

# HITACHI

## Inspire the Next

Instruction Manual

Model name

DZHV584E / DZHV584EW



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# Preface

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Congratulations on your purchase of this advanced video camera. Ensure that you read this manual carefully and keep it in a safe place for future reference.

## About this manual

Every effort has been made to ensure that the contents of this manual are correct and up to date. However, no guarantee is made regarding the accuracy of the contents. If the contents of this manual do not tally with the camera, please take the camera as a criterion, and our company reserves the right to change the contents or technical rules without notice in advance. Also, the manufacturer reserves the right to change the technical specification in advance without notice.

If the accessories do not tally with the actual package, please take the actual package as a criterion.

## Copyright

© Copyright 2009.

All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, manual or otherwise, without the prior written permission of the manufacturer.

# Precautions

## General precautions

- Do not use or store the product in dusty, dirty, or sandy areas, as its components may be damaged.
- Do not store the product in a hot environment. High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics.
- Do not store the product in cold areas. When the product warms up to its normal temperature, moisture can form inside, which may damage the electronic circuits.
- Do not attempt to open the casing or attempt your own repairs. High-voltage internal components create the risk of electric shock when exposed.
- Do not drop or knock the product. Rough handling may damage the internal components.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a slightly damp soft cloth.
- Do not fire the white LED light while it is too close to the subject's eyes. Intense light from the flash can cause eye damage if it is fired too close to the eyes. When using the white LED light, the camera should be at least one meter from the eyes of the subject.
- Do not open battery cover while an image is being recorded. Doing so will not only make storage of the current image impossible, it can also corrupt other image data already stored in file.
- If the product or any of its accessories are not working properly, take them to your nearest qualified service center. The personnel there will assist you and if necessary, arrange for the product to be repaired.

- Test for proper operation before using the camera.

## Notes on the LCD Screen

Be very careful to ensure the fluid contained in the LCD screen does not escape if the screen becomes cracked or damaged. If this occurs, follow these steps:

- If the fluids make contact with skin, wipe it with a clean cloth then rinse with a large amount of water.
- If the fluid makes contact with eyes, wash eyes with clean water for at least 15 minutes and go to the hospital as soon as possible.
- If the fluid is swallowed, first rinse mouth with water, then drink a large amount of water and induce vomiting. Go to the hospital as soon as possible.

## Operation conditions

- This camera is designed for use in temperatures ranging from 0°C to 40°C (32°F to 104°F).
- Do not use or keep the camera in the following areas:
  - In areas subject to direct sunlight
  - In areas subject to high humidity or dust
  - Near air conditioners, heaters, or other areas subject to temperature extremes
  - Inside of a closed vehicle, especially one parked in the sun.
  - In areas subject to strong vibration

## Power supply

- Use only the type of battery that came with your camera. Using any other type of battery may damage the equipment and invalidate the warranty.



- Ensure the battery is inserted correctly. Inserting the battery incorrectly can cause damage to the product and possibly start a fire.
- Remove the battery to avoid the fluid leakage if the camera is not going to be used for a long time.
- If the battery is crushed or damaged, remove it immediately to avoid the battery fluid leakage and abnormal expansion.

## **Before You Start**

Take some test shots before performing a formal recording.

Before taking pictures with this DV camera in any important occasion (such as a wedding ceremony or an overseas trip), do test the DV camera beforehand to ensure that it functions properly. Any additional loss caused by the malfunction of this product (such as costs of photography or any loss of benefit generated by the photography) is not the responsibility of the manufacturer and no compensation will be given for it.

## **Copyright information**

Take care to observe "No Photography" notices in certain locations. In these cases, you cannot record any live performance, improvisation or exhibits, even for personal purposes. Any transfer of pictures or memory card data must be conducted under the constraints of copyright law.

# 1 Introducing the camera

---

Read this section to learn about the features and functions of the video camera. This chapter also covers system requirements, package contents, and descriptions of the hardware components.

## 1.1 System requirements

The video camera requires a PC with the following specifications:

- Windows® 7 / Vista / XP operating system
- Intel® / AMD Dual-Core CPU or higher
- At least 1 GB of RAM or higher
- At least DirectX 9 video card, DirectX 10 is recommended
- Standard USB 1.1 port or higher
- At least 2GB or greater available hard disk

<p><b>Note:</b> A USB 1.1 port will enable you to transfer files to and from your host PC, but transfer speeds will be much faster with a USB 2.0 port.</p>
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## 1.2 Features

The video camera offers a variety of features and functions including:

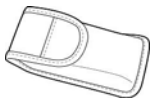
- Full HD Digital camcorder
- Digital camera (max. 12 Megapixels)
- HDMI audio-video output
- Max. 4X digital zoom
- Mass storage device
- 3" TFT LCD Touch Display (16:9)

## 1.3 Unpacking the video camera

The following items should be present in the package. If any item is missing or appears damaged, contact your dealer immediately.



**Video camera**



**Pouch**



**USB & AV cable**



**Strap**



**HDMI cable**



**Li-ion battery**



**Battery  
charger**



**CD-ROM  
(Application software  
+User's Manual)**



**Power cord**  
(UK Style - Used for UK Area)



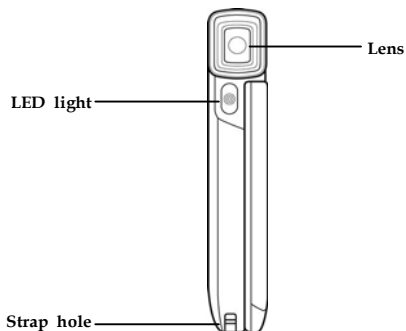
**Power cord**  
(European Style  
Used for Pan Europe Area)

- Do not use the European power cord in the UK.

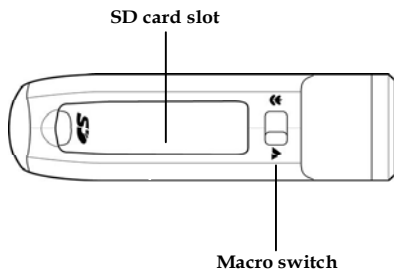
## 1.4 About the camera

Refer to the following illustrations to familiarize yourself with the buttons and controls of this video camera.

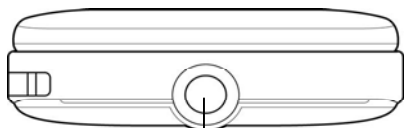
### 1.4.1 Front view



### 1.4.2 Top view

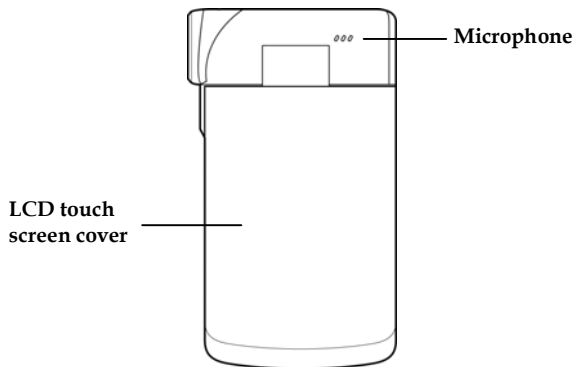


### 1.4.3 Bottom view

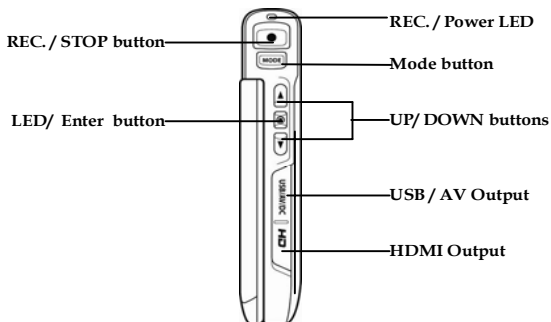


Tripod mount

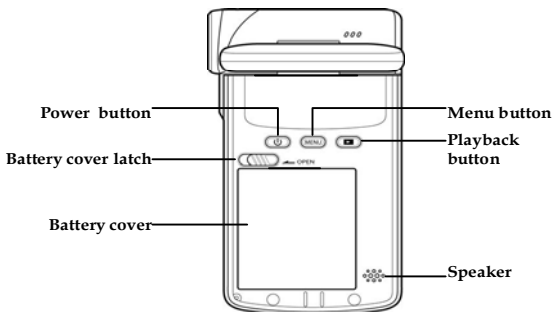
### 1.4.4 Right view



## 1.4.5 Back view

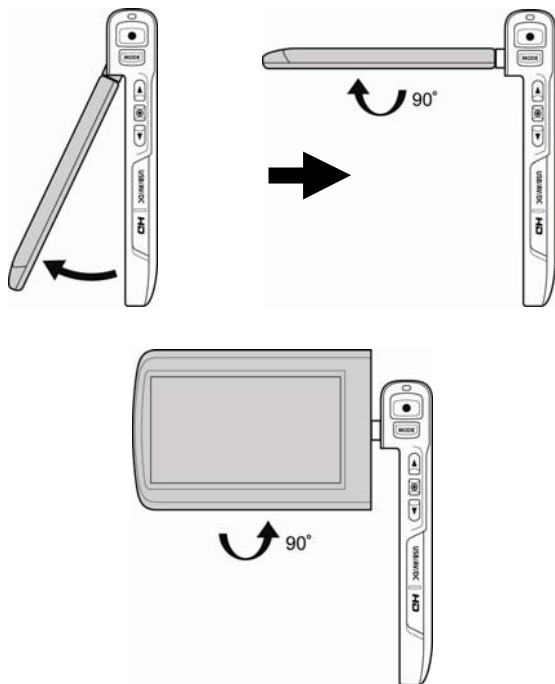


## 1.4.6 LCD Panel







## 1.4.7 Adjusting the LCD display





Flip and twist the LCD screen as shown while capturing a still image or recording a video clip.



See the table below for a description of each button's function.

Button	Name	Function
	Power button	Press to turn power on/off.
	Menu button	Press to display main OSD menus.
	Mode button	Use to toggle <b>Movie</b> , <b>Photo</b> , and <b>SET</b> modes.
	Up/Down buttons	<ul style="list-style-type: none"> <li>● In <b>Movie</b> and <b>Photo</b> modes, press to zoom in and out.</li> <li>● In <b>Movie Playback</b> mode:             <ol style="list-style-type: none"> <li>1. Press the <b>Up/Down</b> buttons to browse stored movies.</li> <li>2. While playing a movie, press the <b>Up/Down</b> buttons to rewind / fast forward the movie.</li> <li>3. In the thumbnail mode, press the <b>Up/Down</b> buttons to select the video clip and then press the <b>ENTER</b> button to show the video clip.</li> </ol> </li> <li>● In <b>Photo Playback</b> mode:             <ol style="list-style-type: none"> <li>1. Press the <b>Up/Down</b> buttons to browse stored images.</li> <li>2. In the thumbnail mode, press the up and down to select the thumbnail images and then press the <b>ENTER</b> button to view the</li> </ol> </li> </ul>



		<p>image in full screen mode.</p> <p>3.</p> <ul style="list-style-type: none"> <li>● In <b>SET</b> mode, press Up/Down buttons to highlight menu items, and the <b>ENTER</b> button to select.</li> </ul>
	<p>REC. / STOP button</p>	<ul style="list-style-type: none"> <li>● In <b>Movie</b> mode, press to record video clip.</li> <li>● In <b>Movie Playback</b> mode, press to pause the video playback. Press the <b>REC. / STOP</b> button again to resume video playback.</li> <li>● In <b>Photo</b> mode, press to take a photo.</li> </ul>
	<p>Macro switch</p>	<p>Move the switch to the  position to enable <b>Macro</b> mode.</p>
	<p>Playback button</p>	<p>In <b>Movie</b> and <b>Photo</b> mode, press to enter playback mode.</p>

## 1.4.8 About the LEDs

The following table describes the camera LEDs:

LED	Colour	Definition
<b>Power/ Rec.</b>	Green	Power-on
	Red Blinking	Recording
	Red	Camera busy
	Green Blinking	Self-timer is activated
	Green Blinking Rapidly	2 seconds self-timer remaining.
<b>Self-timer</b>	Green Blinking	Self-timer is activated.
	Green Blinking Rapidly	2 seconds self-timer remaining.

## 2 Getting started

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Read this section to learn how to start using the video camera. This section covers basic functions such as switching on, inserting the battery and memory cards, and configuring preliminary settings. See later chapters for advanced functions.

### 2.1 Inserting an SD card

An SD card can be installed in the video camera to provide additional storage space for still images, video clips, or other files.

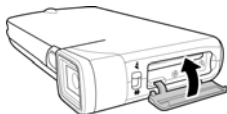
1. Open the SD card compartment cover.



2. Insert the SD card as shown. Make sure the contacts are facing downwards.



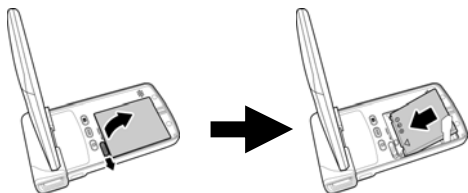
3. Press down the SD card compartment cover then inwards to close it.



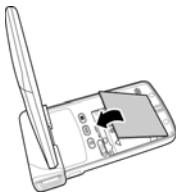
## 2.2 Inserting the batteries

This video camera is designed for use with a rechargeable Li-Ion battery. Only use the batteries supplied or similar batteries recommended by the manufacturer or your dealer.

1. Open the battery compartment cover and insert the batteries as shown.



2. Close the battery compartment cover.



**Note:** Installing the battery incorrectly could cause damage to the camera and possibly start a fire.

## 2.3 Charging the battery

You can charge the battery with the charging unit provided. Follow the below steps to charge your battery.

1. Insert the Li-ion battery into the charging bay. Connect one end of the power cord to the charging unit and then plug the other end to the wall outlet as shown.
2. The red LED will light up for proper charging.
3. After full charge, the LED turns to green.
4. It takes about 120 minutes to achieve full charge. Actual charging time depends on current battery capacity and charging conditions.



UK style plug



European style plug

**Note:** You may also charge the battery by connecting the video camera to a computer with the USB cable provided. When the video camera is turned off, connecting to PC starts charging. When the video camera is powered on, connecting it to PC goes to USB mode. It takes about 180 minutes to achieve full charge.

A full charged battery can support:

Photo shooting - 120 photos; Video recording - 60 minutes

Photo playback - 100 photos; Video playback - 60 minutes

## 2.4 Turning on the video camera

Press and hold the power button or flip open/close the LCD touch screen to turn the video camera on/off.

## 2.5 Changing modes

The video camera can operate in three modes, **Movie**, **Photo**, and **SET**. Press the **Mode** button to toggle different modes.



## 2.6 Before you start

Before you start using the video camera, some basic settings such as date and time, languages and beep function need to be configured.

### 2.6.1 Setting the date and time

1. Turn on the video camera, and press the **Mode** button to go to **SET** mode. Press the **Up/ Down** buttons or tap the screen to highlight **Date / Time**. Press the **ENTER** button or tap the screen to enter the **Date/Time** menu.
2. Tap the screen or press the **REC./ STOP** button to select a field.





3. Adjust each value by pressing the **Up/ Down** buttons or tap  / .
4. Press the **ENTER** button or tap **Ok** to save your changes and leave the Date/Time menu.

## 2.6.2 Setting the language

1. Turn on the video camera, and press the **Mode** button to go to **SET** mode. Press the **Up/ Down** buttons or tap the screen to highlight or tap the screen to highlight **Language**. Press the **ENTER** button or tap the screen to enter the **Language** menu.



2. Press the **Up/ Down** buttons or tap the screen to select the following language options: **English, German, French, Italian, Spanish, Portuguese, Dutch, Simplified Chinese, Traditional Chinese, Korean, Turkish, Japanese, Russian, and Arabic**. Tap  /  to go to the previous/next page. After the language is selected, press the **ENTER** button or tap **Ok** confirm.

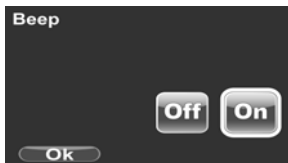


### 2.6.3 Setting the beep

1. Turn on the video camera, and press the **Mode** button to go to **SET** mode. Press the **ENTER** button or tap the screen to enter the **Beep** menu.



2. Press the **Up/Down** buttons or tap the screen to select **Off** or **On** options. Press the **ENTER** button or tap **Ok** to confirm.

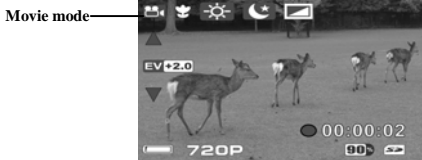




## 2.7 Shoot/Playback video

### 2.7.1 Shooting a video clip

1. Turn on the video camera and it starts in **Movie** mode.






2. Use the LCD screen to frame the video.
3. Press the **REC./STOP** button to start recording.
4. Press the **REC./STOP** button again to stop recording.
5. The video clip is automatically saved with a unique file name.

#### **Notes:**

1. The maximum length of each video recording file is 3.66 GB. When the maximum length is reached, the recording will automatically be saved as separate files.

3. The LCD preview and the ratio of a still-image capture can vary depending on the different video resolution settings. See the following table:





Video resolution	Preview	Taking pictures (3M, 5M, 12M)
1080P 720P WVGA	16:9 ratio 	4:3 ratio 
QVGA	4:3 ratio 	

## 2.7.2 Playing the video clip

1. In **Movie** mode, press the **Playback** button and the most recent file displays on the LCD screen.

Movie playback  
mode indicator



2. Press the **Up/Down** buttons or tap  /  to browse the video clips. Press the **ENTER** button or tap the screen to play back the video clip.
3. To pause while playing back the video clip, press the **REC./ STOP** button.
4. When viewing the video clip, press **MENU** button to display the **Volume** option, and then use the **Up/Down** buttons or tap  /  to adjust the volume.

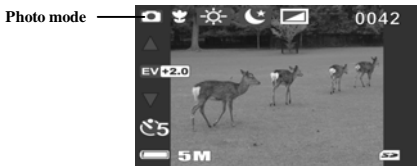


5. Press **Up/Down** buttons to fast rewind /forward.
6. Press the **ENTER** button to stop playing.
7. Press the **Playback** button again to return to **Movie** mode.

## 2.8 Taking/viewing pictures

### 2.8.1 Taking a still picture

1. Turn on the camera and move the mode dial to **Photo** mode.

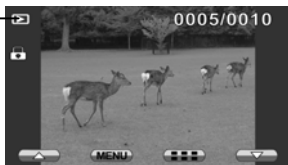




2. Use the LCD screen to frame the picture.
3. Press the **REC./STOP** button to capture the image.
4. The picture is automatically saved with a unique file name.

## 2.8.2 Viewing images

1. In **Photo** mode, press the **Playback** button and the most recent image displays on the LCD screen.

Playback mode



2. Press the **Up/Down** buttons or tap  /  to browse the images.
3. In thumbnail mode, press the **ENTER** button or tap **Ok** to view the image in full screen mode.
4. Press the **Playback** button again to return to **Photo** mode.

## 2.9 Connecting to a computer

Read this section to learn how to transfer files to a PC, show the video clips or photos on PC.

Connect the video camera to a computer with the USB cable provided.



## 2.10 Connecting to a standard TV

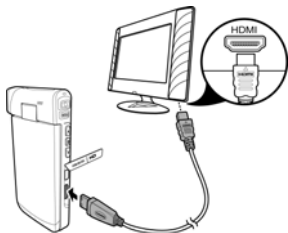
Connect the video camera to a standard TV as shown with the AV cable provided.



## 2.11 Connecting to an HDTV

Read this section to learn how to show the video clips or photos on an HDTV. Connecting to an HDTV offers the high resolution for displaying the video clips or photos.

Connect the video camera to an HDTV as shown with an HDMI cable.



### Notes:

1. Photo capturing and movie recording are not supported when connected to an HDTV and TV.
2. When connected to HDTV and TV, go to Playback mode and press the REC. key to view video clips or photos in thumbnails.

## 3 Using the camera

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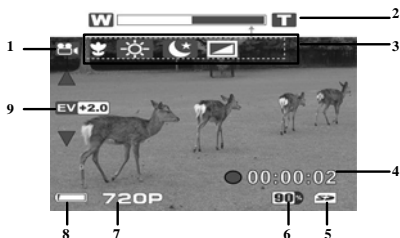
Read this section to learn how to use the camera.

### 3.1 Movie mode

Use this mode to capture video clips and store them in internal memory or on an SD card.

#### 3.1.1 Movie mode

Use the following picture to familiarize yourself with the **Movie** mode icons and symbols.














#### Movie mode:

See the table below for a description of each icon and symbol.


1		Movie mode indicator
2		Zoom indicator
3		Macro indicator



		White balance indicator
		Night mode indicator
		Effect indicator
4		Recorded time indicator
5		Memory status indicator:  : indicates an SD card is inserted and the available storage capacity of the SD card  : indicates no inserted SD card and the available internal memory
6		Remaining memory capacity
7		Resolution indicator
8		Battery indicator
9		EV compensation indicator

### 3.1.2 Using the macro function

This function can capture subjects close to the lens. In macro mode, subjects can be as close as 20-21 cm.

While in **Photo** mode, move the **Macro** switch on the side of the video camera to activate macro function, and an icon  displays on the LCD screen.

Move the macro switch again to return to normal mode.

### 3.1.3 Using the zoom function

The camera is equipped with 4x digital zoom.

Press the **Up** button to get closer to a subject.

Press the **Down** button to move away from a subject.

<b>Note:</b> 1080p and QVGA do not support zoom function.
-----------------------------------------------------------

### 3.1.4 Using the LED light

Use the LED light to illuminate subjects in dark environments.

Press the **LED** button to choose from the following lighting options:  
**Off** and **On** modes.

### 3.1.5 Quick access controls

You can also make adjustments to exposure and lighting settings by tapping the LCD touch screen.

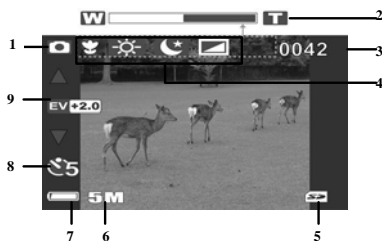
In **Movie** modes, tap ▲ / ▼ on screen to adjust the EV compensation setting.

## 3.2 Photo mode

Use **Photo** mode to capture still pictures and store them in the internal memory or on an SD card.








### 3.2.1 Photo mode icons

Use the following picture to familiarize yourself with the **Photo** mode icons and symbols.



See the table below for a description of each icon and symbol.

1		Photo mode indicator
2		Zoom indicator
3		Remaining number of photos
4		Macro indicator
		White balance indicator
		Night mode indicator
		Effect indicator

5		<p>Memory status indicator:</p> <p>: indicates an SD card is inserted and the available storage capacity of the SD card</p> <p>: indicates no inserted SD card and the available internal memory</p>
6		File size indicator
7		Battery indicator
8		Self timer indicator
9		EV compensation indicator

### 3.2.2 Using the macro function

See section 3.1.2 “Using the macro function”.

### 3.2.3 Using the zoom function

See section 3.1.3 “Using the zoom function”.

### 3.2.4 Using the LED light

See section 3.1.4 “Using the LED light”.

### 3.2.5 Quick access controls

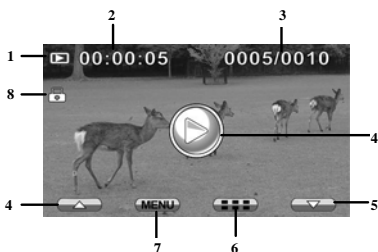
See section 3.1.5 “Quick access controls”.

## 3.3 Movie Playback mode





Use **Movie Playback** mode to review all the movie files stored in the video camera.




### 3.3.1 Movie Playback mode icons

Refer to the following picture to familiarize yourself with the **Movie Playback** mode icons and symbols.



See the table below for a description of each icon and symbol.

1		Movie playback mode indicator
2	00:00:05	The length of every video clip
3	0005/0010	Displays the number of current movie / total number of recorded video clips
4		Playback icon. Tap to start playing the video clip.
5	 	Up/Down icons. Tap to go to the previous/next video clips.

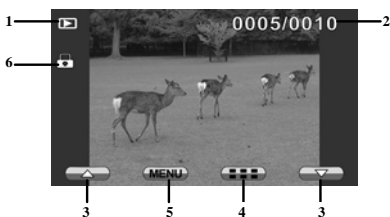
6		Thumbnail icon. Tap to view all video clips in thumbnails.
7		MENU icon. Tap to enter movie playback menu.
8		File protect indicator

## 3.4 Photo Playback mode







Use **Photo Playback** mode to review all the image files stored in the video camera.

### 3.4.1 Photo Playback mode icons


Refer to the following picture to familiarize yourself with the **Photo Playback** mode icons and symbols.



See the table below for a description of each icon and symbol.




1		Playback mode indicator
2	0005/0010	Displays the number of current image / the total number of saved images
3	 	Tap to view the previous/next image
6		Thumbnail icon. Tap to view all pictures in thumbnails.
7		MENU icon. Tap to enter photo playback menu.
8		File protect indicator

## 3.5 Thumbnail mode

When in **Photo Playback** or **Movie Playback** modes, tap  on screen to show images as thumbnails.

1. Turn on the video camera and make sure it is in **Photo Playback** or **Movie Playback** mode.
2. The most recent image / video clip displays on the screen. Press the zoom button left to view **six** thumbnail images / video clips on the LCD screen.



3. Press the **Up/Down** buttons or tap the screen to highlight an image or a video clip. Tap  /  to view the previous or next page.
4. Press the **ENTER** button or tap **Ok** to view the image or playback the video clip in full screen.
5. Tap  again to return to thumbnail view.

## 3.6 USB mode

You can use USB mode to connect to a host PC.

When connected to a host PC, the video camera is shown as a removable drive in Windows Explorer.



## 4 Using the menus

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Read this section to learn how to configure the camera settings and use the advanced features.

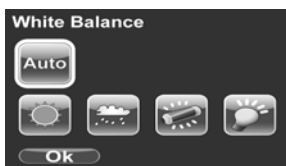
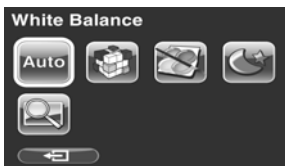
### 4.1 Movie menu

When in **Movie** mode, press the **MENU** button to show the **Movie** options menu.

#### 4.1.1. White balance

Use this option to correct colour difference for different lighting conditions. When white balance is set to **Auto**, the video camera automatically compensates for different lighting conditions.

1. Turn the video camera on and ensure it is in **Movie** mode. Press the **MENU** button to display the menu options.
2. Tap the screen to highlight the **White Balance** option. Press the **ENTER** button or tap the screen to display the submenu.
3. Use the **Up/Down** buttons or tap the screen to select **Auto**, **Sunny**, **Cloudy**, **Fluorescent**, or **Tungsten**. Press the **ENTER** button or tap **Ok** to confirm.




4. Press the **MENU** button again or tap  to exit the menu.

## 4.1.2. Video resolution

Use the resolution option to determine the resolution of the captured video. The larger screen size requires more memory storage space.

1. Turn the video camera on and ensure it is in **Movie** mode. Press the **MENU** button to display menu options.
2. Use the **Up/Down** buttons to highlight the **Resolution** option. Press the **ENTER** button or tap the screen to display the submenu.
3. Use the **Up/Down** buttons or tap the screen to select **1080P**, **720P**, **WVGA**, or **QVGA**. Press the **ENTER** button or tap **Ok** to confirm.



4. Press the **MENU** button again or tap  to exit the menu.

### Notes:

1. The LCD displays the 16:9 ratio while setting the video resolution to WVGA, 720P or 1080P.
2. The LCD displays the 4:3 ratio while setting the video resolution to QVGA. QVGA (120 fps) high frame rate mode, is suitable for shooting fast motion videos such as sport activities and traffic flow. The video plays back in silent slow motion video.


3. 1080p and QVGA mode do not support Digital Zoom function.

### 4.1.3. Colour effect

The camera can capture standard colour images, black and white images, or sepia tone to give an old-fashioned look.

1. Turn the video camera on and ensure it is in **Movie** mode. Press the **MENU** button to display the menu options.
2. Use the **Up/Down** buttons to highlight the **Effect** option. Press the **ENTER** button or tap the screen to display the submenu.
3. Use the **Up/Down** buttons or tap the screen to select **Colour**, **B&W** or **Sepia**. Press the **ENTER** button or tap **Ok** to confirm.

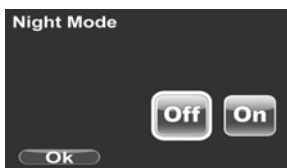



4. Press the **MENU** button again or tap  to exit the menu.

## 4.1.4. Night mode

Use this function to shoot a better video clip quality in dark environments.

1. Turn the video camera on and ensure it is in **Movie** mode. Press the **MENU** button to display the menu options.
2. Use the **Up/Down** buttons to highlight the **Night Mode** option. Press the **ENTER** button or tap the screen to display the submenu.
3. Use the **Up/Down** or tap the screen to select **Off** or **On** option. Press the **ENTER** button or tap **Ok** to confirm.




4. Press the **MENU** button again or tap  to exit the menu.

## 4.1.5. Video quality

Use this function to record video clips. Higher quality video requires more memory storage space and higher speed SD card

1. Turn the video camera on and ensure it is in **Movie** mode.
2. Press the **MENU** button to display the menu options.
3. Use the **Up/Down** buttons to highlight the **Quality** option. Press the **ENTER** button or tap the screen to display the submenu.
4. Use the **Up/Down** buttons or tap the screen to select **Fine** or **Normal** options. Press the **ENTER** button or tap **Ok** to confirm.



5. Press the **MENU** button again or tap  to exit the menu.



## 4.2 Movie playback menu

Use the playback menu to manage the files stored in the internal memory or on the SD card.

### 4.2.1 Delete

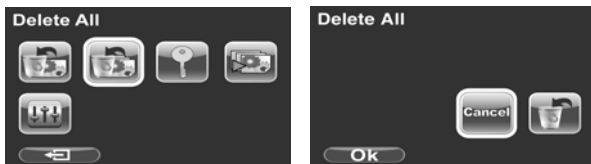
Use this function to delete files.

1. Turn the video camera on and ensure it is in **Movie** mode. Press the **Playback** button and then press the **MENU** button or tap the screen to display the **Movie Playback** menu.
2. Use the **Up/Down** buttons or tap the screen to select **Delete One** or **Delete All** options.

If you select **Delete One**, the playback screen appears again. Use the **Up/Down** buttons or tap  /  to select the file you want to delete. Press the **ENTER** button or tap the **Delete** icon to delete the selected video clip.



If you select **Delete All**, use the **Up/Down** buttons or tap the **Delete** icon and press the **ENTER** button or tap **Ok** to delete all video clips.






3. Press the **MENU** button again or tap  to exit the menu.


**Note:** Once deleted, files cannot be recovered so make sure you have a backup before you delete. Files that have been protected will not be deleted. You have to unlock the files first before deleting them.

## 4.2.2 Protect

Use this function to lock files to prevent accidental deletion.

1. Turn the video camera on and ensure it is in **Movie** mode. Press the **Playback** button and then press the **MENU** button or tap the screen to display **Movie Playback** menu.
2. Use the **Up/Down** buttons or tap the screen to select the **Protect** option. Then playback screen appears again.
3. Use the **Up/Down** buttons or tap  /  to select the file you want to protect.
4. Press the **ENTER** button or tap the **Protect** icon to confirm. A lock  icon is displayed to show that the file is protected.



**Note:** To unlock a file, repeat the above steps. The lock icon  disappears when the file is unlocked.

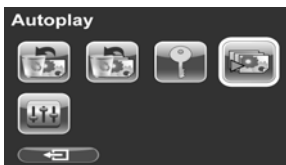
5. Press the **MENU** button again or tap  to exit the menu.






## 4.2.3 Autoplay


Use this function to continuously play all movie clips stored in the memory card.

1. Turn the video camera on and ensure it is in **Movie** mode. Press the **Playback** button and then press the **MENU** button or tap the screen to display the **Movie Playback** menu.
2. Use the **Up/Down** buttons or tap the screen to select the **Autoplay** option. The video camera starts continuous playing of movie clips.





3. Press the **REC./STOP** button to pause the movie clip. Press the **REC./STOP** button again to resume the playback. Press the **ENTER** button or tap the screen to stop and return to **Movie Playback** mode.

**Note:** You may also use on-screen icons to rewind  / pause  / fast-forward  / stop  while playing the video clip.


4. Press the **MENU** button again or tap  to exit the menu.

## 4.2.4 Volume

Use this function to adjust the volume of the video clips in playback mode.

1. Turn the video camera on and ensure it is in **Movie** mode. Press the **Playback** button and then press the **MENU** button or tap the screen to display the **Movie Playback** menu.
2. Use the **Up/Down** buttons highlight the **Volume** option. Press the **ENTER** button or tap the screen to display the submenu.
3. Use the **Up/Down** buttons or tap / to increase/decrease the volume. Press the **ENTER** button or tap **Ok** to confirm.



4. Press the **MENU** button again or tap  to exit the menu.

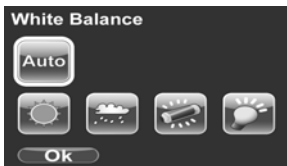
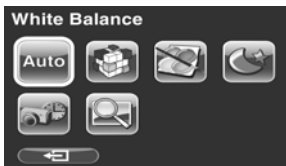
## 4.3 Photo menu


In **Photo** mode, press the **MENU** button to show the Photo Options menu.

### 4.3.1 White balance

Use this option to correct colour difference due to lighting conditions.

1. Turn the video camera on and ensure it is in **Photo** mode. Press the **MENU** button to display the menu options.
2. Use the **Up/Down** buttons to highlight the **White Balance** option. Press the **ENTER** button or tap the screen to display the submenu.
3. Use the **Up/Down** buttons or tap the screen to select **Auto**, **Sunny**, **Cloudy**, **Fluorescent**, or **Tungsten**. Press the **ENTER** button or tap **Ok** to confirm.




4. Press the **MENU** button again or tap  to exit the menu.

## 4.3.2 Resolution

Use this option to set the size of the captured image. Larger images contain more details and therefore use more memory space.

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button to display the menu options.
3. Use the **Up/Down** buttons to highlight the **Resolution** option. Press the **ENTER** button or tap the screen to display the submenu.
4. Use the **Up/Down** buttons or tap the screen to select **3M**, **5M** or **12M**. Press the **ENTER** button or tap **Ok** to confirm.

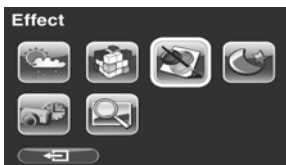



5. Press the **MENU** button again or tap  to exit the menu.

### 4.3.3 Colour effect

The camera can capture standard colour images, black and white images, or sepia tone to give an old-fashioned look.

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button to display the menu options.
3. Use the **Up/Down** buttons to highlight the **Effect** option. Press the **ENTER** button or tap the screen to display the submenu.
4. Use the **Up/Down** buttons or tap the screen to select **Colour**, **B & W**, or **Sepia**. Press the **ENTER** button or tap **Ok** to confirm.

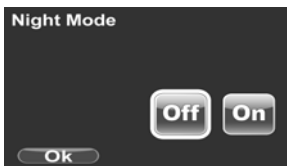
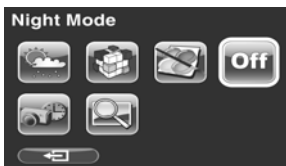


5. Press the **MENU** button again or tap  to exit the menu.

### 4.3.4 Night mode

Use this function to shoot a better photo clip quality in dark environments.

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button to display the menu options.
3. Use the **Up/Down** buttons to highlight the **Night Mode** option. Press the **ENTER** button or tap the screen to display the submenu.
4. Use the **Up/Down** buttons or tap the screen to select **Off** or **On** option. Press the **ENTER** button or tap **Ok** to confirm.

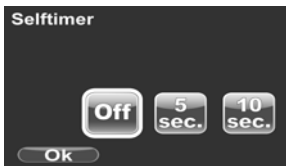
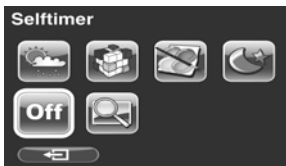



5. Press the **MENU** button again or tap  to exit the menu.

### 4.3.5 Selftimer

Use the self timer function to take a photo of yourself.

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button to display the menu options.
3. Use the **Up/Down** buttons to highlight the **Selftimer** option. Press the **ENTER** button or tap the screen to display the submenu.
4. Use the **Up/Down** buttons or tap the screen to select **Off**, **5 seconds**, or **10 seconds** options. Press the **ENTER** button or tap **Ok** to confirm.




5. Press the **MENU** button again or tap  to exit the menu.

### 4.3.6 Photo quality

Use this set the photo quality. Higher quality pictures requires more memory storage space and higher speed SD card

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button to display the menu options.
3. Use the **Up/Down** buttons to highlight the **Quality** option. Press the **ENTER** button or tap the screen to display the submenu.
4. Use the **Up/Down** buttons or tap the screen to select **Fine** or **Normal** options. Press the **ENTER** button or tap **Ok** to confirm.



5. Press the **MENU** button again or tap  to exit the menu.





## 4.4 Photo playback menu

### 4.4.1 Delete

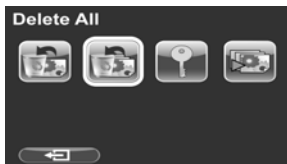
Use this function to delete files.

1. Turn the video camera on and ensure it is in **Photo** mode. Press the **Playback** button and then press the **MENU** button or tap the screen to display the **Photo Playback** menu.
2. Use the **Up/Down** buttons or tap the screen to select **Delete One** or **Delete All** options.

If you select **Delete One**, the playback screen appears again. Use the **Up/Down** buttons or tap  /  to locate the file you want to delete. Press the **ENTER** button or tap the **Delete** icon to delete the selected image.



If you select **Delete All**, use the **Up/Down** buttons or tap the **Delete** icon and press the **ENTER** button or tap **Ok** to delete all images.






3. Press the **MENU** button again or tap  to exit the menu.


**Note:** Once deleted, files cannot be recovered so make sure you have a backup before you delete. Files that have been protected will not be deleted. You have to unlock the files first before deleting them.


## 4.4.2 Protect

Use this function to protect files.

1. Turn the video camera on and ensure it is in **Photo** mode. Press the **Playback** button and then press the **MENU** button or tap the screen to display the **Photo Playback** menu.
2. Use the **Up/Down** buttons or tap the screen to select the **Protect** option. Then playback screen appears again.
3. Use the **Up/Down** buttons or tap  /  to select the file you want to protect.
4. Press the **ENTER** button or tap the **Protect** icon to confirm. A lock  icon is displayed to show that the file is protected.



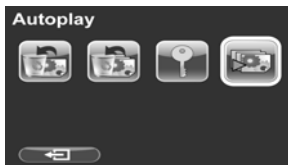
**Note:** To unlock a file, repeat the above steps. The lock icon  disappears when the file is unlocked.


5. Press the **MENU** button again or tap  to exit the menu.

### 4.4.3 Slide show

The camera includes a slide show function, which displays each image in turn with a regular interval between pictures.

1. Turn the video camera on and ensure it is in **Photo** mode. Press the **Playback** button and then press the **MENU** button or tap the screen to display the **Photo Playback** menu.
2. Use the **Up/Down** buttons to select the **Autoplay** option and press the **ENTER** button or tap the screen to confirm. The images will be displayed automatically.



3. Press the **ENTER** button or tap the screen to stop the slideshow.
4. Press the **MENU** button again or tap  to exit the menu.

## 4.5 System menu

The system menu is used to configure miscellaneous camera functions.

### 4.5.1 Setting the beep

See section 2.6.3 “Setting the Beep”.

### 4.5.2 Date/time

See section 2.6.1 “Setting the date and time”

### 4.5.3 Auto power off

Use this function to switch the camera off automatically after a period of inactivity for power saving.

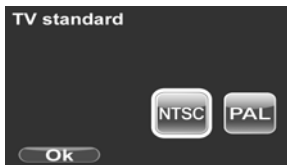
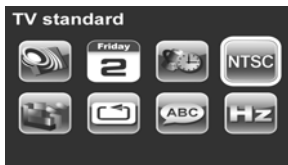
1. Turn on the video camera and press the **Mode** button to go to **SET** mode.
2. Use the **Up/Down** buttons or tap the screen to highlight the **Auto Power Off** option. Press the **ENTER** button or tap the screen to display the submenu.
3. Use the **Up/Down** buttons or tap the screen to select **Off**, **1 minute**, or **5 minutes**. Press the **ENTER** button or tap **Ok** to confirm.



## 4.5.4 TV standard

Use the TV option to set the TV system for the area.

1. Turn on the video camera and press the **Mode** button to go to **SET** mode.
2. Use the **Up/Down** buttons to highlight the **TV standard** option. Press the **ENTER** button or tap the screen to display the submenu.
3. Use the **Up/Down** buttons or tap the screen to select **NTSC** or **PAL**, and press the **ENTER** button or tap **Ok** to confirm.



## 4.5.5 Format

Use this function to format the current storage media. This format action will delete everything on the media.

1. Turn on the video camera and press the **Mode** button to go to **SET** mode.
2. Use the **Up/Down** buttons to highlight the **Format** option. Press the **ENTER** button or tap the screen to display the submenu.
3. Use the **Up/Down** buttons to select **Cancel**, or **SD**, and press the **ENTER** button or tap **Ok** to confirm.



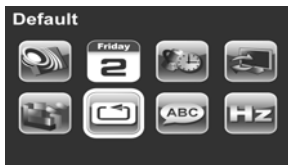
4. The current media (memory card or internal memory) is formatted.

**Note:** When no SD card is inserted, internal memory option will be displayed in the Format submenu.

## 4.5.6 Default

Use this option to reset all settings to the default settings.

1. Turn on the video camera and press the **Mode** button to go to **SET** mode.
2. Use the **Up/Down** buttons to highlight the **Default** option. Press the **ENTER** button or tap the screen to display the submenu.
3. Use the **Up/Down** buttons or tap the screen to select **Cancel** or **Ok**, and press the **ENTER** button or tap **Ok** to confirm.



## 4.5.7 Language

See section 2.6.2 “Setting the language”.



## 4.5.8 Frequency

Use the Frequency option to set the frequency system for your area.

To set the frequency:

1. Turn on the video camera and switch to **SET** mode.
2. Use the **Up/Down** buttons or tap the screen to highlight the **Frequency** option. Press the **ENTER** button or tap the screen to display the submenu.
3. Use the **Up/Down** buttons or tap the screen to select **NTSC** or **PAL**. Press the **ENTER** button or tap **Ok** to confirm.



# Appendix

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## Specifications

General	
Imaging sensor	1/3.2" CMOS 5.0 Megapixel sensor
Active pixels	5.0 Megapixel
Storage media	Built-in 128 MB flash memory (approx. 75 MB available for image storage) SD Card, SDHC compatible (up to SDHC 16GB Class 6)
Sensor sensitivity	Auto
Colour effects	Colour/B&W/Sepia
Lens	Fixed lens Wide: F/3.2, f=5.1mm
Focus range	Normal: 1.5m~infinity Macro: 20-21cm
Still image	Formats: JPEG (EXIF 2.2), DCF Resolution: 3M, 5M, 12M (Firmware interpolation)

## General

Movie clips	Format: H.264 (AVI) Resolution: QVGA (120 fps), WVGA (60 fps), HD 720p (30 fps), HD 1080p (30 fps)
Zoom	Movie: Digital Zoom 4X (except 1080p and QVGA) Camera: Digital Zoom 4X
TFT Monitor	3" TFT LCD Touch Display (960 x 240 pixels) (16:9)
LED Light	< 1.0 m range
White balance	Auto/Sunny/Cloudy/Tungsten/Fluorescent
EV compensation	-2.0 EV~+2.0 EV
Self-timer	Off, 5, 10 seconds
PC interface	MSDC: USB 2.0 (high speed)
TV out format	NTSC/PAL / HDMI
Shutter speed	Still: 2 ~ 1/4000 second Video: 1/15 ~ 1/2000 second
Auto power off	Off, 1 min., 5 min.
Power supply	Li-ion Battery or DC-in via USB

## General

Dimension	17 (W) x 107 (H) x 57 (D) mm
Weight	Approx. 97± 5g (without batteries)

## Troubleshooting

Problem	Possible Cause	Solution
Cannot turn on the video camera.	The batteries are not inserted correctly.  The batteries have no power.	<ul style="list-style-type: none"><li>• Insert the batteries correctly. (See 2.2 Inserting the batteries.)</li><li>• Replace the batteries</li></ul>
The camera suddenly turns off.	The auto power off function was enabled.  The camera is running out of battery power.	<ul style="list-style-type: none"><li>• Turn the power on again.</li><li>• Replace the batteries.</li></ul>
The captured image is not stored in memory.	Before the image is saved the power has been cut off.	When the battery indicator turns red, replace the batteries immediately.

Problem	Possible Cause	Solution
The camera turns off when capturing image using self-timer.	The camera is running out of battery power.	<ul style="list-style-type: none"> <li>• Replace the batteries.</li> </ul>
The image is out of focus.	The subject is beyond focus range.	<ul style="list-style-type: none"> <li>• Please take a picture within the available focus range and choose normal or macro mode. (See 3.2.2 Using the macro function).</li> </ul>
Memory card cannot be used.	<p>The memory card is protected.</p> <p>The memory card contains non-DCF images taken by other cameras.</p>	<ul style="list-style-type: none"> <li>• Unlock the memory card.</li> </ul> <p>Format the memory card. (See 4.5.5 Format.) Before formatting the card, ensure you back up the files.</p>

Problem	Possible Cause	Solution
All buttons are inactive.	Short circuit occurred when connecting the camera with other devices.	<ul style="list-style-type: none"> <li>Remove the batteries from the camera and insert again.</li> </ul>



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# ArcSoft Total Media™ HDCam 2.0



## Quick Start Guide



## Introduction

ArcSoft Total Media™ HDCam is a desktop software that combines media management and playback capabilities.

### Media management

You can import the media files from the device to edit, upload, and produce photo books and album pages.

### Playback capability

You can view pictures and play video clips using ArcSoft Total Media™ HDCam.

## System Requirements

Operating System : Windows XP SP2, Vista, and Windows 7

CPU: Intel / AMD Dual-Core or above

Memory: At least 1GB

Graphic Card: DirectX 9 or DirectX 10 (recommended)

Interface: Standard USB 1.1 port or higher

Hard Disk: At least 2GB of available disk space

## Installation

To install Total Media™ HDCam:

1. Connect your device to the desktop or notebook PC.
2. Insert the installation CD into the DVD-ROM/CD-ROM drive.
3. The CD runs automatically.
4. Follow the instructions to complete the installation.

If the CD does not automatically run, follow the steps below to install the software:

1. Double click My Computer.
2. Use the mouse to point to the DVD-ROM/CD-ROM drive.
3. Right click the mouse then click Open.
4. Double click TotalMediaHDCam.exe.
5. A wizard appears to guide you through the installation procedure.
6. Follow the instructions to complete the installation.


## To Uninstall

To uninstall Total Media™ HDCam:

1. Click Start > Programs > ArcSoft Total Media HDCam > Uninstall.
2. A wizard appears to guide you through the uninstall procedure.
3. Follow the instructions to complete the uninstall.


## Language

To change the interface language after installation:

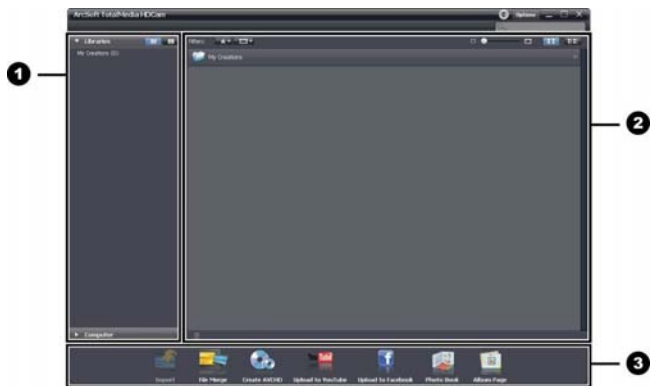
1. Click  > Preferences on the main screen.
2. Select a language then click OK.

## Registration and Upgrade

To register or upgrade:

1. Click  on the main screen to connect to Information Center.
2. Select Upgrade, Patches, or Registration.

# Media Browser



#	Area	Function
1	View Mode Area	Provides three modes to view media files.
2	Preview Area	Selects and displays file thumbnails and detailed information.
3	Function Bar	Lists main function buttons.

## View media files











Follow the instructions below to view the media files in your device:

1. Connect the device to the computer.
2. The device code appears on the top of View Mode Area.
3. Click the device code to display all media files in the device.

**Device code**

**Media files in the device**



- To play a video clip, double click the clip or click .
- To pause / stop / continue a video clip, click  /  / .
- To play the previous or next clip, click  / .
- To delete a file, select the file then click .
- To trim a video clip, click .
- To rate a file, click  on the file.
- To view a file's properties, click  on the file.
- To preview a picture in a new window, double click the picture.
- To preview the previous or next picture, click the right/left button.




## View modes

Three view modes are available to view media files: Library View, Calendar View, and Browser View.

Note: To view media files in your device using Library or Calendar View, you need to import media files first.

### Library View


The Library View lists My Creation folder and other folders created while importing files.

- To switch to Library View
1. Click Libraries to expand Libraries window.
  2. Select the desired folder.
  3. Click  to switch to Library View.
- To view or edit a folder's properties, select the folder then click .
  - To delete a folder, select the folder then click .



### Calendar View






The Calendar View uses the file creation date to organize media files.

- To switch to Library View
1. Click Libraries to expand Libraries window.
  2. Select the desired folder.
  3. Click  to switch to Calendar View.



Three modes are available in Calendar View: Year, Month, and Day mode.

To switch between different modes:


- Click the picture under the desired year to enter Month mode.
- Click   to change to the previous or next year if available.
- Click the picture under the desired month to enter Day mode.
- Click   to change to the previous or next month if available.
- Click  to return to the previous mode.



## Browser View








The Browser View enables you to browse for media files in your computer using the tree view.

### To switch to Browser View:

1. Click Computer to expand Computer window.
2. Select the desired folder in your computer to view media files.
3. To refresh the list of media files, click .








## Preview Area

In Preview Area, several options are available to select and display file thumbnails and detailed information. See the table below for a description of each option:

Option	Name	Function
	Rating filter	Displays the media files according to the selected rating.
	New filter	Displays the media files which are new.
	Type filter	Displays the media files according to the selected type.
	Quick search	Displays the media files according to the typed characters.
	Thumbnail slider	Adjusts the thumbnail size by moving the slider.
	Thumbnail	Displays file thumbnails.
	Details	Displays file thumbnails with detailed information.

## Function Bar

The Function Bar lists main function buttons. Click the button to access the function. See the table below for a description of each button.

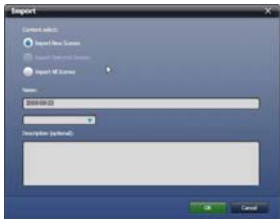
Button	Name	Function
	Import	Imports media files to the computer from a camera, camcorder, or storage device.
	File Merge	Produces movies with your video files.
	Create AVCHD	Burns AVCHD discs with your video files.
	Upload to YouTube	Uploads files to your YouTube account.
	Upload to Facebook	Uploads files to your Facebook account.
	Photo Book	Produces photo books with your pictures.
	Album Page	Produces album pages with your pictures.

## Importing media files

To import media files to your computer:

1. Select the desired folder.
2. Select the desired files.
3. Click Import. The Import window appears.
4. Select Import New Scenes, Import Selected Scenes, or Import All Scenes.
5. Select or type a folder name.
6. Click OK to import files.

### Merging video clips





## To merge video clips:

1. Click File Merge. The work area appears.
2. Click and drag the desired video clips into the work area.
3. Double click clips to preview and edit, if necessary.
4. Click Next to merge the clips.
5. Select the device and path to save the merged clip.



## Burning AVCHD discs




To burn AVCHD discs:

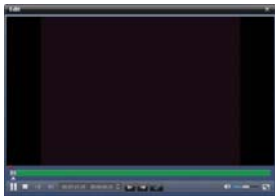
1. Click Create AVCHD. The work area appears.
2. Click and drag the desired video clips into the work area.
3. Double click clips to preview and edit, if necessary.
4. Click Next.
5. Select the drive to burn the AVCHD disc or select the path to save the files in your computer.










## Editing video clips

To edit a video clip:

1. Double click a video clip in the work area. The Editing windows appears.
2. Click  to select the beginning of the trimmed clip.
3. Click  to select the end of the trimmed clip.
4. Click  to save the trimmed clip.



See the table below for a brief description of other tools in the Editing window:

Button	Name	Function
	Play / Pause	Click to play or pause the clip.
	Stop	Click to stop the clip.
	Previous	Click to go to the previous clip.
	Next	Click to go to the next clip.
	Time box	Click on the number and use arrows to view a certain point of the video clip.
	Volume level	Drag to change the volume.
	Full screen	Click to enter full screen mode.

## Uploading files to YouTube

To upload files to YouTube:

1. Click Upload to YouTube. The work area appears.
2. Click and drag the desired file into the work area.
3. Click Next. The YouTube Login window appears.
4. Type your YouTube user name and password.
5. Click Login to sign in to YouTube.
6. Follow YouTube's instructions to upload the file.



## Uploading files to Facebook

To upload files to Facebook:

1. Click Upload to Facebook. The work area appears.
2. Click and drag the desired file into the work area.
3. Click Next. The Facebook Login window appears.
4. Type your Facebook Email and password.
5. Click Login to sign in to Facebook.
6. Follow Facebook's instructions to upload the file.



# Producing photo books

To produce photo books:

1. Click Photo Book. The work area appears.
2. Drag the desired pictures into the work area.
3. Click Next to launch the ArcSoft Print Creations application.



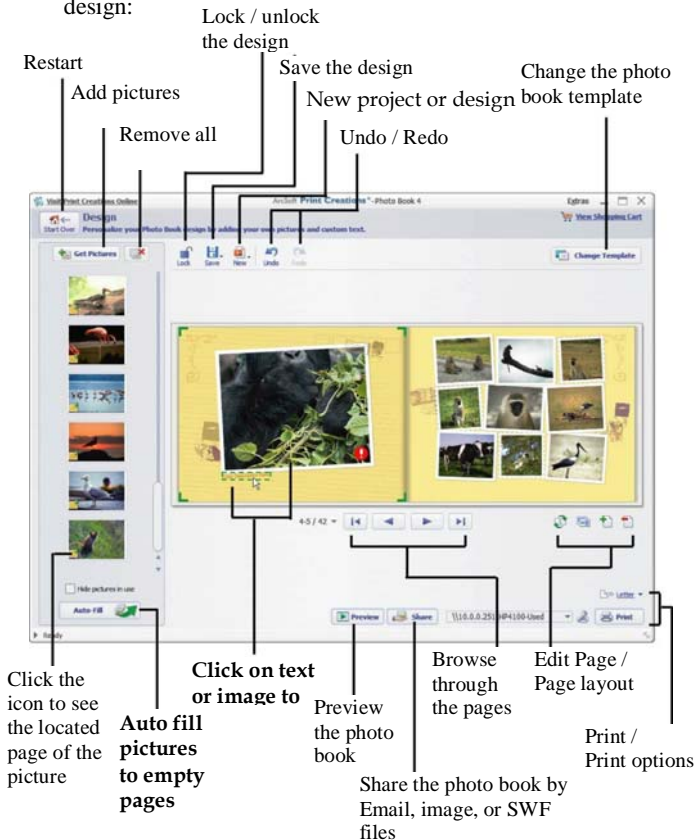
4. Select photo book categories to view photo books.
5. Select a photo book.



6. Click Next to enter Photo Book Design screen.



7. See the illustration below for descriptions of photo book design:



# Producing album pages

To produce photo books:

1. Click Album Page. The work area appears.
2. Drag the desired picture into the work area.
3. Click Next to launch the ArcSoft Print Creations application.



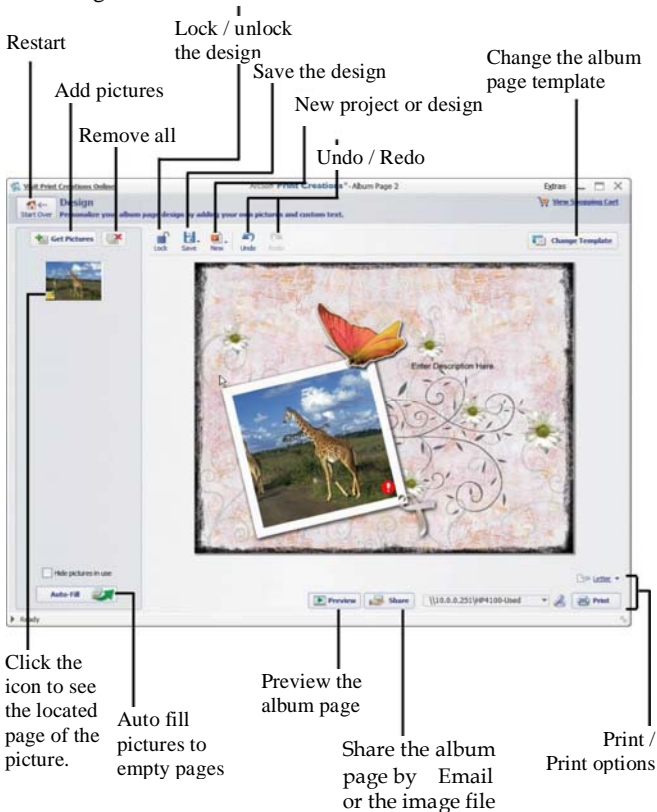
4. Select album page categories to view album pages.
5. Select an album page.



6. Click Next to enter Album Page Design screen.



7. See the illustration below for descriptions of album page design:



# Appendix



## IMPORTANT

The mains lead on this equipment may be supplied with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS 1362 fuse must be used of the same rating. If the fuse cover is detachable never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug. Fuse covers are available from your dealer.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

Should it be necessary to change the mains plug, this must be carried out by a competent person, preferably a qualified electrician.

If there is no alternative to cutting off the mains plug, ensure that you dispose of it immediately, having first removed the fuse, to avoid a possible shock hazard by inadvertent connection to the mains supply.

### IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

**Blue** : NEUTRAL

**Brown** : LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The wire coloured BLUE must be connected to the terminal marked with the letter **N** or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter **L** or coloured BROWN or RED.

On no account connect either of these wires to the terminal marked E or by the earth symbol  $\perp$  E or coloured green or green and yellow.

Alternatively, this equipment may be supplied with a rewirable plug already fitted, which may be removed if not suitable and an alternative fitted in accordance with the preceding instructions.

## SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

\*\*\*\*\*

**DO** read the operating instructions before you attempt to use the equipment.

**DO** ensure that all electrical connections (including the mains plug, extension leads and inter-connections between the pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug before making or changing connections.

**DO** consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

**DO** be careful with glass panels or doors on equipment.

**DO** route the mains lead so that it is not likely to be walked on, crushed, chafed, or subjected to excessive wear and tear or heat.

\*\*\*\*\*

**DON'T** remove any fixed cover as this may expose dangerous voltages.

**DON'T** obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.

**DON'T** allow electrical equipment to be exposed to dripping or splashing, or objects filled with liquids, such as vases, to be placed on the equipment.

**DON'T** place hot objects or naked flame sources such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.

**DON'T** use makeshift stands and **NEVER** fix legs with wood screws - to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

**DON'T** use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

**DON'T** listen to headphones at high volume, as such use can permanently damage your hearing.

**DON'T** leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch on the equipment and make sure that your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

**DON'T** continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way - switch off, withdraw the mains plug and consult your dealer.

### ABOVE ALL

--- **NEVER** let anyone especially children push anything into holes, slots or any other opening in the case - this could result in a fatal electrical shock;

--- **NEVER** guess or take chances with electrical equipment of any kind

--- **it is better to be safe than sorry!**

\*\*\*\*\*



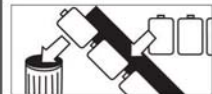
## BATTERY SAFETY GUIDELINES

Used correctly, domestic batteries are a safe and dependable source of portable power. Problems can occur if they are misused or abused — resulting in leakage or, in extreme cases, fire or explosion.

Here are some simple guidelines to safe battery use designed to eliminate any such problems.



Take care to fit your batteries correctly, observing the plus and minus marks on the battery and appliance. Incorrect fitting can cause leakage or, in extreme cases, fire or even an explosion.



Replace the whole set of batteries at one time, taking care not to mix old and new batteries or batteries of different types, since this can result in leakage or, in extreme cases, fire or even an explosion.



Store unused batteries in their packaging and away from metal objects which may cause a short-circuit resulting in leakage or, in extreme cases, fire or even an explosion.



Remove dead batteries from equipment and all batteries from equipment you know you are not going to use for a long time. Otherwise the batteries may leak and cause damage.



Never dispose of batteries in fire as this can cause them to explode. Please put dead batteries in with the normal household waste.



Never attempt to recharge ordinary batteries, either in a charger or by applying heat to them. They may leak, cause fire or even explode. There are special rechargeable batteries which are clearly marked as such.



Supervise children if they are replacing batteries themselves in order to ensure these guidelines are followed.



Remember that small button cell batteries such as used in some hearing aids, toys, games and other appliances, are easily swallowed by young children and this can be dangerous.



Keep loose button cells away from young children.



Make sure battery compartments are secure.



Seek medical advice if you believe a cell has been swallowed.

## SD Card Capacity & Approximate Number of Recordable Pictures:

Memory Card Capacity	Photo Resolution	Quality	Approximate number of Recordable Pictures	Occupied Capacity (MB)	Residual Capacity (KB)
1G	3M	Fine	911	960	16384
	5M		506	953	18841.6
	12M		253	946	27136
2G	3M	Fine	1712	1915	14438.4
	5M		997	1915	19353.6
	12M		652	1905	23654.4
4G	3M	Fine	3814	3860	14336
	5M		2131	3850	19148.8
	12M		1028	3788	26419
8G	3M	Fine	6817	7567	14336
	5M		3920	7567	18841.6
	12M		1968	7557	27545.6
16G	3M	Fine	13805	15462	14233.6
	5M		8629	15360	19046.4
	12M		4042	15360	25804.8

\*The maximum number of photos can only be displayed 9999 on the camcorder, but the actual photos can be exceeding over 10,000 according to capacity of memory card.

## SD Card Capacity & Approximate Recording Time:

Memory Card Capacity	Video Resolution	Video Quality	Approximate Recordable Time (Minutes)	Occupied Capacity (MB)	Residual Capacity (KB)
1G	QVGA	Fine	59	956	276.54
	WVGA		23	956	709.38
	720P		11	956	1483.25
	1080P		9	956	1812.86
	QVGA	Normal	67	956	243.52
	WVGA		53	956	307.84
	720P		30	956	543.86
	1080P		16	956	1019.73
2G	QVGA	Fine	116	1904	280.13
	WVGA		51	1904	637.16
	720P		23	1904	1412.82
	1080P		18	1904	1805.27
	QVGA	Normal	161	1904	201.83
	WVGA		88	1904	369.26
	720P		47	1904	691.38
	1080P		25	1904	1299.80
4G	QVGA	Fine	236	3829	276.90
	WVGA		96	3829	680.71
	720P		46	3829	1420.60
	1080P		37	3829	1766.17
	QVGA	Normal	280	3829	233.44
	WVGA		208	3829	314.17
	720P		109	3829	599.53
	1080P		51	3829	1281.34
8G	QVGA	Fine	463	7505	276.64
	WVGA		193	7505	663.65
	720P		89	7505	1439.16
	1080P		73	7505	1754.59
	QVGA	Normal	549	7505	233.27
	WVGA		414	7505	309.38
	720P		213	7505	600.60
	1080P		113	7505	1133.50
16G	QVGA	Fine	837	15257	310.27
	WVGA		395	15257	659.21
	720P		182	15257	1471.10
	1080P		148	15257	1759.36
	QVGA	Normal	958	15257	271.70
	WVGA		817	15257	318.71
	720P		429	15257	606.96
	1080P		243	15257	1071.54



The above 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.

**"Kesa is responsible for after service."**

**Kesa Electricals S.A.S., 153 rue de Courcelles 75017,  
Paris, France.**



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