

Instruction Manual

HITACHI
Inspire the Next

Model name
DZ-SV560E

5.0 Mega Pixels
4x Digital Zoom
32MB internal memory
2.36" LTPS LCD

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

READ THIS FIRST

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- Pentium® is a registered trademark of Intel Corporation.
- Macintosh is a trademark of Apple Computer, Inc.
- SD™ is a trademark.
- Other names and products may be trademarks or registered trademarks of their respective owners.

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 Digital video 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 adapters, memory cards, cables, pouches, and language support. Occasionally a retailer will specify a unique product color, 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 Digital video camera.
- The manufacturer assumes no liability for any errors or discrepancies in this user manual.

SAFETY INSTRUCTIONS

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

Warnings

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

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



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

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



Do not disassemble, change or repair the Digital video camera.

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



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

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



Do not use the Digital video 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 Digital video camera on inclined or unstable surfaces.

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



Keep the batteries out of the reach of children.

Swallowing the batteries might cause poisoning. If the batteries are accidentally swallowed, immediately consult a physician.



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

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



Please use batteries with complete external seals.

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



Cautions

Load the batteries paying careful attention to the polarity (+ or -) of the terminals.

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



Do not fire the flash close to anyone's eyes.

This might cause damage to the person's eyesight.



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

This might cause damage to the Digital video camera.



Do not use the Digital video camera in humid, steamy, smoky, or dusty places.

This might cause fire or electric shock.



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

The batteries become hot during use. Touching a hot battery might cause burns.



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

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



Do not leave the Digital video 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 Digital video 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 batteries, carefully read and strictly observe the **Safety Instructions** and the notes described below:

- Use only the specified batteries.
- Avoid extremely cold environments as low temperatures can shorten the battery life and reduce Digital video camera performance. Therefore Ni-MH rechargeable batteries are highly recommended.
- When you are using a new rechargeable batteries or rechargeable batteries that have not been used for an extended period of time (the batteries that passed the expiry date are exception), it may affect the number of images that can be captured. Therefore, to maximize their performance and lifetime, we recommend that you fully charge the batteries and discharge them for at least one complete cycle before use.
- The batteries may feel warm after a long period of continuous use of the Digital video camera or the flash. This is normal and not a malfunction.
- The Digital video camera may feel warm after a long period of continuous use. This is normal and not a malfunction.
- If the batteries are not to be used for a long period of time, remove them from the Digital video camera to prevent leakage or corrosion and store them after no battery power is left. Stored for a long time in a fully charged condition, their performance may be impaired.
- Always keep the battery terminals clean.
- There is a risk of explosion if the batteries are replaced by an incorrect type.
- Dispose of used batteries according to the recycle instructions.
- Charge the rechargeable batteries fully before using for the first time.
- Never use batteries of different types (together) or mix old and new batteries.
- Never use manganese batteries.
- To prevent short-circuiting or fire, keep the batteries away from other metal objects when carrying or storing.

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INTRODUCTION

Overview

Congratulations on your purchase of the new digital video camera.

This digital video camera is designed as an “entry-level” handy cam.

Equipped with a 5.0-megapixel sensor, this video camera is capable of capturing images and video clips.

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
- USB cable
- A/V cable
- Earphone
- Camera strap
- Camera pouch
- 2 x AA size batteries

Common (Optional) Accessories:

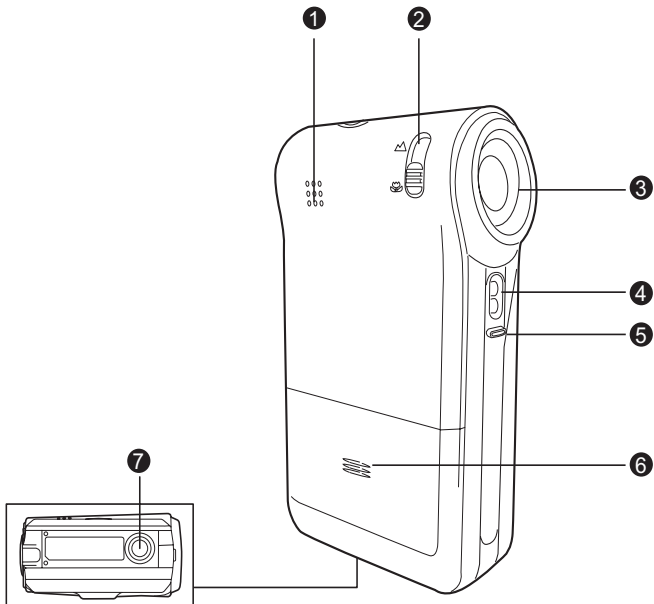
- SD/SDHC memory card
- Tripod



-
- Accessories and components may vary by retailer.

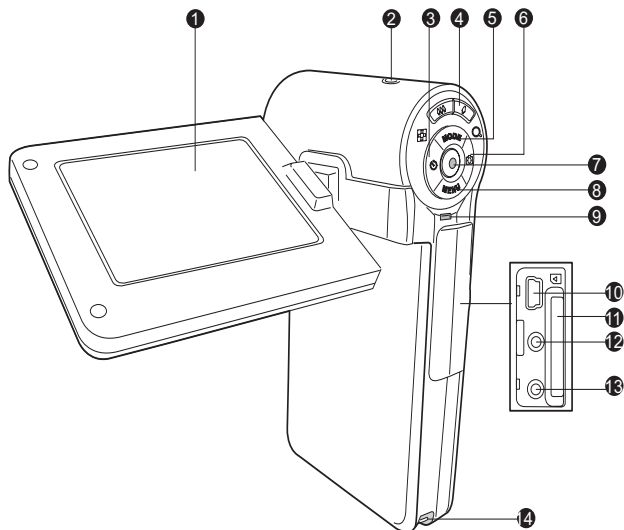
GETTING TO KNOW YOUR DIGITAL VIDEO CAMERA

Front View



- 1. Speaker
- 2. Focus switch
 - ▲ Normal mode
 - ✿ Macro mode
- 3. Lens
- 4. LED lights
- 5. Microphone
- 6. Battery cover
- 7. Tripod socket

Rear View



- 1. LCD monitor

- 2. Power button

- 3. Left button
 Self-timer button

- 4. / Zoom out (wide-angle) button / Thumbnail button
 / Zoom in (telephoto) button

- 5. Up button
MODE Mode button

- 6. Right button
 Camera mode quick key

- 7. OK/Shutter button

- 8. Down button
MENU Menu button

- 9. Status LED indicator

- 10. USB port

- 11. SD/SDHC memory card slot

- 12. A/V OUT terminal


















- 13. Earphones connector

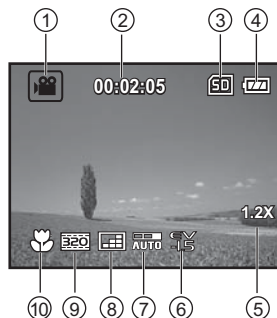
- 14. Strap holder

LCD Monitor Display

Standby Mode

Video Mode


1. Video mode icon
2. Available recording time
00:02:05
3. Storage media
[] Internal memory (no card)
[] SD/SDHC memory card
4. Battery condition
[] Full battery power
[] Medium battery power
[] Low battery power
[] No battery power
5. Zoom status
(available only when movie size is set to 320 x 240)
1.2X
6. Exposure compensation
7. White Balance
[] Auto
[] Daylight
[] Cloudy
[] Fluoresc.
[] Tungsten
8. Image quality
[] Fine
[] Standard
[] Economy
9. Video size
[] 640 x 480
[] 320 x 240
10. Focus setting
[**Blank**] Normal
[] Macro




Camera Mode

1. Camera mode icon
2. Available number of shots
3. Storage media
4. Battery condition
5. Zoom status
6. Capture mode icon


[Blank] Single

[] Burst

[] AEB

7. ISO

[] Auto

[] 100

[] 200

8. Exposure compensation

9. White Balance

10. Image quality

11. Image size

[11m]3840 x 2880 (FW interpolation)

[8m]3264 x 2448 (FW interpolation)

[5m]2560 x 1920


[3m]2048 x 1536


[1m]1280 x 960

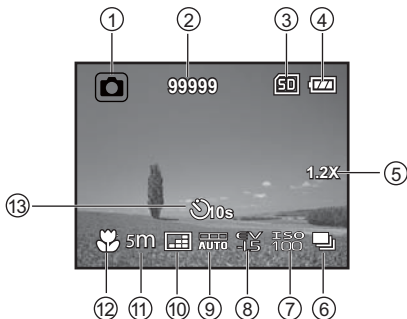
[0.3m]640 x 480

12. Focus setting

13. Self-timer

[] 10 sec.

[] 2 sec.



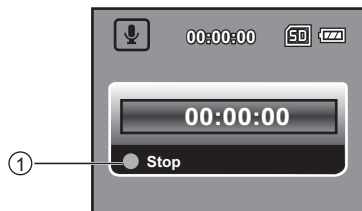
Audio Recording Mode (Standby)

1. Audio mode icon
2. Available recording time
3. Storage media
4. Battery condition
5. Elapsed time
6. Recording indicator



(Recording)

Recording indicator



Playback Mode

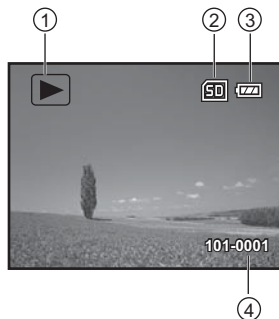
Video Mode

1. Playback mode icon
2. Elapsed time
3. Storage media
4. Battery condition
5. Volume indicator
6. Folder and file number
7. Playback indicator



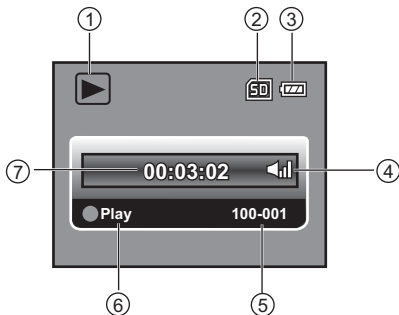
Camera Mode

1. Playback mode icon
2. Storage media
3. Battery condition
4. Folder and file number



Audio Playback Mode

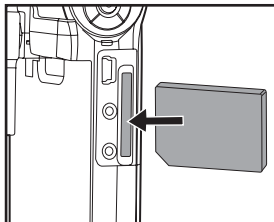
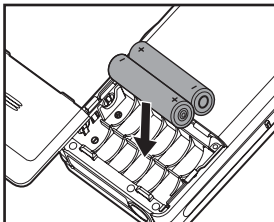
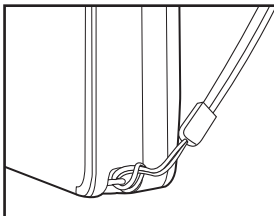
1. Playback mode icon
2. Storage media
3. Battery condition
4. Volume indicator
5. Folder and file number
6. Playback indicator
7. Elapsed time



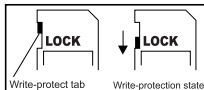
GETTING STARTED

Preparation

1. Attach the camera strap.
2. Open the battery cover.
3. Insert the supplied batteries with correct orientation as shown.
4. Insert an SD/SDHC memory card (Optional).
 - The video camera has 32MB internal memory, but you can load an SD/SDHC memory card to expand its memory capacity.
 - Be sure to format the SD/SDHC memory card with this video camera before its initial usage.
 - Close the battery cover and make sure it is locked securely.





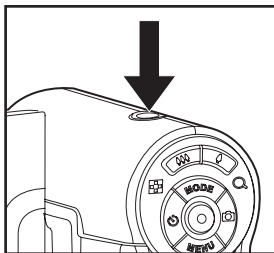
- To prevent valuable data from being accidentally deleted from an SD/SDHC memory card, you can slide the write protect tab (on the side of the SD/SDHC memory card) to "LOCK".
- To save, edit, or delete data on an SD/SDHC memory card, you must unlock the card.
- To prevent damaging of SD/SDHC memory 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 batteries when opening or closing the battery cover.



Turning the Power On/Off

Load the batteries 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.



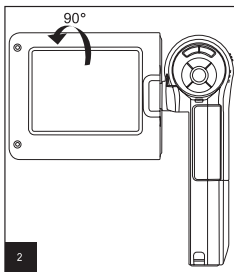
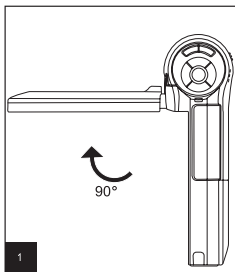
- The power is turned off automatically when the digital video camera has not been operated for a defined period of time. To resume operation, turn the power on again. Refer to section in this manual titled "Power Off" in the Setup Menu for further details.

LED Indicators

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

Handling the Digital Video Camera

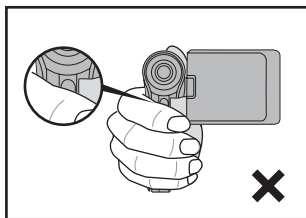
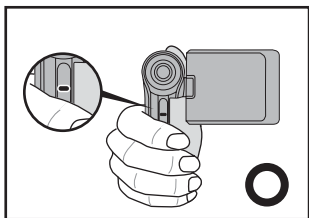
1. Open the panel by pulling it away from the digital video camera.
2. Choose the angle of the monitor that suits you best by rotating the panel.



- 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.

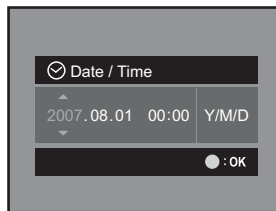


Setting the Date and Time

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 batteries for an extended period of time.

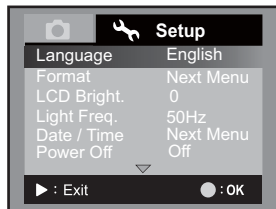
1. Press the  button until the digital video camera turns on.
2. Press the **MENU** button.
3. Select [Setup] with the  button.
4. Select [Date/Time] with the  /  buttons, and press the  button.
 - Select the item's field with the  /  buttons and adjust the value for the date and time with the  /  buttons.
 - The time is displayed in 24-hour format.
 - After confirming all settings are correct, press the  button.
5. To exit from the [Setup] menu, press the  button.



Choosing the Language

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

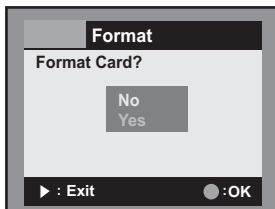
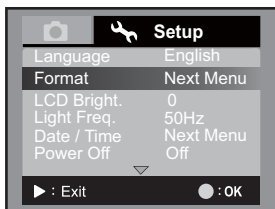
1. Press the **MENU** button.
2. Select [Setup] menu with the  button.
3. Select [Language] with the  /  buttons, and press the  button.
 - The Language setting screen will be displayed.
4. Select the displayed language with the  /  buttons, and press the  button.
 - The setting will be stored.



Formatting the Memory Card or Internal Memory

This utility formats the internal memory (or SD/SDHC memory card) and deletes all stored images, video clips, and data.




1. Press the **MENU** button.
2. Select [Setup] menu with the **▶** button.
3. Select [Format] with the **▲ / ▼** buttons, and press the **○** button.
4. Select [Yes] with the **▲ / ▼** buttons, and press the **○** button.
 - To cancel formatting, select [No] and press the **○** button.



CAPTURE MODE




Your digital video camera is equipped with a 2.36" TFT-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. Press the  button again to stop recording.
 - 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 or  button (camera mode quick key) to enter Capture Mode.
3. Compose the image on the LCD monitor.
4. Press the  button to capture the image.






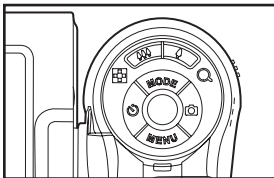
- If the access speed of your SD/SDHC memory card is not fast enough for recording video clips in the currently selected size, the recording will stop. In this case, select a video quality lower than the current one.

Using the Zoom Function

This digital video camera is equipped with 4x digital zoom. You may enlarge the subjects by pressing the  button. While 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  button to zoom in on the subject, and enlarge the subject on the LCD monitor.
 - Press the  button to view a wider angle of the image.
 - The status of digital magnification is displayed on the zoom status.
2. Press the  button to capture the image/video clip.

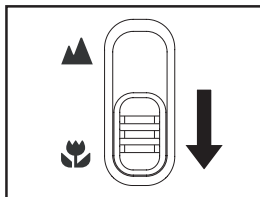




- The digital magnification ranges from 1.0x to 4.0x.
- The zoom function can be activated in video mode (of 320x240). But it should be adjusted before recording.

Setting the Focus

Images/Video clips may be captured by sliding the focus switch to set the focus modes: [] macro or [] normal mode.



1. Slide the focus switch to your desired focus mode.
2. Compose the image on the LCD monitor
3. Press the  button to capture the image/video clip.

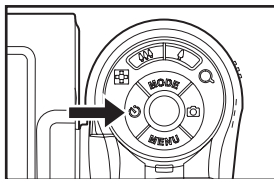




Focus mode	Description
 Normal	This mode is suitable for scenery and portrait shooting.
 Macro	Select macro to capture close-up images. When the lens is zoomed to its widest position you may focus objects as close as 60 cm.

Setting the Self-Timer

The self-timer may be used in situations such as group shots. When using this option, you should either mount the digital video camera on a tripod (recommended) or place it on a flat, level surface.

1. Press the  button to select the self-timer setting.
2. Compose the image on the LCD monitor and press the  button.
 - The self-timer function is activated and begins to count down.
3. The image/video clip is captured after the preset time has elapsed.










Self-timer mode	Description
 2s	The image is captured about 2 seconds after the shutter is pressed. This mode is useful for preventing camera shake.
 10s	The image is captured about 10 seconds after the shutter is pressed. This mode is suitable for the shots in which the photographer has to be included.



- After one image/video clip is taken, the self-timer mode is turned off. If you wish to take another shot using the self-timer, repeat the above steps.

PLAYBACK MODE












Playing Back Video Clips

1. Press the **MODE** button until  is displayed.
 - The last recorded image/video clip 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.
4. To stop video playback, press the  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 either Windows Media Player or Apple "Quick Time Player".
 - Quick Time basic player is available free of charge, compatible with Mac and Windows-computers and can be downloaded from the Apple web site at www.apple.com. For helps on using Quick Time Player, please refer to the Quick Time on-line help for more information.
 - The camera can not be connected to the TV when playing back video clips.

Playing Back Still Images









1. Press the **MODE** button until  is displayed.
 - The last recorded image/video clip appears on the LCD monitor.
2. Select the desired image with the  /  buttons.
3. The images can be displayed in reverse or forward sequence with the  /  buttons.
4. Press the  /  button to adjust the zoom ratio. The magnification factor is displayed on the LCD monitor.
5. To view different portion of the images, press the  /  /  /  button to adjust the display area.

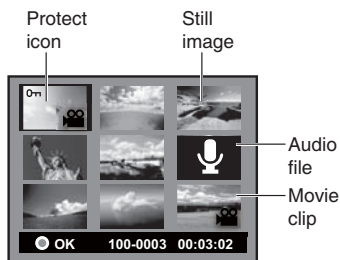


-
- The magnification factors range from 1.0x to 4.0x.

Thumbnail Display









This function allows you to view 9 thumbnail images on the LCD monitor simultaneously so you may search for a particular image/video clip.

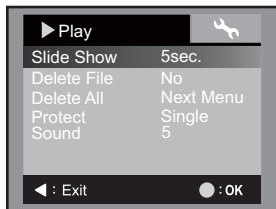
1. Press the **MODE** button until  is displayed.
2. Press the  /  button.
 - 9 thumbnail images are displayed simultaneously.
3. Use the  /  /  /  buttons to move the cursor to select the image to be displayed at regular size.
4. Press the  button to display the selected image on full screen.



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. Press the **MODE** button until  is displayed.
2. Press the **MENU** button.
3. Select [Slide Show] with the  /  buttons and press the  button.
4. Select the desired interval time with the  /  buttons, and press the  button.
 - The slide show starts.
 - To pause, press the  button.
5. To stop the slideshow during playback, press the **MENU** button.

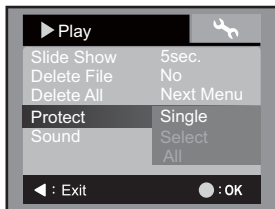


- Video clips are displayed as images and will not be played back.

Protecting Images








Set the data to read-only to prevent images/video clips from being deleted by mistake.

1. Press the **MODE** button until  is displayed.
2. Select the image/video clip you wish to protect with the ◀ / ▶ buttons.
3. Press the **MENU** button.
4. Select [Protect] with the ▲ / ▼ buttons and press the  button.
5. Select [Single], [Select], or [All] with the ▲ / ▼ buttons, and press the  button.
 - [Single]: Protects the current image/video clip.
 - [Select]: Select the images/video clips you wish to protect in thumbnail mode. Press the  button to mark the selected images/video clips.
 - [All]: Protects all images/video clips.
6. Press the  button.
 - Protection is applied to the selected images and the video camera returns to the previous menu mode.
 - The protect icon  is displayed with protected images.
7. To cancel protection, repeat steps 2 to 6 from above.
 - The removal of image protection is executed and the video camera returns to the previous menu mode.



- Formatting an SD/SDHC memory card or internal memory overrides protection, and deletes all images regardless of their protected status.

Deleting Still Images/Video Clips




1. Press the **MODE** button until  is displayed.
2. Select the image/video clip you wish to delete with the  /  buttons.
3. Press the **MENU** button.
4. Select [Delete File] or [Delete All] with the  /  buttons and press the  button.
 - [Delete File]: Deletes the current image/video clip.
 - [Delete All]: Deletes all images/video clips.
5. Select [Yes] to delete. Select [No] to cancel.
6. Press the  button to confirm.

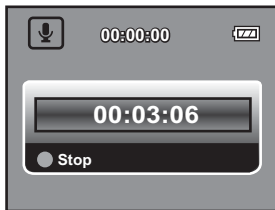


AUDIO MODE





Recording Audio Files

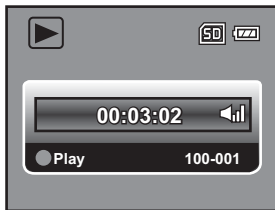
The digital video camera enables you to record and playback audio files anytime and anywhere.

1. Press the **MODE** button to enter Audio Mode.
2. Press the  button to start audio recording.
 - To pause recording, press the  button again.
 - To stop recording, press the  button.







Playing Back Audio Files

1. Press the **MODE** button until  is displayed.
2. Press the  button to begin playback.
 - To pause, press the  button again.
 - To stop playback, press the  button.



Deleting Audio Files

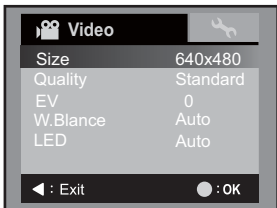
1. Press the **MODE** button until  is displayed.
2. Press the **MENU** button to enter the audio playback menu.
3. Select [Delete File] or [Delete All] with the  /  buttons and press the  button.
 - [Delete File]: Delete the current audio file.
 - [Delete All]: Delete all audio files.



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 ▲ / ▼ buttons, and press the ● button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the ● button.
5. To exit from the menu, press the ◀ button.

Size

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


* [] 640 x 480


* [] 320 x 240

Quality

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

* [] Fine

* [] 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.

- * [] Auto
- * [] Daylight
- * [] Cloudy
- * [] Fluoresc.
- * [] Tungsten

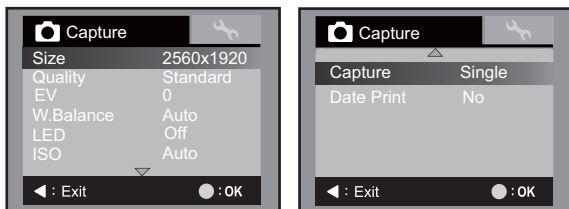
LED

This sets whether the video camera's LED lights are activated during usage.

- * [Auto]: The LED lights will automatically turn on when recording video clips and turns off when the recording ends.
- * [On]: The LED lights are turned on all the time during usage.
- * [Off]: The LED lights are turned off all the time during usage.

Capture Menu

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



1. Press the **MODE** button or button (camera mode quick key) to enter Capture Mode.
2. Press the **MENU** button.
3. Select the desired option item with the \blacktriangle / \blacktriangledown buttons, and press the \odot button to enter its respective menu.
4. Select the desired setting with the \blacktriangle / \blacktriangledown buttons, and press the \odot button.
5. To exit from the menu, press the \blacktriangleleft button.

Size

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

* **[11m]**3840 x 2880 (FW interpolation)

* **[8m]**3264 x 2448 (FW interpolation)

* **[5m]**2560 x 1920

* **[3m]**2048 x 1536

* **[1 m]**1280 x 960

* **[0.3m]**640 x 480

Quality

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

EV

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.

LED

Refer to the section in this manual titled "LED" 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.


* Auto / 100 / 200

Capture

This sets the shooting mode for capturing still images.

* [Blank] Single: Captures a single image.

* [] Burst: Captures 3 images continuously.

* [] AEB: Auto exposure bracketing capture mode.

Date Print

The date of recording can be printed directly on the still images. This function must be activated before the image is captured. The date appears on the right bottom of the captured image. When images are captured with date print feature, the date cannot be removed later.

* Yes / No

Playback Menu

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



1. Press the **MODE** button until is displayed.
2. Press the **MENU** button.
3. Select the desired option item with the ▲ / ▼ buttons, and press the button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the button.
5. To exit from the menu, press the ◀ button.

Slide Show

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

Delete File

Refer to section in this manual titled “Deleting Still Images/Video Clips” for further details.

Delete All

Refer to section in this manual titled “Deleting Still Images/Video Clips” for further details.

Protect

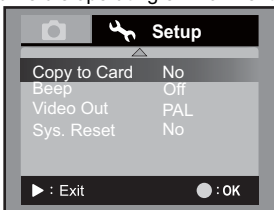
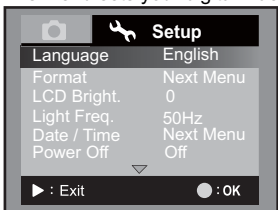
Refer to section in this manual titled “Protecting Images” for further details.

Sound

This sets the sound volume. The adjustment range is from level 0 (soundless) to 5 (loudest).

Setup Menu

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



1. Press the **MENU** button.
2. Select the [Setup] menu with the ► button.
3. Select the desired option item with the ▲ / ▼ buttons, and press the ○ button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the ○ button.
5. To exit from the menu, press the ► button.

Language

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

Format

Refer to section in this manual titled “Formatting the Memory Card or Internal Memory” for further details.

LCD Bright.

This sets the brightness of the LCD monitor screen.

* The adjustment range is from -5 to +5.

Light Freq.

The function allows to change the light frequency of environment to 60Hz or 50Hz.

* [60Hz]: the light frequency of environment is 60Hz

* [50Hz]: the light frequency of environment is 50Hz

Date/Time

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

Power 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 / 1Min. / 3Min. / 5Min. / 10Min.

Copy to Card

Allows you to copy your files from the digital video camera's internal memory to an SD/SDHC memory card. This function is available only when an SD/SDHC memory card containing at least one file is inserted into the video camera.

* Yes / No

Beep

This sets whether or not to mute the startup sound, and the video camera sound each time you press a button.

* On / Off

Video Out

Sets video compatibility with the equipment you are going to connect to the digital video camera.

* [NTSC]:NTSC system

* [PAL]:PAL system

Sys. Reset

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

* Yes / No

EDITING SOFTWARE INSTALLATION

MediaOne Gallery SE - makes it the easiest way to manage and share your digital life with family & friends. The intuitive thumbnail library automatically organizes, updates and sorts files for the most natural way to browse your multimedia collection.

To install software:

1. Insert the CD-ROM that came with the digital video camera into your CD-ROM drive.
 - The welcome screen appears.
2. Click the respective software name.
 - Follow the on-screen instructions to complete the installation.







- For more information about the operation of the software, refer to its respective help documentation.
- For Windows 2000/XP/Vista users, please make sure to install and use the software in "Administrator" mode.
- The software is not supported on the Mac.

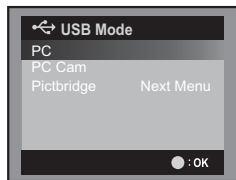
TRANSFERRING FILES TO YOUR COMPUTER

System Requirement

Windows	Macintosh
<ul style="list-style-type: none">■ Pentium 166 MHz or higher■ Windows 2000/XP/Vista■ 128MB RAM■ 128MB hard disk space■ CD-ROM drive■ Available USB port	<ul style="list-style-type: none">■ PowerPC G3/G4/G5■ OS 9.0 or later■ 128MB RAM■ 128MB hard disk space■ CD-ROM drive■ Available USB port

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.
4. Select [PC] with the  /  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 folder.
8. Double click on the DCIM folder to open it to find more folders.
 - Your recorded images, video clips and 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.







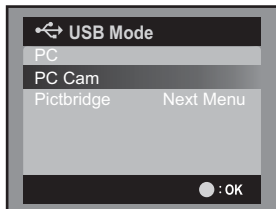
- Formatting the internal memory or SD/SDHC memory card by computer (via USB connection) as NTFS file system, the stored data will be automatically deleted by the video camera.
- Do not format the internal memory or SD/SDHC memory card as NTFS file system.

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 videoconferencing, 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 Cam] with the  /  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.
- You are recommended to use MediaOne Gallery SE (included on the CD-ROM) or Windows Netmeeting (Windows Meeting Space on Windows Vista) as a videoconferencing application software.
- The video resolution for videoconferencing applications is generally 320 x 240.
- For more information about the operation of videoconference application software, refer to its respective help documentation.

SPECIFICATIONS

Item	Description
Image sensor	1/2.5" CMOS sensor
Effective pixels	5.0 Mega pixels
Image resolution	<Still image> 11M: 3840x 2880 (FW interpolation), 8M: 3264 x 2448 (FW interpolation), 5M: 2560 x 1920, 3M: 2048 x 1536, 1M: 1280 x 960, 0.3M: 640 x 480 <Video clip> 640 x 480 (20 fps), QVGA: 320 x 240 (30 fps)
Recording media	32MB internal memory Supports SD/SDHC memory card (up to 4GB) (optional)
File format	Image format: JPEG; video format: Motion JPEG, AVI
Lens	Aperture: 3.1 Focus Length: 7.5mm
Focus range	Macro: 60 ~ 100 cm Normal: 100cm ~ infinity
Shutter speed	1/4(S)~1/1000(S)
LCD monitor	2.36" TFT LCD (115K pixels)
Self-timer	10 sec delay, 2 sec delay
Exposure compensation	-1.8EV~ +1.8EV (in 0.3EV increments)
White balance	Auto, Daylight, Cloudy, Fluorescent, Tungsten
ISO	Auto, 100, 200
Interface	USB connector, A/V OUT terminal, earphone jack
Power	2 x AA size batteries
Dimensions	Approx. 106.5 x 59 x 30 mm (without protruding parts)
Weight	Approx. 130g (without batteries and memory card)

* Design and specifications are subject to change without notice.

APPENDIX

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 center.

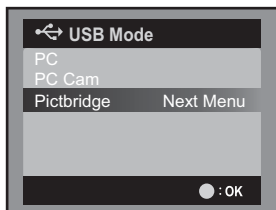
Symptom	Cause	Solutions / Corrective Actions
The power does not come on.	The batteries are not loaded or loaded incorrectly.	Load the batteries correctly.
	The batteries are exhausted.	Replace with a new set of batteries.
The batteries or video camera feels warm.	Long period of continuous use of the video camera.	
Even if I press the shutter button, the digital video does not shoot.	The internal memory or SD/SDHC memory card does not have any free capacity.	Insert a new SD/SDHC memory card, or delete unwanted files.
	The video camera is not in shooting mode.	Set the video camera to shooting 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 deleted.	The file is protected.	Cancel protection.
	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.

Connecting to a PictBridge Compliant Printer

Read this section if the model you purchased is included with the PictBridge functions. If a printer that supports PictBridge is available, still images can be printed by connecting the digital video camera directly to the PictBridge-compatible printer without using a computer.




Connecting the video camera to the printer

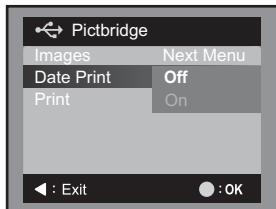
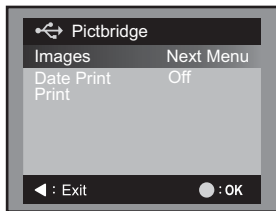
1. Press the  button until the digital video camera turns on.
2. Connect one end of the USB cable to your digital video camera.
3. Connect the other end of the USB cable to the USB port on the printer.
4. Select [Pictbridge] with the  /  buttons, and press the  button.




Printing images

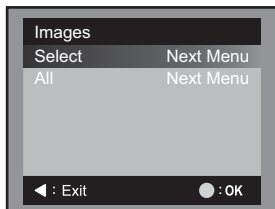
When the digital video camera is properly connected to a PictBridge compliant printer and set to [Pictbridge], the PictBridge menu is displayed on the monitor.

1. Select the item you wish to configure with the  /  buttons, and press the  button.
 - [Images]: Sets whether you wish to print a specific image or all images. You may also select the printing number for a specific image.
 - [Date Print]: Sets whether you wish to print images with date imprint.
 - [Print]: After all settings are set, select [Print] to start printing.




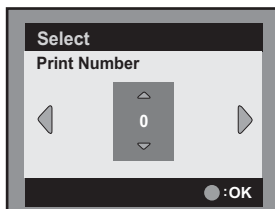
2. If you select [Images] in the previous step, the figure shown on the right hand side will appear. Select [Select] or [All] with the ▲ / ▼ buttons, and press the  button.


- [Select]: Select to print one specific image.
- [All]: Select to print all images.

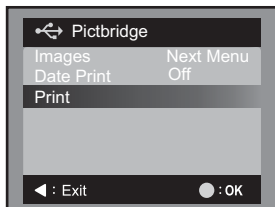


3. If you select [Select] in the previous step, the figure shown on the right hand side will appear.

- Select the image that you wish to print with the ◀ / ▶ buttons.
- Select the [Print Number] (up to 99) with the ▲ / ▼ buttons.
- After selecting the desired image and printing number, press the  button to confirm.

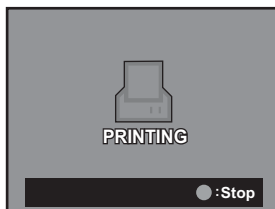


4. Select [Print] with the ▲ / ▼ buttons, and press the  button to start printing.



5. The printing starts and the figure shown on the right hand side appears.

- [COMPLETE] will be displayed temporarily, reminding you that the printing procedure is finished.
- If a printing error is detected, [PRINT ERROR] will be displayed.



- The image printing may fail if the power to the video camera is cut off.
- Video clips cannot be printed.



Language	WEEE explanation
English	"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"
French	"Le marquage est en conformité avec la directive 2002/96/EC du DEEE (d'Échets d'équipements électriques et électroniques)". "Ce symbole indique l'obligation de ne pas déposer ce produit dans des déchets publics, mais d'utiliser les systèmes spécifiques de retour et récupération disponibles".
German	"Das Symbol ist in Übereinstimmung mit der Richtlinie 2002/96/EG über Elektro- und Elektronik- Altgeräte (Elektro- und Elektronik - Altgeräte Richtlinie)." "Das Symbol weist darauf hin, dass das Gerät einschließlich ge- und verbrauchten Batterien bzw Akkus nicht in den Hausmüll gegeben werden darf, sondern den hierfür bestimmten getrennten Sammelsystemen zugeführt werden muss."
Spanish	"La marca es un requisito de la Directiva europea 2002/96/EC (WEEE) acerca de los Residuos de Aparatos Eléctricos y Electrónicos. " "Esta marca indica la obligación de no mezclar dichos aparatos con los residuos domésticos generales, sino que deben utilizarse los sistemas de recogida específicos, disponibles para estos productos."
Italian	" Il simbolo è in accordo con la Direttiva 2002/96 EC sui Rifiuti Apparecchiature Elettriche ed Elettroniche (RAEE) ". "Il simbolo indica l'obbligo della raccolta separata delle apparecchiature elettriche ed elettroniche, pertanto si raccomanda d'utilizzare i sistemi di raccolta e/o restituzione disponibili nella vostra zona per queste tipologie d'apparecchiature".
Swedish	"Märket anger överensstämmelse med "Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE)." "Märket anger kravet på att använda tillgängliga retur- och insamlingssystem och att EJ avyttra utrustningen som osorterat kommunalt avfall."
Norwegian	"Symbolet er i samsvar med "Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE)". "Symbolet angir kravet på å anvende tilgjengelige retur og gjenvinningsystem, og ikke benytte vanlige usorterte kommunale avfallsordninger."
Dutch	Het symbol is in overeenstemming met de EU-Richtlijn betreffende afgedankte elektrische en elektronische apparatuur (AEEA) 2002/96/EC. Het symbool geeft aan dat de apparatuur NIET mag worden gestort als ongesorteerd stedelijk huisvuil, maar moet worden ingezameld via de voorziene terugname- en inzamelingsystemen.
Greek	"Το σύμβολο είναι σύμφωνο με την Οδηγία της Ευρωπαϊκής Ένωσης 2002/96/EC περί Απόρριψης Ηλεκτρικών και Ηλεκτρονικών Συσκευών (WEEE)". " Το σύμβολο αυτό υποδεικνύει την υποχρέωση να ΜΗΝ απορρίπτετε την συσκευή στους κάδους των οικιακών απορριμμάτων, αλλά να χρησιμοποιείτε το σύστημα επιστροφής και περισυλλογής (ανακύκλωσης) απορριμμάτων".

DZ-SV560E Warranty

HITACHI

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This product is exclusively available through Argos and in the unlikely event of a problem please return the faulty item together with proof of purchase to Argos for repair /replacement.

For further information including obtaining spare parts please contact the Hitachi Digital Camera helpline on:
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