AIPTEK®
@n IP Company

POCKET DV
4100

User's Manual

Welcome

Dear user, thanks for purchasing this product.
Much investment in time and effort has gone into its development, and it is our hope that it will give you many years of trouble-free service.

Safety Notice

1. Do not drop, puncture or disassemble the camera; otherwise the warranty will be voided.

2. Avoid all contact with water, and dry hands before using.

3. Do not expose the camera to high temperature or leave it in direct sunlight. Doing so may damage the camera.

4. Use the camera with care. Avoid pressing hard on the camera body.

5. For your own safety, avoid using the camera when there is a storm or lightning.

6. Avoid using batteries of different brands or types at the same time. This may lead to the potential for serious damage.

7. Remove batteries during long periods between usage, as deteriorated batteries may affect the functionality of the camera.

8. Remove batteries if they show signs of leaking or distortion.

9. Use only the accessories supplied by the manufacturer.

10. Keep the camera out of the reach of children.

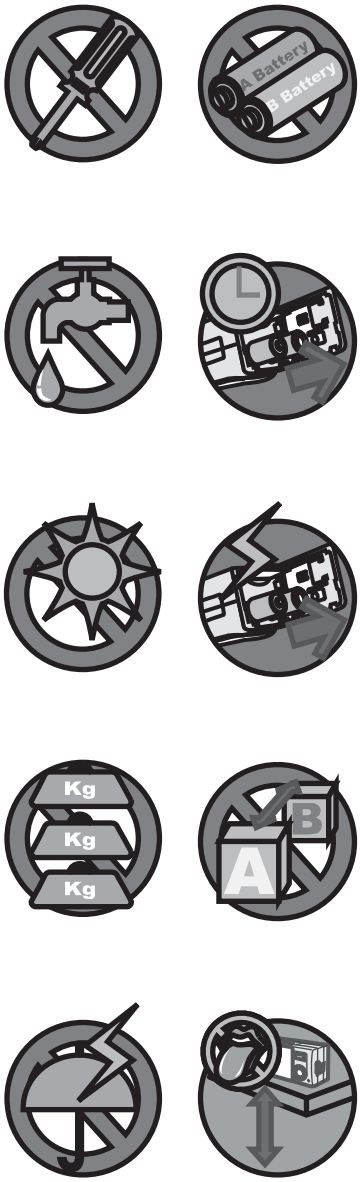


Table of Contents

WELCOME 1
SAFETY NOTICE 1
CAMERA PARTS 4

GETTING STARTED 5
Loading the batteries 5
Inserting the CF card (optional) 6
Attaching the wrist strap (optional) 7
How to open the connector cover 8
How to hold your camera 8
Using the tripod (optional) 9

BASIC OPERATIONS 10
Turning on your camera 10
Turning off your camera 10
Setting the language 11
Recording a video clip 12
Taking a still picture 13
Using the flash strobe (optional) 14
Recording a voice clip 15
Playing back your recordings 16
Playing back your recordings- Thumbnails 17
Connecting the camera to your TV 18

ADVANCED OPERATIONS 19
Changing video resolution 19
Setting video quality 20
Setting video compress method 21
Changing picture resolution 22
Setting picture quality 23
Setting self timer 24
Setting flash strobe 25

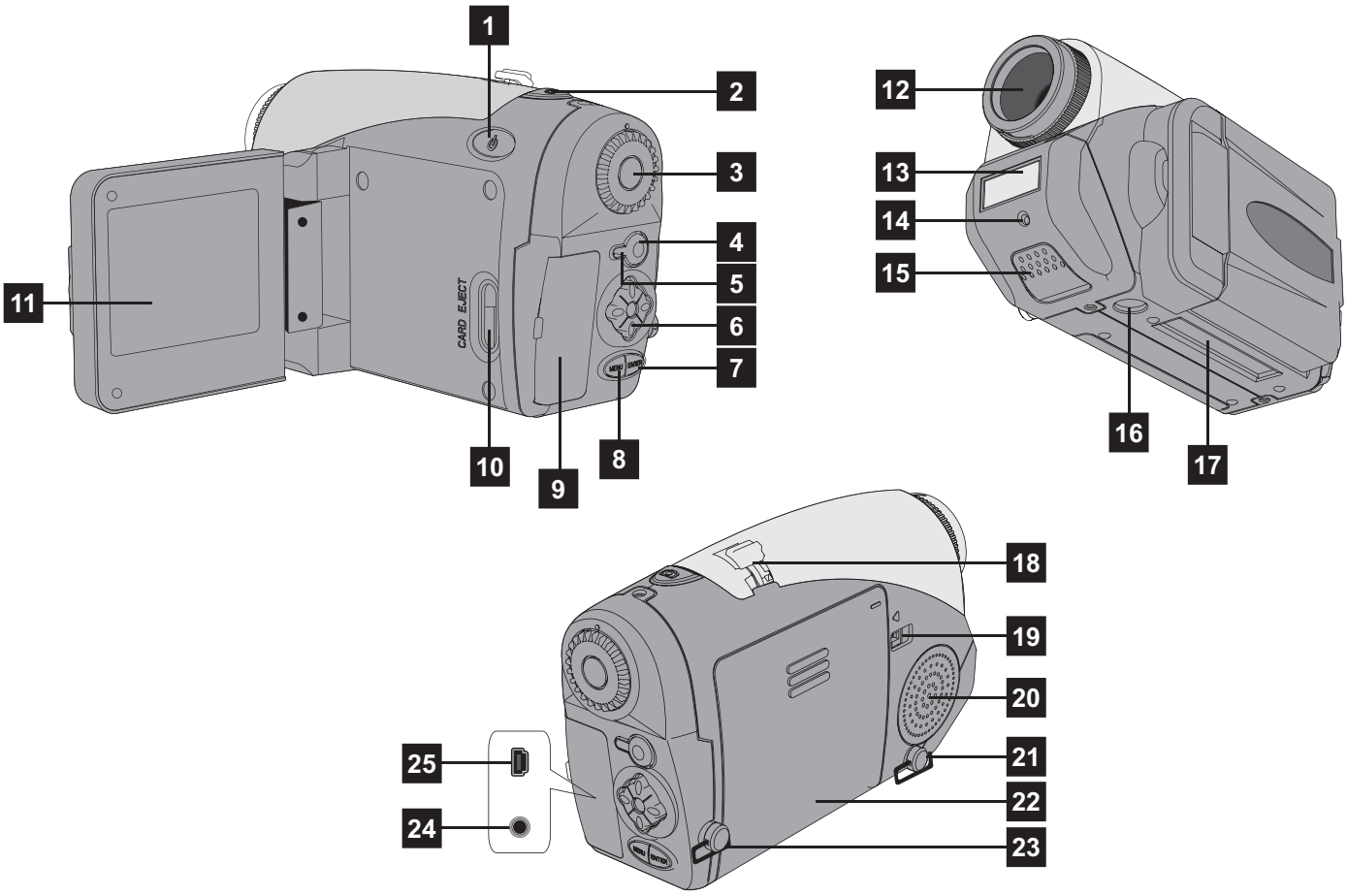
Deleting files 26
Viewing file information 27

CAMERA SETTINGS 28
Switching to Settings mode 28
Setting power auto-off 28
Setting AV output mode 29
Setting language 29
Setting timestamp 30
Setting date 30
Setting time 31
Format media 31

COPYING FILES TO YOUR PC 32
Installing the driver to your PC 32
Installing the driver to your PC (continued) 33
Connecting the camera to your PC 34
Copying files to the PC 35
Copying files to the PC (continued) 36
Viewing/Playing files on your PC 37
File location 38

TROUBLESHOOTING 39
ADDENDA 41

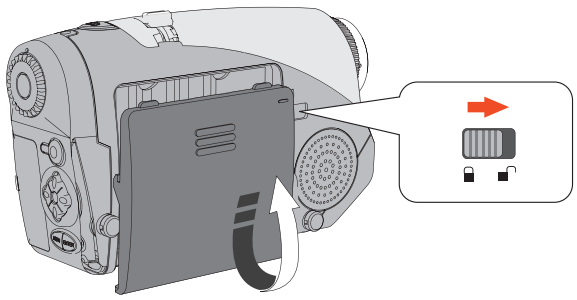
Camera Parts



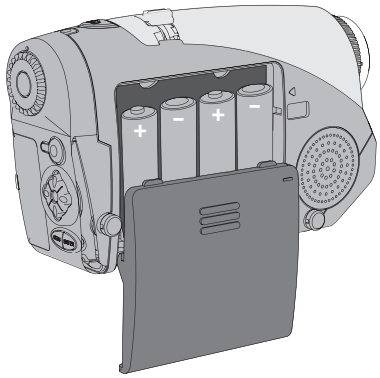
1	Power Button (⏻)	14	Front LED
2	Shutter Button (📷)	15	Microphone
3	Mode Dial	16	Tripod Socket
4	Record Button (●)	17	CF Card Slot
5	Back LED	18	Zoom Lever
6	4-Way Buttons (◆)	19	Battery Release Lever
7	Enter Button (ENTER)	20	Speaker
8	Menu Button (MENU)	21	Strap Holder (1)
9	Connector Cover	22	Battery Compartment Cover
10	Card Eject Button (▮▶)	23	Strap Holder (2)
11	LCD Display	24	TV-out Connector
12	Lens	25	USB Connector
13	Flash Strobe		

Loading the batteries

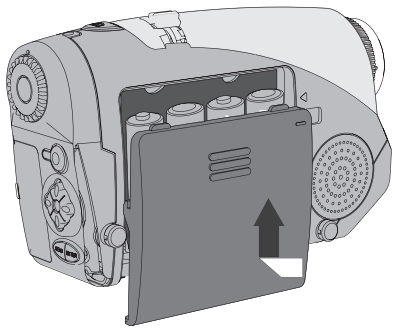
① Push the battery release lever to the unlock position, and then pull the battery compartment cover downward and lift the cover up to remove the cover.



② Place the batteries into the compartment. Note that the positive(+) and negative(-) ends cannot be reversed.



③ After the batteries are properly installed, replace the battery compartment cover.



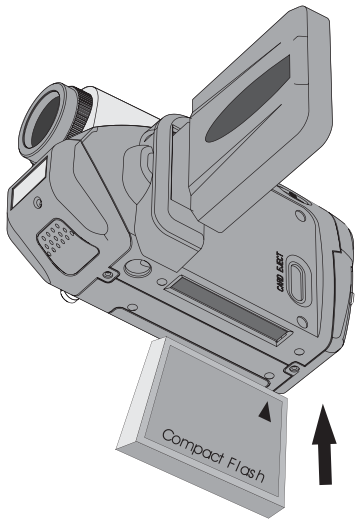
! Do not use batteries of different types or brands at the same time.

! Alkaline batteries or rechargeable NiMH batteries are recommended for high performance.

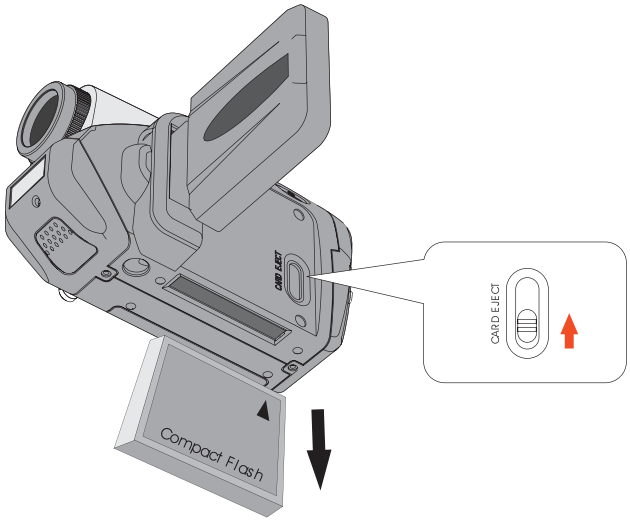
Inserting the CF card (optional)

In addition to 16MB (128Mbits) of built-in flash memory, your camera can store data on a Compact Flash (CF) card or a microdrive. The supported memory size ranges from 8MB to 1GB (1024MB).

To insert a CF card, gently push the card as indicated until the card reaches the end of the slot.



To remove the card, first make sure that the power is off. Then open the LCD panel, and push the card eject button to pop out the card or microdrive.



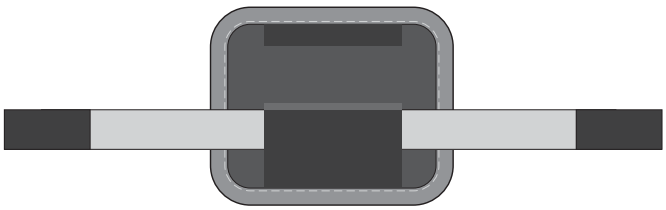
(!) Do not remove the CF card when the camera is powered on.

(!) When a CF card is inserted, the camera will use the card as the main storage media. Files stored in the camera's built-in memory will become inaccessible until the CF card is removed.

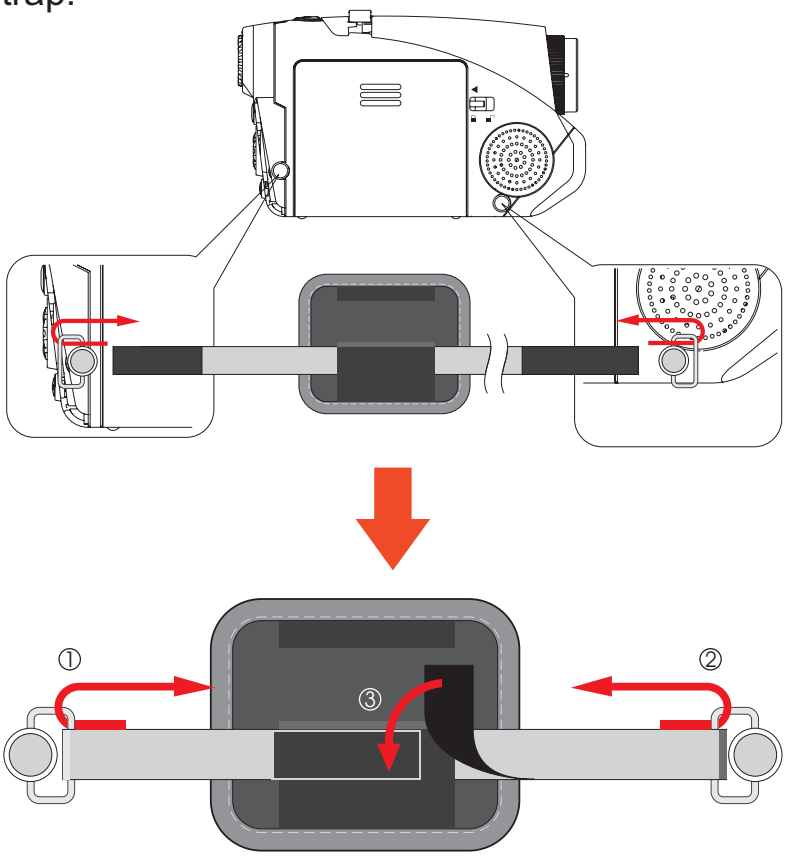
(!) If the CF card cannot be identified by your camera but is usable on other device, it is probably because of incompatible format. Please see the Troubleshooting section for more information.

Attaching the wrist strap (optional)

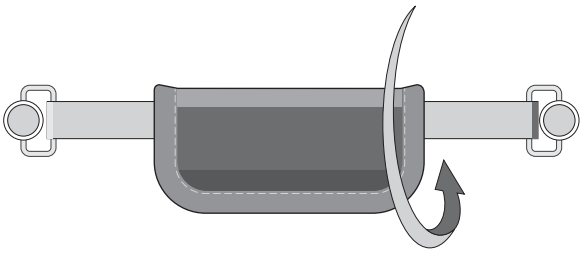
① Unfold and spread the wrist strap as illustrated.



② Follow the instructions as illustrated to thread and fasten the wrist strap.

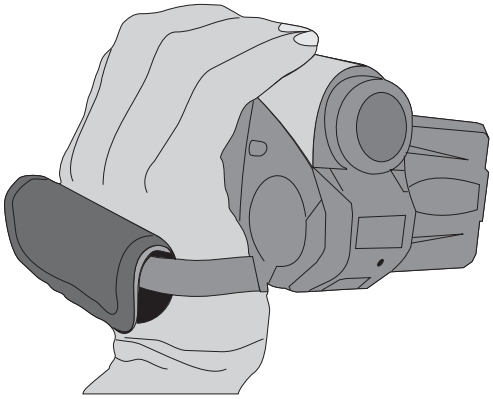


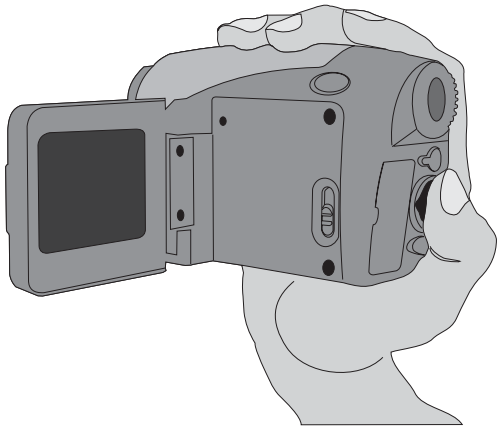
③ Fold the wrapping cover to secure the wrist strap.



How to hold your camera

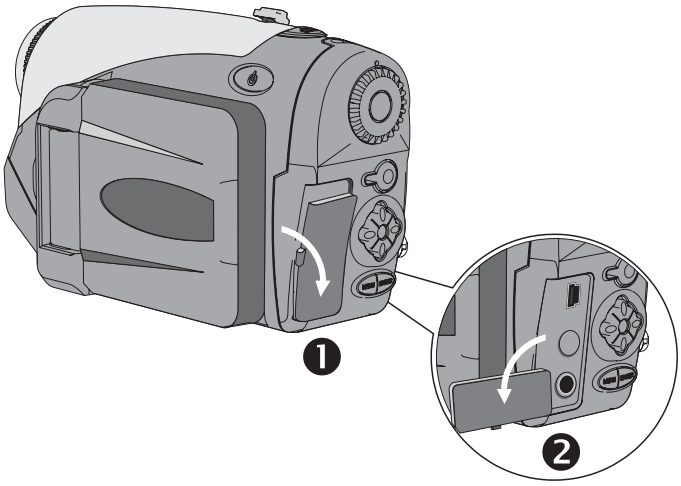
Please put your hand through the wrist strap and firmly hold the camera as illustrated. While taking still pictures or recording video clips, avoid blocking the lens to retain the best result.





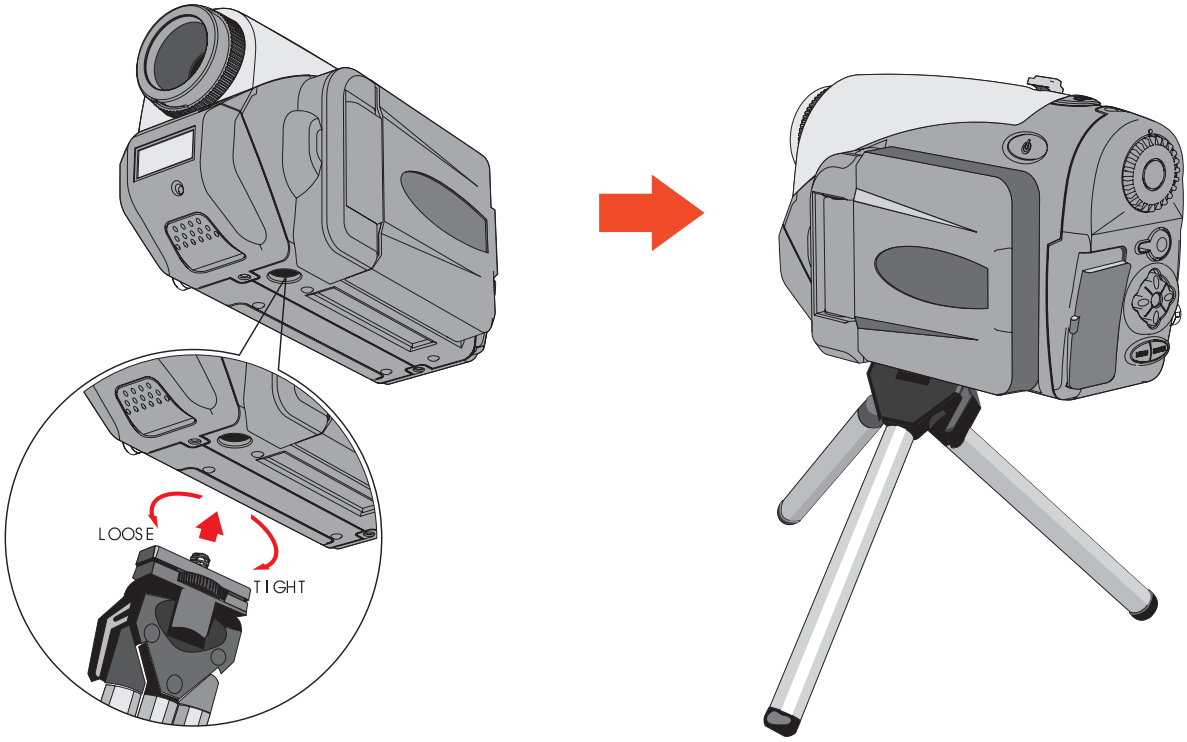
How to open the connector cover

When you want to connect the camera to your PC, TV or earphone, you need to open the connector cover. Please open the cover gently in the sequence as illustrated below.



Using the tripod (optional)

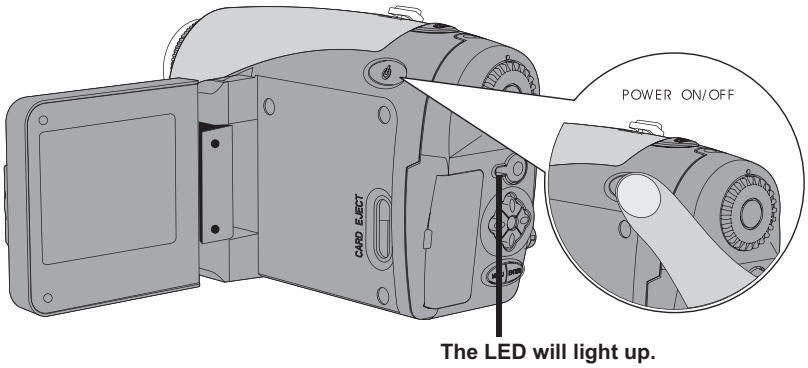
Use a tripod to minimize camera movement and ensure optimal image quality, especially while shooting self-portraits or having video conference.



BASIC OPERATIONS

Turning on your camera

Press and hold down the Power (⏻) button for 1 second to turn on the camera.

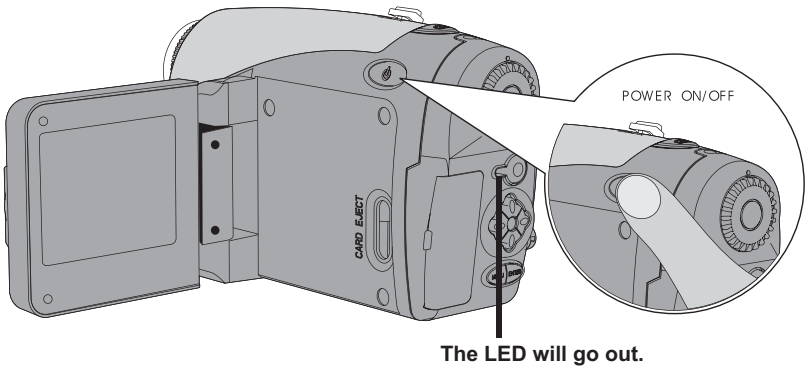


The LED will light up.

(!) If the camera is not turned on after pressing the power button, please check:
1. There are four AA batteries installed in the camera.
2. The batteries have enough power left.
3. The polar(+ -) directions of the installed batteries are correct.

Turning off your camera

Press and hold down the Power (⏻) button for 1 second to turn off the camera.

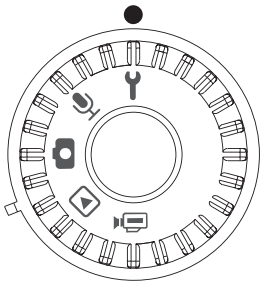


The LED will go out.

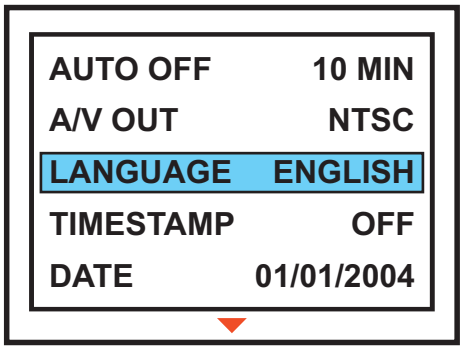
Setting the language

When you power on the camera for the first time, the LCD display may not be shown in your local language. You can set the LCD display language using the method below:

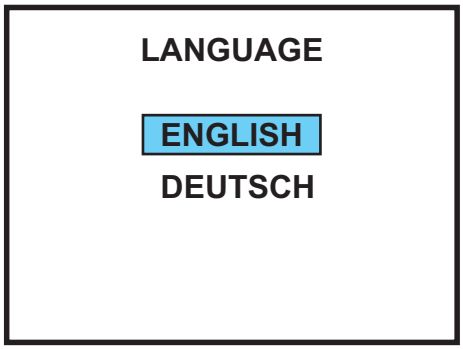
① Set the **Mode Dial** to the Settings ( ) mode, and the Settings menu will display on the screen.



② Use the **Up** or **Down** ( ) button to highlight the LANGUAGE item.



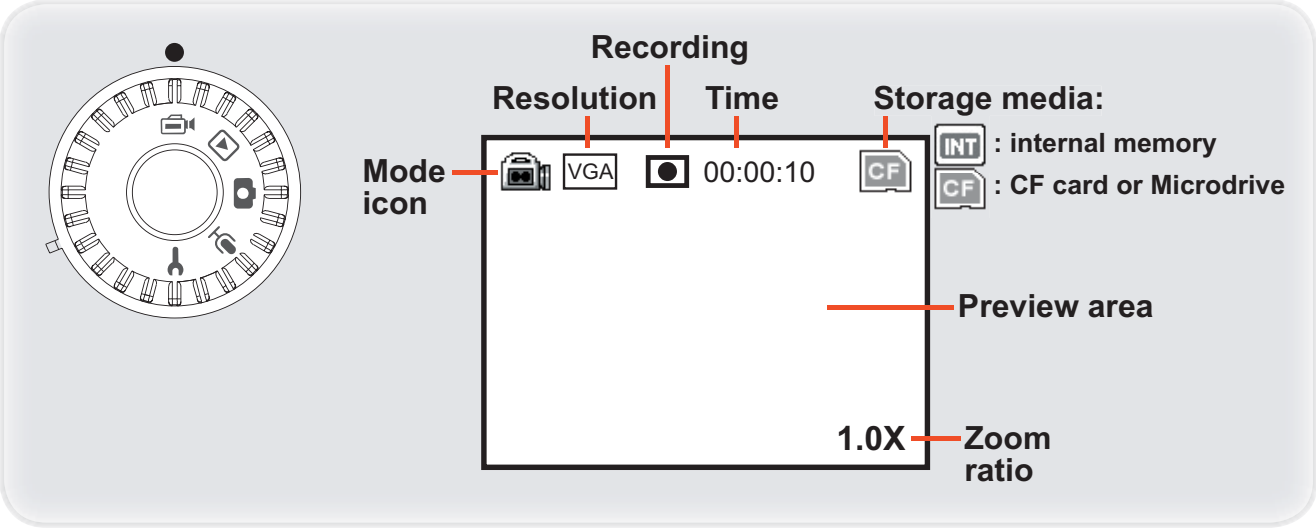
③ When the LANGUAGE item is highlighted, press the **Enter** (ENTER) button to enter the sub-menu. In the sub-menu, use the **Up** or **Down** ( ) button to select a suitable language, and then press the **Enter** (ENTER) button to adopt.



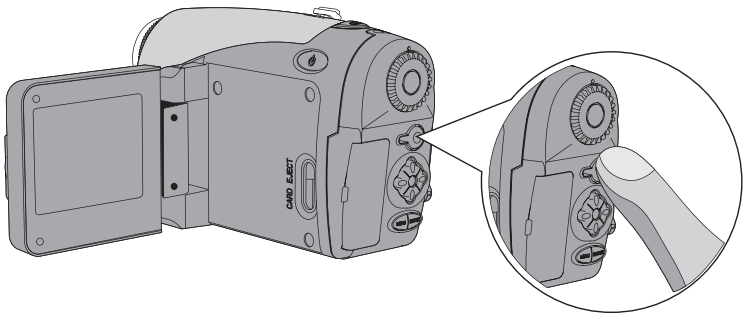
④ After all settings are done, you are ready to use the camera. Set the **Mode Dial** to other modes according to your purpose.

Recording a video clip

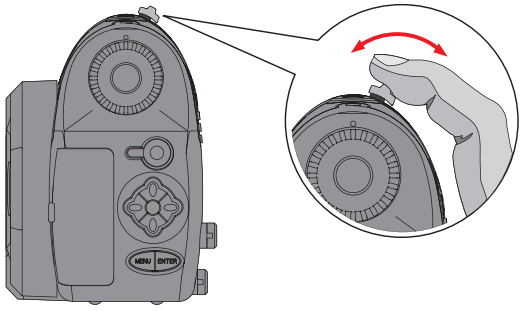
① Set the **Mode Dial** to Digital Video Camcorder (🎥) mode. The LCD display will show the screen below:



② Press the **Record** (●) button to start recording.



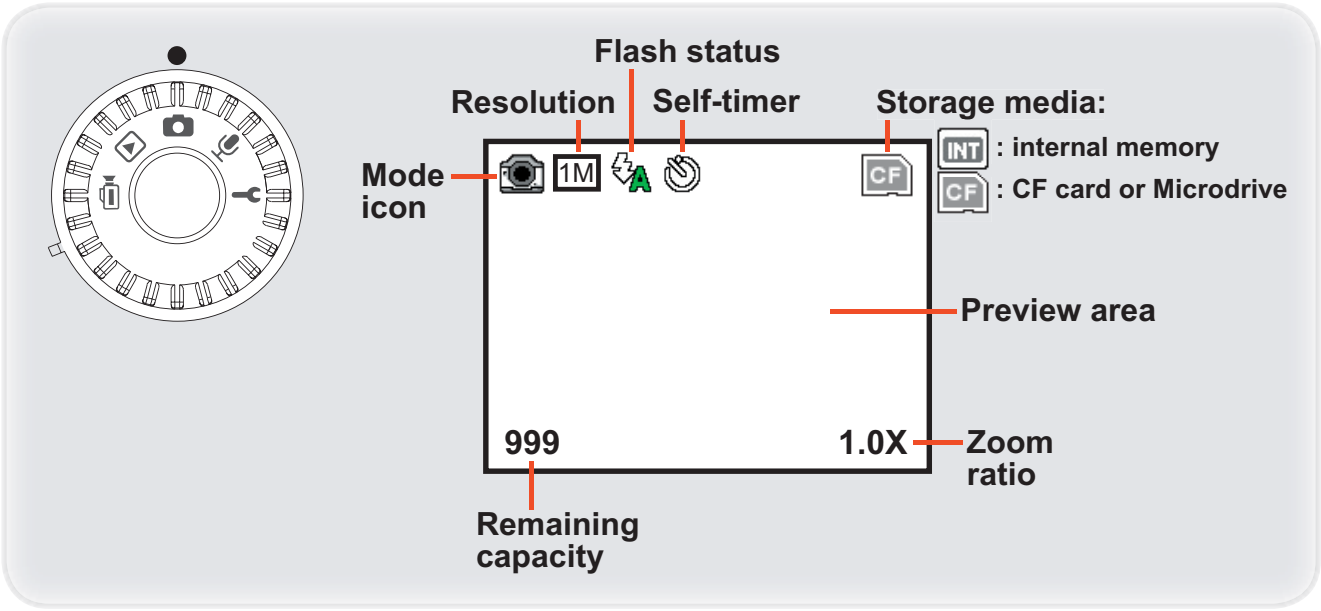
③ While recording, you can use the **Zoom Lever** to zoom in or zoom out the screen.



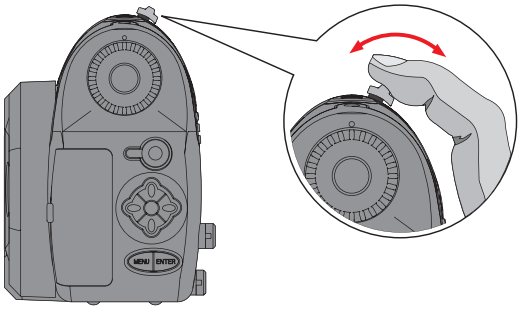
④ Press the **Record** (●) button again to stop recording.

Taking a still picture

① Set the **Mode Dial** to Digital Still Camera (📷) mode. The LCD display will show the screen below:

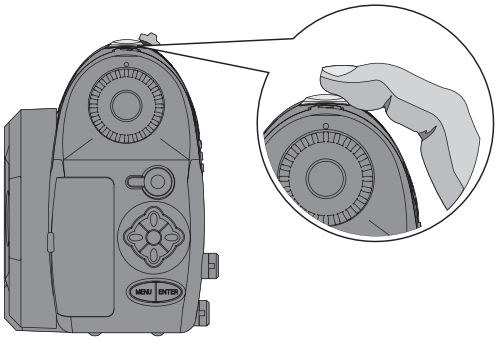


② Before shooting, you can use the **Zoom Lever** to zoom in/zoom out the screen and then choose the best view.



③ If the lighting condition is not good, you can press the **Left** (⚡) button to set the flash strobe. Please refer to page 14 for more information.

④ Press the **Shutter** (📷) button to take a still picture.



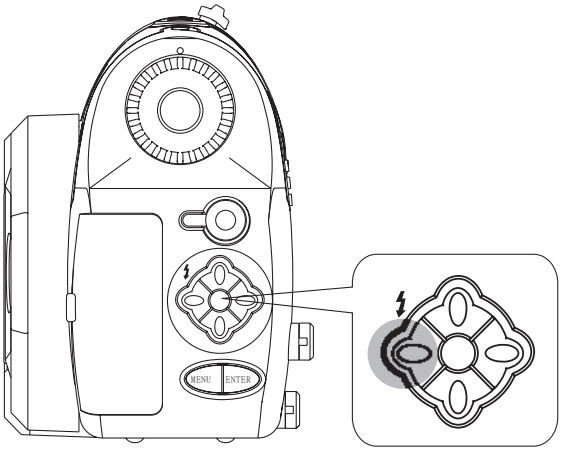
Using the flash strobe (optional)

Before taking a still picture, you can set to use the flash strobe if the lighting is not sufficient for your shooting environment.

Pressing the **Left** ( ) button repeatedly will switch the flash mode:
On ( )**:** The flash is enabled regardless of the lighting condition.

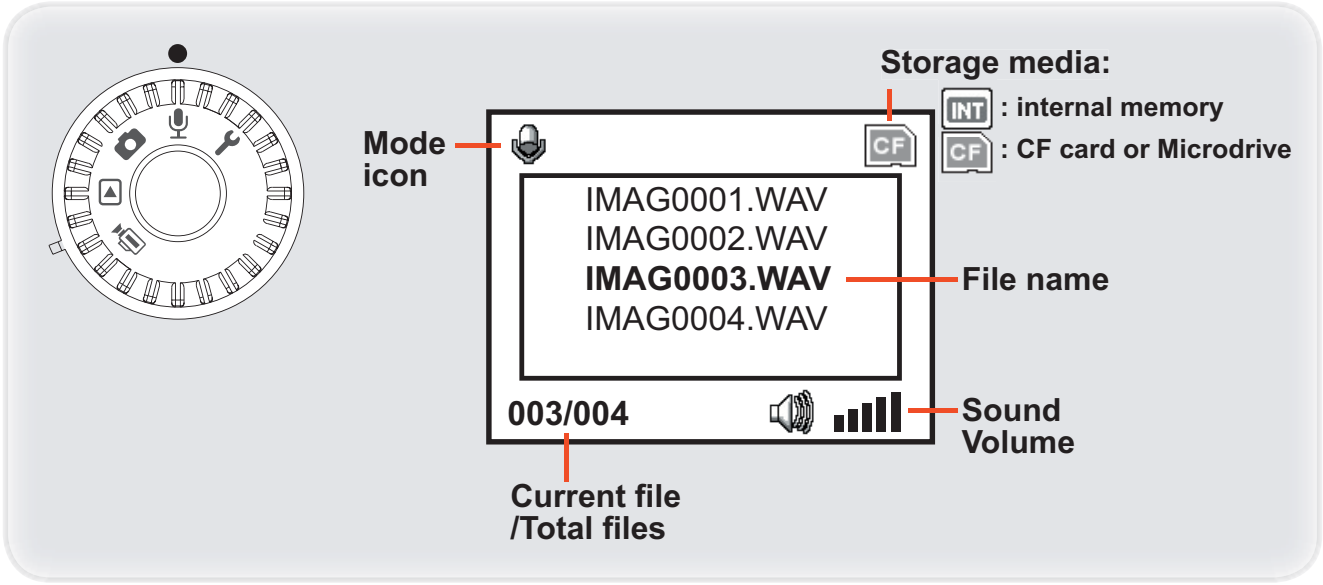
Off ( )**:** The flash is disabled.

Auto ( )**:** The flash automatically fires when the lighting is insufficient.

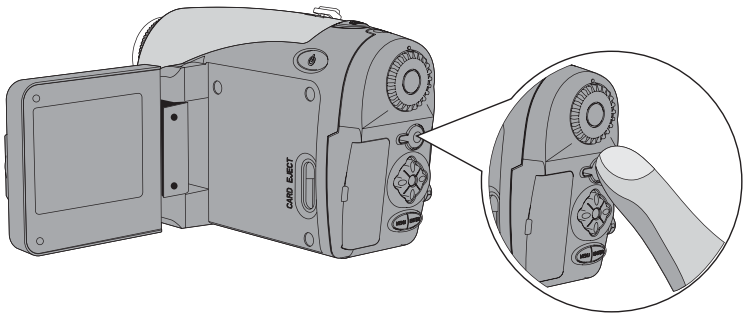


Recording a voice clip

① Set the **Mode Dial** to Voice Recording ( ) mode. The LCD display will show the screen below:



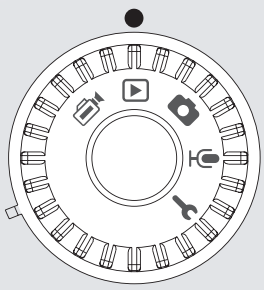
② Press the **Record** (●) button to start recording.

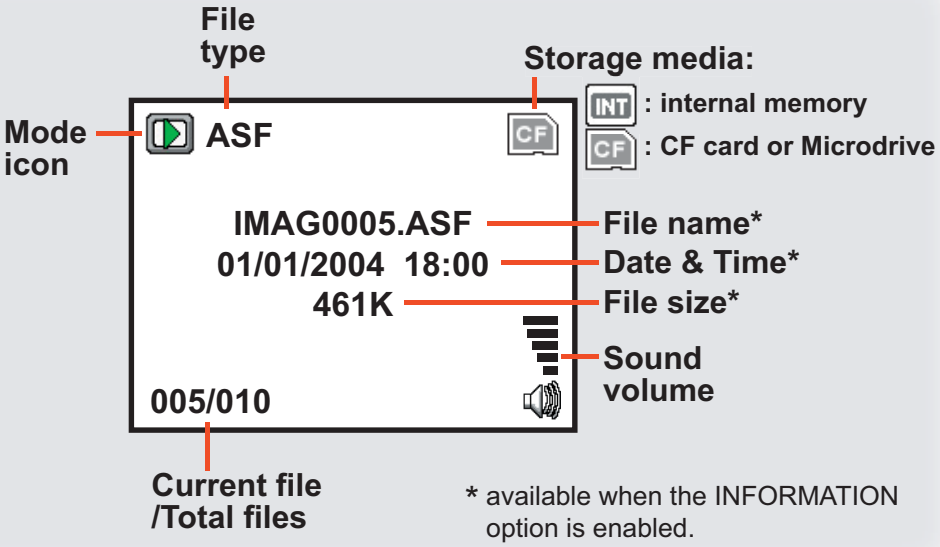


③ Press the **Record** (●) button again to stop recording.

Playing back your recordings

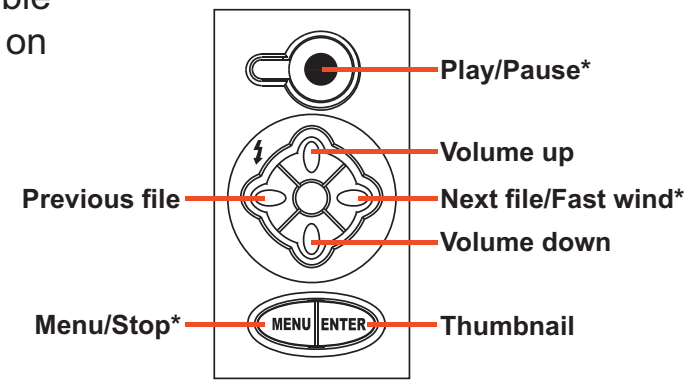
① Set the **Mode Dial** to Playback (▶) mode. The last recorded file will be displayed in the LCD screen:





② Press the **Left** or **Right** (◀▶) button to shift between files. ASF, AVI, and WAV files can be played back by pressing the **Record** (●) button. JPG pictures are reviewed as they are showed on the screen.

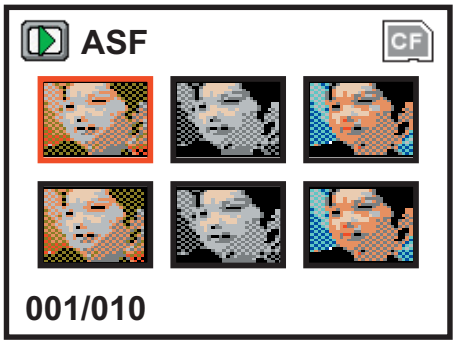
③ In Playback (▶) mode, the available function buttons are as illustrated on the right:



* available while playing files

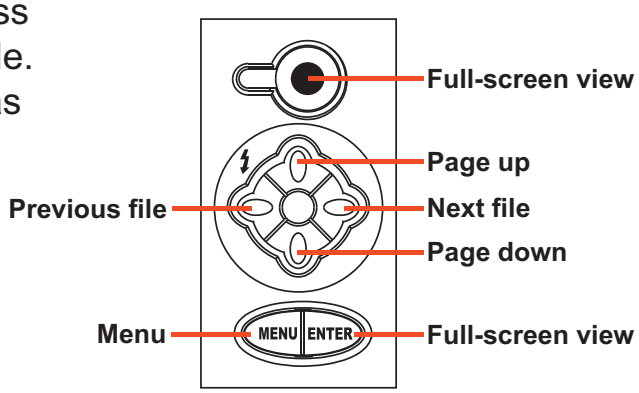
Playing back your recordings- Thumbnails

① In Playback mode, if you press the **Enter** (ENTER) button, the full-screen display will switch to thumbnails view, as illustrated on the right:



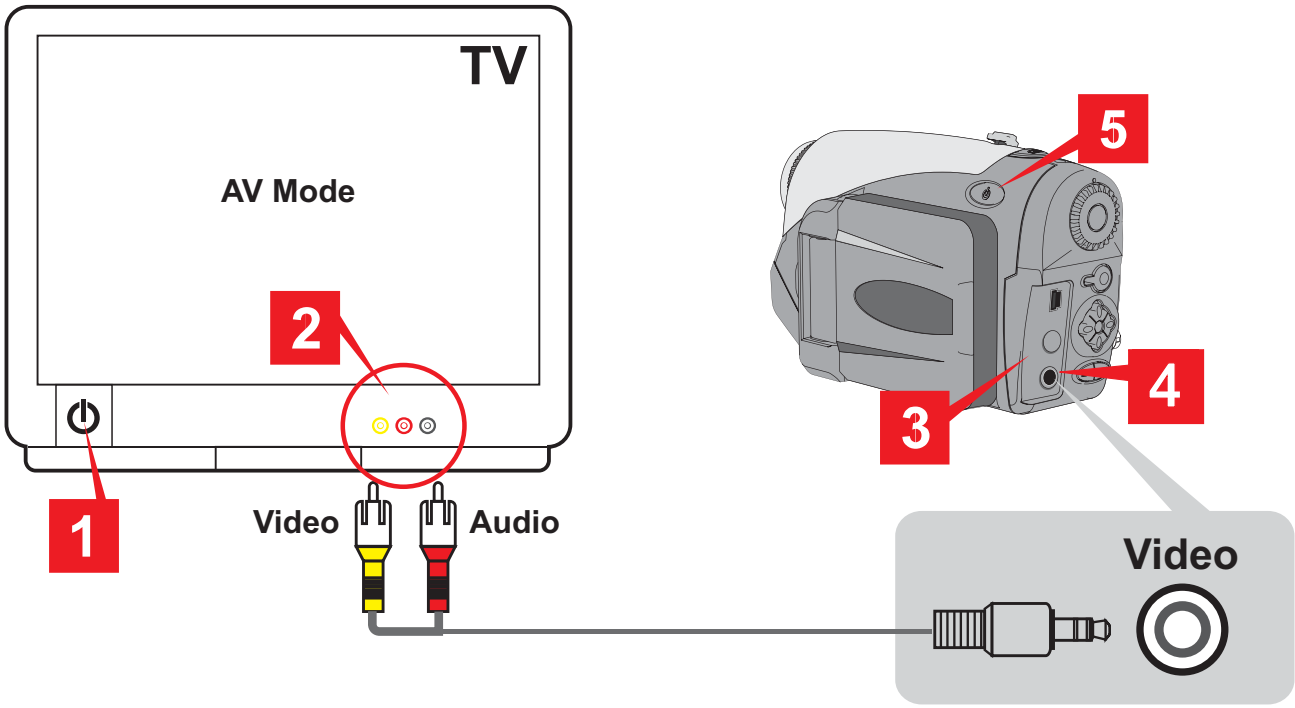
② In thumbnails view, you can press the **Up** or **Down** (▲▼) button to scroll pages. In the same page, you can use the **Left** and **Right** (◀▶) buttons to shift between the files.

③ If you want to play a file in thumbnails view, please press the **Record** (●) button or **Enter** (ENTER) button to switch to full-screen view. Then press the **Record** (●) button to play the file. The available function buttons are as illustrated on the right:



Connecting the camera to your TV

Connect your camera and TV via an AV cable for real-time display. You can display your video clips, still pictures, and audio recordings directly on your TV screen to share them with your friends and family members.



1. Turn on your TV and switch to AV mode.
2. Connect the audio and video ends of the AV cable to your TV.
3. Open the connector cover of your camera.
4. Connect the other end of the video cable to your camera.
5. Turn on the camera.

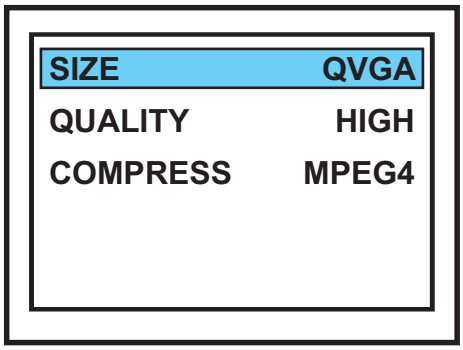
! For more details on selecting the A/V options, please refer to page 29.

Changing video resolution

Before recording a video clip, you can change the resolution to suit your viewing preferences:

① While in Digital Video Camcorder (🎥) mode, press the **Menu** (MENU) button.

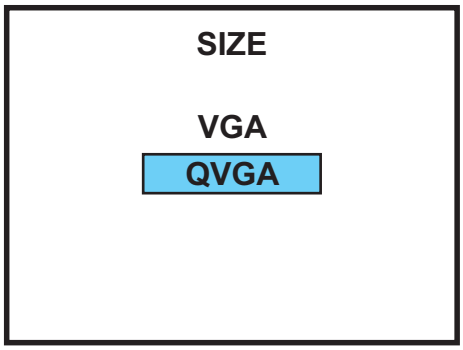
② A menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight the SIZE item. Once the SIZE item is highlighted, press the **Enter** (ENTER) button.



③ A sub-menu will appear as illustrated on the right. Press the **Up** or **Down** (▲▼) button to select an item and then press the **Enter** (ENTER) button to apply.

The available options are:
VGA: The resolution of the video clip is 640x480.

QVGA: The resolution of the video clip is 320x240.



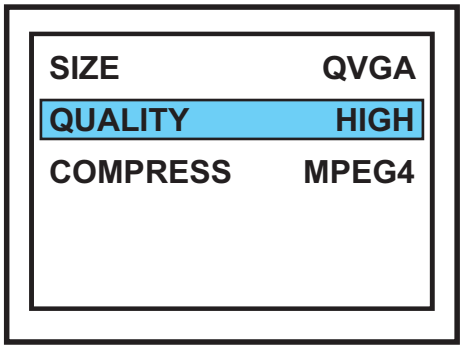
! Press the **Menu** (MENU) button to cancel the action or exit the menu.

Setting video quality

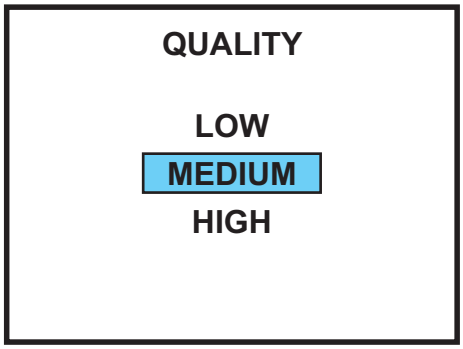
Before recording a video clip, you can change the video quality to serve your purpose:

① While in Digital Video Camcorder (🎥) mode, press the **Menu** (MENU) button.

② A menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight the QUALITY item. Once the QUALITY item is highlighted, press the **Enter** (ENTER) button.



③ A sub-menu will appear as illustrated on the right. Press the **Up** or **Down** (▲▼) button to select an item and then press the **Enter** (ENTER) button to apply.



The available options are:
LOW: the most memory-saving option. This option is recommended for shooting still subjects.

MEDIUM: the mediocre option. This option is ideal for most conditions.

HIGH: the most memory-demanding option. This option is recommended for shooting high-speed movement or important events.

! Press the **Menu** (MENU) button to cancel the action or exit the menu.

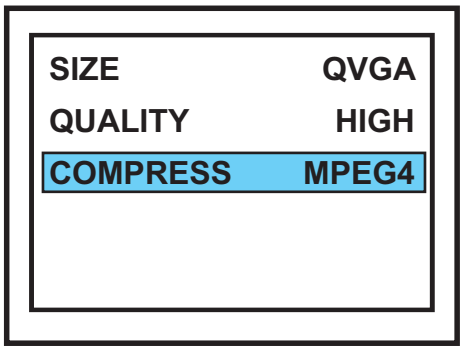
Setting video compress method

Two different methods are available for image compression. You can choose the one that best fit the shooting condition:

① While in Digital Video Camcorder (🎥) mode, press the **Menu** (MENU) button.

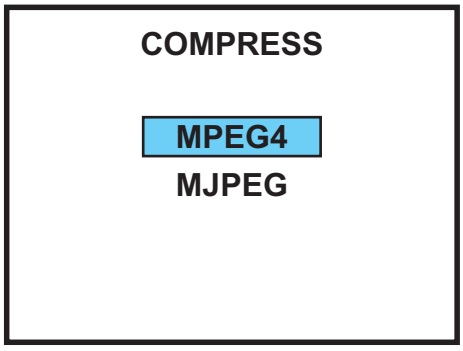
---

② A menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight the COMPRESS item. Once the COMPRESS item is highlighted, press the **Enter** (ENTER) button.



---

③ A sub-menu will appear as illustrated on the right. Press the **Up** or **Down** (▲▼) button to select an item and then press the **Enter** (ENTER) button to apply.



The available options are:
MPEG4: Selecting this option can compress the video clip to a smaller file to save memory. The video clip will be in .ASF format.

MJPEG: Selecting this option will retain a less-compressed image quality, but the file size will be larger. The video clip will be in .AVI format.

! Press the **Menu** (MENU) button to cancel the action or exit the menu.

! The AVI file recorded by the camera may not be viewed on Windows 98/ME systems due to incompability of file format.

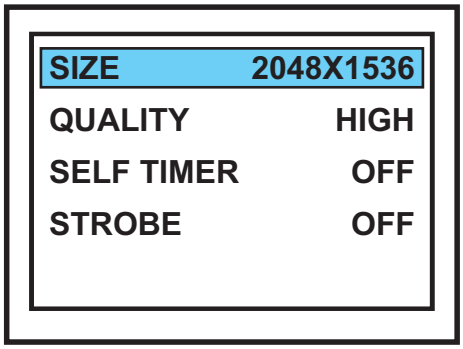
Changing picture resolution

Changing the resolution will affect the number of pictures that can be taken. The higher the resolution, the more memory-demanding the images will be.

① While in Digital Still Camera (📷) mode, press the **Menu** (MENU) button.

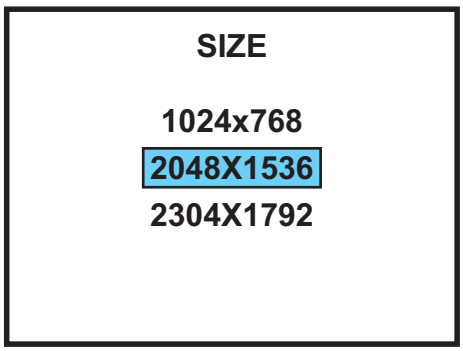
---

② A menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight the SIZE item. Once the SIZE item is highlighted, press the **Enter** (ENTER) button.



---

③ A sub-menu will appear as illustrated on the right. Press the **Up** or **Down** (▲▼) button to select an item and then press the **Enter** (ENTER) button to apply.



The available options are:
1024X768: the most memory-saving option. This resolution is suitable for viewing on the computer.

2048X1536: the mediocre option. This resolution is ideal for developing 3x5 or 4x6 pictures.

2304X1792: the most memory-demanding option. This resolution is ideal for developing 4x6 pictures.

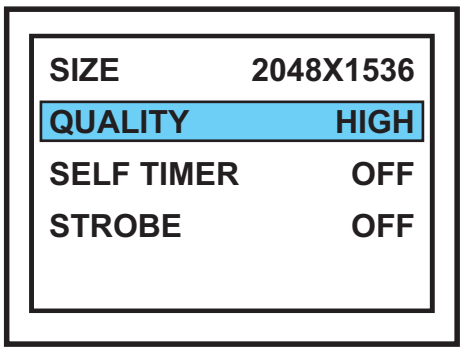
! Press the **Menu** (MENU) button to cancel the action or exit the menu.

Setting picture quality

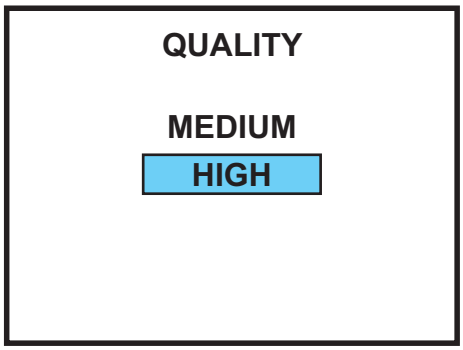
Changing the quality will affect the number of pictures that can be taken. The higher the resolution, the more memory-demanding the images will be.

① While in Digital Still Camera ( ) mode, press the **Menu** (MENU) button.

② A menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight the QUALITY item. Once the QUALITY item is highlighted, press the **Enter** (ENTER) button.



③ A sub-menu will appear as illustrated on the right. Press the **Up** or **Down** (▲▼) button to select an item and then press the **Enter** (ENTER) button to apply.



The available options are:
MEDIUM: Selecting this option will compress the picture into a smaller file, thus saving memory space.

HIGH: Selecting this option will retain the quality of the image, but the file size will be larger.

! Press the **Menu** (MENU) button to cancel the action or exit the menu.

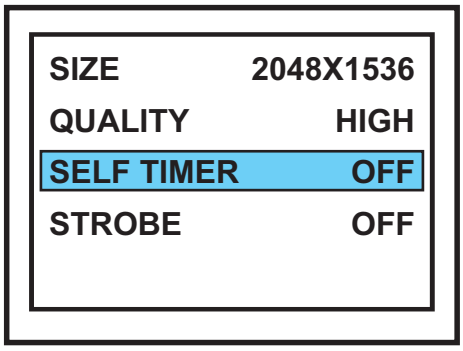
Setting self timer

This function comes in handy when you want to take pictures like self portraits or other preset scenes.

① While in Digital Still Camera (📷) mode, press the **Menu** (MENU) button.

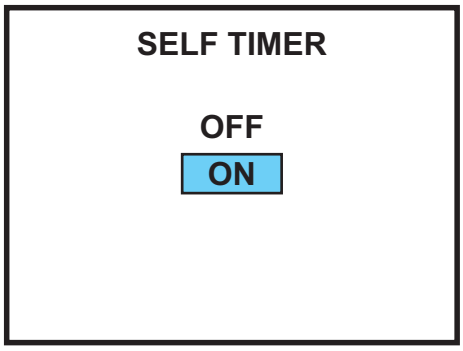
---

② A menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight the SELF TIMER item. Once the SELF TIMER item is highlighted, press the **Enter** (ENTER) button.



---

③ A sub-menu will appear as illustrated on the right. Press the **Up** or **Down** (▲▼) button to select an item and then press the **Enter** (ENTER) button to apply.



The available options are:
OFF: Disable the self timer function.

ON: Enable the self timer function.

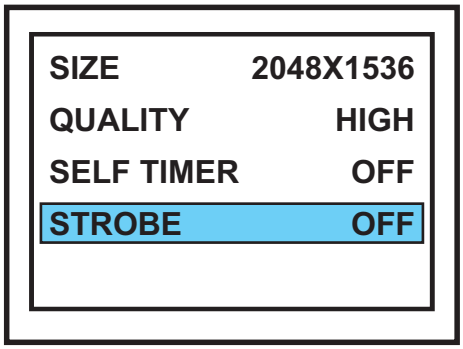
! Press the **Menu** (MENU) button to cancel the action or exit the menu.

Setting flash strobe

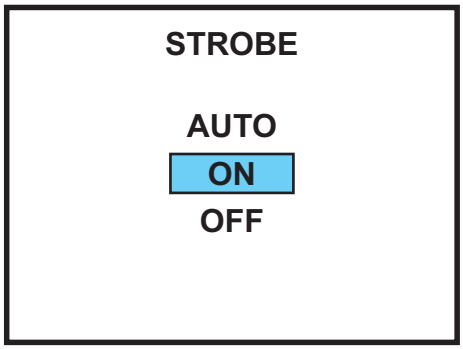
The flash strobe is useful when shooting in a dark environment, or shooting a subject that does not get enough natural lighting.

① While in Digital Still Camera ( ) mode, press the **Menu** (MENU) button.

② A menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight the STROBE item. Once the STROBE item is highlighted, press the **Enter** (ENTER) button.



③ A sub-menu will appear as illustrated on the right. Press the **Up** or **Down** (▲▼) button to select an item and then press the **Enter** (ENTER) button to apply.



The available options are:
AUTO: The flash strobe automatically fires when the lighting is insufficient.

ON: Enable the self timer function.

OFF: Disable the flash strobe function.

! Press the **Menu** (MENU) button to cancel the action or exit the menu.

! The mode of flash strobe can also be switched by pressing the **Left** (◀) button. Please see page 14 for more information.

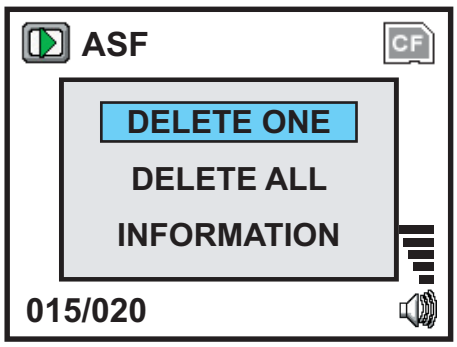
Deleting files

When you review files in the Playback mode, you can bring up the menu to delete a file or all files.

① While in Playback (▶) mode, press the **Menu** (MENU) button.

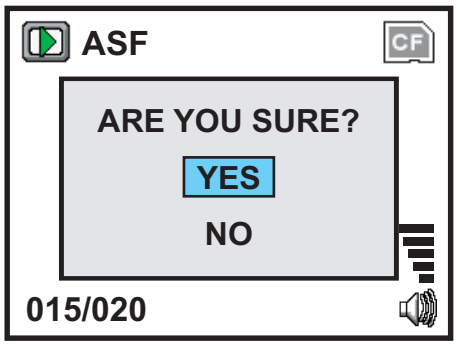
---

② A menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight the DELETE ONE or DELETE ALL item. Once the desired item is highlighted, press the **Enter** (ENTER) button.



---

③ A sub-menu will appear as illustrated on the right. Press the **Up** or **Down** (▲▼) button to select YES or NO, and then press the **Enter** (ENTER) button to apply.



! Press the **Menu** (MENU) button to cancel the action or exit the menu.

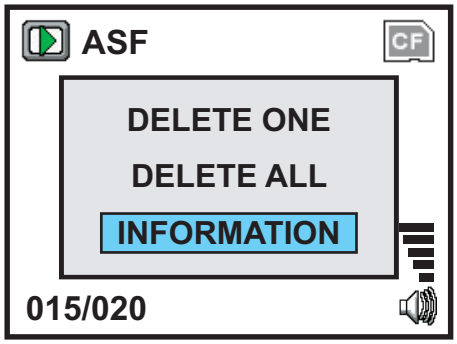
! Once the files are deleted, they are forever gone and cannot be restored.

Viewing file information

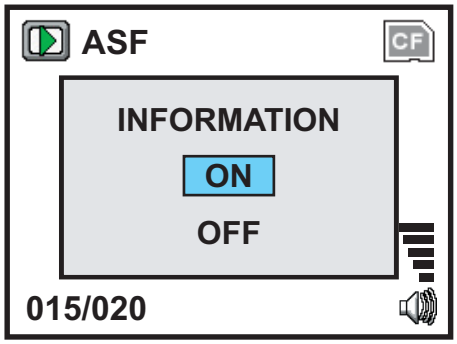
Enabling the INFORMATION option allows you to view file name, recorded date, and file size in Playback mode. Please refer to page 16 for the screen display.

① While in Playback (▶) mode, press the **Menu** (MENU) button.

② A menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight the INFORMATION item. Once the INFORMATION item is highlighted, press the **Enter** (ENTER) button.



③ A sub-menu will appear as illustrated on the right. Press the **Up** or **Down** (▲▼) button to select ON or OFF, and then press the **Enter** (ENTER) button to apply.

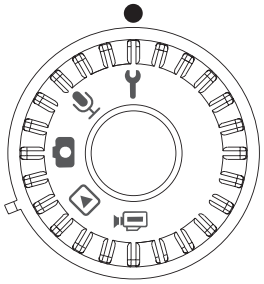


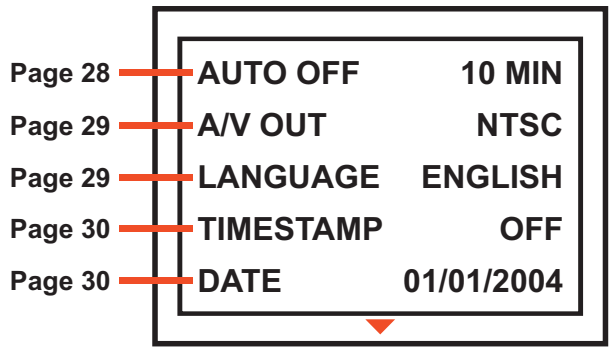
! Press the **Menu** (MENU) button to cancel the action or exit the menu.

CAMERA SETTINGS

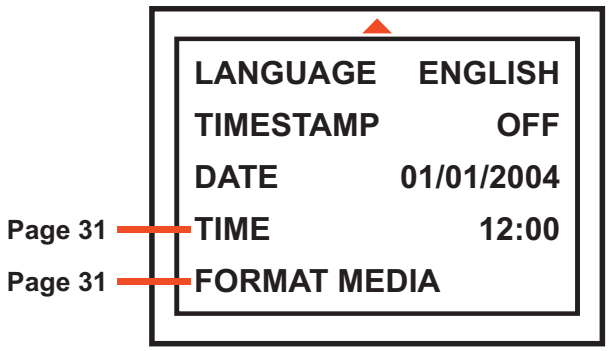
Switching to Settings mode

Set the **Mode Dial** to Settings mode, and you can fine tune several functions of the camera. When you set the **Mode Dial** to the Settings mode, the settings menu will display. For details on each setting, please refer to the corresponding page.





menu page 1

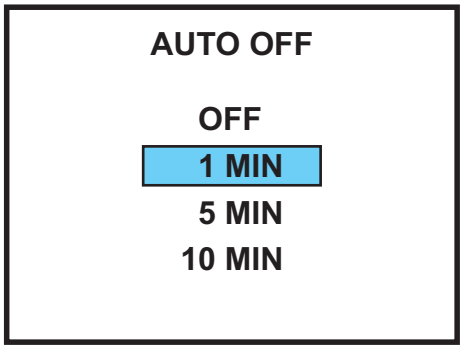


menu page 2

Setting power auto-off

① While in Settings mode, use the **Up** or **Down** (▲▼) button to highlight the AUTO OFF item, and then press the Enter (ENTER) button to enter the sub-menu.

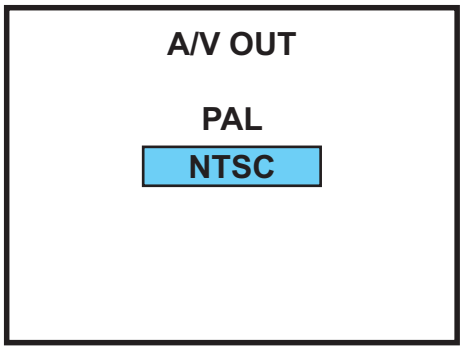
② A sub-menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight the desired item, and then press the **Enter** (ENTER) button to apply.



Setting AV output mode

① While in Settings mode, use the **Up** or **Down** (▲▼) button to highlight the A/V OUT item, and then press the Enter (ENTER) button to enter the sub-menu.

② A sub-menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight the desired item, and then press the **Enter** (ENTER) button to apply.

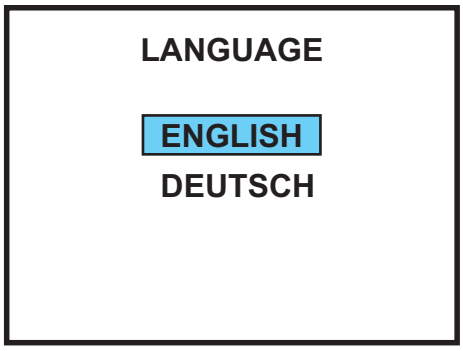


! If you travel to another country, the system setting may not suit the country you are staying in. For more details on A/V system settings, please refer to page 39.

Setting language

① While in Settings mode, use the **Up** or **Down** (▲▼) button to highlight the LANGUAGE item, and then press the Enter (ENTER) button to enter the sub-menu.

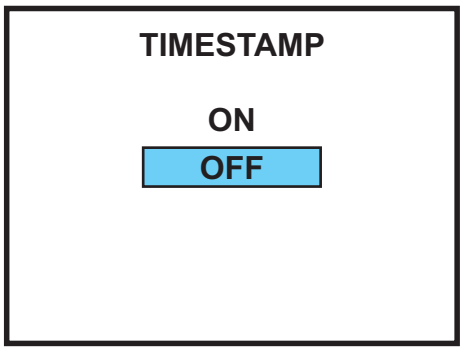
② A sub-menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight the desired item, and then press the **Enter** (ENTER) button to apply.



Setting timestamp

① While in Settings mode, use the **Up** or **Down** (▲▼) button to highlight the TIMESTAMP item, and then press the Enter (ENTER) button to enter the sub-menu.

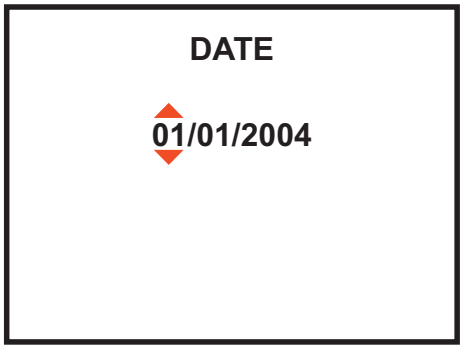
② A sub-menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight ON or OFF, and then press the **Enter** (ENTER) button to apply.



Setting date

① While in Settings mode, use the **Up** or **Down** (▲▼) button to highlight the DATE item, and then press the Enter (ENTER) button to enter the sub-menu.

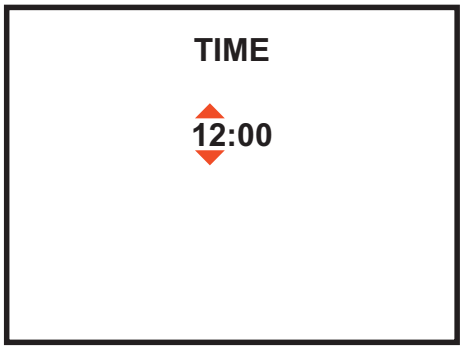
② A sub-menu as illustrated on the right will appear. Press the **Left** or **Right** (◀▶) button to shift between items. Press the **Up** or **Down** (▲▼) button to adjust the value, and then press the **Enter** (ENTER) button to apply.



Setting time

① While in Settings mode, use the **Up** or **Down** (▲▼) button to highlight the TIME item, and then press the Enter (ENTER) button to enter the sub-menu.

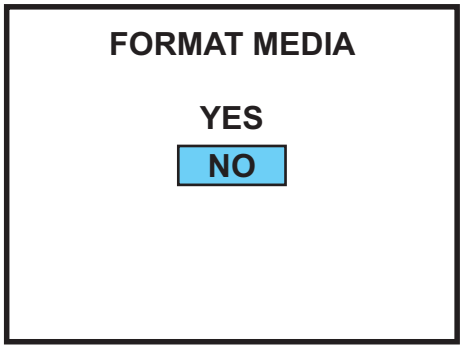
② A sub-menu as illustrated on the right will appear. Press the **Left** or **Right** (◀▶) button to shift between items. Press the **Up** or **Down** (▲▼) button to adjust the value, and then press the **Enter** (ENTER) button to apply.



Formatting media

① While in Settings mode, use the **Up** or **Down** (▲▼) button to highlight the FORMAT MEDIA item, and then press the Enter (ENTER) button to enter the sub-menu.

② A sub-menu as illustrated on the right will appear. Press the **Up** or **Down** (▲▼) button to highlight YES or NO, and then press the **Enter** (ENTER) button to apply.



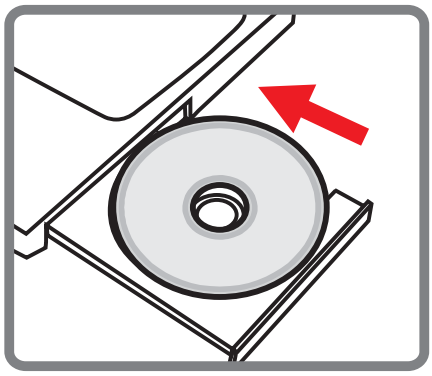
! Formatting the media will erase all files stored on the media.

COPYING FILES TO YOUR PC

Installing the driver to your PC

You need to install the driver included in the accessory CD to ensure that video clips can be played back on your PC.

① Turn on your computer. Then place the accessory CD into the CD-ROM drive. The setup screen will automatically display.



! Do not connect the USB cable to your computer now.

! Shut down all other applications running on your computer.

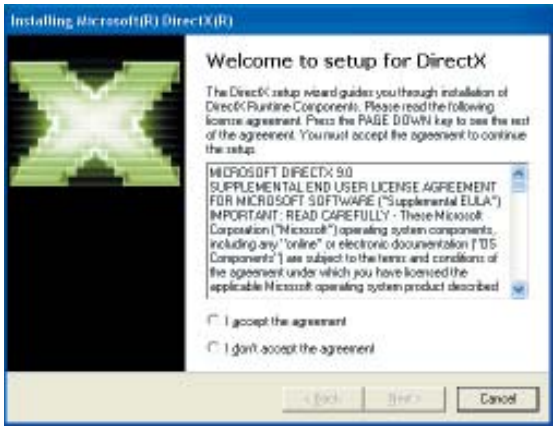
! If the title screen does not appear automatically, please double-click on **My Computer** shortcut on the desktop and then the CD-ROM drive. Then browse to the folder "\DV 4100 Driver" and start the *Setup.exe* program manually.

② Upon seeing the setup screen, click on the corresponding item to launch the installation of the driver.

Installing the driver to your PC (continued)

③ The **Install Shield Wizard** will then appear and automatically install the program. Please click on **Next** and follow the on-screen instructions to complete the installation.

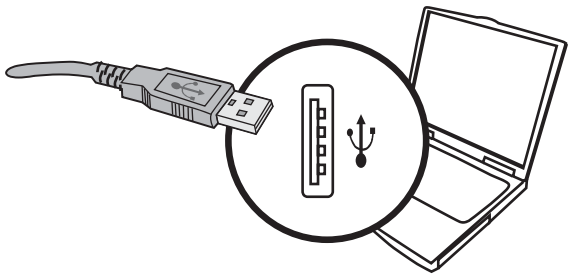
④ If **Direct X 9.0** or above does not exist in your computer, you will see this prompting message. Please click **Next** and follow the on-screen instructions to complete the installation.



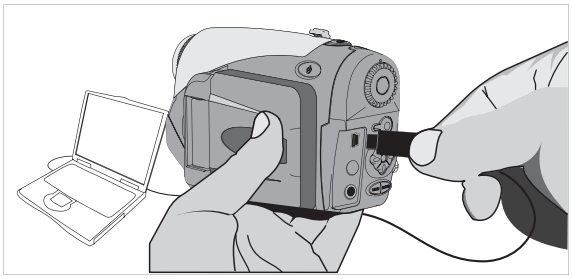
⑤ After the installation is completed, you may need to restart your computer for the driver to take effect.

Connecting the camera to your PC

① Turn on your computer, and then connect the USB cable to the USB port of your computer. Make sure the cable and the port are correctly aligned.



② Connect the other end of the USB cable to your camera.

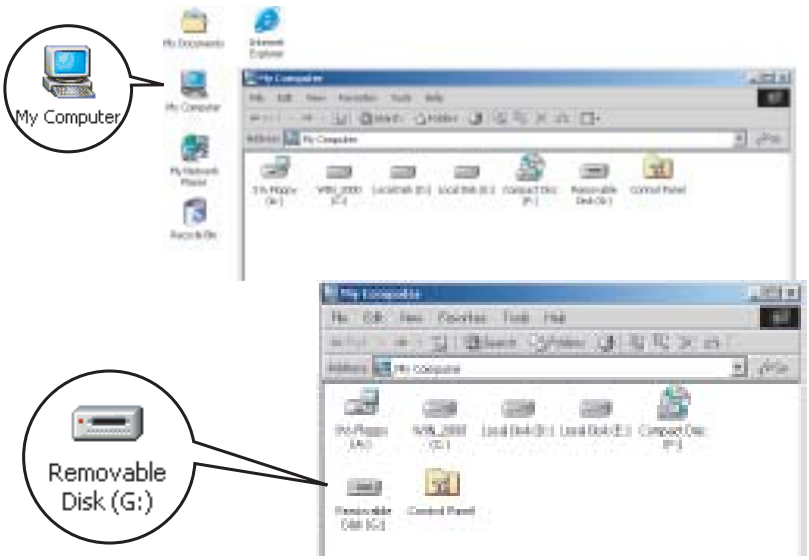


! **Notice for Windows 2000/XP/ME users:**
When you want to disconnect the camera from the computer, please follow these steps:
1. Double-click on the system tray.
2. Click (USB Disk), and then click Stop.
3. When the confirmation screen appears, select the camera and click OK.
4. Follow the on-screen instructions to safely disconnect the camera from your computer.

Copying files to the PC

① This step varies depending on your operation system:
For Windows XP users:
After the camera is connected to your computer, a dialogue window will appear automatically. Please select the item **Open folder to view files using Windows Explorer** and click **OK**.

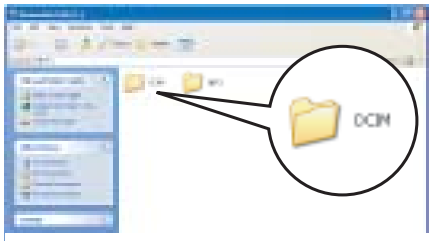
For Windows 2000/ME/98SE users:
Double-click on **My Computer**. Then double-click on the icon of the removable disk that has just appeared.



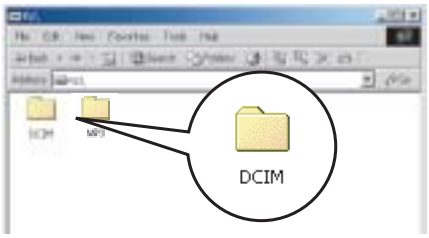
! Some users may find two removable disks appear in **My Computer**. That is because the OS detects two storage media in the camera (the internal memory and the CF card). If you can not find your files in one of the disks, please try to find them in the other disk.

Copying files to the PC (continued)

② Double-click on the **DCIM** file folder.



Windows XP



Windows 2000/ME/98 SE

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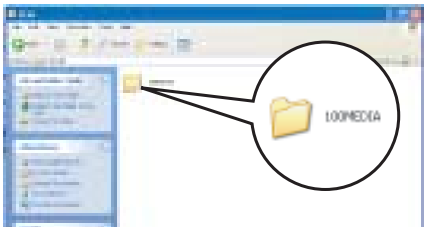
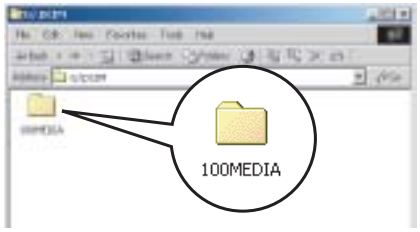
③ Double-click on the **100MEDIA** file folder.



Windows XP



Windows 2000/ME/98 SE

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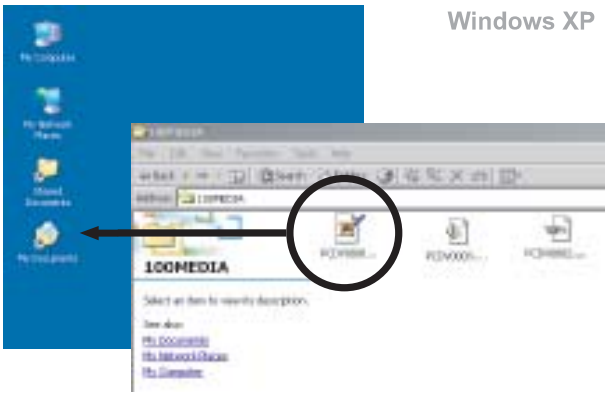
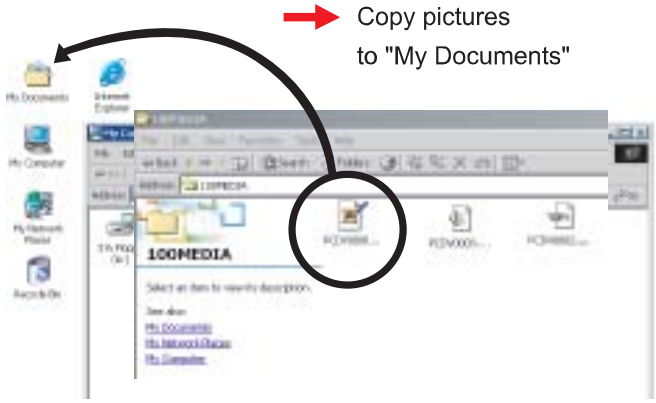
④ Drag the target file into My Documents or the destination folder.

Windows XP

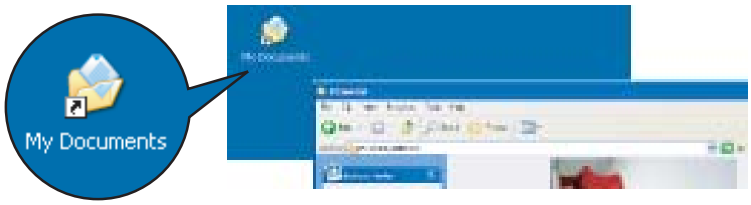


Copy pictures to "My Documents"



Viewing/Playing files on your PC

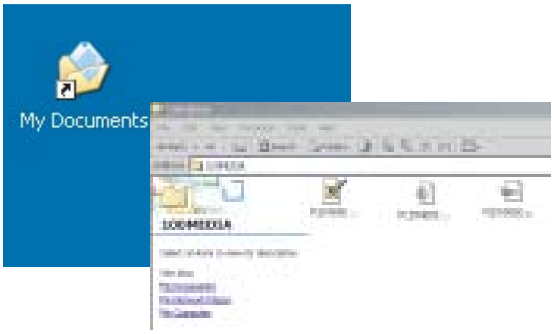
① Double-click on **My Documents** or any other folder that stores your files.



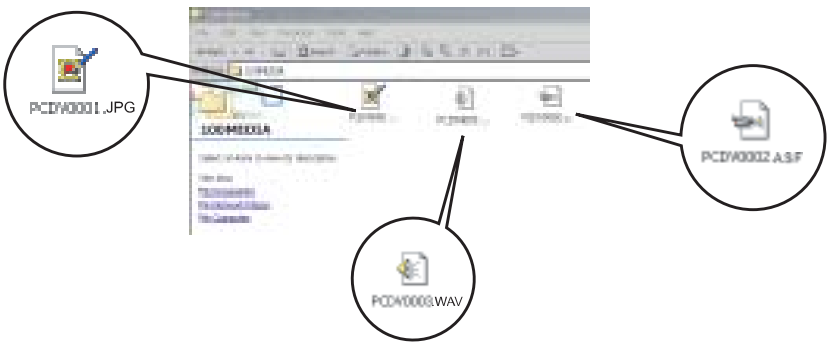
Windows XP

Windows 2000/ME/98 SE

② Double-click on the desired file, and the file will be opened by the program matching the file's type.



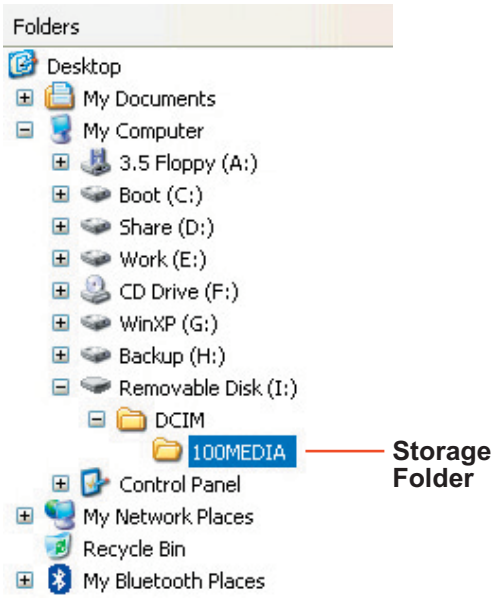
Windows XP



Windows 2000/ME/98 SE

File location

After connecting the camera to your computer, a removable disk will appear in your computer. Under the disk you can find all files stored in your camera. Refer to the figure on the right to see where the files are stored.



TROUBLESHOOTING

When using the camera:

Q1 The camera can not be switched on normally.

A: 1) The batteries may be out of power. Please change the batteries.
2) Make sure the batteries are correctly installed.

Q2 Can not take pictures or record video clips.

A: 1) The storage media may be full. Please free some space from the CF card or the internal memory.
2) Check if the camera is recharging the flash strobe.
3) If the LCD screen displays “MEMORY ERROR” or “CARD ERROR” message, please set the camera to Settings mode and format the storage media.

Q3 I did not delete the pictures and video clips, but cannot find them in the memory.

A: Check if you insert a CF card after taking pictures or recording video clips. The camera will use the card as the main storage media. Files previously stored in the internal memory will be inaccessible until the card is removed.

Q4 I cannot use the flash strobe.

A: If the battery power is low, the flash strobe may be disabled due to insuf ficient voltage. Please change batteries immediately.

Q5 The pictures taken appear too blurred.

A: Please adjust the focus as appropriate.

Q6 The pictures or video clips taken appear too dark.

A: Make sure the environment of shooting or recording has adequate light. Or you may consider using flash strobe when taking pictures.

Q7 The camera cannot operate after I remove/insert the CF card.

A: Please do not remove or insert the CF card while the camera is powered on. Doing so may cause the camera to shut down abnormally.

TROUBLESHOOTING

When connecting the camera to the computer or TV:

Q1 I can not view the video clips on my computer.

A: 1) Please install Direct X 9.0 or above to solve this problem. See page 32 for details on installing the driver, or go to http://www.microsoft.com to download the required files.

2) The AVI file recorded by the camera may not be viewed on Windows 98/ME systems due to incompatibility of file format.

Q2 The driver installation failed.

A: 1) Please remove the driver and other related programs. Follow the installation steps in the manual to reinstall the driver.

2) Make sure you install the driver before plugging in the USB cable.

Q3 A conflict with other installed camera or capture device occurred.

A: If you have any other camera or capture device installed in your computer, please completely remove the camera and its driver from the computer to avoid the conflict.

Q4 The CF card cannot be identified by the camera but is useable on other devices.

A: For the camera to recognize the CF card, the card must be formatted to FAT format. Please backup all data on the card, and then use the FORMAT MEDIA command (see page 31) to format the card.

Q5 The TV screen does not display after connecting the camera to the TV.

A: 1) Check if the camera is correctly connected to the TV.

2) Make sure the A/V system is correctly set in the camera settings. Please see page 29 for more details.

ADDENDA

Storage Capacity Table

Memory	Still picture (pic.)			Video (mm:ss)		Audio (mm:ss)
	2048x1792	2048x1536	1024x768	VGA	QVGA	
Flash memory (16MB)	22	28	103	5:50	7:03	65:10
CF card (32MB)	44	56	206	11:42	14:10	130:40
CF card (64MB)	89	113	413	23:18	28:21	261:22
CF card (128MB)	177	227	827	46:39	56:40	522:43
CF card (256MB)	352	454	1655	93:20	113:18	1045:25
CF card (512MB)	704	908	3312	186:40	226:39	2090:52

* The above results are tested based on the following conditions:
  Still pictures: quality set to MEDIUM for all resolutions.
  Video clips: quality set to MEDIUM for VGA and QVGA.
* This chart is for your reference. The actual capacity may be slightly different depending on the complexity of your subject and environment.

AV System Settings Table

System	Applicable areas
NTSC	America, Taiwan, Japan, and Korea...etc.
PAL	Germany, England, Italy, Netherlands, China, Japan, and Hongkong...etc.

ADDENDA

System Message Table

Message	Description
Recording	The camera is recording a file.
No Image	When the camera is set to Playback mode without any existing file to play, this message will show up.
Please Change Batteries	The camera is under the status of low power. You should change the batteries immediately.
Memory Full	The storage memory is full and can not store any more files. Please change the CF card (or microdrive) or delete some files to free some memory space.
Card Error	The inserted card is not compatible with the camera. Please change the card or try formatting the card.
Memory Error	The camera can not access data in the internal memory. Please format the media to solve this problem.
File Format Error	The file being played is not compatible with the camera.
Deleting	The camera is performing file deletion.
Formatting	The camera is formatting the storage media.

ADDENDA

Specifications

Sensor effective resolution	3.1 Mega (2048x1536) pixels
Interpolated resolution	4.1 Mega (2304x1792) pixels
Internal memory	16MB flash memory (storage)
External memory	Built-in CF card slot Type I & II (maximum: 1GB) Compatible with Micro-drive (maximum: 1GB)
Digital video camcorder	MPEG4 (.ASF) or MJPEG (.AVI) Format VGA (640x480 pixels) / up to 24 fps QVGA (320x240 pixels) / up to 30 fps
Digital still camera	JPEG (.JPG) Format 2304x1792 (4.1 Mega) pixels 2048x1536 (3.1 Mega) pixels 1024x768 pixels
Digital voice recorder	WAVE (.WAV) Format with 16MB memory Recording time: approximately 1 hour
LCD display	1.8” Color TFT LCD
Digital zoom	4X (real-time)
A/V output	Yes (NTSC/PAL system)
Built-in microphone	Yes
Built-in speakers	Yes
Built-in flash strobe	Yes (Anti-red-eye)
Lens	F = 3.0/9.41 mm
Self Timer	10 seconds
Interface	USB 1.1 (USB 2.0 compatible)
Power saving (auto-off)	Off/1min/5min/10min
Battery	AAx4 (alkaline batteries recommended)
Dimension	130x76x50 (mm)

* Specifications are subject to change without notification.