Express SE • Photo Explorer • Cool 360 • Acrobat Reader • Camera Driver • Video Capture Driver

* Software besides Driver is not supported by Audiovox. Please use Help Section in Software or access **www.ulead.com**.

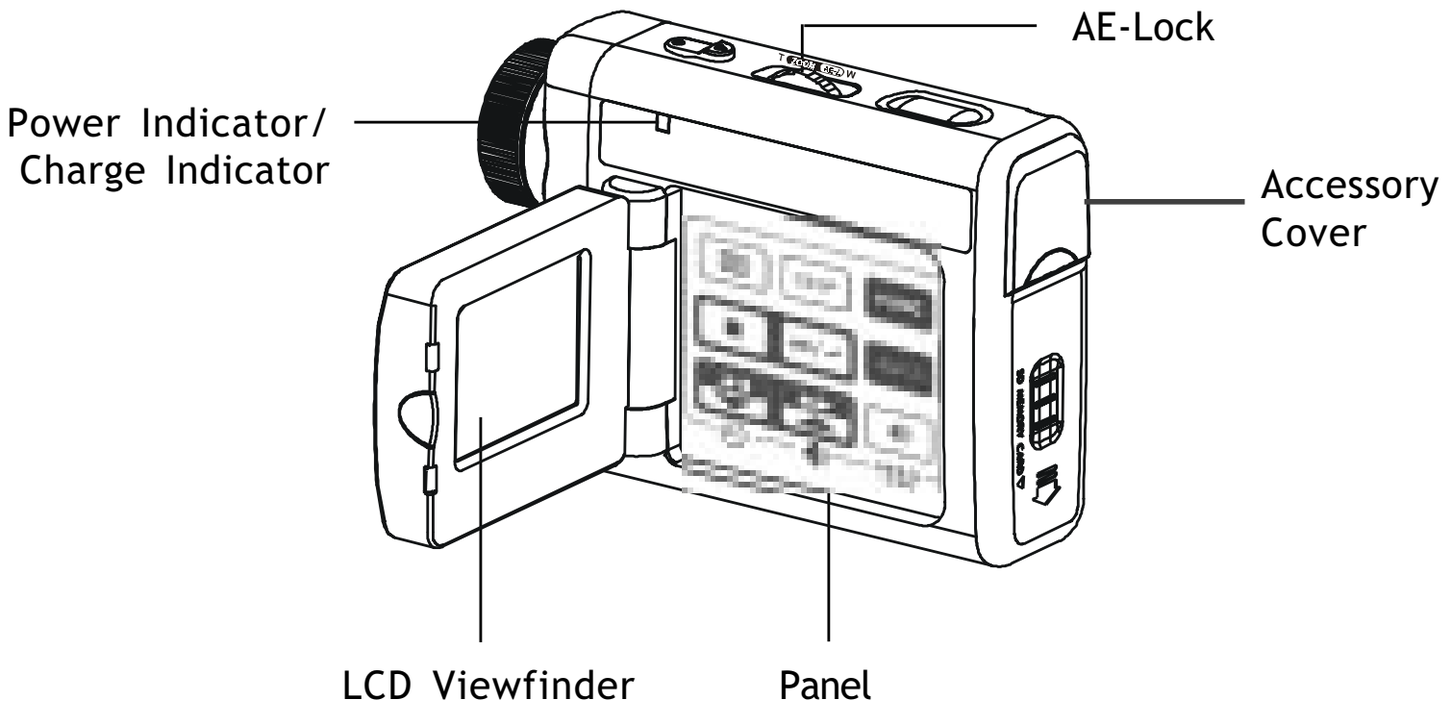
** AC/DC Adapter sold separately.

Getting to Know Your Audiovox DC400

Front View

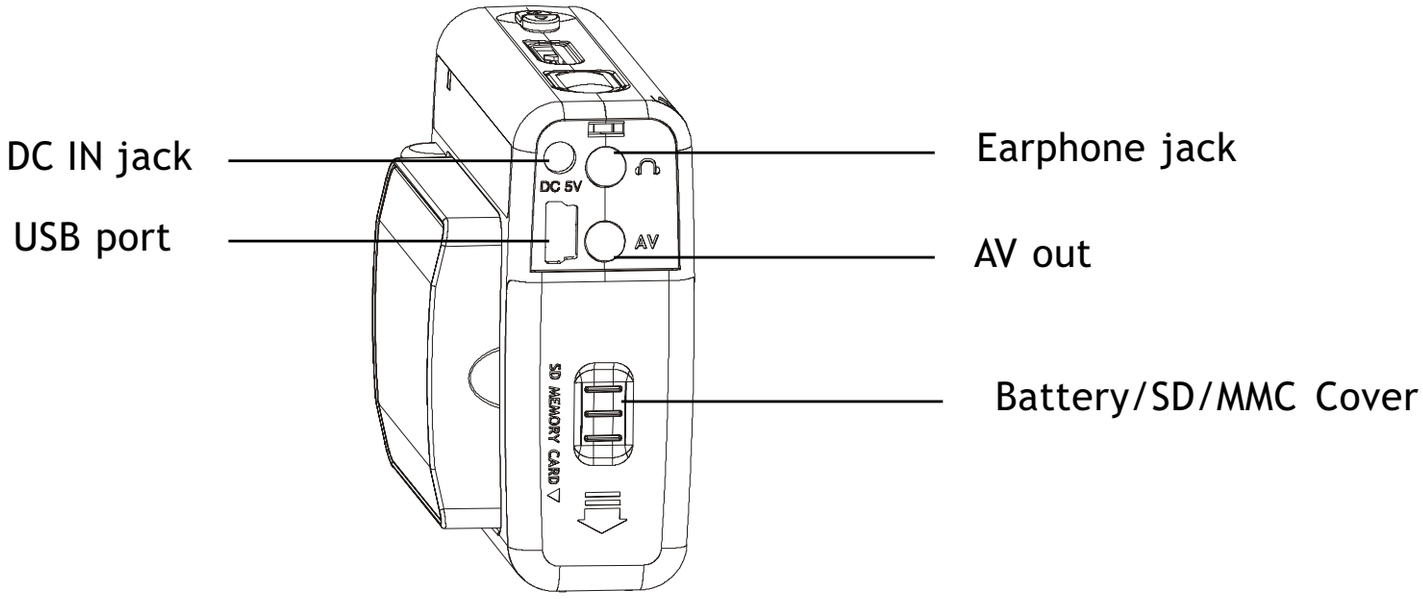


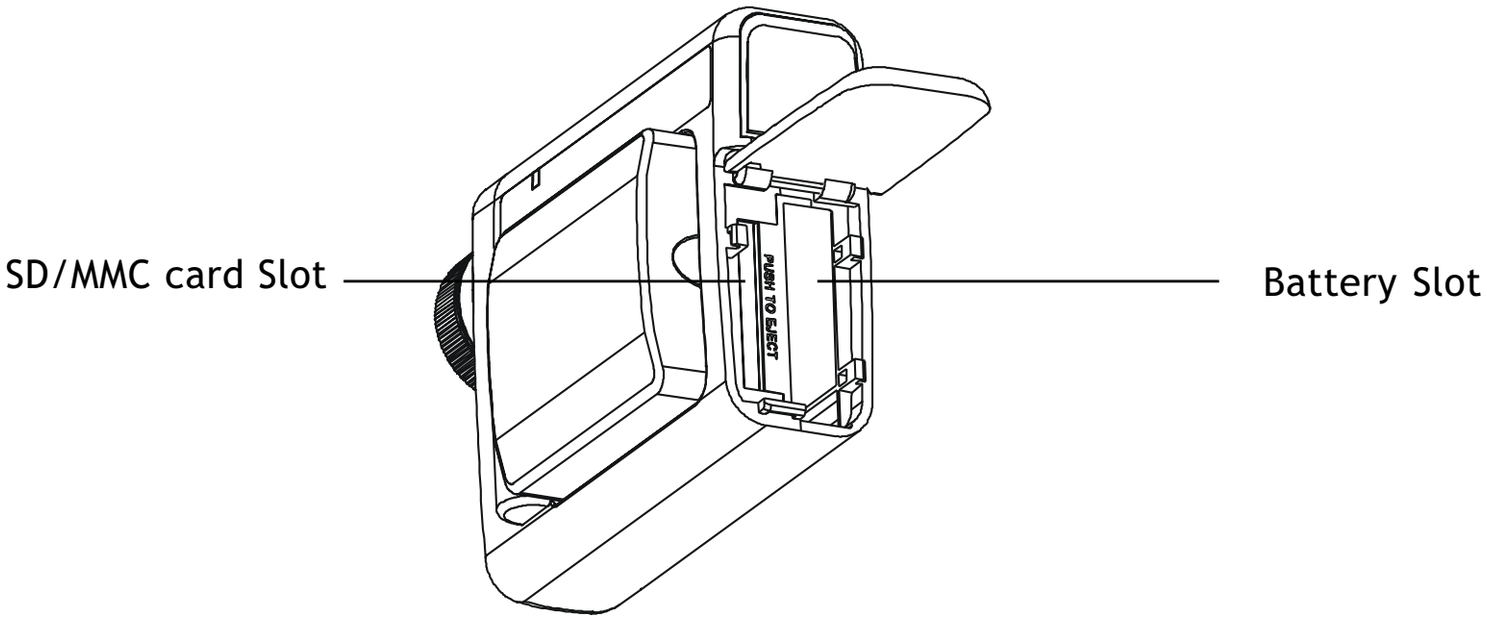
Back View



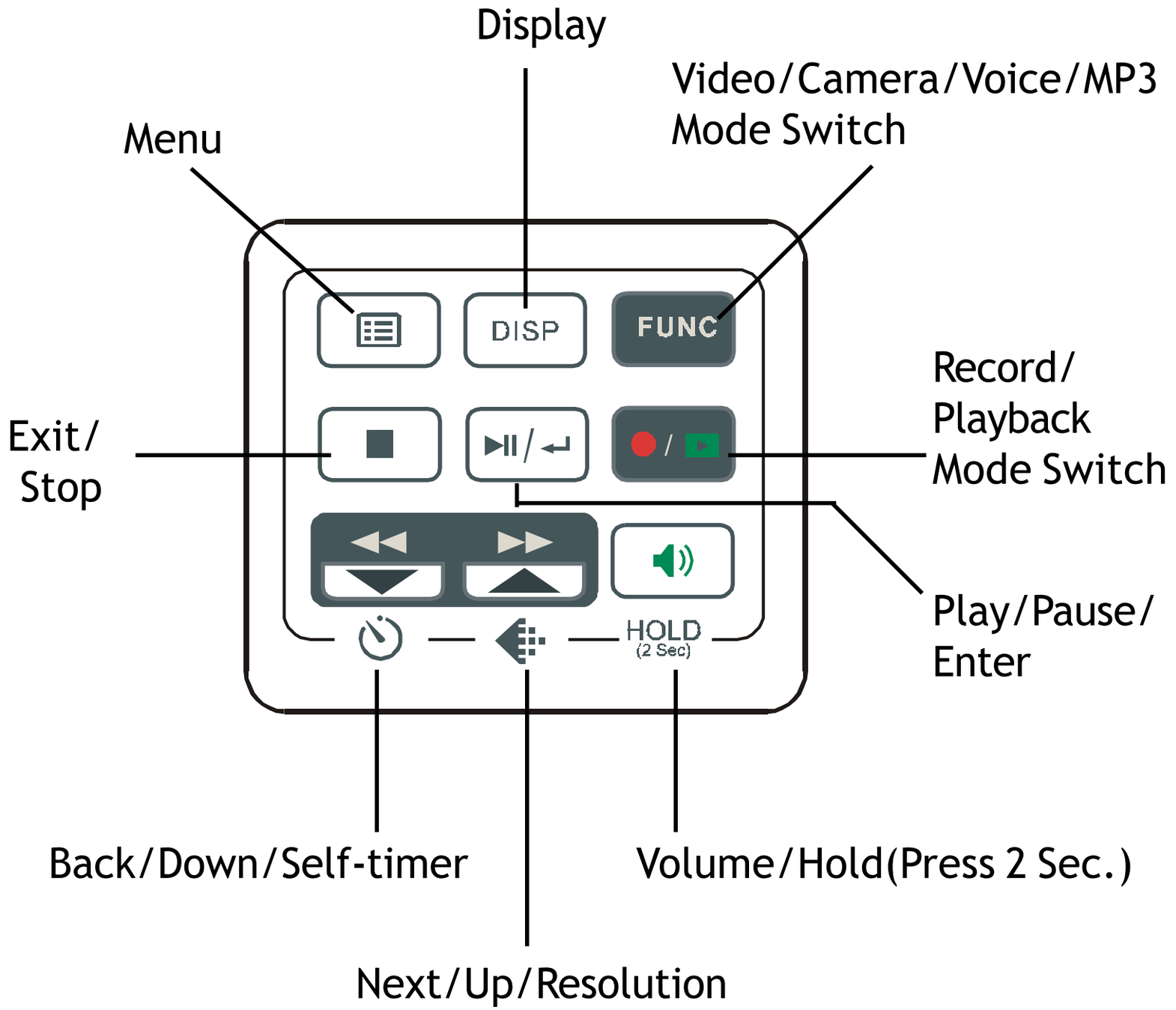
Getting to Know Your Audiovox DC400-continued

Side View





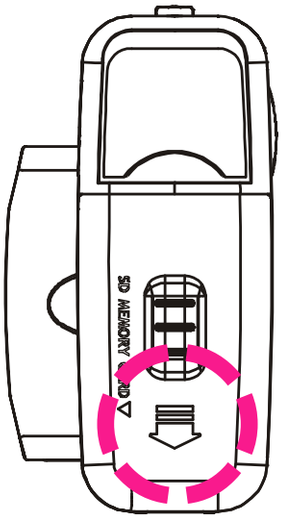
Using the Panel



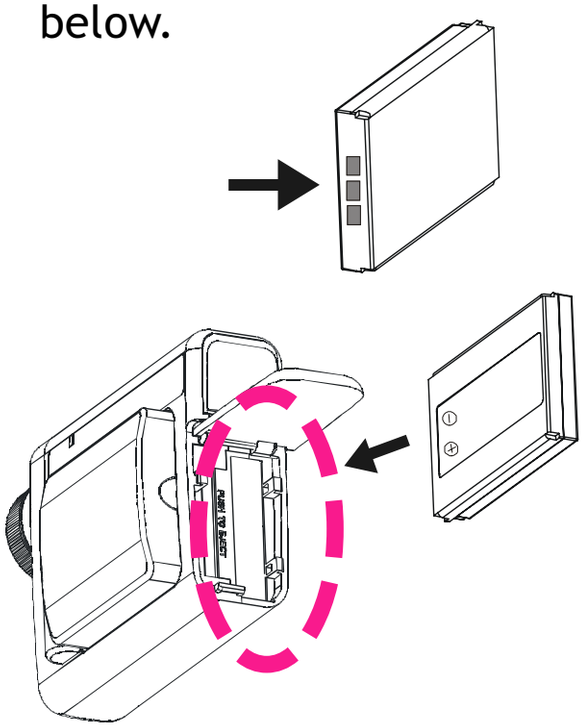
Preparation

Loading Battery

1 Slide door in the direction of arrow.



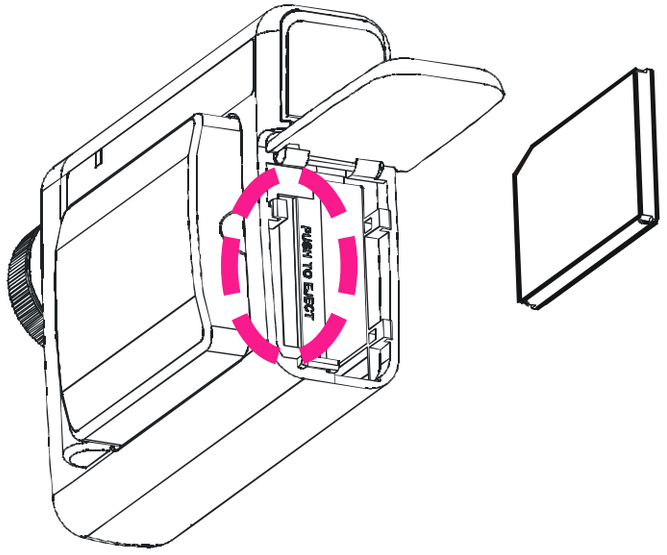
2 Insert the battery as shown below.



Inserting the SD/MMC Card

1 Repeat STEP 1. mentioned above.

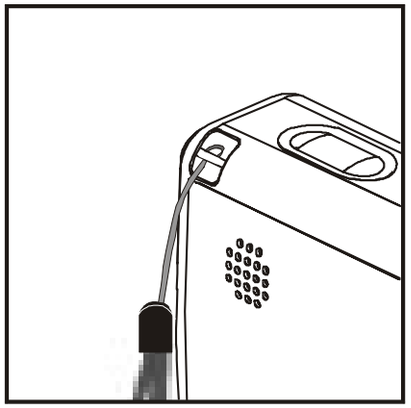
2 Insert SD/MMC card as shown right.



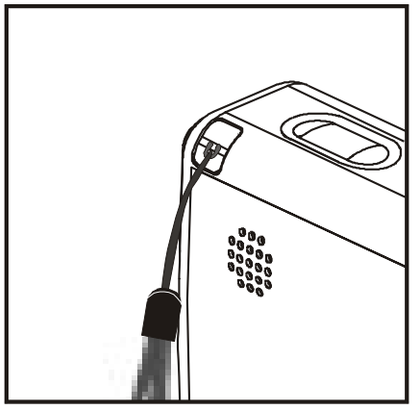
Preparation-continued

Attaching the Carry Strap

1 Insert the thin end of the strap into the strap mount.

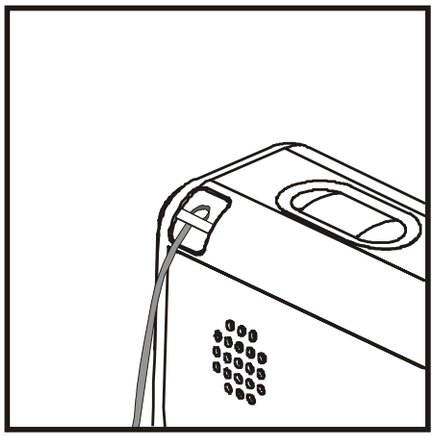


2 Insert the other end of the strap through the loop of thin cord and pull tight.

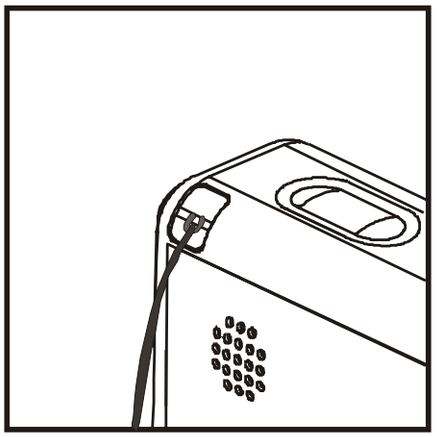


Attaching the Strap connected to the lens cover

1 Insert the thin end of the strap into the strap mount.



2 Insert the other end of the strap through the loop of thin cord and pull tight.



Preparation-continued

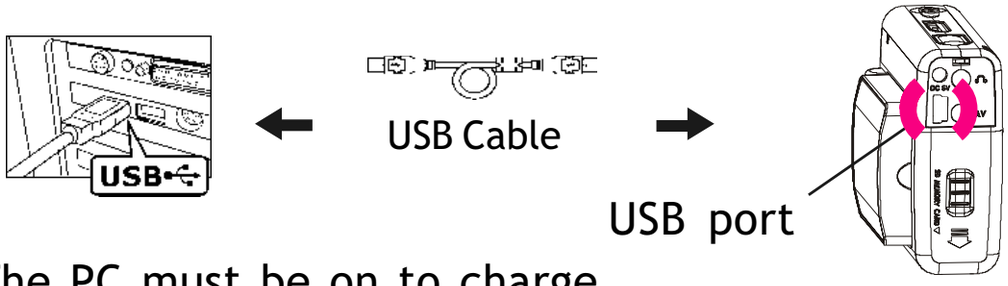
Charging your DC400

You have two ways to charge the DC400; namely, either by Universal Serial Bus (USB), or by using the AC adapter (optional).

To Charge this Digital Video by USB

1. Connect USB between the DC400 and a computer.

2. The Charge indicator will light in red and start charging. If the battery is fully charged, the charging indicator will be off.

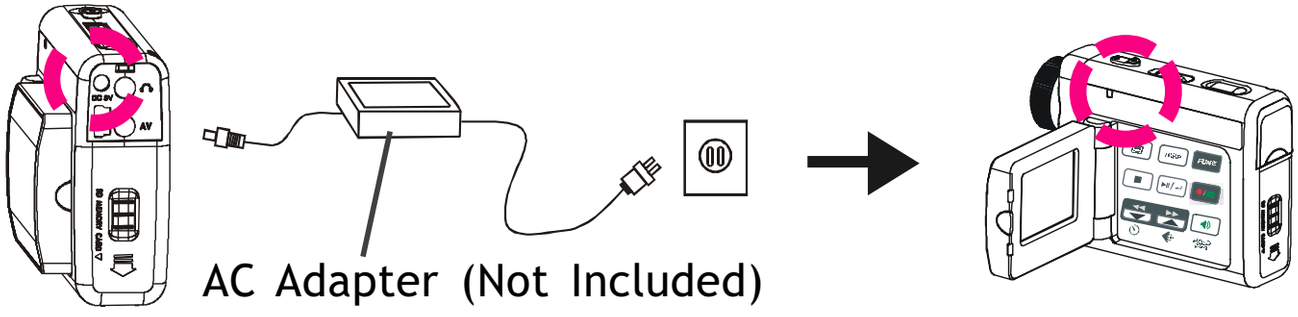


Note: The PC must be on to charge.

To Charge the DC400 Using the AC Adapter (optional).

1. Connect the AC adapter(5V, 500mA) to the DC IN jack and a household power outlet.

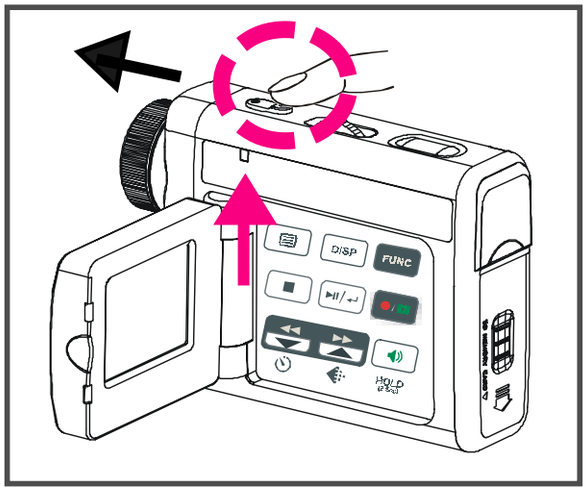
2. The Charge indicator will light in red and start charging.



Note: If you charge the DC400 while POWER is on, the charge speed will slow down.

Power

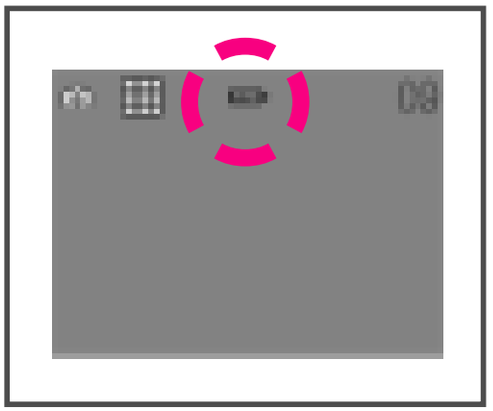
Power On/Off



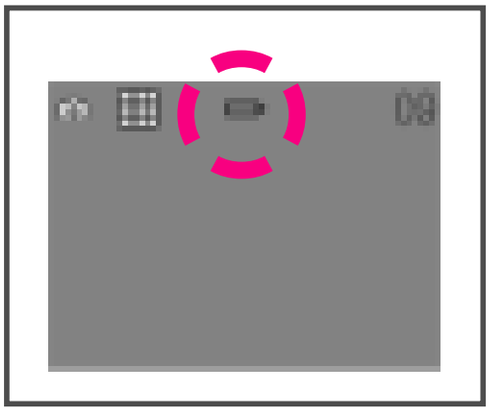
Nudge the Power slider to activate your DC400. When Power is on, the Power indicator lights green. Nudge it again to turn off the DC400.

Power Low

If your battery is low, you will see a battery icon ( ) on the top center of the LCD.

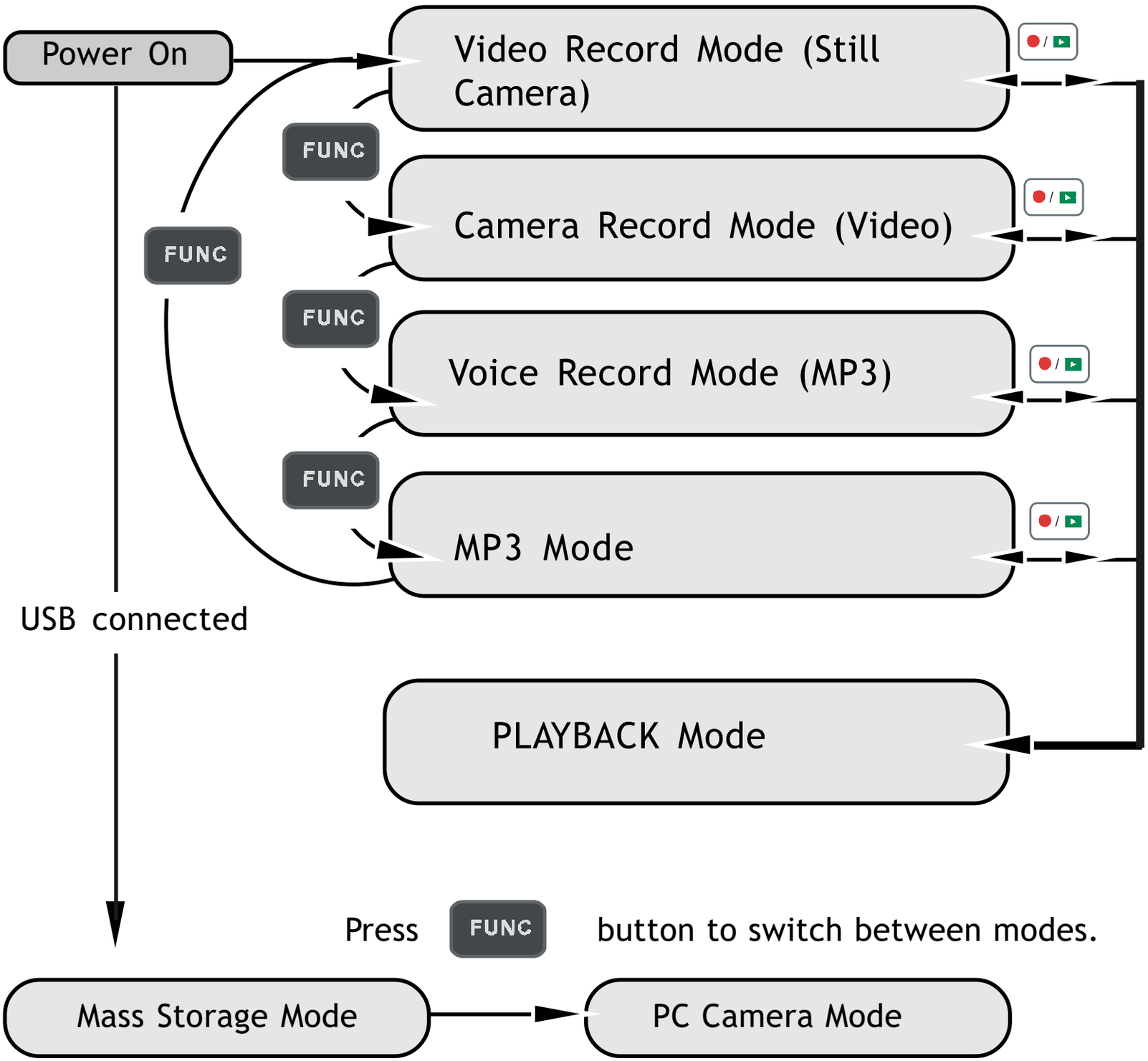


If your battery is about to run out, you will see a blinking battery icon ( ) on the top center of the LCD. Your DC400 will turn off by itself.



Note: A full or partially full battery will show a full or partial battery icon.

Selecting Modes



Selecting Modes-continued

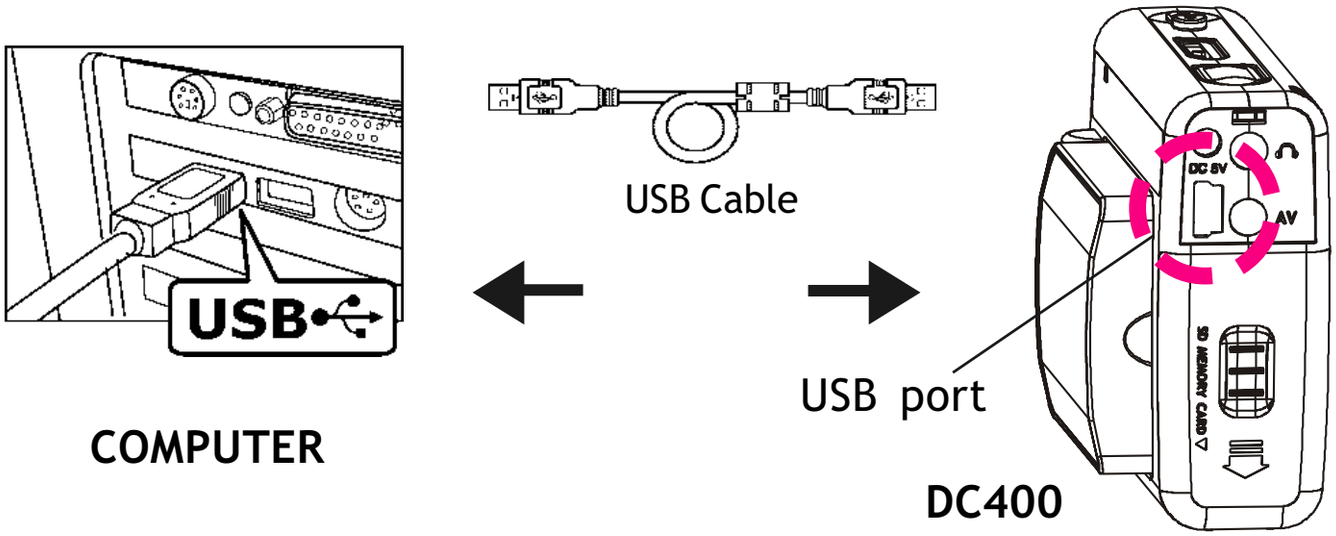
Video Mode/Camera Mode/Voice Mode/MP3 Mode/PLAYBACK Mode

There are four main modes and PLAYBACK mode in this DC400.
The four main modes are Video Mode, Camera Mode, Voice Mode and MP3 Mode.
1.Video Mode: take videos with sound
2.Camera Mode: take pictures
3.Voice Mode: record voice messages.
4.MP3 Mode: listen to MP3 music.

You can switch among these four modes by pressing the FUNC button. By pressing ●/▶, you can switch between PLAYBACK modes to review your videos, pictures and voice messages. and record mode to make a recording. Video Mode/Camera Mode/Voice mode shares the same PLAYBACK mode.You can switch back to the record mode by pressing ●/▶ again.

Selecting Modes-continued

Connected to PC(Mass Storage Mode/PC Camera Mode)



Using Console (Not Available for MAC)

By connecting your Digital Video to a computer, the Console opens. Meanwhile your Digital Video switches to Mass Storage, too. You may choose either to transfer the camera data through Console program or through Mass Storage Mode.

Selecting Modes-continued

Mass Storage Mode

Connect your Digital Video to a computer, it will turn to Mass Storage Mode. In Mass Storage Mode, your Digital Video acts exactly like a hard disk. That means you can access it via the Windows user interface. You can copy, move or delete files (pictures, movies, voice messages or MP3 music) exactly the way you manipulate files under Windows user interface.

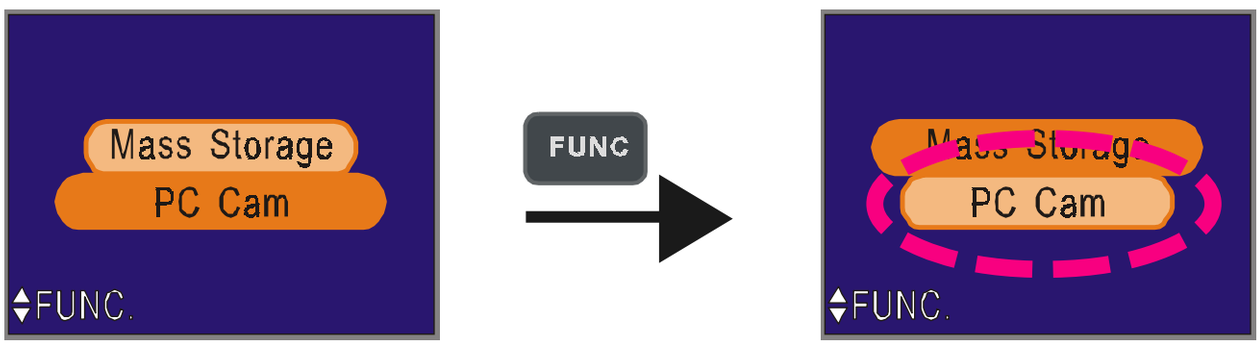
Note:

1.Please do not copy any files into the DCIM folder of your unit. Otherwise it may cause the unit to be unstable or crash.
2.Remember to copy the MP3 files into the MP3 folder of your DC400.
3.Do not delete DCim, 100MEDIA, MISC, or MP3 folders.

PC Camera Mode

You can connect this Digital Video to a computer with its supplied USB cable and use it as a PC camera.
After USB connecting, the screen will show as below.

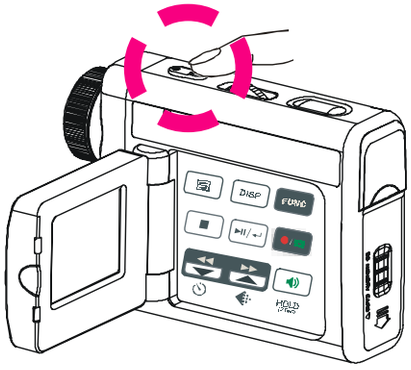
By pressing FUNC, it will turn to PC Camera Mode. With a compatible video capture program on your computer (not supplied), you can capture movies.



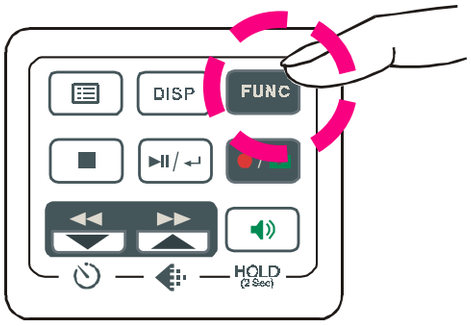
Taking Movies

Taking Your First Movie

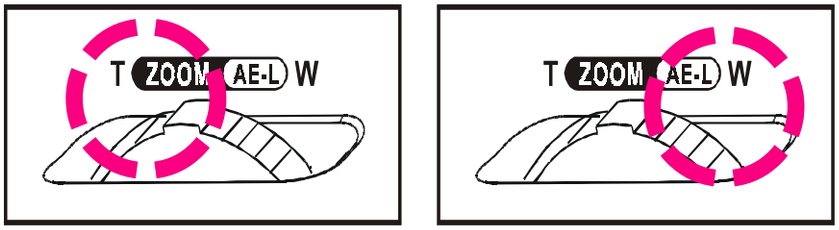
1 Press **Power**

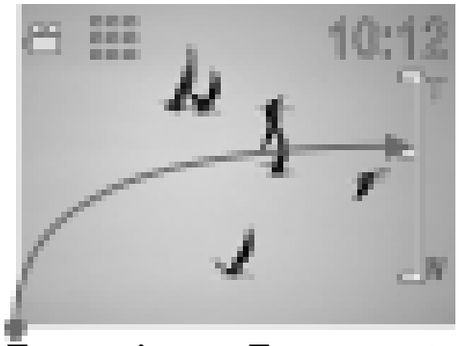


2 Switch to Video Mode



2 Slide **Zoom-in** or **Zoom-out** to frame your picture



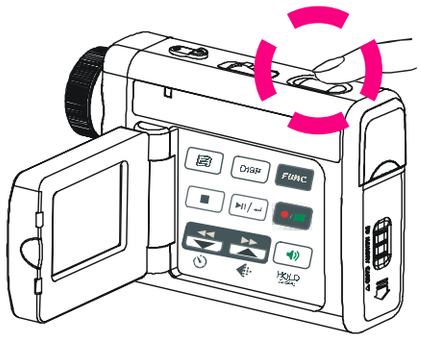


Zoom in or Zoom out

(**Note:** You can still use **ZOOM** while recording.)

3 Adjust the focus by rotating the front lens (page 31).

4 Press **Shutter** to start recording



5 Press **Shutter** again to stop

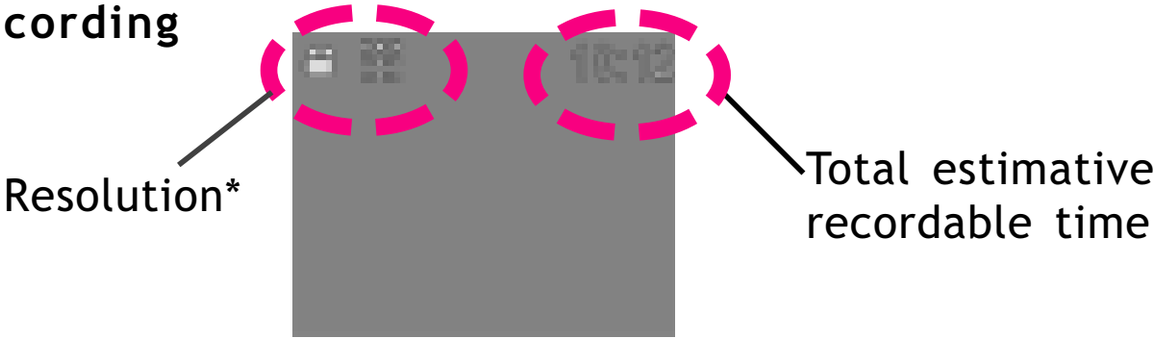
* See next page for more info on Video mode.

Taking Movies-continued

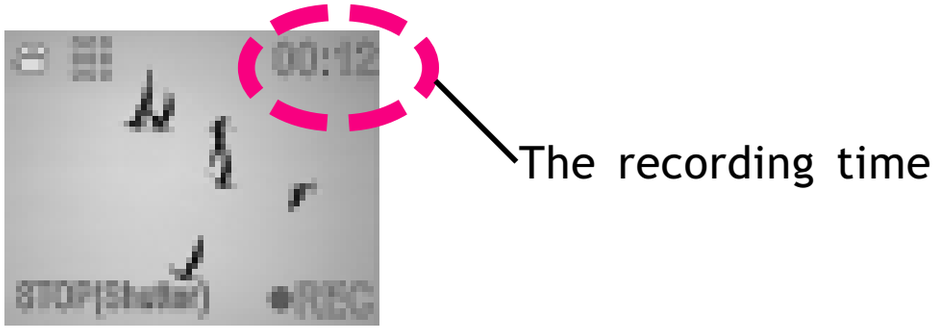
The recording timer

While you're filming, the recording timer will be displayed on the LCD.

Before Recording



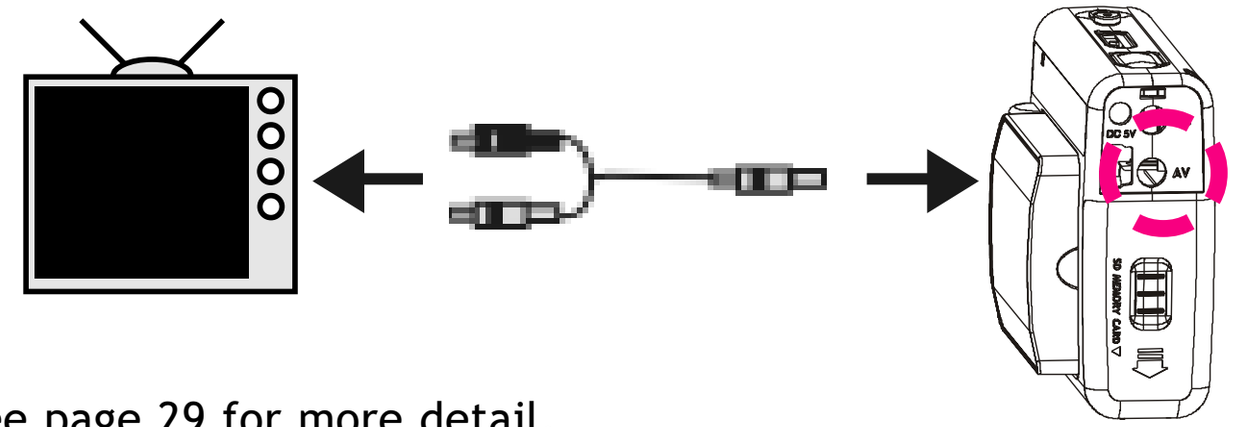
While Recording



Video Out

Video Out

The DC400 can output analog video to a home TV set. To configure the Digital Video, please refer to the section on NTSC/PAL (page 40).

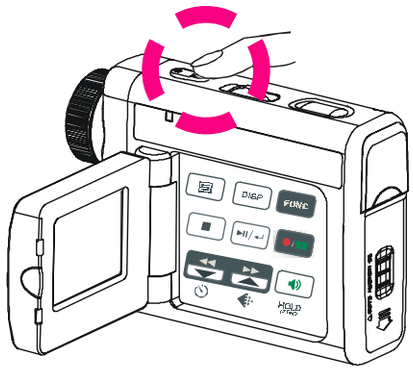


* See page 29 for more detail.

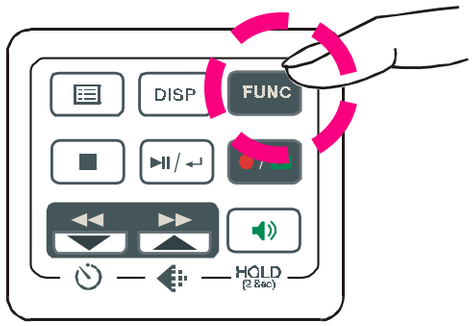
Taking Pictures

Taking Your First Picture

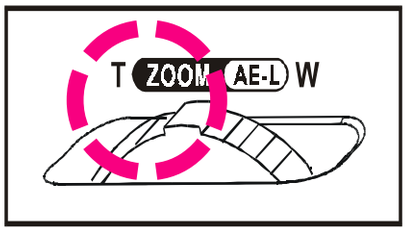
1 Press **Power**

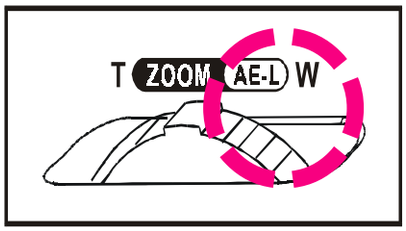


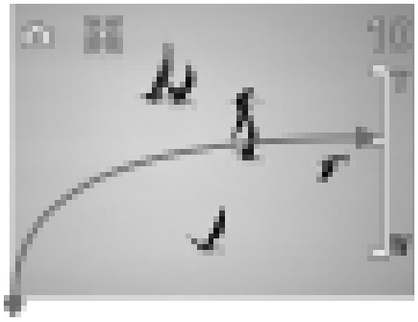
2 Switch to Camera Mode



3 Press **Zoom-in** or **Zoom-out** to frame your picture



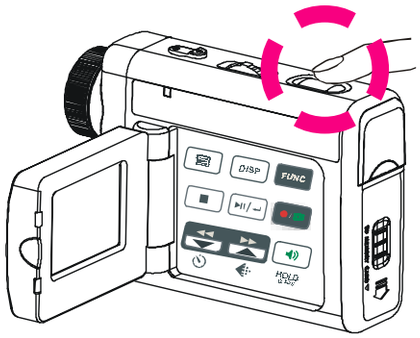




Zoom in or Zoom out

4 Adjust the focus by rotating the front lens (page 31).

5 Press **Shutter** to take a picture

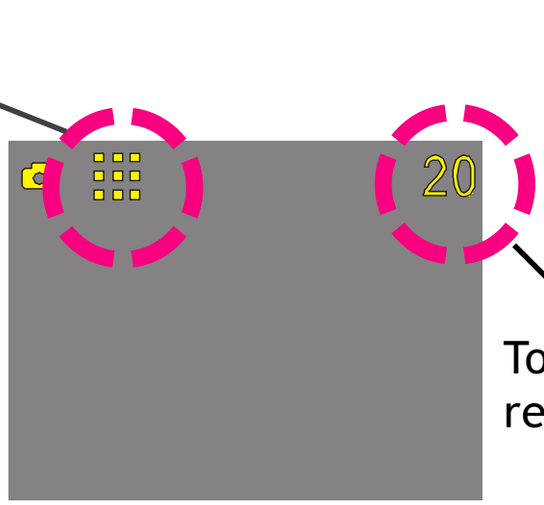


Taking Pictures-continued

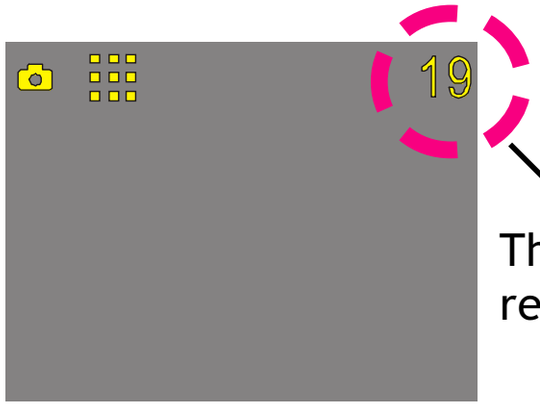
The Picture Counter

You can see the picture counter displayed on the top right corner of your LCD. First, it will show the number of the total recordable files of the DC400. For example, it shows "20" on the top right corner of your LCD; that is to say, there are "20" recordable files for you to take pictures. If you have taken 1 picture, your LCD will display "19".

Before Taking Pictures



After Taking Pictures

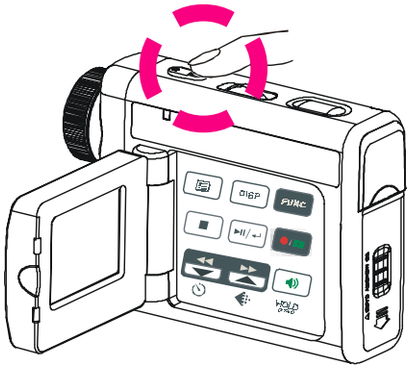


* See page 29 resolution details.

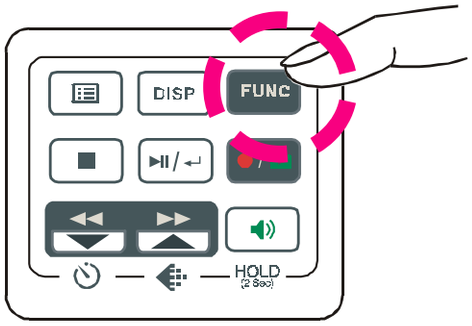
Recording Voice Messages

Recording Your Voice Messages

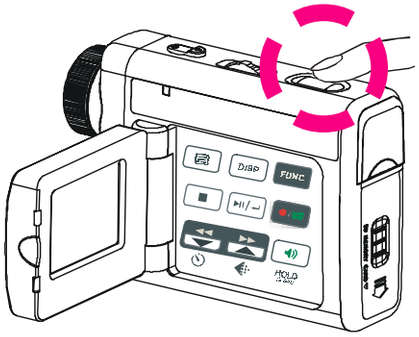
1 Press **Power**



2 Switch to Voice Mode



3 Press **Shutter** to start recording



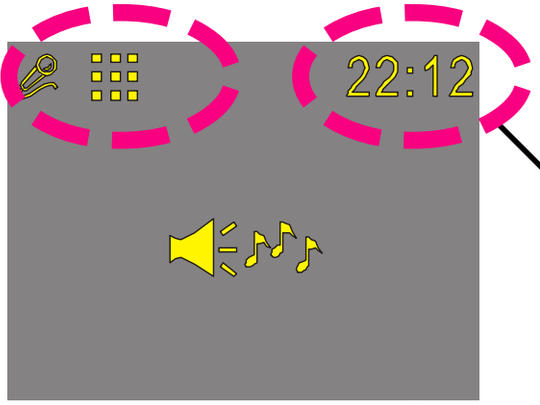
4 Press **Shutter** again to stop

Recording Voice Messages-continued

The recording timer

While you are recording voice messages, the recording timer will show on the top right corner of your LCD.

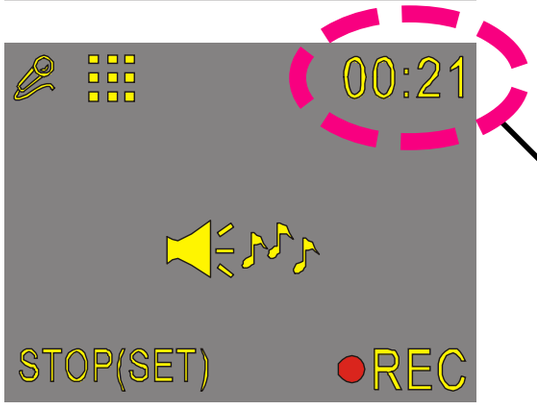
Before Recording



Record Quality*

Total estimative recordable time

After Recording



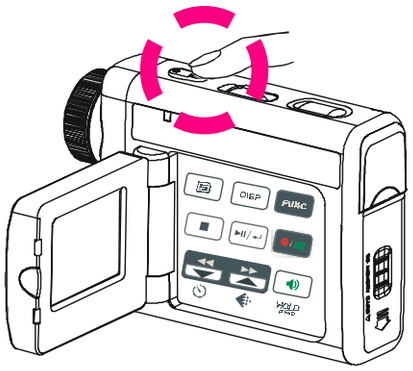
Total recording time

* See page 30 for Voice Record Quality.

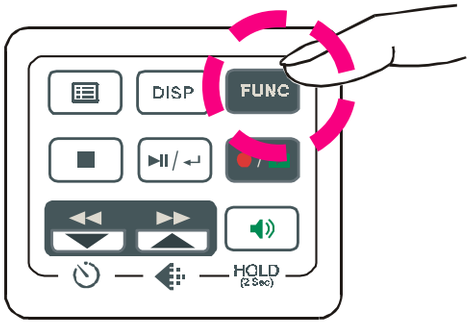
Listening To MP3 Music

Listening To MP3 Music

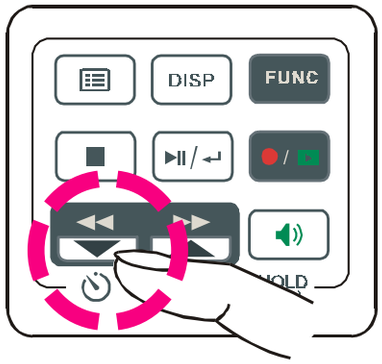
1 Press **Power**

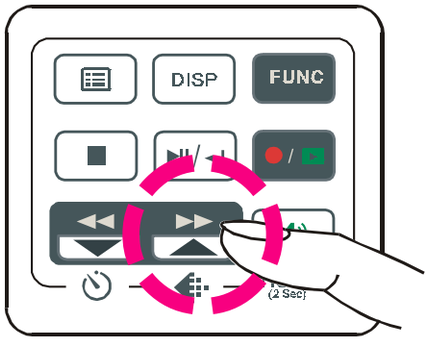


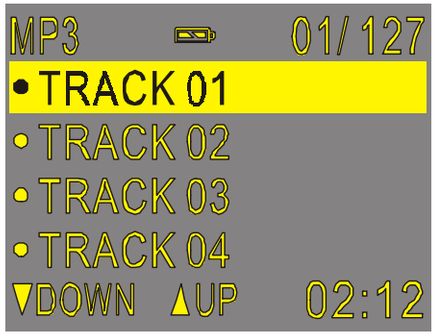
2 Switch to MP3 Mode



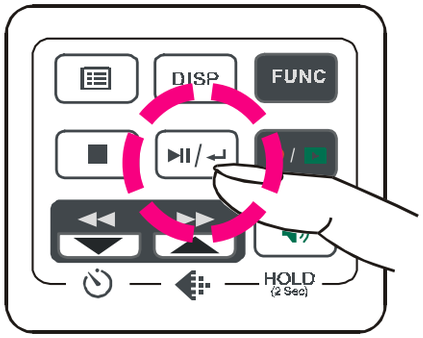
3 Press **BACK** or **NEXT** to select one track







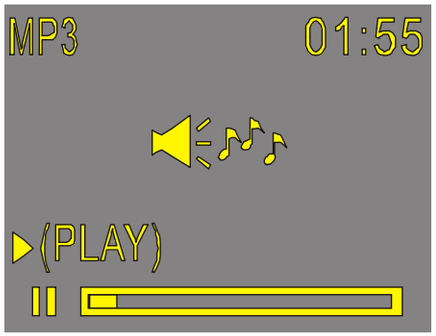
4 Press ⏯/↵ to play MP3 music

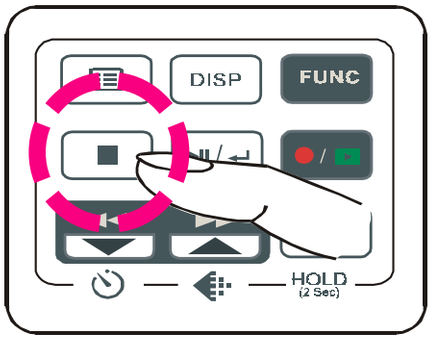


Listening To MP3 Music-continued

5 Press ⏯/↵ to pause

6 Press ■ to stop





MP3 information

While you are listening to MP3 music, the MP3 information will show on the LCD.

The title of the selected track

The track number/ The total tracks

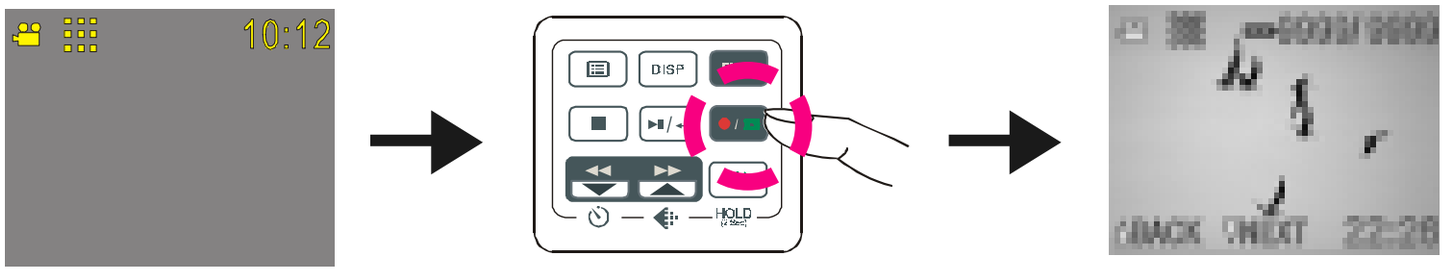
The time of the selected track

NOTE: To adjust Volume, you must press the Speaker/Hold button first; then the Up and Down buttons to adjust the volume.

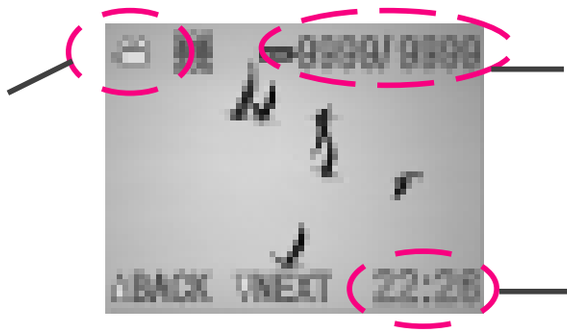
Basic Playback

Basic Playback

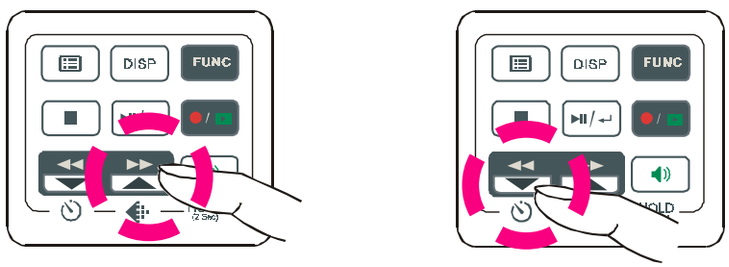
1 Switch to PLAYBACK mode



2 The information of the selected file will show on the LCD.



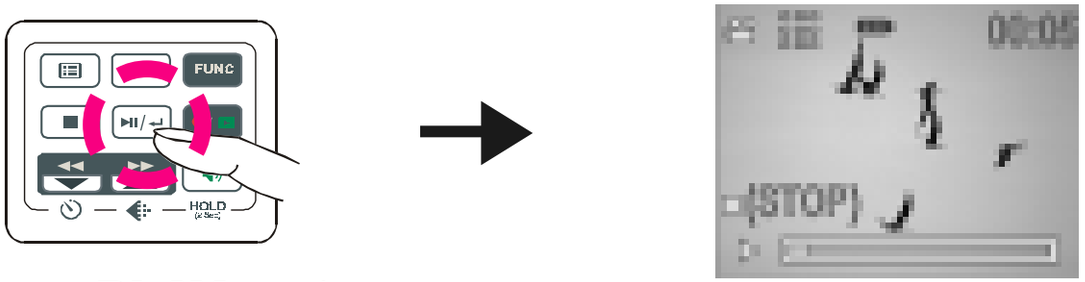
3 Press **NEXT** or **BACK** to navigate



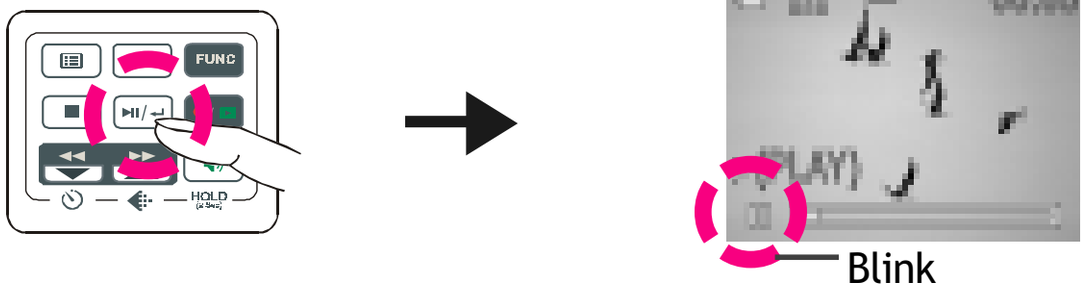
Basic Playback-continued

The following step only works on Video and Camera files.

4 Press **PLAY** to start

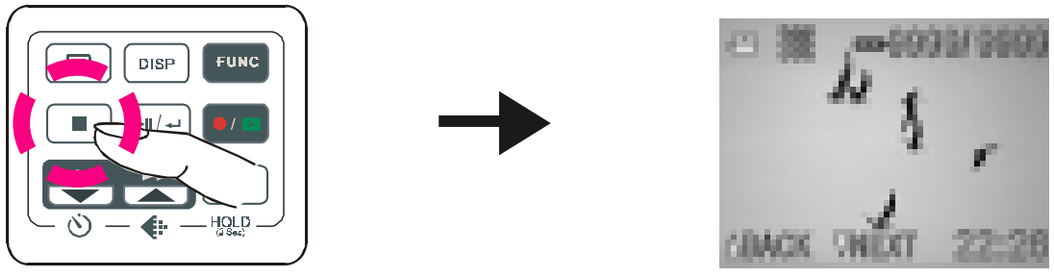


5 Press **PLAY** again to pause



6 Press **NEXT** or **BACK** to fast-forward or fast-backward

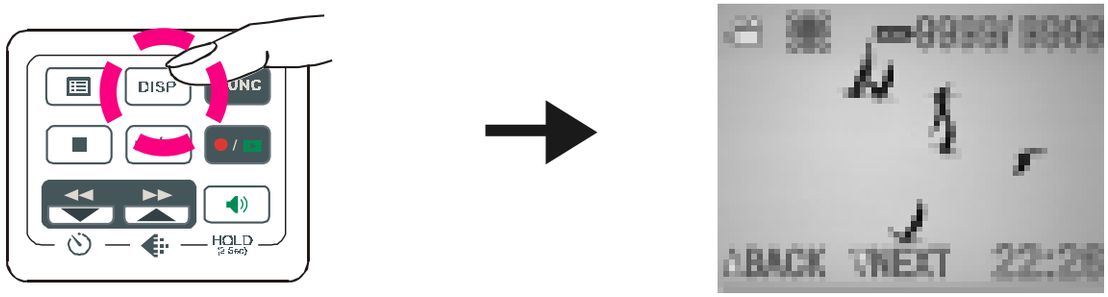
7 Press **STOP** to stop



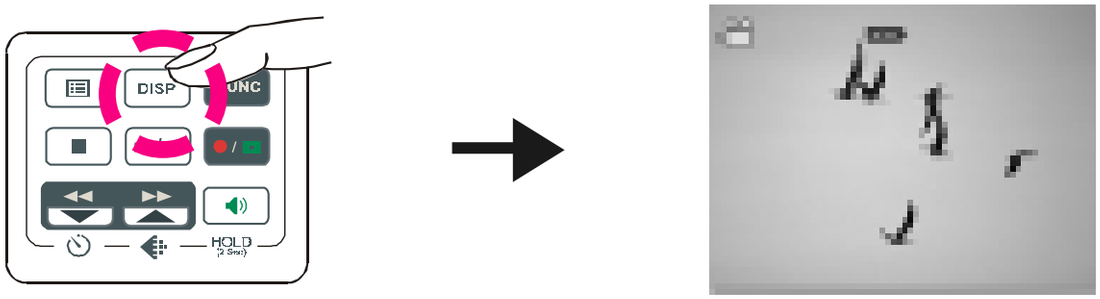
Advanced Playback

Preview in Multiple view/Single view or Hide the information

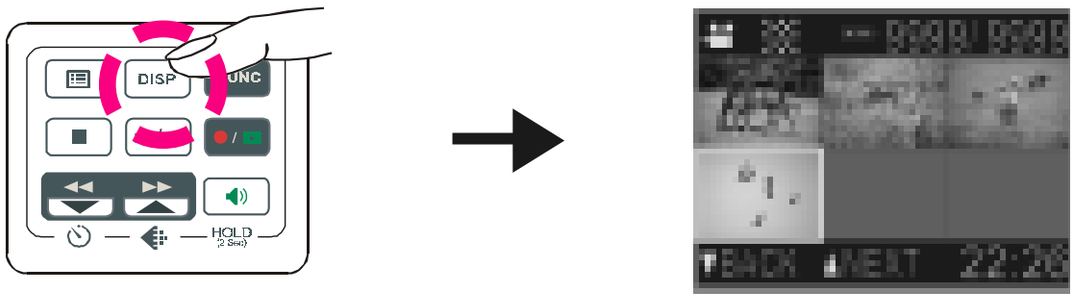
1 Press DISP to preview in Single view



2 Press DISP again to hide the information



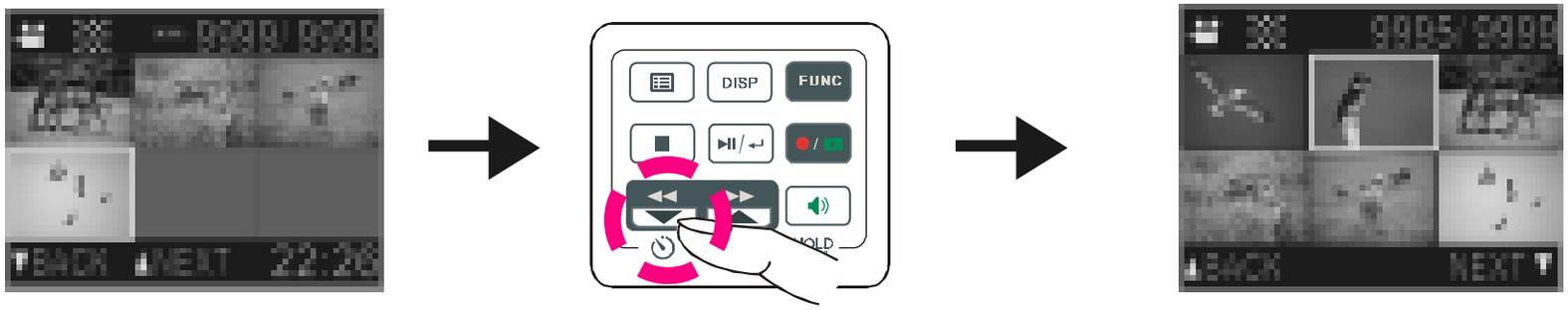
3 Press DISP again to preview in Multiple view



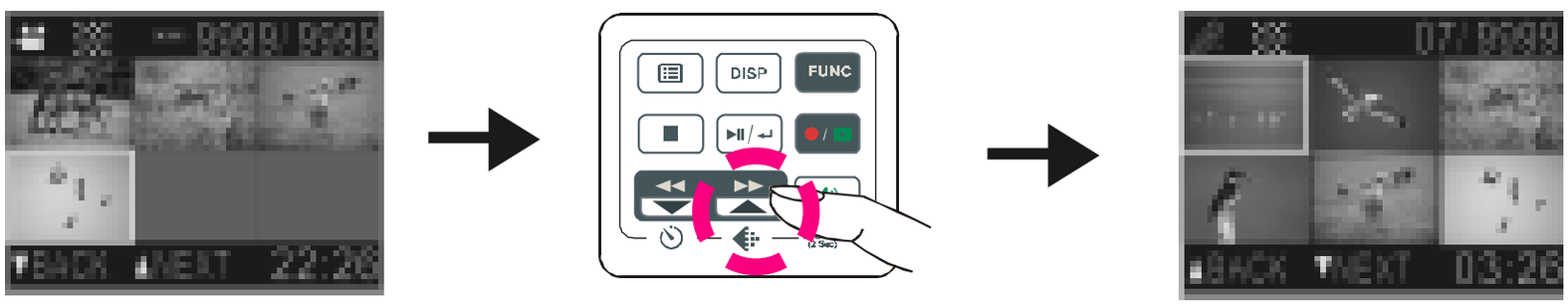
Advanced Playback-continued

Quick Search (Back/Next)

1 Press for a second to Quick Search backward



2 Press for a second to Quick Search forward

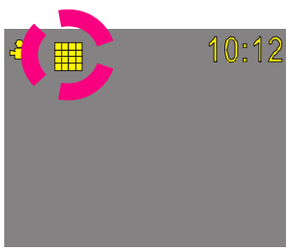


Changing the Quality Setting

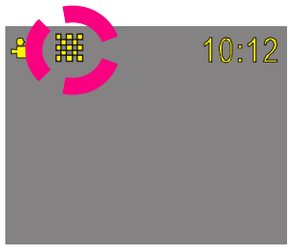
Video Record Mode

You can change the movie's quality setting whenever you want.

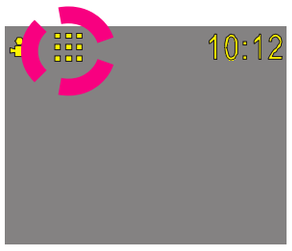
1. In Video Mode, press the button.
2. The LCD will display your current quality setting on the top left corner. "" is fine quality, "" is normal quality and "" is economic quality.



Fine quality
(Best)



Normal quality
(Better)

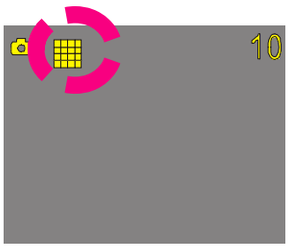


Economic quality
(Good)

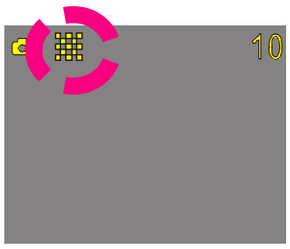
Camera Record Mode

You can change the picture's resolution setting whenever you want.

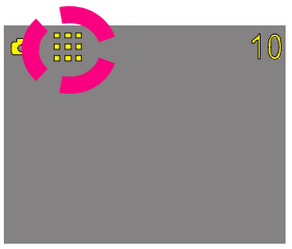
1. In Camera Mode, press the button.
2. The LCD will display your current picture's resolution setting on the top left corner. "" is fine resolution, "" is normal resolution or "" is economic resolution.



Fine resolution
(Best)



Normal resolution
(Better)



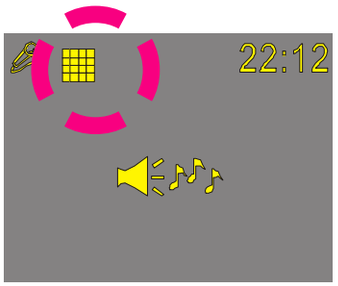
Economic resolution
(Good)

Changing the Quality Setting-continued

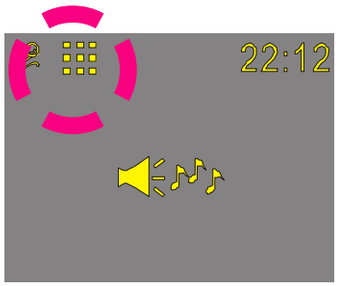
Voice Record Mode

You can change the quality setting of voice messages whenever you want.

1. In Voice Mode, press the button.
2. The LCD will display your current quality setting on the top left corner. "" for standard quality, "" for less quality and more time.



Standard quality



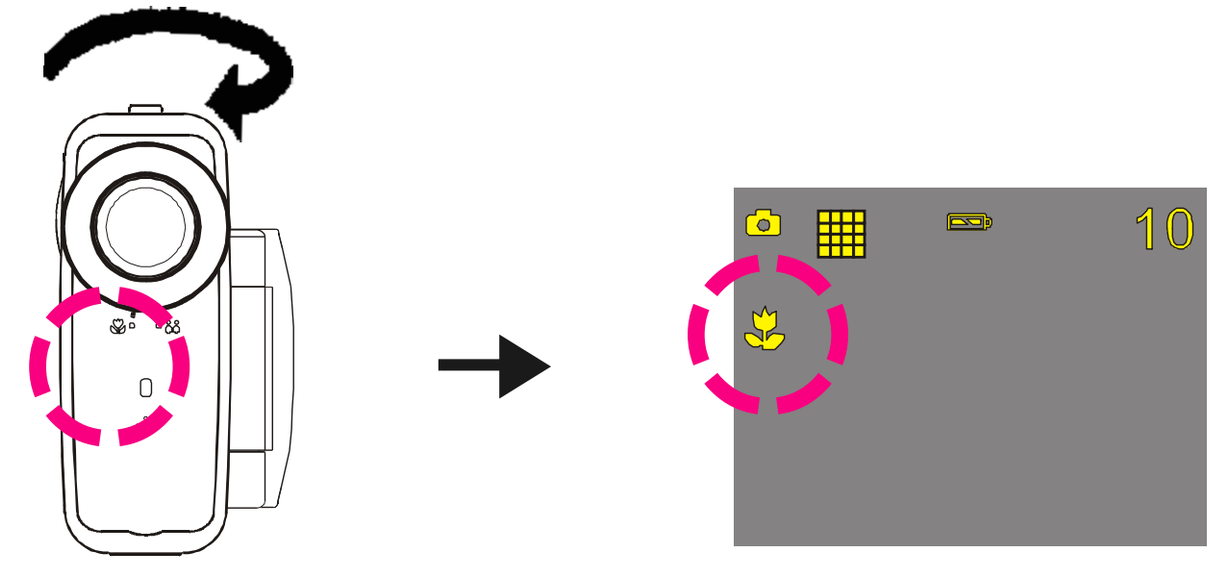
Long Time

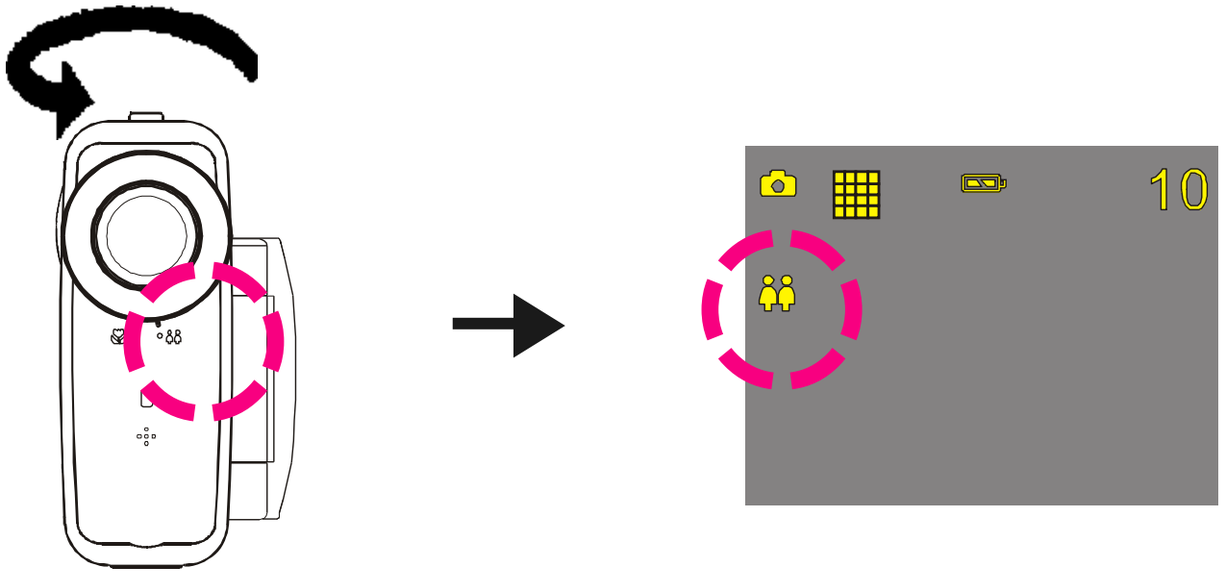
Using Macro Select Dial (for Video and Camera modes)

Using Macro select dial

You can use the macro select dial ("🌷" icon) when taking a movie or picture from a near distance. (For details, refer to the Specification.)

Note: When taking a movie or picture from normal distance, set the dial to the normal focus range ("👥" icon).

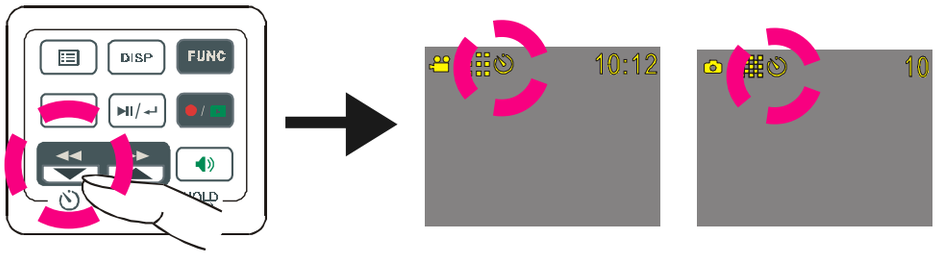




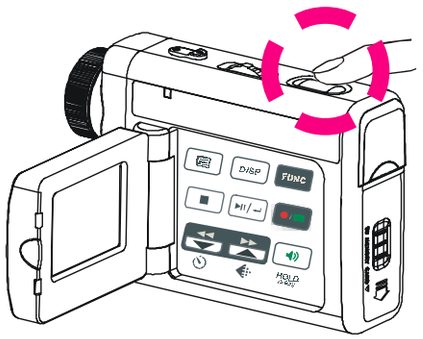
Using Self-Timer (for Video and Camera mode)

The DC400 has a built-in 10 second self-timer.

1 Press **Timer**

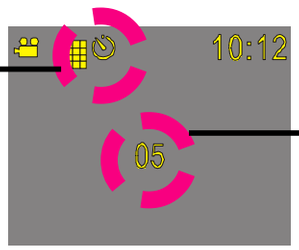


2 Press **Shutter** to start



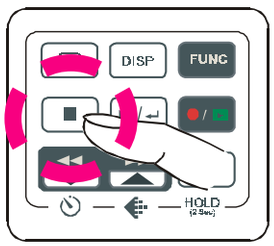
3 The timer starts to count down from 10 seconds.

This icon will blink during count-down.



The count-down number from 10 to 1.

(**Note:** You could press any button to cancel self-timer during the count-down.)



Using AE Lock

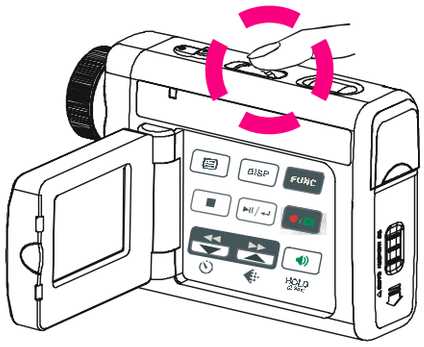
Using AE Lock (for Video and Camera mode)

You could use AE Lock (Automatic Exposure Lock) to lock the exposure while taking a movie or picture.

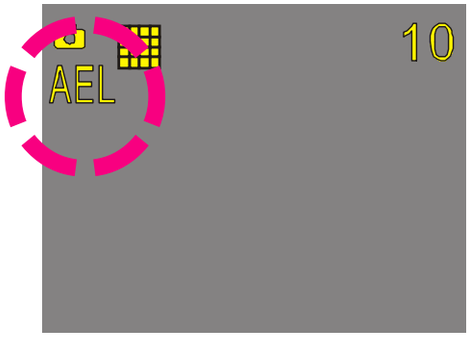
This is effective when the contrast is too strong between the subject and background or when a subject is backlit.

How to use AE Lock?
Focus on the subject on which you wish to lock the exposure setting, then press **AE LOCK** button, and you can lock the exposure setting.

1 Press **AE Lock**



2 AE Lock on

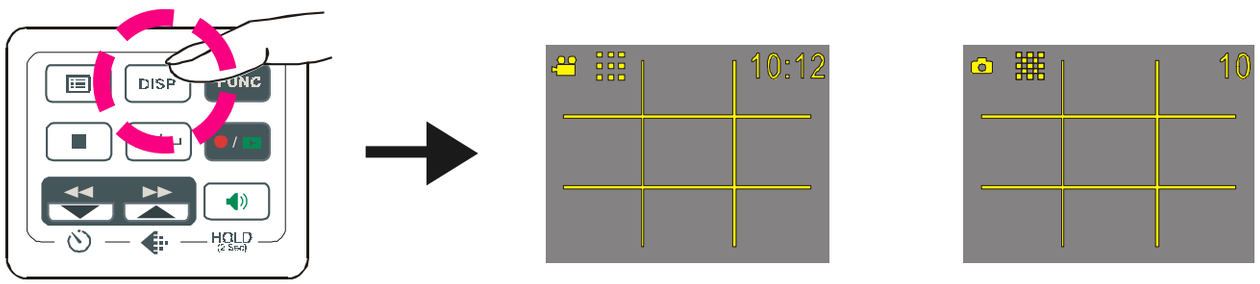


3 Press **Shutter** to take a picture or movie with the locked exposure.

Using Guide Line/The LCD Display

Using Guide Line (for Video mode and Camera mode)

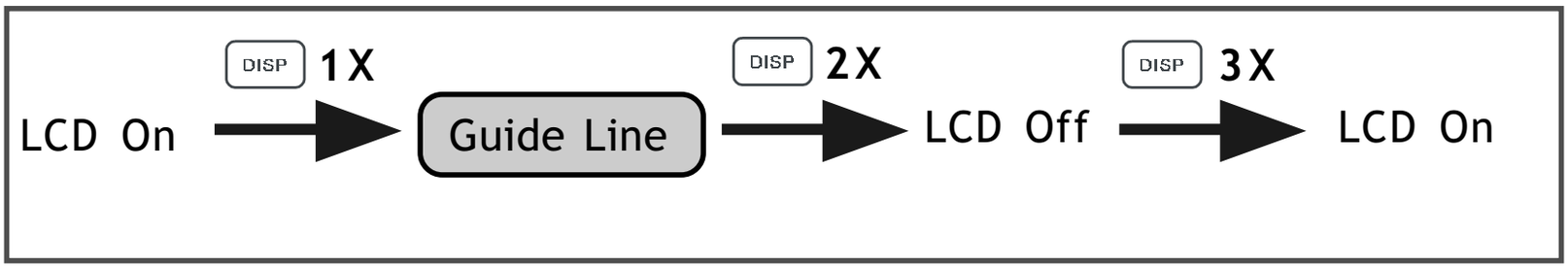
You can use guide line while taking movies or pictures to level the horizontal and vertical scene. In Record Mode, press the DISP button, the guide line will show on the LCD screen.



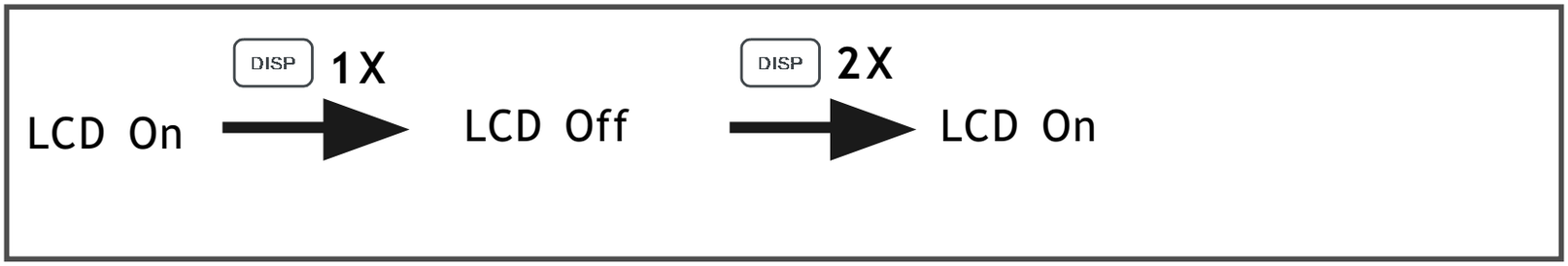
The LCD Display

To save energy, DC400 allows you to switch off the LCD panel.

For Video and Camera mode



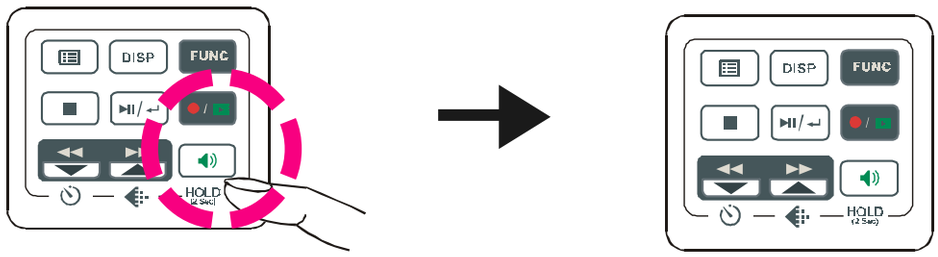
For Voice and MP3 mode



Using Hold

Using Hold (Press 2 Sec.)

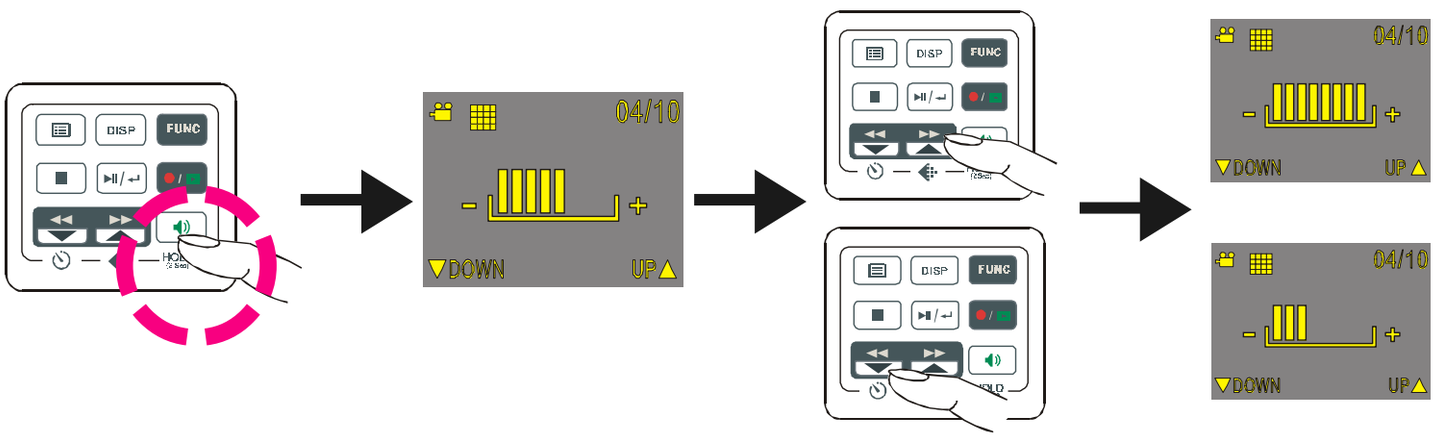
By pressing HOLD (2 Sec) for 2 seconds, the buttons on the panel will be locked. The buttons on the panel will not function while in HOLD function. To cancel the HOLD function, press HOLD (2 Sec) for 2 seconds.



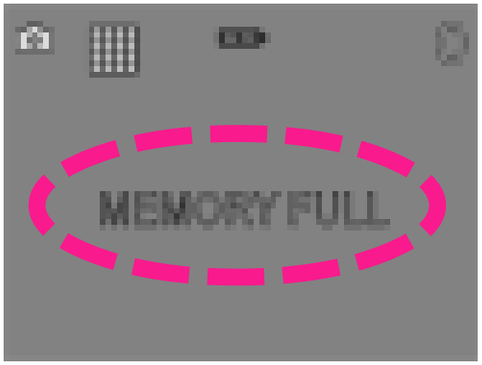
buttons locked

Volume Adjust (for Playback Mode and MP3 Mode)

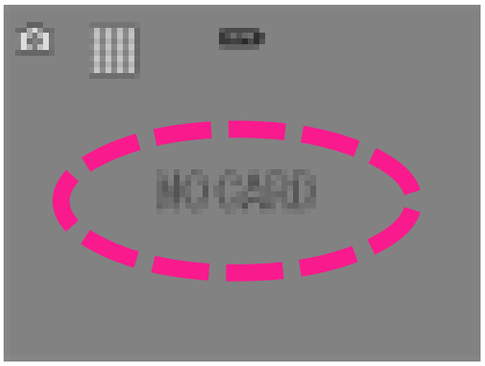
You can adjust playback volume by using ⏮ or ⏭.



Attention Icon



Memory Full
If your Digital Video's memory card is full, you can not take any new movie, picture or voice message. So when you press the Shutter to take a movie, picture or voice message, the LCD will display "MEMORY FULL" in the center.

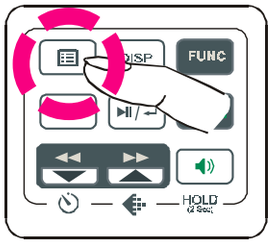


No Card
If you don't install a MMC card or SD card in this Digital Video, the LCD will display "NO CARD" in the center.

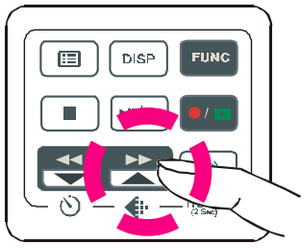
Card Lock
If you insert a SD memory card with the lock feature on, you will see a card lock icon in the left side of the LCD. (Only if you turn on the security lock of a SD card, there will be a card lock icon.)

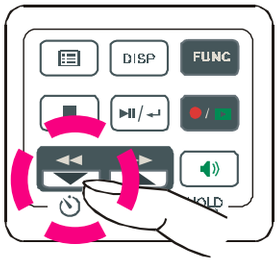
Menu

1 Press ☰

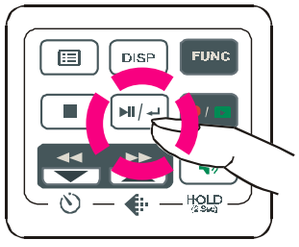


2 Press **NEXT** or **BACK** to select

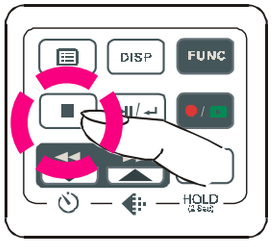




3 Press ⏯/↵ to change



4 Press ■ to exit



Menu-continued

Digital Effect (for Video and Camera mode)

This Digital Video offers four options to varify your movies and pictures. The four options are OFF (no effect), SEPIA, B&W and MOSAIC.

Night Shot ON/OFF (for Video and Camera mode)

Night Shot is long time exposure to let you take a movie or picture at night or in dim light. If you choose Night Shot ON, the icon will appear on the right corner of the LCD screen.

Note: An adequate light source is required for a good picture.

Quick Review ON/OFF (for Camera mode)

You can have a quick review on your pictures. If you choose Quick Review ON, the icon will appear on the LCD screen.

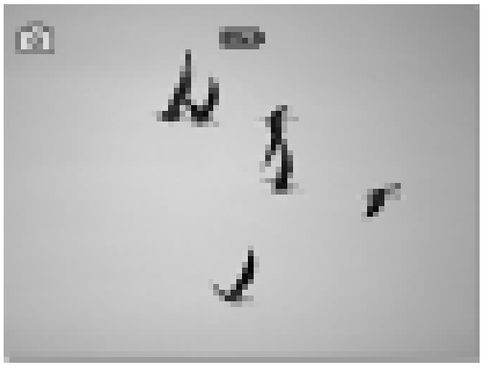
Attach Voice ON/OFF (for Camera mode)

You can attach voices on your pictures. If you choose Attach Voice ON, the icon will appear on the LCD screen.

Taking a picture with Attach Voice ON
After taking a picture with Attach Voice ON, "ATTACH VOICE!" will appear on the center of the LCD screen. Press SHUTTER to start to record the voice message. Press SHUTTER again to stop the recording. Press ■ to exit.

Menu-continued

Information ON/OFF (for Video, Camera and Voice mode)
You can choose show the information or hide the information.



Attach Date/Time ON/OFF (for Camera mode)
If you choose Attach Date/Time ON, date and time will attach on the picture that you recorded.

Date
You could set the correct date for your digital video.

Time
You could set the correct time for your digital video.

Note: Time is in 24-hour format.

Beep On/OFF
If you choose Beep On, there will be a beep sound when you press any buttons. If you choose Beep Off, no sound will occur when you press any buttons.

Note: When you connect the DC400 to a PC by USB or Power on, there will be one beep sound.)

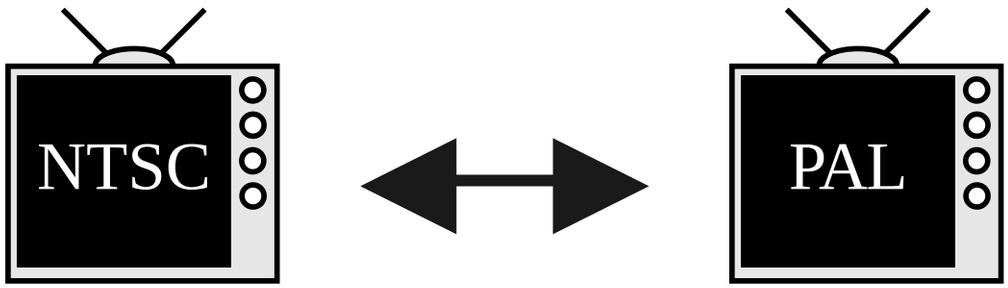
Menu-continued

Auto-Off ON/OFF

Under Auto-Off, if you leave your DC400 unused for certain times, the unit will power off automatically. There are three options: 1 minute, 2 minutes and 5 minutes. (Note: If you set Auto-off ON for 2 or 5 minutes, the LCD will power off first after 1 minute.)

NTSC/PAL

NTSC/PAL are two incompatiable analog TV signal formats. You can toggle between NTSC and PAL to your TV set's preference.
NTSC: North America and Japan
PAL: U.K. and Germany, France, Russia, certain European and African countries



50Hz/60Hz

Match up with the frequency of the main power supply in your country. Please refer to the following figures:
50 Hz : Europe, P.R.C.,Hong kong, Australia, New Zealand and South Africa.
60 Hz : America, Canada, Taiwan, Japan,and Korea.

Menu-continued

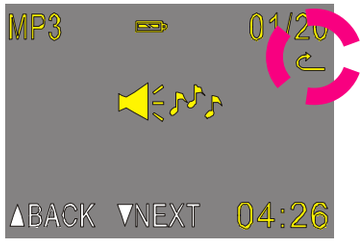
Slide Show

You can choose to playback your movies, pictures, voice messages or MP3 in Slide Show. The Slide Show playback time is 5 seconds for each movie, picture, voice message or MP3.

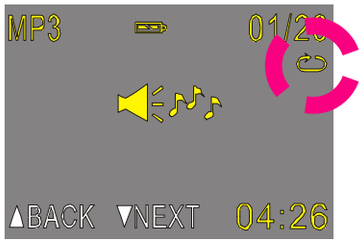
To exit, press **STOP**.

Repeat ON/OFF (only for MP3 files)

You can choose to playback your MP3 repeatedly. If you choose to Repeat One, the selected track will playback repeatedly. If you choose to Repeat All, the whole tracks will playback repeatedly.



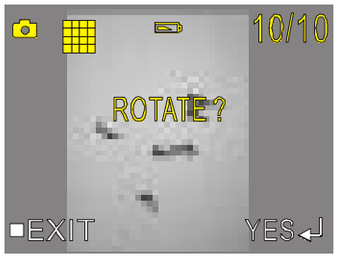
repeat one



repeat all

Rotate ON/OFF (only for image files)

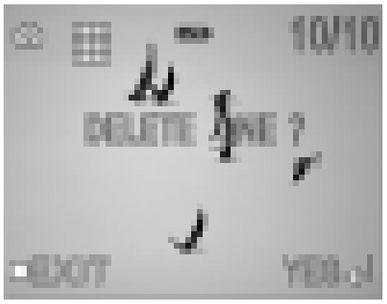
You can choose to rotate your pictures on your Digital Video. Pressing or , you can rotate the picture every 90 degree in counter-clock direction.

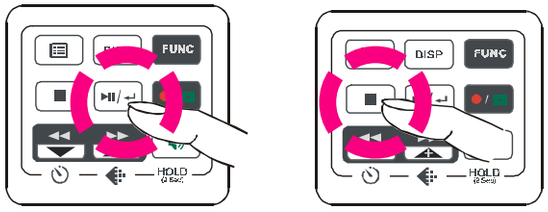


Menu-continued

⊠ Del One/ ⊠ Del ALL

You can choose to delete one file or all files. Press ⏯/↵ to confirm. Press ■ to exit.

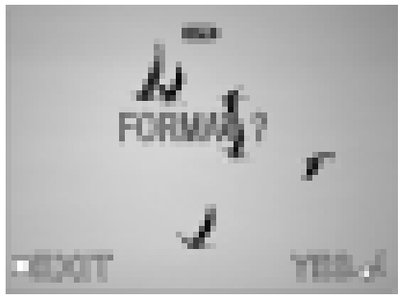


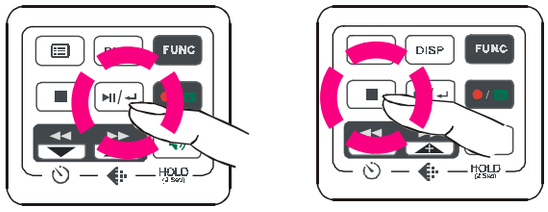


Yes No

F Format your Memory Card*

If you want to erase all movies, pictures, voice messages, MP3 and other files, you can select FORMAT under the menu and press ⏯/↵ to wipe out the memory completely. If you want to keep your memory contents, press ■ to exit.





Yes No

*** Note:** New memory may need to be formatted.

Notice for video clip playback on PC

Our video clip adopts Microsoft latest video technology(Direct X 8.1). Therefore user(Windows 98, 2000) needs to install our enclosed Direct X to playback the video clip files.

Note: Direct X is a program to upgrade Microsoft's Media Player codec.

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