# Instruction Manual Inspire the Next

# Model name DZ-HV564E

5.0 Mega Pixels5x Optical Zoom4x Digital Zoom2.5" LTPS LCD

## **READ THIS FIRST**

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## **Product Information**

- Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User Manual is a general reference guide for the product.
- The product and accessories that come with your camera may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products very often vary between retailers especially with accessories such as batteries, chargers, AC adaptors, memory cards, cables, pouches, and language support. Occasionally a retailer will specify a unique product colour, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.
- The illustrations in this manual are for the purpose of explanation and may differ from the actual design of your camera.
- The manufacturer assumes no liability for any errors or discrepancies in this user manual.

Read and understand all *Warnings* and *Cautions* before using this product.

## Warnings

If foreign objects or water have entered the camera, turn the power off and remove the battery.

Continued use might cause fire or electric shock. Consult the store of purchase.

If the camera has fallen or its case has been damaged, turn the power off and remove the battery.

Continued use might cause fire or electric shock. Consult the store of purchase.

Do not disassemble, change or repair the camera.

This might cause fire or electric shock. For repair or internal inspection, ask the store of purchase.

Use the supplied AC adaptor only with the indicated power supply voltage.

Use with any other power supply voltage might cause fire or electric shock.

#### Do not use the camera in areas near water.

This might cause fire or electric shock. Take special care during rain, snow, on the beach, or near the shore.

Do not place the camera on inclined or unstable surfaces.

This might cause the camera to fall or tilt over, causing damage.

#### Keep the battery out of the reach of children.

Swallowing the battery might cause poisoning. If the battery is accidentally swallowed, immediately consult a physician.

Do not use the camera while you are walking, driving or riding a motorcycle.

This might cause you to fall over or result in traffic accident.

Please use battery with complete external seals.

Do not use battery from which the seals have been damaged or removed. This may cause leakage, explosion, or injury.





## Cautions

# Insert the battery paying careful attention to the polarity (+ or -) of the terminals.

Inserting the battery with its polarities inverted might cause fire and injury, or damage to the surrounding areas due to the battery rupturing or leaking.

Do not subject the LCD monitor to impact.

This might damage the glass on the screen or cause the internal fluid to leak. If the internal fluid enters your eyes or comes into contact with your body or clothes, rinse with fresh water. If the internal fluid has entered your eyes, consult a physician to receive treatment.

A camera is a precision instrument. Do not drop it, strike it or use excessive force when handling the camera.

This might cause damage to the camera.

Use the camera with caution, avoiding sudden power cutoff during operation.

This might cause file error, corrupt the stored data or even damage the hardware.

**Do not use the camera in humid, steamy, smoky, or dusty places.** This might cause fire or electric shock.

Do not remove the battery immediately after long period of continuous use.

The battery becomes hot during use. Touching a hot battery might cause burns.

#### Do not wrap the camera or place it in cloth or blankets.

This might cause heat to build up and deform the case, resulting in fire. Use the camera in a well-ventilated place.

Do not leave the camera in places where the temperature may rise significantly, such as inside a car.

This might adversely affect the case or the parts inside, resulting in fire.

**Before you move the camera, disconnect cords and cables.** Failure to do this might damage cords and cables, resulting in fire and electric shock.

## Notes on Battery Usage

When you use the battery, carefully read and strictly observe the *Safety Instructions* and the notes described below:

- Use only the specified battery (3.7V).
- Avoid extremely cold environments as low temperatures can shorten the battery life and reduce camera performance.
- When you are using a new rechargeable battery or a rechargeable battery that has not been used for an extended period of time (the battery that passed the expiry date is an exception), it may affect the number of images that can be captured. Therefore, to maximise its performance and lifetime, we recommend that you fully charge the battery and discharge it for at least one complete cycle before use.
- The battery may feel warm after a long period of continuous use of the camera. This is normal and not a malfunction.
- The camera may feel warm after a long period of continuous use. This is normal and not a malfunction.
- If the battery is not to be used for a long period of time, remove it from the camera to prevent leakage or corrosion and store it after no battery power is left. Stored for a long time in a fully charged condition, its performance may be impaired.
- Always keep the battery terminals clean.
- There is a risk of explosion if the battery is replaced by an incorrect type.
- Dispose of used battery according to the recycle instructions.
- Charge the rechargeable battery fully before using for the first time.
- To prevent short-circuiting or fire, keep the battery away from other metal objects when carrying or storing.

# CONTENTS

- **6** INTRODUCTION
- 6 Overview
- 6 Package Contents
- 7 GETTING TO KNOW YOUR DIGITAL VIDEO CAMERA
- 7 Front View
- 8 Rear View
- 9 LCD Monitor Display

## **12 GETTING STARTED**

- 12 Preparation
- 13 Charging the Battery
- 14 Turning the Power On/Off
- 14 LED Indicators
- 15 Handling the Digital Video Camera
- 16 Setting the Date and Time
- 16 Choosing the Language
- 17 Formatting the Memory Card

## **18 CAPTURE MODE**

- 18 Recording Video Clips
- 18 Capturing Still Images
- 19 Using the Zoom Function
- 19 Using the Assist Light
- 20 Recording Shots using Face Detection Technology
- 21 Setting Manual White Balance

## 22 AUDIO MODE

- 22 Recording Audio Files
- 22 Playing Back Audio Files

## 23 PLAYBACK MODE

- 23 Playing Back Video Clips
- 23 Playing Back Still Images
- 24 Playing Back Still Images/Video Clips on TV
- 24 Connecting the Digital Video Camera to HDTV

- 25 Thumbnail Display
- 25 Slide Show Display
- 26 Protecting Images/Video Clips/ Audio Files
- 27 DPOF Settings
- 28 Deleting Images/Video Clips/ Audio Files

## **29 MENU OPTIONS**

- 29 Video Menu
- 31 Capture Menu
- 33 Playback Menu
- 34 Setup Menu

## 36 INSTALLING SOFTWARE PROGRAM

## 37 TRANSFERRING FILES TO YOUR COMPUTER

- 37 Downloading / Deleting Your Files via Computer
- 38 USING THE DIGITAL VIDEO CAMERA AS A PC CAMERA
- **39 SPECIFICATIONS**

## **40 APPENDIX**

- 40 Possible Number of Shots
- 41 Troubleshooting

# INTRODUCTION

## Overview

Congratulations on your purchase of the new digital video camera.

Equipped with a 5.0-megapixel sensor, this digital video camera captures still images and video clips with high definition.

## Package Contents

Carefully unpack your digital video camera and ensure that you have the following items:

## **Common Product Components:**

- Digital video camera
- Software CD-ROM with Multi-language User Manuals
- USB cable
- AV cable
- YPbPr (HD out) cable
- Earphone
- Camera strap
- Camera pouch
- Rechargeable lithium-ion battery
- Quick start guide
- Battery charger
- Power Adaptor (3-pin for UK model; 2-pin for EU model)



Accessories and components may vary by selling regions.

# GETTING TO KNOW YOUR DIGITAL VIDEO CAMERA

Front View



- 1. Lens
- 2. LED assist light
- 3. Speaker
- 4. Battery cover
- 5. Strap holder
- 6. Tripod mount

## **Rear View**



- 1. Microphone
- 2. Status LED
- 3. **•** Play button
- 4. ▲ Up button MODE Mode button
- 5. **•** Right button
- Focus button
- 6. ▼ Down button
- MENU Menu button
- 7. OK / Record / Shutter button
- 8. **T Q** Zoom in (telephoto) button

- 9. 🕞 **W** Zoom out (wide-angle)button / Thumbnail button
- 10. ◀ Left button C→ Assist light button
- 11. (I) Power button
- 12. USB or AV OUT terminal
- 13. HDTV terminal
- 14. SD/SDHC memory card slot
- 15. Earphone jack
- 16. LCD monitor

## **LCD Monitor Display**

#### Standby Mode





#### Audio Recording Mode



(Recording)



- 1. Recording indicator
- 2. Status indicator (recording)

- 1. Audio mode icon
- 2. Available recording time
- 3. Storage media
- 4. Battery condition
- 5. Elapsed time
- 6. Recording indicator
- 7. Status indicator (standby)

## **Playback Mode**

Video Mode



- 1. Video playback mode icon
- 2. Elapsed time
- 3. Storage media
- 4. Battery condition
- 5. Folder and file number
- 6. Volume indicator
- 7. Video status bar
- 8. Playback indicator

Camera Mode



- 1. Image playback mode icon
- 2. Storage media
- 3. Battery condition
- 4. Folder and file number

EN-10

#### Audio Playback Mode



- Audio playback mode icon
   Elapsed time

- Storage media
   Battery condition
- 5. Volume indicator
- 6. File name (ex. 100-0001)
- 7. Playback indicator
- 8. Audio status bar

## **GETTING STARTED**

## **Preparation**

- 1. Attach the camera strap.
- 2. Open the battery cover.

- 3. Insert the supplied battery with correct orientation as shown. (Label side back)
  - Close the battery cover and make sure it is locked securely.
- 4. Insert an SD/SDHC memory card (not included).
  - The digital video camera does not have built-in memory and cannot operate without an SD/ SDHC memory card inserted. Make sure to insert an SD/SDHC memory card before use.
  - Open the SD card slot cover gently.
  - Insert an SD/SDHC memory card to the card slot.
  - Close the cover and make sure it is locked securely.
  - Be sure to format the SD/SDHC memory card with this video camera before its initial usage.





- To prevent valuable data from being accidentally deleted from an SD/ SDHC memory card, you can slide the write protect tab (on the side of the SD/SDHC memory card) to "LOCK".
- To save, edit, or delete data on an SD/SDHC memory card, you must unlock the card.
- To prevent damaging of SD/SDHC memory card, be sure to turn off the power when inserting or removing the SD/SDHC memory card. If inserting or removing the SD/SDHC memory card with the power on, the digital video camera will automatically turn off.
- Be careful not to drop the battery when opening or closing the battery cover.



## Charging the Battery

Charge the battery fully with the supplied battery charger before use.

- 1. Insert the battery into the battery charger.
  - The battery to be inserted into the charger by the label side back.
- 2. Connect the power cord to the charger and insert the plug into a wall outlet.
  - The status LED on the charger lights red when charging has started and lights green when charging is completed. The LED also lights green if no battery is inserted into the charger.



- Charging time varies according to the ambient temperature and the status of battery.
- Remove the battery after charging is completed.



- The battery may feel warm after it has been charged or immediately after being used. This is normal and not a malfunction.
- When using the camera in cold areas, keep the camera and battery warm by holding the inside your outer clothes.
- 2-pin adaptor for EU models; 3-pin adaptor for UK models.

## Turning the Power On/Off

Load the battery and insert an SD/SDHC memory card before starting.

- Press the () button until the digital video camera turns on.
- To turn the power off, press the () button again.





The power is turned off automatically when the digital video camera has not been operated for a defined period of time. To resume operation, turn the power on again. Refer to section in this manual titled "Auto Off" in the setup menu for further details.

## **LED** Indicators

Indicators	State	Description/Activity
Status LED	Solid green	The digital video camera is powering up.
Status LED	Solid green	The digital video camera is ready to record images (or videos).
Status LED	Blinking green	USB communication/transfer is in progress.
Status LED	Blinking green	Reading/Writing files.

## Handling the Digital Video Camera

- 1. Open the panel by pulling it away from the digital video camera.
- 2. Choose the angle of the monitor that suits you best by rotating the panel.
  - The panel rotates up to 270°. It is useful for self-portrait.







- Make sure you open the LCD panel at 90 degrees before attempting to rotate it.
- Rotate the LCD panel carefully with the correct direction. Over rotation or rotating to the wrong direction may damage the hinge that connects the LCD monitor to the digital video camera.
- Avoid touching the LCD monitor when moving the LCD panel.

#### **Cautions:**

- Do not hold the digital video camera by only holding the LCD panel.
- Be careful not to block the lens, microphone, or LED lights with your fingers when shooting.
- Close the LCD panel when not using the digital video camera to avoid damages.

## Setting the Date and Time

The date/time needs to be set if / when:

- The digital video camera is turned on for the first time.
- The digital video camera is turned on after being left without battery for an extended period of time.
- 1. Press the () button until the digital video camera turns on.
- 2. Press the **MENU** button.
- 3. Select [Setup] with the  $\blacktriangleright$  ( $\clubsuit$ ) button.
- Select [Date/Time] with the ▲ (MODE) / ▼ (MENU) buttons, and press the ● button.
  - Select the item's field with the ◄ (:○) / ►
     (♥) buttons and adjust the value for the date and time with the ▲ (MODE) / ▼ (MENU) buttons.
  - The time is displayed in 24-hour format.
  - After confirming all settings are correct, press the 
     button.

     button.
- 5. To exit from the [Setup] menu, press the ► (♥) button.



●:OK

## Choosing the Language

Specify in which language menus and messages are to be displayed on the LCD monitor.

- 1. Press the **MENU** button.
- 2. Select [Setup] menu with the ► (♣)button.
- 3. Select [Language] with the ▲ (MODE) / ▼ (MENU) buttons, and press the button.
- 4. Select the displayed language with the  $\blacktriangle$  (MODE)
  - /  $\checkmark$  (**MENU**) buttons, and press the  $\bigcirc$  button.
  - The setting will be stored.

	Setup
Language	English
Веер	On
Format	Next Menu
LCD Bright.	0
Date/Time	Next Menu
► : Exit	•:0K

## Formatting the Memory Card

This utility formats the SD/SDHC memory card and deletes all stored images, videoclips, and data.

- 1. Press the **MENU** button.
- 2. Select [Setup] menu with the  $\blacktriangleright$  ( $\clubsuit$ ) button.
- 3. Select [Format] with the ▲ (MODE) / ▼ (MENU) buttons, and press the button.
- Select [Yes] with the ▲ (MODE) / ▼ (MENU) buttons, and press the 

   button.
  - To cancel formatting, select [No] and press the 
     button.
- 5. To exit from the [Setup] menu, press the ► (♥) button.

) <u> </u>	Setup
Language	English
Веер	On
Format	Next Menu
LCD Bright.	0
Date/Time	Next Menu
► : Exit	•:0K



# CAPTURE MODE

Your digital video camera is equipped with a 2.5" full colour LTPS LCD monitor to help you capture/playback images and video clips or adjust menu settings.

## **Recording Video Clips**

- 1. Press the () button until the digital video camera turns on.
  - The default mode is Video Mode.
- 2. Compose the image on the LCD monitor.
- 3. Press the 
  button to start recording.
- 4. To stop recording, press the <a>button</a>.
  - The recording time depends on the storage media size and the subject to be recorded.





- If the acess speed of your SD/SDHC memory card is not fast enough for recording video clips in the currently selected size, the recording will stop. In this case, select a video quality lower than the current one.
- When using SDHC memory card to record high resolution video clips, higher than Class 4 is recommended to prevent recording from discontinuing.

## Capturing Still Images

- 1. Press the () button until the digital video camera turns on.
- 2. Press the **MODE** button to switch to capture mode.
- 3. Compose the image on the LCD monitor.
- 4. Press the 
  button to capture the image.



## Using the Zoom Function

Using a combination of 5x optical zoom and 4x digital zoom permits zoom photography at up to 20x magnification. While the digital zoom can be a useful feature, the more an image is enlarged (zoomed), the more pixelated (grainier) the image will appear.

To capture a zoomed image/video clip, perform the following steps:

- 1. Compose the image on the LCD monitor.
  - Press the T Q button to zoom in on the subject, and enlarge the subject on the LCD monitor.
  - Press the B w button to view a wider angle of the image.
  - The status of digital magnification is displayed on the zoom status bar.



- At 1440 x 1080 (video mode): the preview can reach digital zoom to 2x. At 1280 x 720 and 640 x 480 (video mode): the preview can reach digital zoom to 4x.
- 2. Press the 
  button to capture/record the image/video clip.



- To activate digital zoom function, set [Digi. Zoom] to [On] in the capture or video menu.
- After serious shock or drop, the image on LCD monitor may be blurred, please turn off and on digital video camera again.

## Using the Assist Light

When capturing still images/video clips in dark places, you can turn on the LED assist light in front of the digital video camera to help brightening and focusing on the subject.

1. In video/capture mode, press the **C** button to turn the LED assist light on or off.





The assist light can only be activated in capture or video mode. When the digital video camera is switched to playback or audio mode, the assist light will turn off automatically.

## **Recording Shots using Face Detection Technology**

Face Detection Technology can identify and focus on the human faces in the image. This advanced function simultaneously detects up to 9 human faces regardless of their position in the scene.



Face detection function is on

Focus lock

Out of focus

- 1. In capture mode, toggle 🖏 button until [[.]] icon appears on the LCD monitor.
  - The white frame is identified as the "top priority" face (main focus frame), and gray ones around the other faces.
- 2. Press the 

  button halfway down to lock the focus.
  - The main focus frame simultaneously turns green.
  - If the "top priority" face is out of focus, all frames will be disappeared from the screen.
- 3. Press the **•** button down fully to capture your image.



- Subjects that are not suitable with this function:
  - a. A person is wearing glasses, sunglasses, or face is covered with hat or hair.
  - b. A person turns sideways.

## Setting Manual White Balance

You can manually set and store the white balance when the menu options do not offer a good match.

- 1. In video/capture mode, press the **MENU** button.
- Select [W.Balance] with the ▲ (MODE) / ▼ (MENU) buttons, and press the 

   button.
- 3. Select [Manual WB] with the ▲ (MODE) / ▼ (MENU) buttons, and press the button.
- 4. Select [New WB], and press the 
  button.
  - To use the previously set white balance data, select [Use Data], and press the button.
- 5. Point the video camera at a white paper or white slate, and press the 

  button.
  - When the manual white balance is stored, [COMPLETE] will be displayed and the video camera returns to recording mode.

Use Data	
New WB	
	_
I = Exit	юк



# AUDIO MODE

## **Recording Audio Files**

The digital video camera enables you to record and playback audio files anytime and anywhere.

- 1. Press the **MODE** button to switch to audio mode.
- 2. Press the 

  button to start audio recording.
  - To stop recording, press the button.



## **Playing Back Audio Files**

- 1. Press the  $\blacktriangleright$  button.
- Select the desired audio clip with the ◄ (
   (♥) buttons.
- 3. Press the button to begin playback.
  - To pause, press the button again.
  - To stop playback, press the  $\checkmark$  (MENU) button.
  - To adjust the volume, use the 🗗 W / T Q buttons.

	00:02:	05 🗊 💷
		<b>√</b> ∭)
• Play	▼ Stop	100-0001

# PLAYBACK MODE

You can play back all the recorded files on the LCD monitor.

## Playing Back Video Clips

- 1. Press the **>** button.
  - The last recorded file appears on the LCD monitor.
- 2. Select the desired video clip with the ◄ (:) /
  (:) buttons.
- 3. Press the 

  button to start video playback.
  - To pause video playback, press the 
     button.
  - To cancel pause, press the button again.
  - To adjust the volume, use the 🔁 W / T Q buttons.
- 4. To stop video playback, press the ▼ (MENU) button and return to the start of the video clip.

- Video clips cannot be displayed rotated or enlarged.
- To play the video clip back on your computer, you may use Windows Media Player 9 above version. Windows Vista user may use Windows Movie Maker.

## Playing Back Still Images

- 1. Press the **>** button.
  - The last recorded file appears on the LCD monitor.
- Select the desired image with the ◄ (
   (♥) buttons.
- 3. Press the **T Q** button to adjust the zoom ratio.
  - The magnification factor is displayed on the LCD monitor.
- 4. To view different portion of the images, press the ▲ (MODE) / ▼ (MENU) / ◄ (:○) / ► (:) buttons to adjust the display area.





The magnification factors range from 1.5x to 8.0x.



## Playing Back Still Images/Video Clips on TV

You can also playback your images on a TV screen. Before connecting to any devices, make sure to select NTSC / PAL system to match the video input system of the TV/video equipment you are going to connect to the digital video camera, then turn all connected devices off.

- 1. Connect one end of the AV cable to the AV OUT terminal of the digital video camera.
- 2. Connect the other end to the AV input socket of the TV set.
- 3. Turn the TV and digital video camera on.
- 4. Playback the still images/video clips.
- 5. The method of operation is the same as playing back still images and video clips on the digital video camera.

## Connecting the Digital Video Camera to HDTV

HD TV (High Definition Television) is a digital television broadcasting system with better resolution than traditional television systems. It can perform HD (720P) high resolution quality.



- 1. Connect one end of the YPbPr (HD out) cable into the (Video IN) port on the HDTV and the other end into the HDTV terminal of the digital video camera.
- 2. Connect one end of the AV cable into the (Audio IN) socket of the HDTV and the other end into the AV OUT terminal of the digital video camera. (Do not connect the yellow connector to HDTV's AV-IN.)
- 3. Turn the TV and digital video camera on.
  - The video camera will auto detect and set the settings when the cables are connected.

## Thumbnail Display

This function allows you to view thumbnail images on the LCD monitor so you may search for a particular image/video clip/audio file.

- 1. In playback mode, press the 🕞 **W** button.
  - 3 thumbnail images are displayed simultaneously.
- Use the ▲ (MODE) / ▼ (MENU) buttons to select the file to be displayed.
  - Use the ◄ (:○) / ► (:) buttons to go to previous or next page.
- 3. Press the <a>button to display the selected image on full screen.</a>

## Slide Show Display

The slideshow function enables you to play back your still images automatically in sequential order as a slideshow. This is a very useful and entertaining feature for reviewing captured images and for presentations.

- 1. In the playback mode, press the **MENU** button.
- Select [Slide Show] with the ▲ (MODE) / ▼ (MENU) buttons and press the 
   button.
- Select the desired interval time with the ▲ (MODE) / ▼ (MENU) buttons, and press the 

   button.
  - The slide show starts.
  - To stop the slideshow during playback, press the button.

Play	4
Delete File	No
Delete All	• 5 Sec.
Slide Show	7 Sec.
Protect	9 Sec.
DPOF	Next Menu
	•:OK



Video clips are displayed as images and will not be played back.

Audio files are not displayed in slide show.



## Protecting Images/Video Clips/Audio Files

Set the data to read-only to prevent files from being deleted by mistake.

## Protecting One File

- 1. Press the **>** button.
- Select the file you wish to protect with the
   (℃) / ► (♥) buttons.
- 3. Press the **MENU** button.
- Select [Protect] with the ▲ (MODE) / ▼ (MENU) buttons and press the 
   button.
- 5. Select [Single] with the ▲ (MODE) / ▼ (MENU) buttons, and press the button.
  - The selected file is protected.
  - To cancel protection, perform step 1 to 5 again.

## **Protecting All Files**

- 1. Select [All] from the Protect menu and press the 

  button.
- 2. Select [Lock] with the ▲ (MODE) / ▼ (MENU) buttons, and press the button.
  - All stored files are protected.
  - To cancel all protection, perform the above steps and select [Unlock] in step 2.
  - To cancel protection for one specific file, perform above step 1 to 5 of "Protecting One File".



- The protect icon is displayed with protected files.
- Formatting an SD/SDHC memory card overrides protection, and deletes all files regardless of their protected status.

▶ Play	4
Delete File	No
Delete All	Next Menu
Slide Show	Single
Protect	All
DPOF	Next Menu
	•:0K

## **DPOF Settings**

DPOF is the abbreviation for Digital Print Order Format, which allows you to embed printing information on your memory card. You can select the images to be printed and how many prints to make with the DPOF menu in the digital video camera and insert the memory card to the card compatible printer. When the printer starts printing, it will read the embedded information on the memory card and print the specified images.

- 1. Press the **b** button.
- Select the image that you want to set DPOF with the ◄ (
   (\*) buttons.
- 3. Press the **MENU** button.
- 4. Select [DPOF] with the ▲ (MODE) / ▼ (MENU) buttons, and press the button.
- 5. Select [Single] or [All] with the ▲ (MODE) / ▼ (MENU) buttons, and press the 
   button.
  - [Single]: Sets DPOF for each individual image.
  - [All]: Sets DPOF for all images at once.
- 6. Select [Print Num.] with the ▲ (MODE) / ▼ (MENU) buttons, and press the button.
  - This displays the number of prints setting screen.
- Set the number of prints with the ▲ (MODE) / ▼ (MENU) buttons, and press the button.
- 8. Select [Date Print] with the ▲ (MODE) / ▼ (MENU) buttons, and press the 

  button.
  The date setting screen appears



- the Jutton.
  - [On]: The date of the image will also be printed.
  - [Off]: The date of the image will not be printed.
- 10. Select [Print] with the  $\blacktriangle$  (MODE) /  $\checkmark$  (MENU) buttons, and press the  $\bigcirc$  button.
- 11. Select [Execute] with the  $\blacktriangle$  (MODE) /  $\checkmark$  (MENU) buttons, and press the  $\bigcirc$  button.
  - This creates a file containing the DPOF information, and when the operation is finished, the screen returns to the playback mode.
  - The DPOF icon [♣] is displayed on each image that has set up DPOF settings.





## Deleting Images/Video Clips/Audio Files

- 1. Press the  $\blacktriangleright$  button.
- Select the file you wish to delete with the
   () / ► () buttons.
- 3. Press the **MENU** button.
- 4. Select [Delete File] or [Delete All] with the
   ▲ (MODE) / ▼ (MENU) buttons and press the 
   button.
  - [Delete File]: Deletes the current file.
  - [Delete All]: Deletes all files.
- 5. Select [Yes] to delete. Select [No] to cancel.
- 6. Press the 
  button to confirm.

▶ Play	<b>~</b>
Delete File	• No
Delete All	Yes
Slide Show	5 Sec.
Protect	Single
DPOF	Next Menu
	•:0K

# **MENU OPTIONS**

## Video Menu

This menu is for the basic settings to be used when shooting video clips.



- 1. The default mode is Video Mode.
- 2. Press the **MENU** button.
- 3. Select the desired option item with the ▲ (MODE) / ▼ (MENU) buttons, and press the button to enter its respective menu.
- 4. Select the desired setting with the ▲ (MODE) / ▼ (MENU) buttons, and press the button.
- 5. To exit from the menu, press the  $\blacktriangleleft$  (**;O**) button.

#### Scene

Select from 9 different scene modes in accordance with the shooting conditions.

- \* [Blank] Auto
- \* [ 👗 ] Portrait
- \* [ 🍤 ] Night
- \* [ 🛠 ] Sports
- \* [ 🔺 ] Landscape
- \* [ 🚔 ] Sunset
- \* [ 🏝 ] Beach/Snow
- \* [ 🚿 ] Spotlight
- \* [ 💒 ] User Setting

#### Self-timer

This activates the self-timer and sets the delay time.

- \* [Blank] Off
- \* [**32s**] 2 Sec.
- \* [**310s**] 10 Sec.

#### Size

This sets the size of the video clips that will be captured.

- \* [ 🕮 ] 1440 x 1080
- \* [ 📖 ] 1280 x 720
- \* [**VGA**] 640 x 480

#### Quality

This sets the quality (compression) at which the video clips is captured.

- \* [**III**] Fine
- \* [I] Standard
- \* [🖬] Economy

## EV

Your digital video camera adjusts the exposure of each shot automatically. However, if the subject is very dark, or very bright, you may override the digital video camera's automatic exposure determination to make the subject brighter or darker. This is called EV compensation. The EV compensation can be adjusted from -1.8EV to +1.8EV.

#### W.Balance

This sets the white balance for a variety of lighting conditions and permits images to be captured that approach the conditions that are seen by the human eye.

- \* [Blank] Auto
- \* [🔆] Daylight
- \* [�] Cloudy
- \* [m] Fluoresc.1
- \* [2] Fluoresc.2
- \* [♣] Tungsten
- \* [💩] Manual WB

#### Digi. Zoom

This sets whether or not to use digital zoom at the time of photography.

\* On / Off

#### Metering

This sets the metering method for calculating the exposure.

- \* Center: Averages the light metered from the entire frame, but gives greater weight to the subject matter in the centre.
- \* Spot: A very small portion of the centre of the screen is measured, and the exposure is calculated.

#### Color

This sets the colour of the video clips that will be captured.

\* Standard / Vivid / B&W / Sepia

#### Contrast

This sets the degree of difference between light and dark in video clips that will be captured.

\* Standard / Hard / Soft

#### Sharpness

This sets the sharpness of the video clips that will be captured.

\* Standard / Hard / Soft

## Capture Menu

This menu is for the basic settings to be used when capturing still images.

Capture	£	Capture	4	🖸 Capture	
Scene	Auto	W.Balance	Auto	Metering Center	
Self-timer	Off	Digi. Zoom	Off	Color Standard	
Size	5M	ISO	Auto	Contrast Standard	
Quality	Standard	Capture Md.	Single	Sharpness Standard	
EV	0	Image Stab.	Off		
I ← Exit	•:0K	I = Exit	•:0K	I = Exit O:OK	J

- 1. Press the **MODE** button to switch to capture mode.
- 2. Press the **MENU** button.
- 3. Select the desired option item with the ▲ (MODE) / ▼ (MENU) buttons, and press the button to enter its respective menu.
- 4. Select the desired setting with the ▲ (MODE) / ▼ (MENU) buttons, and press the button.
- 5. To exit from the menu, press the  $\blacktriangleleft$  (**;O**) button.

#### Scene

Refer to the section in this manual titled "Scene" in Video Menu for further details.

#### Self-timer

Refer to the section in this manual titled "Self-timer" in Video Menu for further details.

#### Size

This sets the size of the images that will be captured.

- \* [7.7M] 3200 x 2400 (FW interpolation)
- \* [**5M**] 2560 x 1920
- \* [**3m**] 2048 x 1536
- \* [**IM**] 1280 x 960
- \* [**VGA**] 640 x 480

#### Quality

Refer to the section in this manual titled "Quality" in Video Menu for further details.

#### ΕV

Refer to the section in this manual titled "EV" in Video Menu for further details.

#### W.Balance

Refer to the section in this manual titled "W.Balance" in Video Menu for further details.

#### Digi. Zoom

Refer to the section in this manual titled "Digi. Zoom" in Video Menu for further details.

#### ISO

This sets the sensitivity for capturing images. When the sensitivity is raised (and the ISO figure is increased), photography will become possible even in dark locations, but the more pixelated (grainier) the image will appear.

- \* [Blank] Auto
- \* [閏] 64
- \*[間]100
- \*[調]200
- \* [霝] 400

#### Capture Md.

This sets the shooting mode for capturing still images.

- \* [Blank] Single: Captures a single image.
- \* [1] AEB: Auto exposure bracketing capture mode.
- \* [] Continuous: Captures 3 images continuously.

#### Image Stab.

This sets whether or not to use image stabilization at the time of photography. This function minimise the influences of hand shaking when you want to capture an image. \* Off / On

#### Metering

Refer to the section in this manual titled "Metering" in Video Menu for further details.

#### Color

Refer to the section in this manual titled "Color" in Video Menu for further details.

#### Contrast

Refer to the section in this manual titled "Contrast" in Video Menu for further details.

#### Sharpness

Refer to the section in this manual titled "Sharpness" in Video Menu for further details.

## Playback Menu

In this menu, choose which settings are to be used for still image/video clip playback.

▶ Play	4
Delete File	No
Delete All	Next Menu
Slide Show	5 Sec.
Protect	Single
DPOF	Next Menu
I : Exit	•:0K

- 1. Press the **>** button.
- 2. Press the **MENU** button.
- 3. Select the desired option item with the ▲ (MODE) / ▼ (MENU) buttons, and press the button to enter its respective menu.
- Select the desired setting with the ▲ (MODE) / ▼ (MENU) buttons, and press the 
   button.
- 5. To exit from the menu, press the  $\triangleleft$  (**;O**) button.

#### Delete File

Refer to section in this manual titled "Deleting Images/Video Clips/Audio Files" for further details.

#### Delete All

Refer to section in this manual titled "Deleting Images/Video Clips/Audio Files" for further details.

#### Slide Show

Refer to section in this manual titled "Slideshow Display" for further details.

#### Protect

Refer to section in this manual titled "Protecting Images/Video Clips/Audio Files" for further details.

#### DPOF

Refer to section in this manual titled "DPOF Settings" for further details.

## Setup Menu

This menu sets your digital video camera's operating environment.

	Setup	
Language	English	
Веер	On	
Format	Next Menu	
LCD Bright.	0	
Date/Time	Next Menu	
► : Exit	•:0K	



- 1. Press the **MENU** button.
- 2. Select the [Setup] menu with the  $\blacktriangleright$  ( $\clubsuit$ ) button.
- 3. Select the desired option item with the ▲ (MODE) / ▼ (MENU) buttons, and press the 
   button to enter its respective menu.
- Select the desired setting with the ▲ (MODE) / ▼ (MENU) buttons, and press the 
   button.
- 5. To exit from the menu, press the  $\blacktriangleright$  ( $\clubsuit$ ) button.

### Language

Refer to section in this manual titled "Choosing the Language" for further details.

#### Веер

This sets whether or not to mute the digital video camera sound each time you press the digital video camera's buttons.

\* On / Off

## Format

Refer to section in this manual titled "Formatting the Memory Card" for further details.

## LCD Bright.

This sets the brightness of the LCD monitor screen. \* The adjustment range is from -5 to +5.

## Date/Time

Refer to section in this manual titled "Setting the Date and Time" for further details.

## Auto Off

If no operation is performed for a specific period of time, the power to the digital video camera is automatically turned off. This feature is useful to reduce battery usage. \* Off / 1 Min. / 3 Min. / 5 Min. / 10 Min.

#### Video Out

Set TV/video compatibility with the equipment you are going to connect to the digital video camera.

\* NTSC / PAL

#### Light Freq.

The function allows to change the light frequency of environment to 60 Hz or 50 Hz.  $^{\ast}$  50 Hz / 60 Hz

#### Sys. Reset

Return all basic settings to the digital video camera's default settings.

\* No / Yes

#### Version

This display the firmware version of the digital video camera.
# INSTALLING SOFTWARE PROGRAM

- 1. Please make sure you have Windows Media<sup>®</sup> Player 9 or QuickTime 7.0 installed onto your computer first.
- 2. Please install the decoder program (available in the CD).
  - H.264 files may be played back with Windows Media Player 9. (Decoder is designed for H.264 decode)

MP4/H.264 playback system requirements:

- At least 512MB of RAM
- 64MB or higher video card
- Windows 2000 Service Pack 4 or XP or Vista 32 or Vista 64
- DirectX 9.0b or higher
- Audio format 48KHz HE-AAC or AAC

Resolution	fps	CPU requirements	
640 x 480	30 fps	2.4 GHz Intel Pentium 4 or higher	
1280 x 720	30 fps	3.2 GHz Intel Pentium D(dual-core) or higher	
1440 x 1080	30 fps	Core 2 Duo 2.0 & 128MB independent memory for image display	

# TRANSFERRING FILES TO YOUR COMPUTER

#### **System Requirement**

Windows	Macintosh
Pentium III 800 MHz or equivalent	PowerPC G3/G4/G5
■ Windows 2000/XP/Windows Vista <sup>™</sup>	OS 9.0 or later
■ 256MB RAM (512MB recommended)	■ 256MB RAM (512MB recommended)
150MB available hard disk space	128MB hard disk space
CD-ROM drive	CD-ROM drive
<ul> <li>Available USB port</li> </ul>	<ul> <li>Available USB port</li> </ul>

#### Downloading / Deleting Your Files via Computer

- 1. Press the () button until the digital video camera turns on.
- 2. Connect one end of the USB cable to the USB terminal of the digital video camera.
- 3. Connect the other end of the USB cable to an available USB port on your computer.
- Select [PC] with the ▲ (MODE) / ▼ (MENU) buttons, and press the 

   button.
- 5. From the Windows desktop, double click on "My Computer".
- 6. Look for a new "removable disk" icon.



- This "removable disk" is actually the memory (or memory card) in your video camera. Typically, the video camera will be assigned drive letter "E" or higher.
- 7. Double click on the removable disk and locate the DCIM and AUDIO folders.
- 8. Double click on the respective folder to open it to find more folders.
  - Your recorded images, video clips, audio files will be inside these folders.
- 9. Copy and paste or drag and drop files to a folder on your computer.
- 10. To delete files, simply select the unwanted files and delete.

**Mac users:** Double-click the "untitled" or "unlabeled" disk drive icon on your desktop. iPhoto may automatically launch.

#### **Notes on Image Printing**

After transferring data to a computer, it stores and displays the digital images that have been saved in the SD/SDHC memory card from the digital video camera and enables those images to be printed on a variety of digital printers.

## USING THE DIGITAL VIDEO CAMERA AS A PC CAMERA

Your digital video camera can act as a PC camera, which allows you to videoconference with business associates, or have a real-time conversation with friends or family. To use the digital video camera for video-conferencing, your computer must include the items listed below:

- Microphone
- Sound card
- Speakers or headphones
- Network or Internet connection
- 1. Press the () button until the digital video camera turns on.
- 2. After installing the PC camera driver (included on the CD-ROM) in your Windows operating system, restart your computer.
- 3. Connect one end of the USB cable to the USB terminal of the digital video camera.
- 4. Connect the other end of the USB cable to an available USB port on your computer.
- 5. Select [PC Camera] with the ▲ (MODE) / ▼ (MENU) buttons and press the button.



- 6. Position the digital video camera steadily on a flat surface or use a tripod.
- 7. Launch the videoconferencing application software.
  - Simply follow the instructions in the application software to start your digital video camera.



- This function is not supported by Mac and Microsoft Vista 64 system.
- This function does not support NetMeeting because its output is in Motion JPEG format. It onlysupports MSN 8.1 or above version or other software that supports motion JPEG, such as"AMCAP".
- The video resolution for videoconferencing applications is generally 320 x 240.
- For more information about the operation of video conference application software, refer to its respective help documentation.

# SPECIFICATIONS

Item	Description			
Image sensor	1/2.5" CMOS sensor			
Effective pixels	5.0 megapixels			
Image resolution	<pre><still image=""> 7.7M: 3200 x 2400 (FW interpolation), 5M: 2560 x 1920, 3M: 2048 x 1536, 1M: 1280 x 960, VGA: 640 x 480 <video clip=""> 1440 x 1080 (30 fps), 1280 x 720 (30 fps), 640 x 480 (30 fps)</video></still></pre>			
Recording media	Supports SD/SDHC memory card (up to 8GB) (not included)			
File format	Image format: JPEG; Video format: H.264; Audio format: AAC			
Lens	Aperture: F3.3 ~ F3.7 Focal Length: 6.4 ~ 32 mm			
Focus range	Macro Wide: 10cm ~ infinity Tele: 1m ~ infinity Standard Wide: 50cm ~ infinity Tele: 1m ~ infinity			
Shutter speed	1 ~ 1/4000 sec.			
LCD monitor	2.5" full colour LTPS LCD (153K pixels)			
Self-timer	10 sec delay, 2 sec delay			
Exposure compensation	-1.8EV~ +1.8EV (in 0.3EV increments)			
White balance	Auto, Daylight, Cloudy, Fluoresc.1, Fluoresc.2, Tungsten, Manual WB			
ISO	Auto, 64, 100, 200, 400			
Interface	USB terminal, AV/OUT terminal, HDTV terminal, earphone jack			
Power	Rechargeable Lithium-ion battery (3.7V)			
Dimensions	Approx. 40.8 x 121 x 58.5 mm (without protruding parts)			
Weight	Approx. 162g (without battery and memory card)			

\* Design and specifications are subject to change without notice.

## **APPENDIX** Possible Number of Shots

The table shows the approximate shots/recording time that you can capture/record at each setting based on the capacity of the SD/SDHC memory card.

#### Possible recording time / sec (video clip)

		SD/SDHC memory card capacity						
Size	Quality	128MB	256MB	512MB	1GB	2GB	4GB SDHC	8GB SDHC
	III Fine	00:01:57	00:04:04	00:08:17	00:16:46	00:33:12	01:05:46	02:11:38
440 1440 x 1080	Standard	00:02:14	00:04:39	00:09:28	00:19:08	00:37:52	01:15:00	02:30:06
	🖬 Economy	00:02:37	00:05:26	00:11:01	00:22:17	00:44:04	01:27:14	02:54:34
10001	III Fine	00:02:37	00:05:26	00:11:01	00:22:17	00:44:04	01:27:14	02:54:34
280 1280 x 720	Standard	00:03:09	00:06:30	00:13:11	00:26:38	00:52:40	01:44:15	03:28:37
1200 x 120	🖪 Economy	00:03:57	00:08:06	00:16:24	00:33:06	01:05:26	02:09:29	04:19:04
	III Fine	00:05:14	00:10:44	00:21:40	00:43:42	01:26:21	02:50:50	05:41:47
<b>VGA</b> 640 x 480	Standard	00:06:15	00:12:47	00:25:48	00:52:01	01:42:44	03:23:15	06:46:37
	🖬 Economy	00:07:43	00:15:47	00:31:51	01:04:12	02:06:50	04:10:56	08:22:02

#### Possible number of shots (still image)

		SD/SDHC memory card capacity						
Size	Quality	128MB	256MB	512MB	1GB	2GB	4GB SDHC	8GB SDHC
7.7m	🎹 Fine	32	67	138	278	545	1091	2194
3200 x 2400	Standard	42	89	184	369	725	1450	2917
(FW interpolation)	Economy	53	111	229	460	903	1805	3632
=	🎹 Fine	46	95	195	391	767	1532	3081
<b>5m</b> 2560 x 1920	I Standard	61	126	259	519	1019	2036	4094
	Economy	76	157	323	647	1269	2535	5098
<b>3m</b> 2048 x 1536	🏢 Fine	69	142	291	582	1141	2279	4583
	Standard	92	189	388	774	1517	3030	6092
	Economy	115	236	483	965	1880	3774	7588
<b>IM</b> 1280 x 960	🏼 Fine	144	294	599	1195	2340	4670	9387
	Standard	191	391	797	1588	3110	6207	12477
	Economy	238	486	991	1976	3869	7722	15523
<b>VGA</b> 640 x 480	III Fine	390	797	1625	3239	6341	12654	25437
	Standard	520	1061	2162	4309	8436	16836	33844
	Economy	648	1322	2693	5370	10512	20978	42169

## Troubleshooting

Refer to the symptoms and solutions listed below before sending the digital video camera for repairs. If the problem persists, contact your local reseller or service centre.

Symptom	Cause	Solutions / Corrective Actions		
The power does not	The battery is not inserted.	Insert the battery correctly.		
come on.	The battery is exhausted.	Recharge the battery.		
The battery or video camera feels warm.	Long period of continuous use of the video camera.			
Even if press the shutter button, the digital video does	The SD/SDHC memory card does not have any free capacity.	Insert a new SD/SDHC memory card, or delete unwanted files.		
not shoot.	The video camera is not in shooting mode.	Set the video camera to shoot- ing mode.		
	The SD/SDHC memory card is write-protected.	Remove the write-protection.		
The video camera cannot focus.	The lens is dirty.	Wipe clean with a soft, dry cloth or lens paper.		
	The distance to the subject is smaller than the effective range.	Place your subject within the effective focus range.		
Files cannot be	The file is protected.	Cancel protection.		
deleted.	The SD/SDHC memory card is write-protected.	Remove the write-protection.		
Cannot download images.	The free space on the hard disk in your computer may be insufficient.	Check whether the hard disk has a space for running Windows, and if the drive for loading image files has a capacity at least that of the memory card inserted in the video camera.		



The mark is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE). The mark indicates the requirement NOT to dispose the equipment including any spent or discarded batteries as unsorted municipal waste, but use the return and collection systems available.

If the batteries or accumulators included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury, or more than 0.002% Cadmium or more than, 0.004% Lead.

Notes for battery disposal

Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed of with normal household waste. Please inform yourself about the local rules on separate collection of batteries. The correct disposal of batteries helps prevent potentially negative consequences on the environment and human health.

The highest quality requirements are placed on our products. However, should a malfunction occur for which you cannot find any information in the operating instructions or missing accessories, please contact the store where you purchased your product.



Visit Partmaster.co.uk today for the easiest way to buy electrical spares and accessories. With over 1 million spares and accessories available we can deliver direct to your door the very next day. Visit www.partmaster.co.uk or call 0870 6001 338 (UK customers only) Calls charged at National Rate.

**NOTE:** If you require a replacement for any of the items listed below, please quote their corresponding part numbers:

Replacement Parts Software CD-ROM with Multi-Lang. Manual	Part Numbers 9WB39-A001-00
USB Cable	02551-0044-01
AV Cable	02552-0038-00
YPbPr (HD out) cable	02552-0177-00
Earphone	02414-0009-01
Camera Strap	9TU38-R000-00
Camera Pouch	9XM39-3001-00
Rechargeable lithium-ion battery	02491-0060-00
Battery Charger	02495-0015-02
Power Adaptor (For UK models)	02550-0020-07
Power Adaptor (For EU models)	02550-0023-09
Quick Start Guide	9WB39-4002-00

# GETTING TO KNOW YOUR DIGITAL VIDEO CAMERA

#### Front View



- 1. Lens
- 2. LED assist light
- 3. Speaker
- 4. Battery cover
- 5. Strap holder
- 6. Tripod mount

#### **Rear View**



- S. Focus button
- 6. ▼ Down button
- MENU Menu button
- 7. OK / Record / Shutter button
- 8. **T Q** Zoom in (telephoto) button
- 13. HDTV terminal
- 14. SD/SDHC memory card slot
- 15. Earphone jack
- 16. LCD monitor

## **GETTING STARTED** Preparation

- 1. Attach the camera strap.
- 2. Open the battery cover.

- 3. Insert the supplied battery with correct orientation as shown. (Label side back)
  - Close the battery cover and make sure it is locked securely.
- 4. Insert an SD/SDHC memory card.
  - The digital video camera does not have built-in memory and cannot operate without an SD/SDHC memory card inserted. Make sure to insert an SD/ SDHC memory card before use.
  - Open the SD card slot cover gently.
  - Insert an SD/SDHC memory card (optional) to the card slot.
  - Close the cover and make sure it is locked securely.
  - Be sure to format the SD/SDHC memory card with this video camera before its initial usage.

### Turning the Power On/Off

Load the battery and insert an SD/SDHC memory card before starting.

- Press the () button until the digital video camera turns on.
- To turn the power off, press the () button again.









# CAPTURE MODE

Your digital video camera is equipped with a 2.5" full colour LTPS LCD monitor to help you capture/playback images and video clips or adjust menu settings.

## **Recording Video Clips**

- 1. Press the () button until the digital video camera turns on.
  - The default mode is Video Mode.
- 2. Compose the image on the LCD monitor.
- 3. Press the 
  button to start recording.
- 4. To stop recording, press the 

  button.
  - The recording time depends on the storage media size and the subject to be recorded.



#### **Capturing Still Images**

- 1. Press the () button until the digital video camera turns on.
- 2. Press the **MODE** button to switch to capture mode.
- 3. Compose the image on the LCD monitor.
- 4. Press the button to capture the image.



## PLAYBACK MODE

You can play back all the recorded files on the LCD monitor.

## Playing Back Video Clips

- 1. Press the  $\blacktriangleright$  button.
  - The last recorded file appears on the LCD monitor.
- 2. Select the desired video clip with the ◄ (:○) /
  ► (:) buttons.
- 3. Press the 

  button to start video playback.
  - To pause video playback, press the 
     button.
  - To cancel pause, press the button again.
  - To adjust the volume, use the 🔁 W / T Q buttons.
- 4. To stop video playback, press the ▼ (MENU) button and return to the start of the video clip.

### Playing Back Still Images

- 1. Press the  $\blacktriangleright$  button.
  - The last recorded file appears on the LCD monitor.
- Select the desired image with the ◄ (
   (♥) buttons.
- 3. Press the T Q button to adjust the zoom ratio.
  - The magnification factor is displayed on the LCD monitor.
- 4. To view different portion of the images, press the ▲ (MODE) / ▼ (MENU) / ◄ (◯◯) / ► (◯) buttons to adjust the display area.





#### Deleting Images/Video Clips

- 1. Press the  $\blacktriangleright$  button.
- Select the file you wish to delete with the
   () / ► () buttons.
- 3. Press the **MENU** button.
- 4. Select [Delete File] or [Delete All] with the
   ▲ (MODE) / ▼ (MENU) buttons and press the 
   button.
  - [Delete File]: Deletes the current file.
  - [Delete All]: Deletes all files.
- 5. Select [Yes] to delete. Select [No] to cancel.
- 6. Press the 
  button to confirm.

▶ Play	4
Delete File	• No
Delete All	Yes
Slide Show	5 Sec.
Protect	Single
DPOF	Next Menu
	•:0K

# **AUDIO MODE**

## **Recording Audio Files**

The digital video camera enables you to record and playback audio files anytime and anywhere.

- 1. Press the **MODE** button to switch to audio mode.
- 2. Press the 

  button to start audio recording.
  - To stop recording, press the button.



#### **Playing Back Audio Files**

- 1. Press the **b**utton.
- Select the desired audio clip with the ◄ (
   (♥) buttons.
- 3. Press the button to begin playback.
  - To pause, press the button again.
  - To stop playback, press the ▼ (MENU) button.
  - To adjust the volume, use the 🗗 W / T Q buttons.

	00:02:	05 🗊 💷
		<b>→</b>
• Play	▼ Stop	100-0001

# INSTALLING SOFTWARE PROGRAM

- 1. Please make sure you have Windows Media<sup>®</sup> Player 9 or QuickTime 7.0 installed onto your computer first.
- 2. Please install the decoder program (available in the CD).
  - H.264 files may be played back with Windows Media Player 9. (Decoder is designed for H.264 decode)

MP4/H.264 playback system requirements:

- At least 512MB of RAM
- 64MB or higher video card
- Windows 2000 Service Pack 4 or XP or Vista 32 or Vista 64
- DirectX 9.0b or higher
- Audio format 48KHz HE-AAC or AAC

Resolution	fps	CPU requirements	
640 x 480	30 fps	2.4 GHz Intel Pentium 4 or higher	
1280 x 720	30 fps	3.2 GHz Intel Pentium D(dual-core) or higher	
1440 x 1080	30 fps	Core 2 Duo 2.0 & 128MB independent memory for image display	

**NOTE:** For detail operating instructions of this product, please refer to the Multi-Language User Manuals in the Software CD-ROM.

