

WEEE Warning Message

Symbol for Separate Collection in European Countries

This symbol indicates that this product is to be collected separately.

The following apply only to users in European countries:

- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.



FCC STATEMENT

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

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

Note:

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules. Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made,

you could be required to stop operation of the equipment.

Product Information

1. Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User Manual is a general reference guide for the product.
2. The product and accessories that come with your camera may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences.
Products very often vary between retailers especially with accessories such as batteries, chargers, AC adapters, memory cards, cables, carrying cases/pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.
3. The illustrations in this manual are for the purpose of explanation and may differ from the actual design of your camera.
4. The manufacturer assumes no liability for any errors or discrepancies in this user manual.
5. For driver updates, you can check the "Download" section of our website, www.geniusnet.com

SAFETY INSTRUCTIONS

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

Warnings

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

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



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

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



- **Do not disassemble, change or repair the camera.**

This might cause fire or electric shock. For repair or internal inspection, ask retailer where you purchased it.



- **Do not use the camera in areas near water.**

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



- **Do not place the camera on inclined or unstable surfaces.**

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



- **Keep the batteries out of the reach of children.**

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



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

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



Cautions

- **Insert the batteries paying careful attention to the polarity (+ or –) of the terminals.**

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



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

This might cause damage to the person's eyesight.



- **Do not subject the LCD monitor to impact.**

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



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

This might cause damage to the camera.



- **Do not use the camera in humid, steamy, smoky, or dusty places.**

This might cause fire or electric shock.



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

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



-
- | | |
|---|---|
| <ul style="list-style-type: none">■ Do not wrap the camera or place it in cloth or blankets.
This might cause heat to build up and deform the case, resulting in fire.
Use the camera in a well-ventilated place. | ⊘ |
| <ul style="list-style-type: none">■ Do not leave the camera in places where the temperature may rise significantly, such as inside a car.
This might adversely affect the case or the parts inside, resulting in fire. | ⊘ |
| <ul style="list-style-type: none">■ Before you move the camera, disconnect cords and cables.
Failure to do this might damage cords and cables, resulting in fire and electric shock. | ⊘ |
-

Notes on Battery Usage

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

- Use only the specified battery.
- Avoid using the battery in extremely cold environments as low temperatures can shorten the battery life and reduce camera performance.
- When you are using the new rechargeable battery or rechargeable battery that has not been used for an extended period of time (the battery that passed the expiry date is an exception) might affect the number of images that can be captured. Therefore, to maximize its performance and lifetime, we recommend that you fully charge the battery and discharge it for at least one complete cycle before use.
- The battery may feel warm after long period of continuous use of the camera or the flash. This is normal and not a malfunction.
- The camera may feel warm after long period of continuous use. This is normal and not a malfunction.
- If the battery is not to be used for a long period of time, remove it from the camera to prevent leakage or corrosion.
- If the battery is not to be used for a long period of time, store it after no battery power left. If the battery is stored for a long time in a fully charged state, its performance may be impaired.
- Always keep the battery terminals in a clean state.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.
- We recommend the battery should be charged 8 hours for first time use.

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Section 1

Getting to know your digital video camera

Overview

G-Shot DV1210 is a digital video camera of exceptional quality and value. You will be able to capture videos and edit pictures; then send and share them with friends and family.

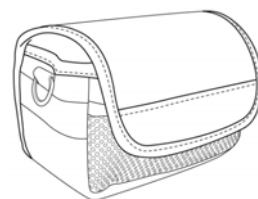
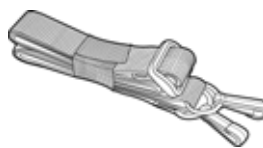
This digital video camera not only functions as a digital camera for taking pictures, but is also able to record video and audio. You can also use it as an MP3 audio player or connected to a PC as a webcam; in addition to functioning as an FM radio.

This manual will introduce you to using your digital video camera and how to install the accompanying software. By reading through this manual, you will learn how to use this digital video camera to take pictures, record video, record audio, playback MP3 music, transfer photos and videos to your PC, and how to use it as a webcam and FM radio.

No matter when and where you wish to send through e-mail a photo or a short video clip, create a photo album, record video, playback MP3 music, listen to the radio, or even chat with your family and friends face-to-face on the Internet, this digital video camera is your best choice and companion.

Package contents

Carefully unpack your package and make sure that you have the following items. In the event that any item is missing or if you find any mismatch or damage, promptly contact your dealer.



Digital Video camera



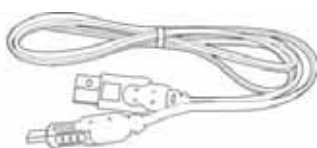
Shoulder strap



Leather case and



Lens cap strap



Lens cap



Headphones



USB cable



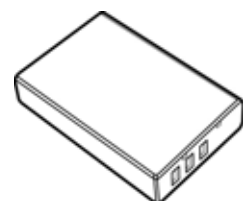
Audio IN/OUT cable



Video IN/TV OUT cable



DC IN 5V Adapter



Battery charger stand



DC-IN Connector



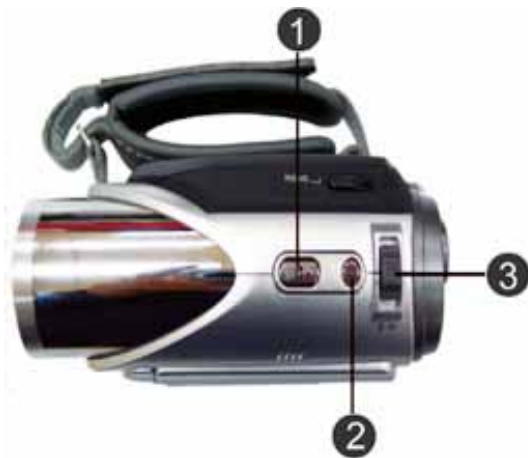
NP-60 Li-Ion battery



NOTE

- Accessory and components may vary by different retailer.

Top view:



1. **Shutter button** – for filming
2. **MUSIC button** – enters MP3 playback mode, radio mode and switches back from the two modes
3. **ZOOM/volume control button** – Digital zoom (under radio and MP3 playback modes functions as volume control)
T: zoom-out/increase volume;
W: zoom-in/decrease volume

Front



1. Lens
2. Filming indicator
3. Flash
4. Stereo MIC

Connector ports

There are USB, AUDIO, and TV connector ports on the front of digital video camera for the user to connect to a PC, TV, and headphones.

1. **USB port** – Use the USB port to connect to a PC, you can transfer photos, video, or audio to and from the digital video camera and PC; or using the digital video camera as a PC web cam. The unit can also connect through a USB adapter with a pen-driver to perform data transfer.
2. **TV plug** – With the **TV plug** connected to a TV, VCR, you can view photos and videos from the digital video camera on the TV. As well as recording television programs using the audio



plug.

3. **Audio plug** – Use the audio plug to connect to a headphone, and you can listen to music on the digital video camera. At the same time, it can function as audio input/output plug. Note: if using the radio function, the headphones have to be plugged in to function as an antenna so it can receive radio channels.

Back

1. **Power indicator light** – When the digital video camera is on, the power indicator light is lit.
2. **MENU button** – Under different modes, pressing this button can access the function menu of each mode.
3. **REC button** – For video/audio recording functions.
4. **DISP/SET button** – Under different modes it will access the camera setup screen, as well as turn on/off the LCD.
5. **Power switch** – Turns the camera on and off.
6. **Busy indicator light** – When camera is waiting for operation to finish, this light will flash.
7. **Mode selection button** – Selects modes.
8. **Playback button** – Under different modes pressing this button will switch to playback mode. Under playback mode, pressing this button will enter different modes according to the mode selection button location.



Left Side

1. **Up button (▲)** – Under different MENU selections enables the up selection, plays the previous song, photo, radio station etc. Under photo



mode, different flash modes can also be selected.

2. **Down button (▼)** – Under different MENU selections enables the down selection, plays the next song, photo, radio station etc. Under photo mode, can also be used to select macro close-up mode. .
3. **Confirm button (↵)** – Mainly used to confirm an operation, to confirm a playback recorded audio, video files, and music functions.
4. **SD card slot** – Opens the SD card slot, to insert and remove the SD card.

Right Side

1. Battery compartment lock – Opens the battery compartment.
2. Li-Ion battery support – After inserting the Li-Ion battery, pivot out this support to secure the battery.
3. DC power plug – Inserting the DC-IN 5V power plug can supply external DC voltage to the unit.
4. Battery compartment lid



Battery status indicator:



full charge



half charge



battery power low



no power

Section 2

How to use digital video camera

Loading the Battery

Before using the Digital Video Camera, you must load a NP60 rechargeable Li-ion battery.

1. Follow the arrow direction and slide to eject the battery / SD cover.
2. Face the battery up with letter side upward. Follow the battery injection direction according to the correct polarity marks (+ or -) and plug the battery into the Digital Video Camera. Close the battery/SD Card Cover firmly.



Removing the Battery

Open the battery/SD card cover and when the battery has come out a little; slowly pull it out the rest of the way.



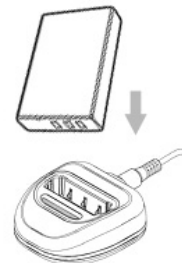
NOTE

- Always make sure that the digital still camera is off before removing the battery.
- The battery may feel warm after it has been charged or immediately after being used. This is normal and not a malfunction.
- When using the digital video camera in cold environments, keep the digital video camera and its battery warm by holding it inside your jacket or other warm protective environment.
- The power of battery can not be charged through the digital video camera. You need to remove the battery from the camera first and then follow the steps above to charge it in addition.

Charging the Battery

Using the charger may charge the battery or operate the camera as power supply. Make sure that the power of the camera is off and then insert the battery before starting.

1. Place the battery in the charger.
2. Connect the power adaptor to a wall outlet.
 - Charging time differs depending on the ambient temperature and the status of battery.

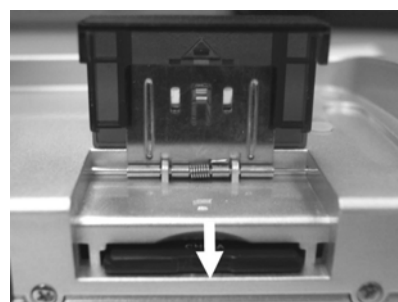


Inserting and Removing a SD Card

The Digital Video Camera comes with 32 MB built-in memory, which allows you to store pictures, movies, recorded voice and music. You can expand the memory capacity by using an optional SD or MMC memory card up to 2GB. To insert a memory card, refer to the figure below and:

1. Open the battery/SD card cover.
2. Insert the memory card until it locks into position.

To remove an installed SD card, press the card inwards to release it. When the card pops out, gently remove it from its slot.



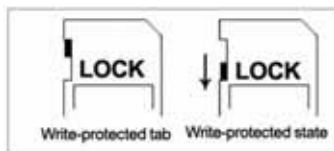
NOTE

- When the memory card is inserted in the digital video camera, please turn off the camera beforehand and then turn on the camera after inserting the memory card. The built-in 32MB memory will be automatically disabled. After restarting, do not remove or insert the memory card to prevent loss and damage of data on memory card and built-in memory.

Protecting Data on an SD Card

The SD card is read-only by locking the SD card. No pictures, movies and voice can be recorded when the SD card is locked. Make sure the lock is in write position before recording any media.

- To prevent valuable data from being accidentally erased from an SD memory card you can slide the write-protected tab (on the side of the SD memory card) to “LOCK”.
- Please format an SD memory card by this Digital Video Camera before use.



Section 3

Using your digital video camera

Turning the Power On/Off

Load the battery and insert an SD card before starting.

- Press the **Power switch button**, and the power indicator light will automatically light up. When the power indicator light is lit, release the power switch button.



Function list

Video mode

- Normal mode	- Capture video: start/stop	
	- Digital zoom: 1x~4x	
	- EV adjustment: +2EV~-2EV	
	- File format: AVI/ASF	
	- Effects: normal/monochrome/retro	
	- Video menu:	- White balance: auto/sun light/light bulb/florescent light/cloudy - Size: 640x480/320x240 - Image quality: good/standard
	- Video playback:	- Volume adjustment

		- Video playback menu:	- Delete: delete single/delete all
			- Protect: protect single/unprotect all
		- Playback	
- TV mode	- Capture video: start/stop		
	- File format: AVI/ASF		
	- Video menu:	- Size: 640x480/320x240	
		- Image quality: good/standard	
	- Video playback:	- Volume adjustment	
		- Video playback menu:	- Delete: delete single/delete all
			- Protect: protect single/unprotect all
		- Playback	

Photo mode

- Snapshot
- Auto exposure setting
- Digital zoom: 1.0x~4.0x
- EV adjustment: +2EV~-2EV
- Auto shutter: off/5sec/10sec/30sec
- Flash light: off/auto/forced/red eye

– Macro: normal/macro		
– Effects: normal/monochrome/retro		
– Photo menu:	– White balance: auto/sun light/light bulb/florescent light/cloudy	
	– Size: 4048x3040/3264x2448/2608x1952/2048x1536/1600x1200/640x480	
	– Image quality: good/standard	
	– Date indicator: date/off	
– Photo playback:	– Photo playback menu:	– Delete: delete single/delete all
		– Protect: protect single/unprotect all
		– Auto playback
	– DPOF:	– Set single
		– Set all/cancel set all/print date/don not print date
	– DPS:	– Print single/print all

MP3 playback mode

– Music playback	– Playback/pause/stop
	– Repeat single track/repeat all
	– Next song/previous song
– Volume adjustment	
– Delete station	
– MP3 player menu:	– Delete: delete single/delete all
	– Protect: protect single/unprotect all

Setup mode

- Button beep: on/off
- Date/time
- Language:
English/Brazil
Portuguese/Dutch/French/German/Italian/Japanese/Spanish
/Russian/Korean/Turkish/Traditional Chinese/Simplified Chinese/Arabic
- Format: confirm/cancel
- Memory message:
 - photo count
 - video count
 - MP3 count
 - Audio count
 - Remaining space
- Factory default : confirm/cancel
- TV standard: NTC/PAL
- Light source frequency : 60Hz/50Hz
- Auto shutoff: off/1 min/3 min
- Video/audio setting: input/output
- Copy to card : confirm/cancel

Audio mode

– Record	
– Record playback	– Playback/pause/stop
	– Next song/previous song
	– Volume adjustment
	– Audio playback menu: – Delete: delete single/delete all – Protect: protect single/unprotect all

Radio mode

– Auto tuning
– Manual tuning
– Delete station
– Recording function
– Turnoff screen

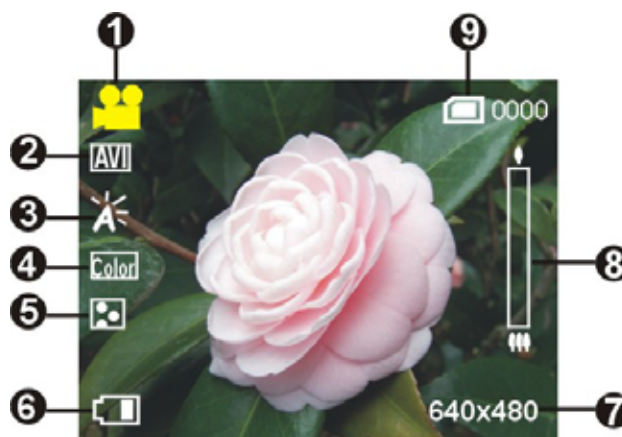
Video mode [🎥]

Switch to the **mode selection button** to [Movie] [🎥]



Status indicator

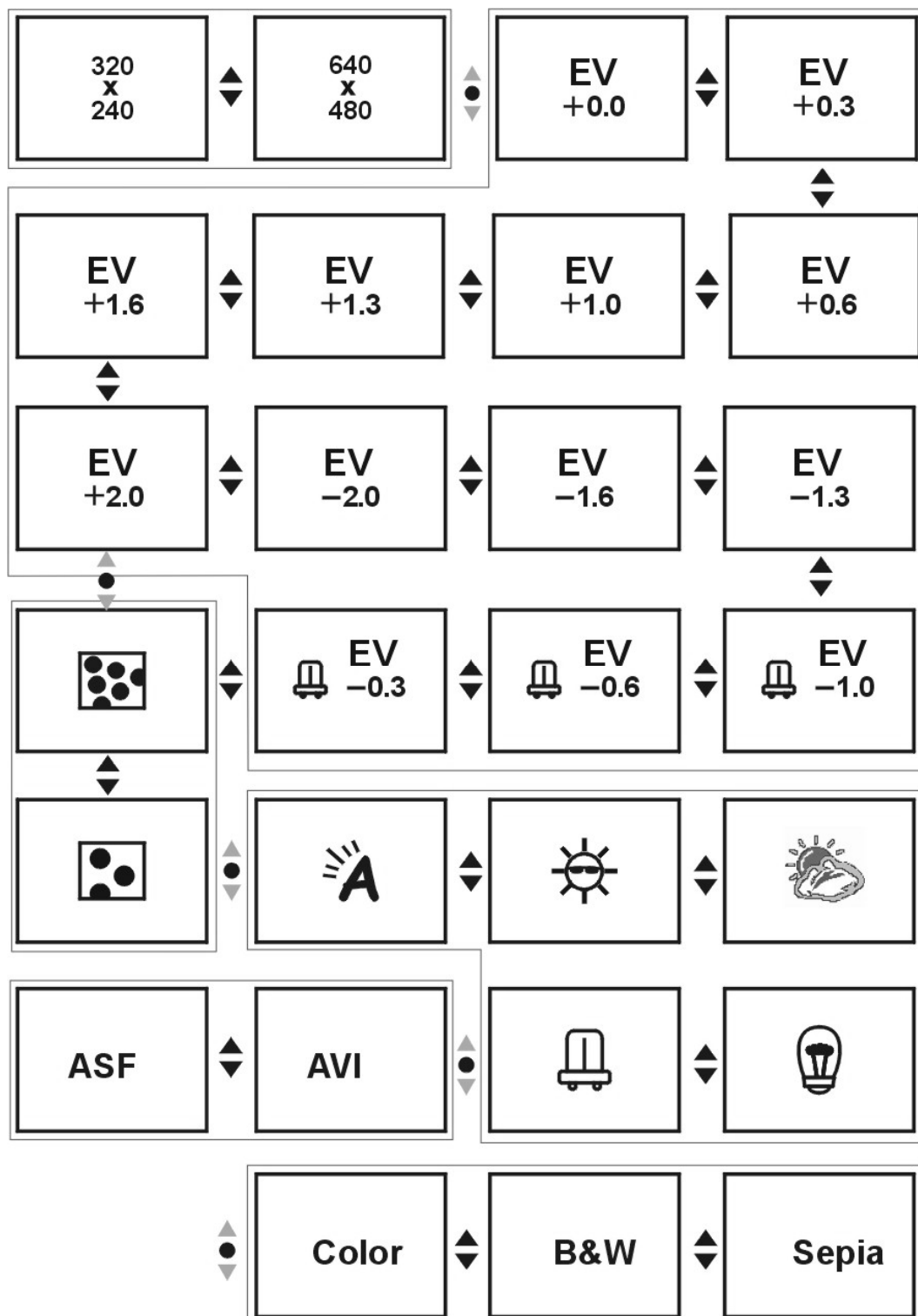
1. Movie mode indicator
2. Image format
3. White balance
4. Color effects
5. Image quality
6. Battery status
7. Image size
8. Digital zoom status
9. Built-in storage status



Hotkey menu

Under movie mode, continuously press the **confirm button** ← left of the LCD screen to access the hotkey function selection; this can control the captured video such as: Image file size, exposure, video quality, white balance, file format, color effect setups. After pressing the **confirm button** ←, press the **up button** ▲ or **down button** ▼ to select each submenu.

The control procedures are as below:



Capturing video

This digital video camera can capture video in MPEG4 format.

Under movie mode, press the **MENU** button to enter the movie menu.



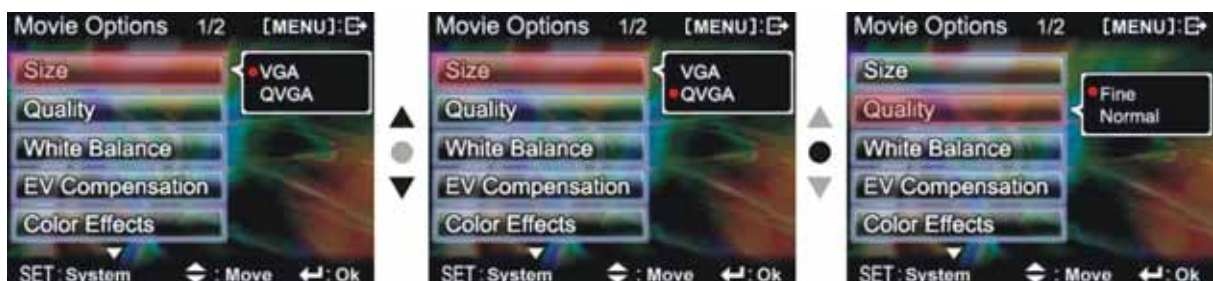
Under the movie menu page, possible controls are as below:

Select image size:

1. Press the **up** button **▲** or **down** button **▼** to select the size option and press the **confirm** button **↵**.
2. Use the **up** button **▲** or **down** button **▼** to select your desired image size and press the **confirm** button **↵**.

Image size options: VGA (640X480), QVGA (320X240)

The control procedures are as below: each submenu (such as Quality, White Balance etc) controls are similar



Select image quality

1. Press the **up button ▲** or **down button ▼** to select the image quality option and press the **confirm button ↵**.
2. Use the **up button ▲** or **down button ▼** to select your desired image quality and press the **confirm button ↵**.

Image quality options: Best, standard.

Possible recording time / sec (video clip)

Image size	Quality	Internal Memory	SD card capacity						
			32 MB	64 MB	128 MB	256 MB	512 MB	1GB	2GB
640 x 480 ASF Format	Fine	40sec	2min 32sec	4min 40sec	8min 22sec	17min	43min	74min	103min 27sec
	Normal	43sec	2min 35sec	4min 42sec	8min 29sec	19min 20sec	45min	75min 20sec	136min 7sec
320 x 240 ASF Format	Fine	2min 34sec	6min 12sec	12min 10sec	23min 41sec	49min 06sec	96min 28sec	205min	429min 1sec
	Normal	2min 45sec	6min 20sec	12min 40sec	26min 07sec	51min	97min	205min 36sec	518min 32sec
640 x 480 AVI Format	Fine	45sec	2min 16sec	4min 24sec	20min 13sec	16min 39sec	37min 20sec	74min	107min 4sec
	Normal	46sec	2min 19sec	4min 27sec	23min	17min 36sec	38min 12sec	74min 14sec	140min 55sec
320 x 240 AVI Format	Fine	2min 24sec	5min 13sec	11min 40sec	8min 56sec	44min 15sec	92min	203min	390min 39sec
	Normal	2min 26sec	5min 32sec	11min 48sec	9min 44sec	45min	92min 46sec	205min	406min 1sec

* The data shows the standard testing results. The actual capacity varies according to the shooting conditions and settings.

Select white balance mode

1. Press the **up button ▲** or **down button ▼** to select the white balance option and press the **confirm button ↵**.
2. Use the **up button ▲** or **down button ▼** to select your desired white balance mode and press the **confirm button ↵**. There will be five modes of white balance to choose from.

White balance modes: auto, sun light, cloudy, light bulb, florescent light.

Select exposure compensation

1. Press the **up button ▲** or **down button ▼** to select the exposure compensation option and press the **confirm button ↵**.
2. Use the **up button ▲** or **down button ▼** to select your desired exposure level and press the **confirm button ↵**. There will be three exposure levels to choose from.

Select color effects

1. Press the **up button ▲** or **down button ▼** to select the color effects option and press the **confirm button ↵**.
2. Use the **up button ▲** or **down button ▼** to select your desired color effects and press the **confirm button ↵**. There will be three exposure levels to choose from. They are: color, monochrome, retro.

Select file format

1. Press the **up button ▲** or **down button ▼** to select the file format option and press the **confirm button ↵**.
2. Use the **up button ▲** or **down button ▼** to select your desired file format and press the **confirm button ↵**. There will be two formats to choose from. They are: AVI, ASF.

Return to movie mode

Press the **MENU button** to return to movie mode.

Begin recording

1. **Step one:** Press the **REC button** to begin video capture and the captured image will be displayed on the screen; press the **ZOOM-IN** or **ZOOM-OUT button** before video capture to perform digital zoom.



2. **Step two:** During filming, press the **REC button** to stop capturing, or automatically stop filming when memory is full.

Video playback

Under movie mode, press the **playback button** to return to video playback mode.

1. Press the **up button ▲** or **down button ▼** to select the video to playback, then press the **confirm button ↵** to begin playback (this camera supports MP4 video playback; to playback the MP4 files you created yourself, please rename the MP4 file name in the format as MPEG0001 before copying to the digital video camera. The 4 digits after “MPEG” should be changed accordingly to the files names already stored on the camera. The file extensions should not be changed (please make sure the file type is supported by the camera) and then copy the file to the directory 100FSCAM on the camera. If the directory does not exist, please first record a short clip on the camera and then copy the file to the created directory.
2. Then press **confirm button ↵** to stop playback.
3. During playback, you can press **up button ▲** to fast forward, and press **down button ▼** to rewind. Press the **confirm button ↵** during fast-forward or rewind to stop playback. Press the **ZOOM-IN** or **ZOOM-OUT button** to adjust the playback volume. Press the **DISP/SET button** to turn off the LCD display.

Video playback menu

Under the video playback mode, press the **MENU button** to return to the playback menu.



Delete single video

1. Press **up button ▲** or **down button ▼** to select the single choice to delete, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either delete single video or cancel deletion (protected files cannot be deleted).

Delete all video

1. Press **up button ▲** or **down button ▼** to select all to delete, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either delete all files or cancel deletion (protected files cannot be deleted).

Protect single video

1. Press **up button ▲** or **down button ▼** to select the single choice to protect, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either protect single video or cancel protection, a lock icon  will now appear on the upper right corner of the screen (apply protection to protected files to unprotect it).

Undo all video protection

1. Press **up button ▲** or **down button ▼** to select the videos to protect, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either unprotect all videos or cancel undo protection (only undo protected files).

Exit movie playback menu

To return to movie mode, press the **playback button** to return; to return to movie playback mode, press the **menu button** to return.

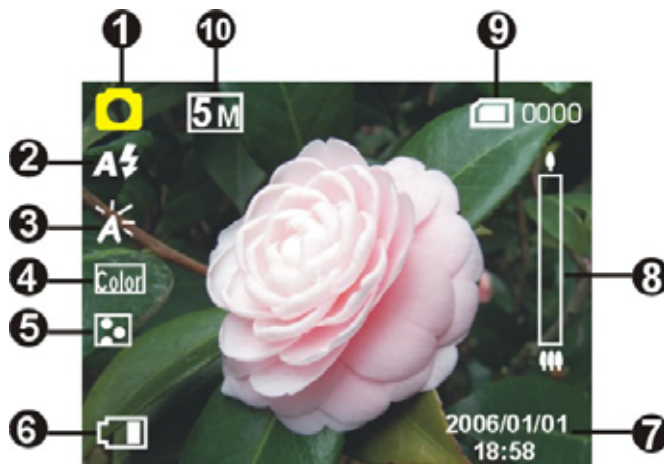
Photo mode

Move the **mode selection button** to the photo mode .



Status indicator:

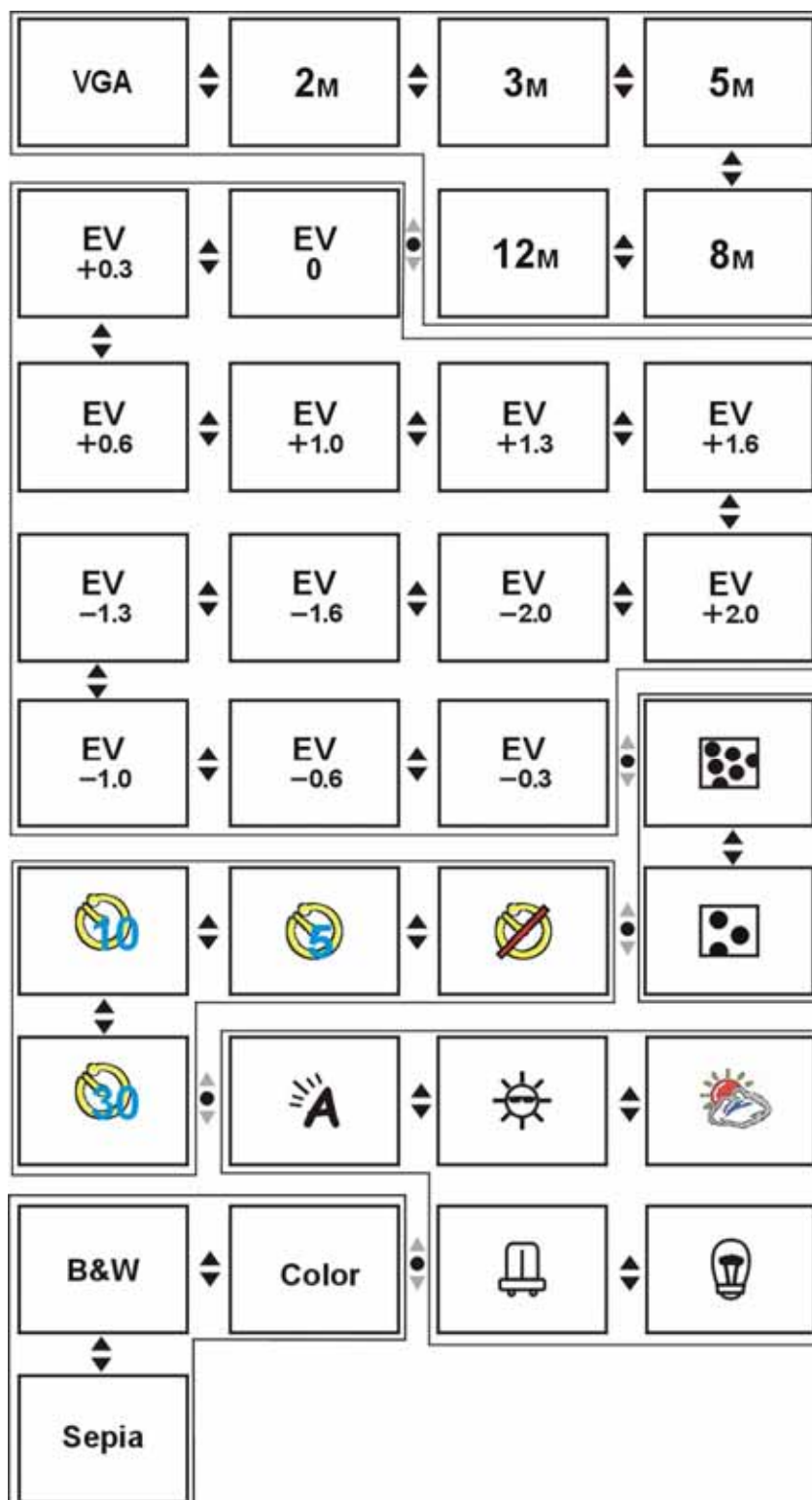
1. Photo mode indicator
2. Flash mode
3. White balance status
4. Color effects
5. File quality
6. Battery status
7. Time display
8. Digital zoom
9. Built-in memory status
10. Image size



Hotkey menu

Under photo mode, continuously press the **confirm button**  left of the LCD screen to access the hotkey function selection; this can control the captured video such as: Image file size, exposure, image quality, white balance, automatic, color effect setups. After pressing the **confirm button** , press the **up button**  **▲** or **down button**  **▼** to select each submenu.

The control procedures are as below:



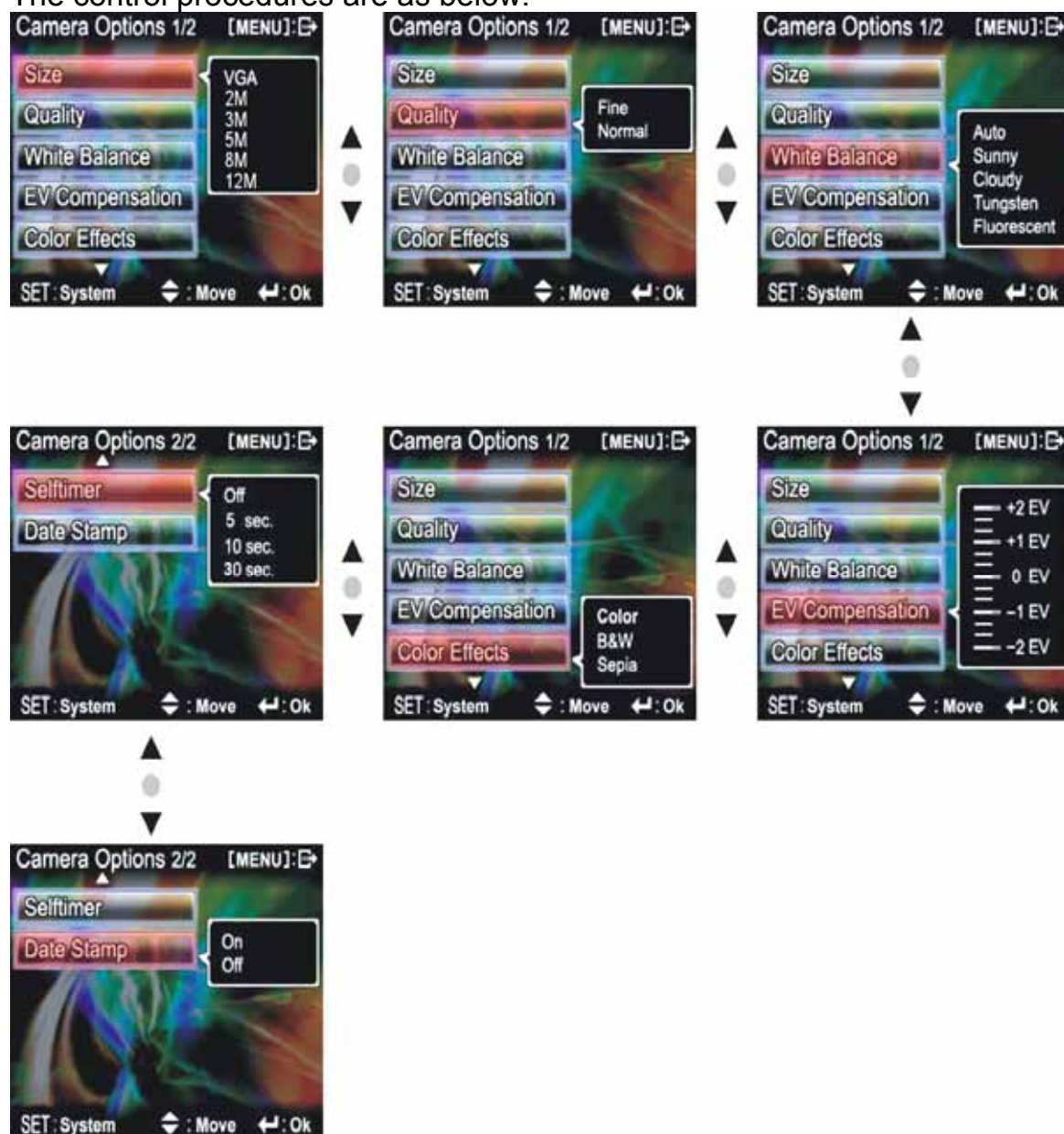
Focus locking

When pressing the **shutter button** to the first stage, a green "[]" indicates the image is focused.

Photo menu

Setup the desired options before filming. Press **MENU** button to access the photo menu.

The control procedures are as below:



Select image size

1. Press **up button ▲** or **down button ▼** to select image size option, then press the **confirm button ↵**. There will be six photo size options.
2. Press **up button ▲** or **down button ▼** to select your desired photo size, press the **confirm button ↵** to set image size: 12M (4048X3040), 8M (3264X2448), 5M (2608X1952), 3M (2048X1536), 2M (1600X1200), VGA (640X480)

Select image quality

1. Press **up button ▲** or **down button ▼** to select image quality option, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to select your desired image quality, press the **confirm button ↵**.
Image quality options: best, standard.

Select white balance mode

1. Press **up button ▲** or **down button ▼** to select white balance option, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to select your desired white balance mode, press the **confirm button ↵**.
White balance options: auto, sun light, cloudy, light bulb, florescent light.

Exposure adjustment

1. Press **up button ▲** or **down button ▼** to select exposure option, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to select your desired exposure level, press the **confirm button ↵**.
EV value range: -2.0 ~ +2.0

Color effects

1. Press **up button ▲** or **down button ▼** to select color effects option, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to select your desired special effects, press the **confirm button ↵**.
Color effects to select are: color, monochrome, retro.

Auto shutter

1. Press **up button ▲** or **down button ▼** to select auto shutter timer option, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to select your desired auto shutter count down time, press the **confirm button ↵**.
The available timer options are: off, 5 sec, 10 sec, 30 sec.

Select date indicator

1. Press **up button ▲** or **down button ▼** to select date indicator option, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to select whether to show the date indicator, press the **confirm button ↵**.

Date indicator selection: on, off.

Return to photo mode

Press the **MENU button** to return to photo mode.

Flash light function

Under photo mode, press the **up button ▲** to cycle through the flash light modes.

How to take a picture

1. **Step one:**
Make sure the digital video camera is turned on.
2. **Step two:**
Aim the digital video camera at the object to capture, and view the filming angle from the LCD screen.
3. **Step three:**
Press the **shutter button** slightly to the first stage to lock the focus.
4. **Step four:**
Press the **shutter button** to the second stage, when capturing the picture, the LCD screen image will freeze until it is saved to the memory. When the screen returns to the browsing status, the user can begin to shoot the next picture.

Capturing close-up photos

1. **Step one:**

Under photo mode press the **down button ▼**, the macro icon  will appear on the LCD screen. You will be able to take a snapshot within the 12~40cm range.

2. **Step two:**

Please follow the procedures on how to take pictures to take the photo.

Capturing general photo

1. **Step one:**

Under photo mode, if the screen displays the macro icon , then press the **down button ▼** and the macro icon  will disappear from the screen. Then you can take pictures of objects over 1.2m distance.

2. **Step two**

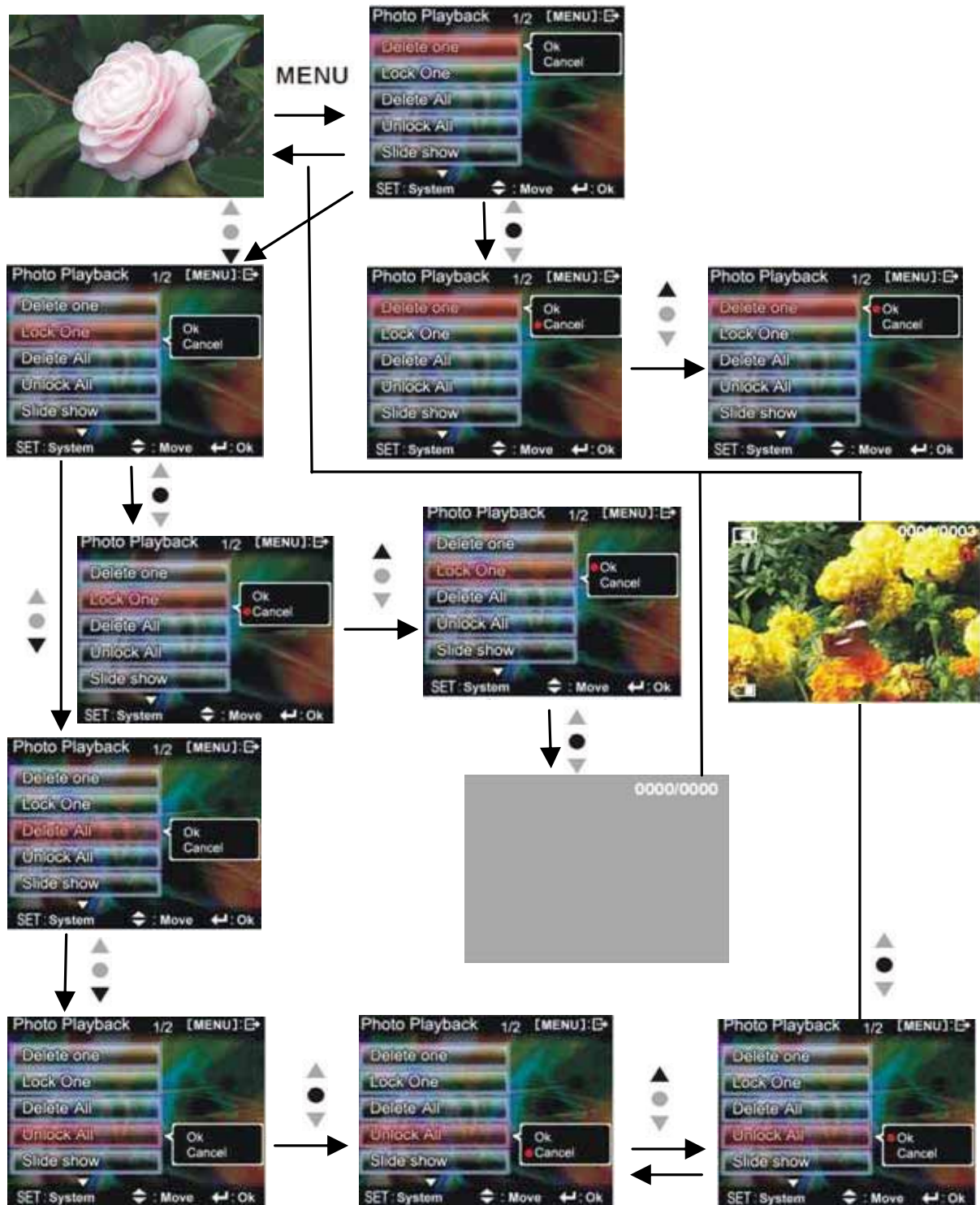
Please follow the procedures on how to take pictures to take the photo

Photo playback

1. Under photo mode, press the **playback button** to enter photo playback mode.
2. Under the photo playback mode, press the **up button ▲** or **down button ▼** to select photo to playback.

Photo playback menu

Under photo playback mode, press the **MENU** button to display the photo playback menu. Control procedures are as below:



Delete single photo

1. Press **up button ▲** or **down button ▼** to select the single photo to delete, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either delete single photo or cancel deletion (protected files cannot be deleted).

Protect single photo

1. Press **up button ▲** or **down button ▼** to select the single photo choice to protect, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either protect single photo or cancel protection, a lock icon  will now appear on the upper right corner of the screen (apply protection to protected files to unprotect it).

Delete all photos

1. Press **up button ▲** or **down button ▼** to select all to delete, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either delete all files or cancel deletion (protected files cannot be deleted).

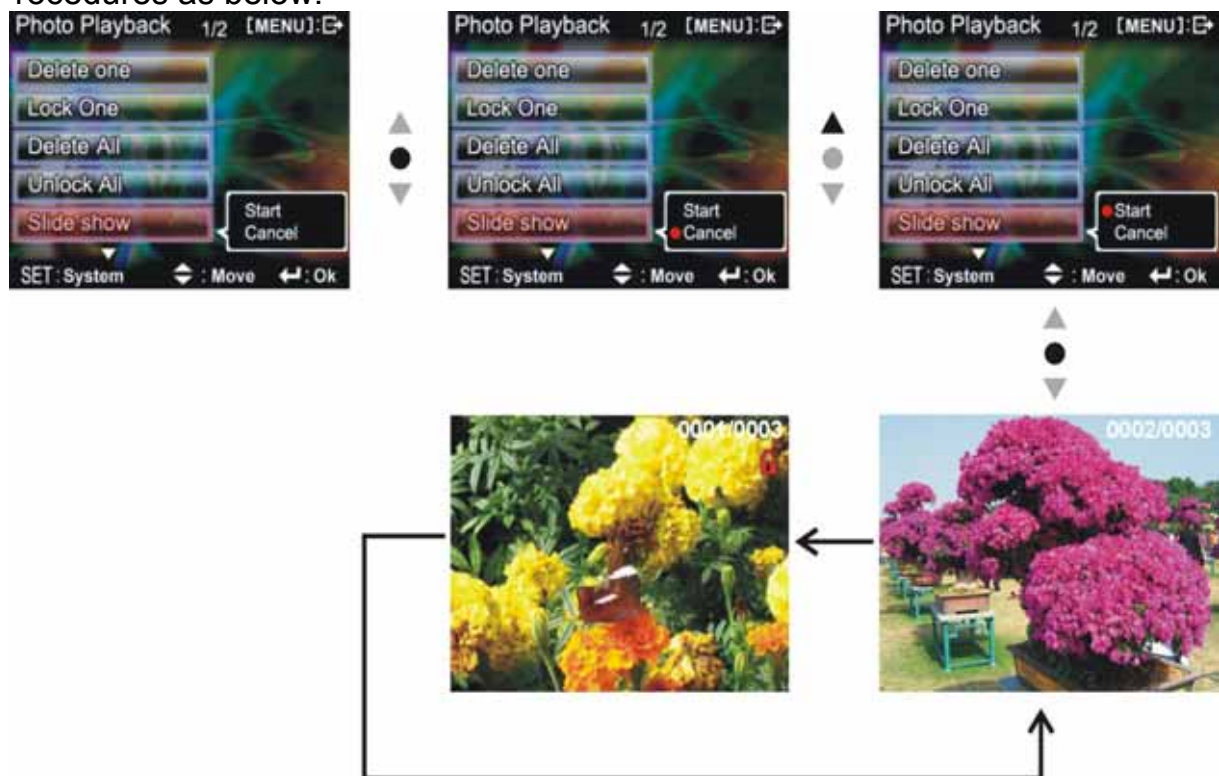
Undo all photo protection

1. Press **up button ▲** or **down button ▼** to select the all photos to protect, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either unprotect all photos or cancel undo protection (only undo protected files).

Auto playback

Press **up button ▲** or **down button ▼** to select the auto playback option, select start option and then press the **confirm button ↵**. Unit will enter the auto playback mode. Under auto playback mode each photo will be displayed for a set period of time. Press the **confirm button ↵** under auto playback mode to exit the auto playback mode.

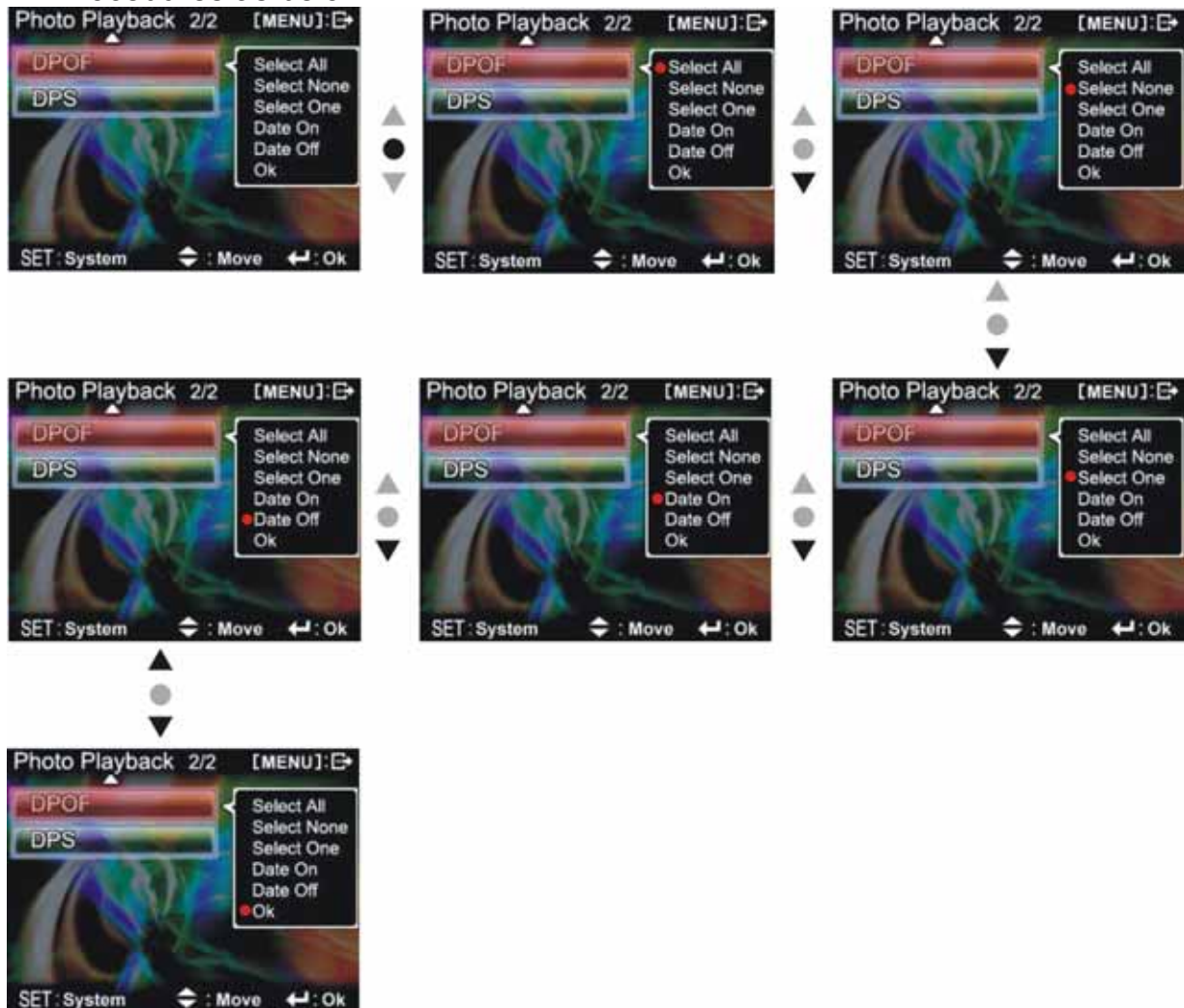
Procedures as below:



DPOF

1. Press **up button ▲** or **down button ▼** to select the “DPOF” option, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to set the hide date option, then press the **confirm button ↵** to hide the date on all printed photos.
3. After setup is complete, insert the SD card to the printer to perform printing.

Procedures as below:



DPOF : DPOF can directly print out the photos stored on the SD card through a DPOF supported printer.

DPOF set single

1. Press **up button ▲** or **down button ▼** to select the “DPOF” option, then press the **confirm button ↵**.

2. Press **up button ▲** or **down button ▼** to set the single option, then press the **confirm button ↵** to enter the single setting interface.
3. At the single setting interface, the current photo will appear and then use the **up button ▲** or **down button ▼** to select a photo. Pressing the **ZOOM-IN button** and **ZOOM-OUT button** can set the number of copies to print, maximum print copy is 5.

DPOF set all

1. Press **up button ▲** or **down button ▼** to select the “DPOF” option, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to set the all option, then press the **confirm button ↵** to set to print one single copy of all photos.

DPOF cancel all

1. Press **up button ▲** or **down button ▼** to select the “DPOF” option, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to set the cancel all option, then press the **confirm button ↵** to cancel all settings.

Print date

1. Press **up button ▲** or **down button ▼** to select the “DPOF” option, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to set the print date option, then press the **confirm button ↵** to print the date on all printed photos.

DPS (only supported for DPS (direct print service) enabled printers)

Press **up button ▲** or **down button ▼** to select the print option, then press the **confirm button ↵**. Connect the digital video camera and printer with the USB cable and after successful connection is established the digital video camera will show print single and print all options.

Print single

1. At the print menu, Press **up button ▲** or **down button ▼** to select to print single and then press the **confirm button ↵** to go to the print single interface.
2. At the print single interface, with the hint to connect to printer, connect the digital video camera to printer with the USB cable. Wait for the OK and press **up button ▲** or **down button ▼** to select photo printing, pressing the

ZOOM-IN button and **ZOOM-OUT button** can select the number of print copies.

- Print photo: press the **up button ▲** or **down button ▼** to select the photo you wish to print.
- Print copies: press the **ZOOM-IN button** and **ZOOM-OUT button** to set the number of prints.
- Print: press the **confirm button** **↵** to begin printing.

Print all

1. At the print menu, Press **up button ▲** or **down button ▼** to select to print single and then press the **confirm button** **↵** to go to the print all interface.
2. At the print single interface, with the hint to connect to printer, connect the digital video camera to printer with the USB cable. Wait for the OK and then press the **confirm button** **↵** to begin printing. (a single copy of each photo is printed)

Cancel direct printing

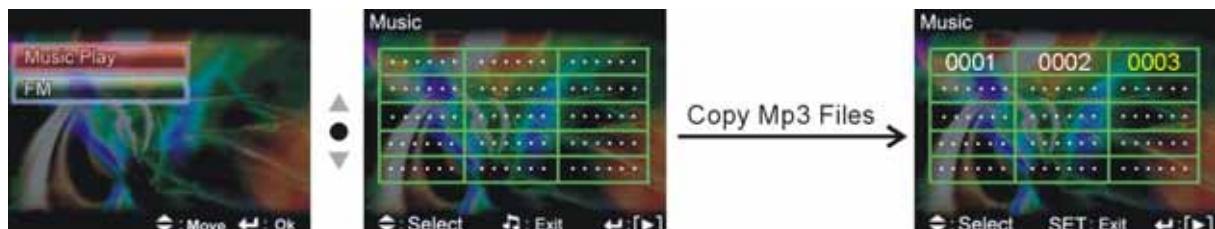
At the print menu, Press **up button ▲** or **down button ▼** to select cancel direct printing and then press the **confirm button** **↵** to cancel direct printing.

Exit photo playback menu:

Press the **MENU button** to return to photo playback mode; press the **playback button** to return to photo mode.

MP3 Player

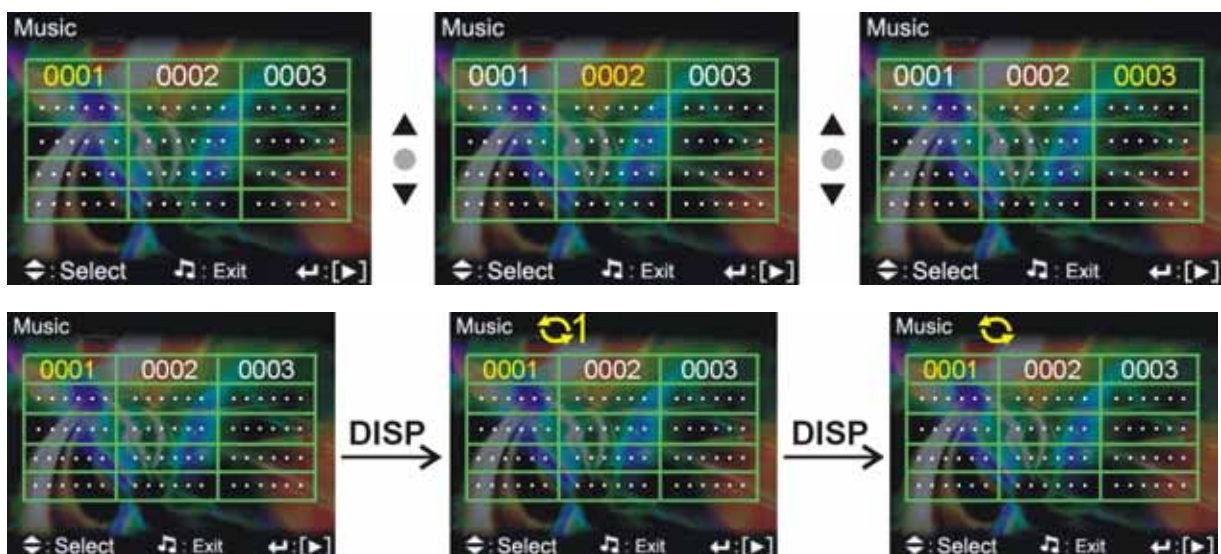
After pressing the **MUSIC button**, (press the **MUSIC button** again to return to the previous mode), press the **up button ▲** or **down button ▼** to the left of the LCD screen to select MP3 option and press the **confirm button** **↵** to enter MP3 mode. Control procedures are as below:



How to playback MP3 music

Under MP3 mode, use the **up button ▲** or **down button ▼** to select a song and then press the **confirm button ◀** to play the MP3 (if there are no songs on the camera, please first connect the camera to a PC as a removable drive (refer to section: 8. How to connect to a PC) then copy the songs to the MP3 directory on the camera).

When a song is selected, press the **DISP/SET button** to repeat single track, press the **DISP/SET button** again to repeat all tracks. As below:



Volume control

During music playback, press the **ZOOM-IN button** and **ZOOM-OUT button** to adjust the volume level.

Previous, Next song

During music playback, press the **up button ▲** or **down button ▼** to skip to previous, next song.

Turn off LCD screen

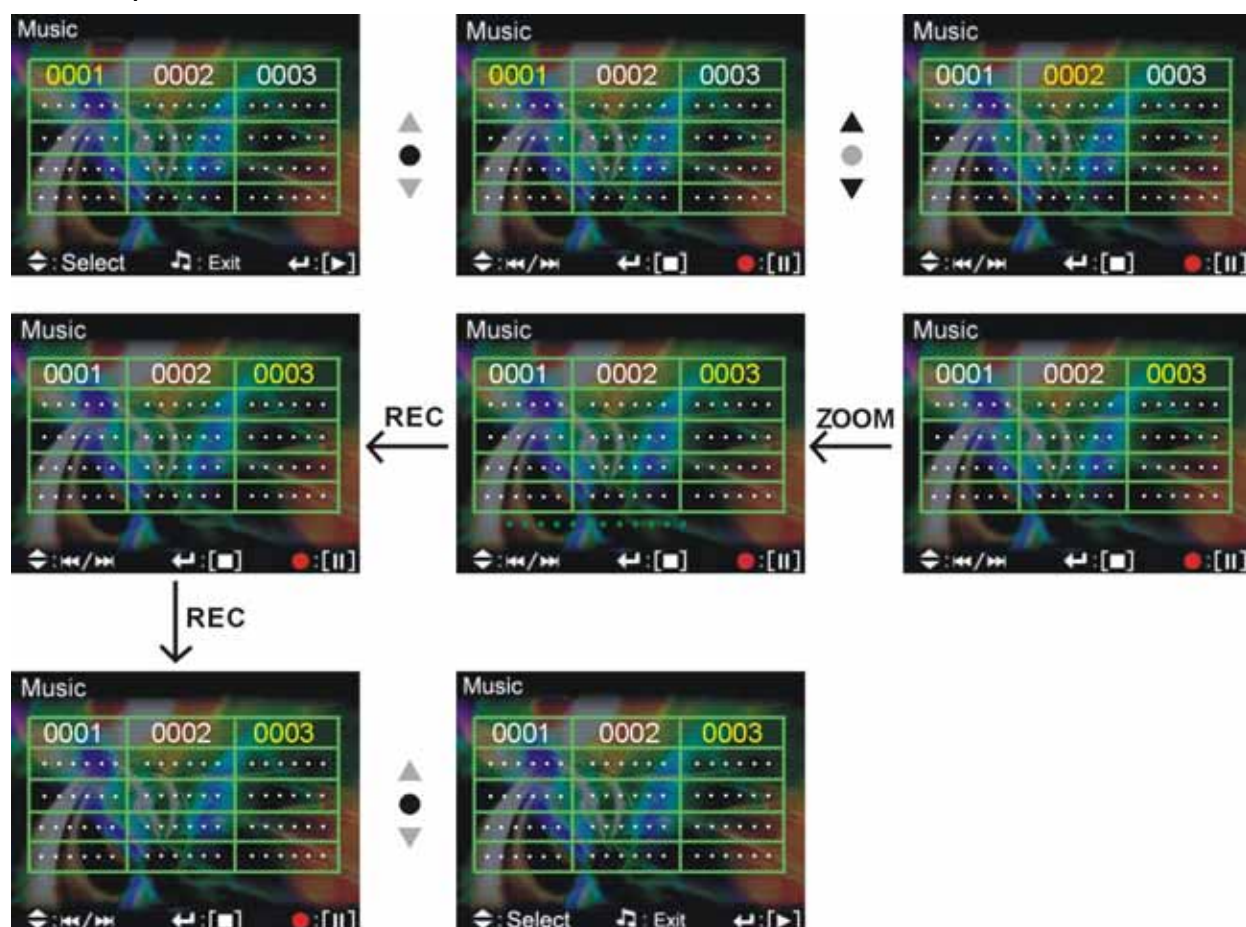
During music playback, to conserve the batteries the LCD screen will be automatically turned off after 1 minute of music playback. Press the **DISP/SET button** to turn the LCD screen back on.

Pause playback

During music playback, press the **REC button** to pause playback, press the **REC button** again to continue playback.

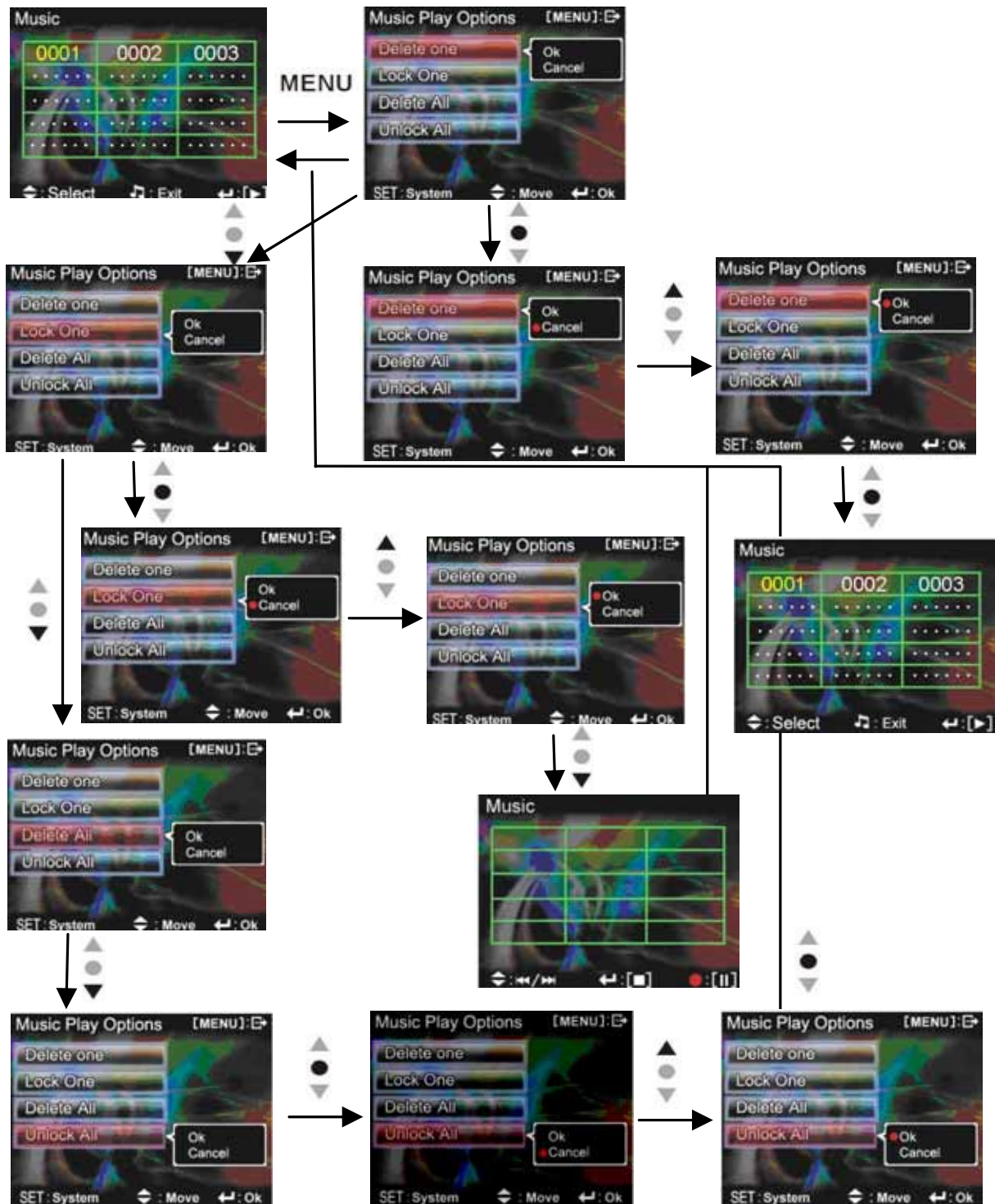
Stop playback

During music playback, press the **confirm button**  to stop music playback. Control procedures are as below:



MP3 Player menu

When playback is stopped, press the **MENU** button to display the menu.



Delete single track

1. Press **up button ▲** or **down button ▼** to select the single track to delete, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either delete single track or cancel deletion (protected files cannot be deleted).

Protect single track

1. Press **up button ▲** or **down button ▼** to select the single track choice to protect, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either protect single track or cancel protection, a lock icon  will now appear on the upper right corner of the screen (apply protection to protected files to unprotect it).

Delete all tracks

1. Press **up button ▲** or **down button ▼** to select all to delete, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either delete all files or cancel deletion (protected files cannot be deleted).

Undo all track protection

1. Press **up button ▲** or **down button ▼** to select all tracks to protect, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either unprotect all tracks or cancel undo protection (only undo protected files).

Return to MP3 player interface

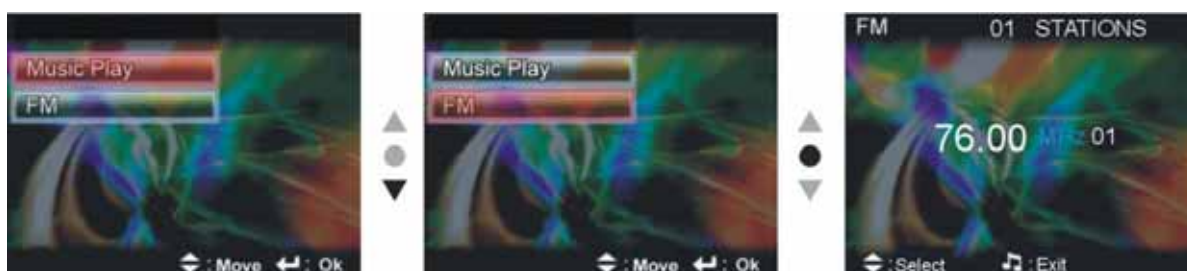
To return to MP3 player interface, press the **MENU button**.

Exit MP3 Player

To quit the MP3 player, press the MP3 button when no tracks are being played.

Radio

Press the **MUSIC button** (press the **MUSIC button** again to return to previous mode) and then press the **up button ▲** or **down button ▼** to the left of the LCD screen to select FM option and press the **confirm button ◀** to enter the radio mode, procedures are as below:



Auto tuning (before auto tuning the headphones must be plugged into the audio plug)

After entering the radio mode, press the **confirm button ◀** (hold for 4 seconds) to automatically tune to local stations until auto tuning is complete. As illustrated:



Listening to a station

After auto tuning is complete, you can use **up button ▲** or **down button ▼** to select the station to listen to, or tune in to the default station.

As illustrated:



Manual tuning

While listening to a station, press the **MENU button** and press the **up button ▲** or **down button ▼** to manually adjust the radio frequency for the station.

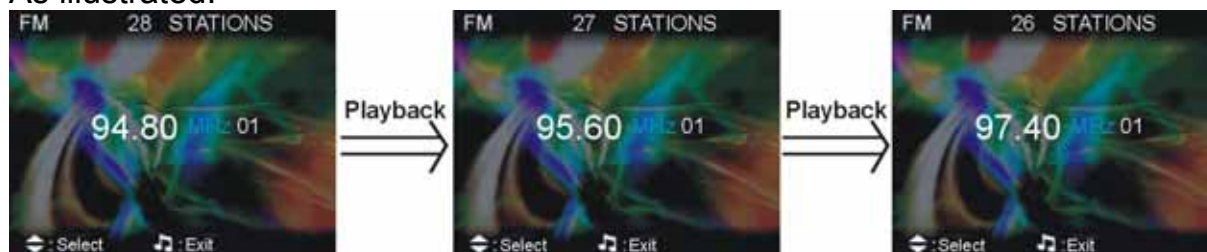
Turn off LCD screen

During radio listening, to conserve the battery the LCD screen will automatically turn off after 1 minute of tuning in to the radio. Press the **DISP/SET button** to turn the LCD screen back on.

Delete station

If the user does not like a specific radio station, press the **playback button** during tuning in to delete that station.

As illustrated:



Recording function

If the user likes a program broadcast by a station, during tuning in you can press the **REC button** to record and save the program.

Controls as illustrated:



Exit radio mode

Under radio mode, press the **MUSIC button** to exit the radio.

Audio mode

Rotate the **mode**

selection dial to ,
the screen will
display:



Status indicator

Under the audio mode, press the **REC button** to begin audio recording, press the **REC button** to stop audio recording.

Begin recording:



Recording playback

Under audio mode, press the **playback button** to go to the recording playback mode.

Under the playback mode, use the **up button** ▲ and **down button** ▼ to select the audio file. After selecting the audio file, press **confirm button** ⏏ to begin playback, press the **confirm button** ⏏ again to stop playback. During playback, press the **REC button** to pause playback, press the **REC button** again to continue playback.

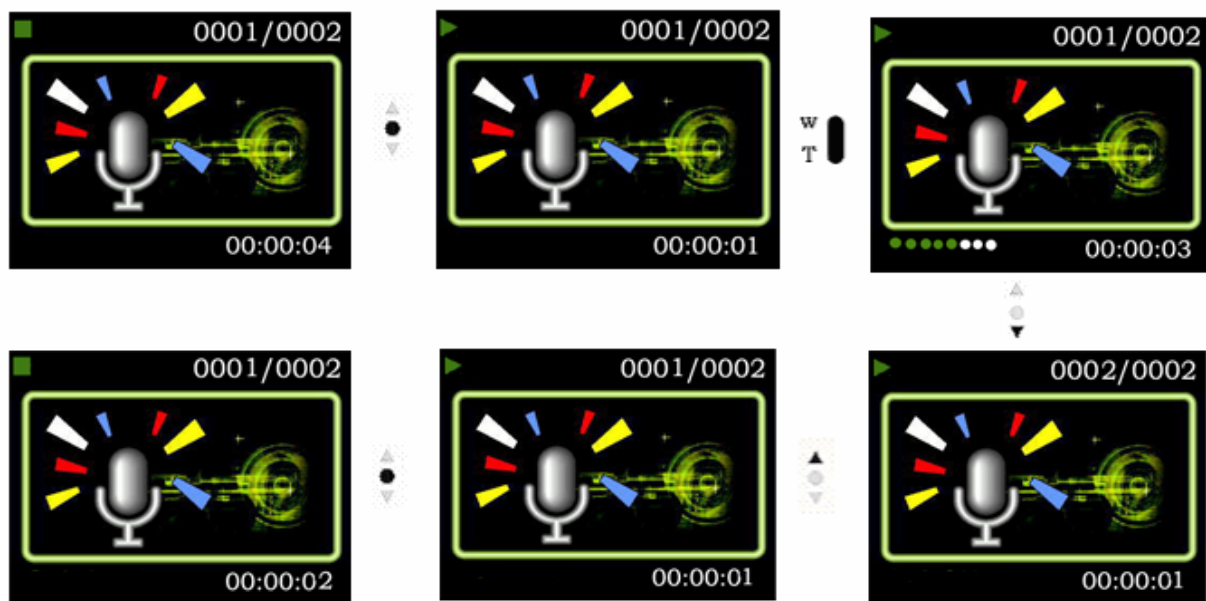
Volume adjustment

During recording playback, you can press the **ZOOM-IN button** and **ZOOM-OUT button** to adjust the volume level.

Previous, Next song

During recording playback, press the **up button ▲** or **down button ▼** to skip to previous, next song.

Control procedures as below:



Audio playback menu:

Under audio playback mode, press the **MENU button** to display the audio playback menu.

Delete single audio

1. Press **up button ▲** or **down button ▼** to select the single audio choice to delete, then press the **confirm button** **↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button** **↵** to either delete single audio or cancel deletion (protected files cannot be deleted).

Protect single audio

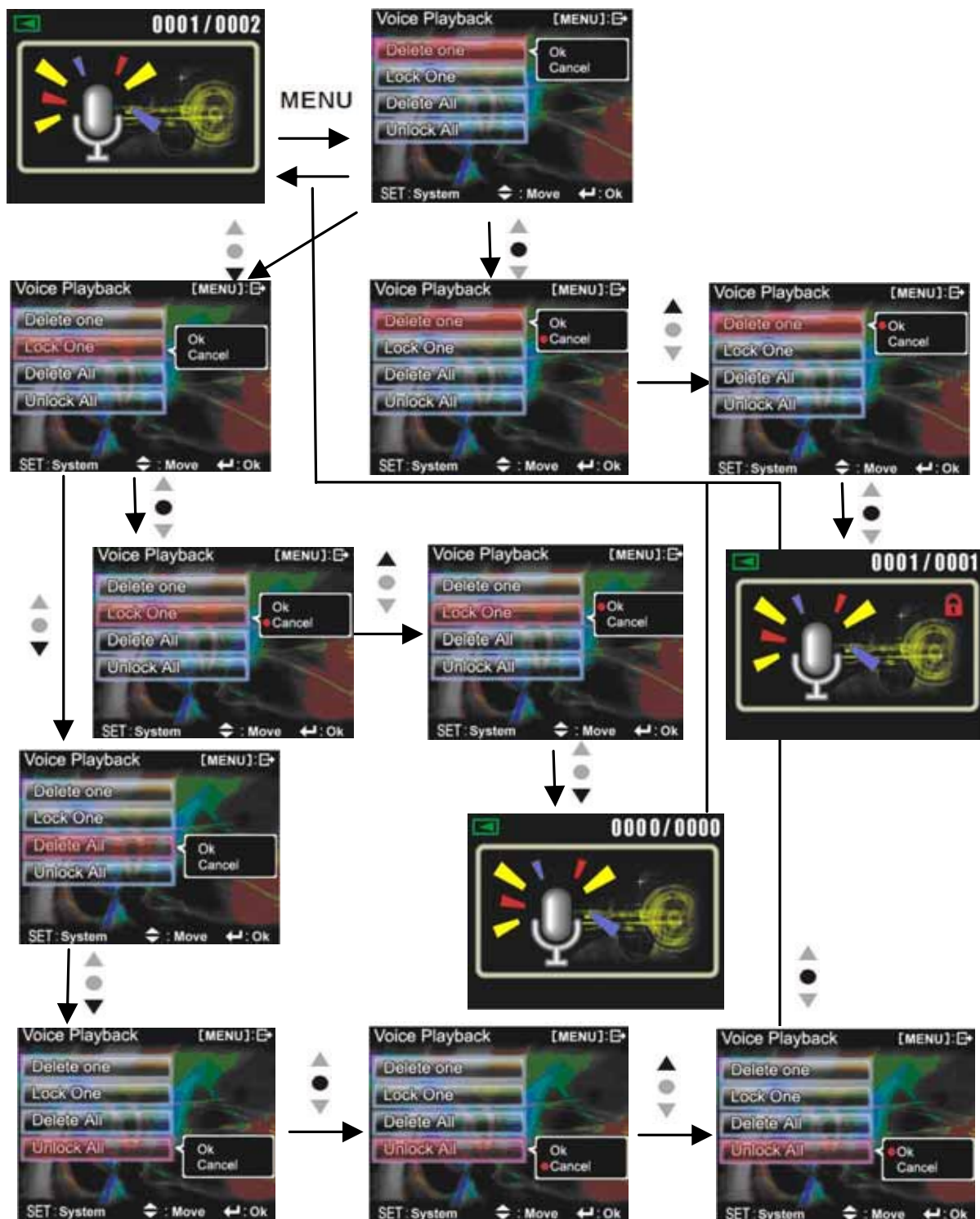
1. Press **up button ▲** or **down button ▼** to select the single audio to protect, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either protect single audio or cancel protection, a lock icon  will now appear on the upper right corner of the screen (protected files cannot be deleted).

Delete all audio

1. Press **up button ▲** or **down button ▼** to select all to delete, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either delete all files or cancel deletion (protected files cannot be deleted).

Undo all audio protection

1. Press **up button ▲** or **down button ▼** to select all audio to protect, then press the **confirm button ↵**.
2. Press **up button ▲** or **down button ▼** to confirm or cancel, press the **confirm button ↵** to either unprotect all audio or cancel undo protection (only undo protected files).
Procedures as below:



Exit audio playback menu

Under the audio playback menu interface, press the **MENU button** to exit audio playback menu interface; press the **playback button** to return to audio mode.

Setup mode

After pressing the **MENU button** anywhere, press **DISP/SET button** to enter the setup mode.

Status indicator

At the setup mode, you can modify the following options:

1. Date/time
2. Button beep
3. Format
4. Factory defaults
5. Memory info
6. Language
7. Video output
8. Auto shutoff
9. Video setting
10. Light source frequency
11. Copy to card

Setup options

Under the setup mode, press the **up button ▲** or **down button ▼** to modify the options, and press the **confirm button ◀** to perform setup.

1. Date/time: yr/mo/date/hr/min/sec
2. Button beep: on/off
3. Format: confirm/cancel
4. Factory defaults: confirm/cancel
5. Memory info: video file count/photo file count/MP3 file count/audio file count/free space
6. Language: English/Traditional Chinese/Simplified
 Chinese/French/German/Italian
7. /Japanese/Spanish/Russian/Korean/Turkish/Brazil/Dutch/Arabic
8. Video output: NTSC/PAL
9. Auto shutoff time: off/one minute/three minutes
10. Audio setup: output/input
11. Light source frequency: 60HZ/50HZ
12. Copy to card: confirm/cancel

Setup



Exit setup

To exit setup mode, press the **DISP/SET** button to return to the interface before pressing **MENU** button; then press **MENU** button to return to the interface before that.

Section 4

How to record TV programs

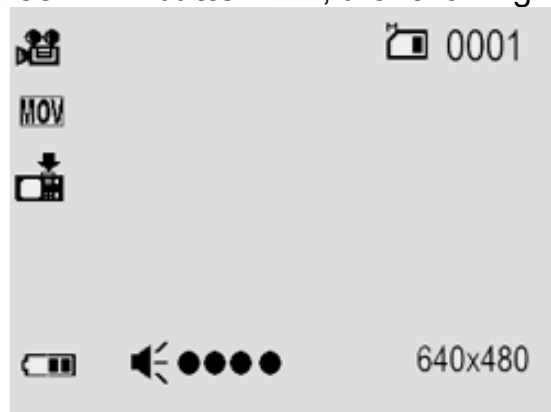
The main procedures for recording TV programs are as below:

1. Rotate the mode selection dial to video mode [📹].
2. Press the **MENU** button to enter the video mode menu.
3. After entering the video mode menu, press the **DISP/SET** button to enter the camera setup menu.
4. Press the **up** button ▲ or **down** button ▼ to select “video setup” option from page 2 “camera setup”, and then press **confirm** button ⏎.
5. Use the **up** button ▲ or **down** button ▼ to select “input” option and press **confirm** button ⏎. Entering to this menu while under other modes has no effect (such as photo mode [📷]), and there will be an “ERROR” message.

Control procedures are as below:



6. After pressing the **confirm** button ⏎, the following interface will appear:



Use the audio cable and TV cable to connect the camera to your TV/DVD, the 📺 icon will disappear and the TV/DVD image will be displayed on the LCD screen. To not display the icon on the LCD, press the **DISP/SET** button; press

the **ZOOM button** to adjust the volume level, press the **confirm button**  to enter the hotkey menu for the appropriate settings.

7. To record a TV program or movie, please refer to the following procedures:

■ **Step one:**

Press the **REC button** to begin recording, the recorded image will appear on the screen. In addition, before recording, press the **ZOOM-IN** or **ZOOM-OUT button** to adjust the volume.

■ **Step two:**

Press the **REC button** to stop recording, or automatically stop recording when the memory is full.

8. To exit this mode, directly press the **MENU button** and then select “video setup” “output” to rotate the **mode selection dial** to switch modes and quit.

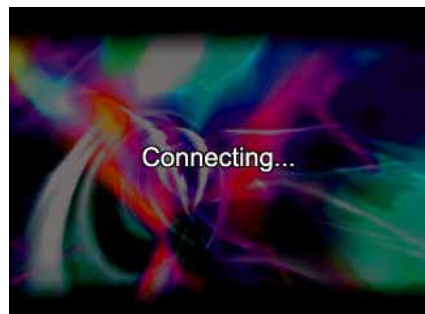
9. The recorded TV programs can be played back on the camera and on the PC as well.

Section 5

How to use USB Pen-Driver data copy function

This unit's operation for file copying functions is: copying contents on SD/MMC memory cards to a compatible USB disk or MP3 flash player. If copying the SD/MMC card to USB disk or MP3 player:

1. When the camera is turned on, use the USB Pen-Driver cable to connect the camera with the USB disk or MP3 player (**do not unplug the USB Pen-Driver cable within five seconds of connecting camera to USB disk or MP3 player**, then the display will show: **Connecting** (lower left screenshot). If the USB drive and MP3 player is compatible with this unit, a file copy screen will appear; or else the message will be that this unit is not compatible with USB disk or MP3 player (lower right screenshot). Then you can remove the USB drive or MP3 player). If the data transfer interface appears, use the **confirm button** , **up button** , **down button**  to choose whether to copy files or not. If you choose not to copy files, then you should remove the USB disk or MP3 player.
2. After copying is started, if there are no contents on the SD/MMC card, no SD/MMC card is inserted, or if the USB disk and MP3 player memory are full, the camera will notify the user. During the copying process, the 4 short dashes after the arrow will be flashing sequentially.
3. After copying is complete, and the notification message is displayed, you should remove the USB disk or MP3 player.



Control procedures are as below:



If copying files from the NAND FLASH to SD/MMC card:

1. Enter the last option in setup mode “copy to card” and select “confirm” to execute file copying. If there is no SD/MMC card inserted or it contains no contents, and there is not enough space on SD/MMC card to copy to, then there will be a notification message.
 - * After files are transferred successfully, the original files will be stored on the camera.
 - * If on the external card there exists a DCIM parent directory and a 100FSCAM subdirectory, then the file will be copied to the 100FSCAM directory. Consequently, the system will first automatically create a DCIM parent directory and a 100FSCAM subdirectory, and then copy the files to the 100FSCAM directory.
 - * If identical file name exists, then the system will follow a specific rule to rename the file names and then copy to the 100FSCAM directory.



NOTE

- This digital video camera only supports USB disks with operating current under 200mA; using incompatible specification USB disks may cause system hang-ups. Do not be alarmed if incompatibility occurs and try with another USB disk.

Section 6

Video / Audio out

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

You can use the “video/audio out” on the digital video camera to output the video/audio to an external device (such as: TV), as below:

■ **Step one:**

Insert the black plug of the TV cable to the TV port on the back of the digital video camera, and the yellow plug to the video in of the TV.

■ **Step two:**

Insert the white and red plug of the AV cable to the audio input of the TV port, and the black plug to the back of the audio in/out port on the digital video camera.



■ **Step three:**

Switch the TV to the correct channel.

If the TV standard is not correct, you can switch to the appropriate standards

1. Enter the “camera setup” page.
2. Use the **up button ▲** and **down button ▼** to select “video out”.
3. Then use the **up button ▲** and **down button ▼** to select NTSC or PAL standards and press the **confirm button ↵**.



NOTE

- Different TV manufacturers will have different broadcast channels, please refer to the TV's user manual.

Section 7

Transferring recorded images and videos to your computer

You can share recorded images/video clips with your family or friends via e-mail or post them on the Web. Before doing these things, you need to connect the camera to your computer using the USB cable and then transfer the images/video clips.

To transfer images/video clips from the camera to your computer, follow the steps below:

The digital video camera can also function as a web cam /storage device, procedures as below:

1. **Step one:**
Make sure the digital video camera is installed with LI-ion battery.
2. **Step two:**
Connect the smaller end of the USB cable plug to the USB port on digital video camera



NOTE

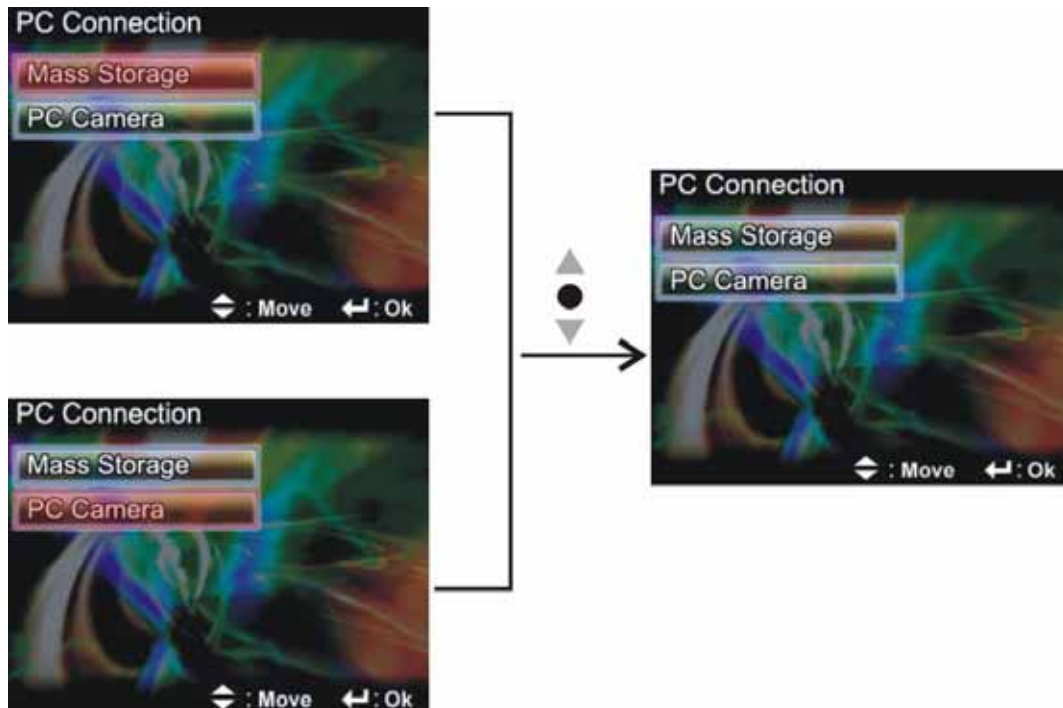
- Please make sure to connect the USB cable properly to prevent damage.

3. **Step three:**
Connect the larger plug of the USB cable to the USB port on the PC



4. Step four:

In a moment the camera will enter the connect to PC mode:



5. Step five

Press the **up button ▲** or **down button ▼** to select **removable disk** or **webcam** and then press the **confirm button ◀**. The camera screen will shutoff and enter the appropriate function. If you select **removable storage**, a removable disk will appear in the system's "My Computer". The newly added removable disk will be the SD/MMC card reader on the digital camera, and you may begin to use the function. If you selected **web cam**, you can use the web cam function to video conference with friends over the Internet (see Section 9).

System requirements

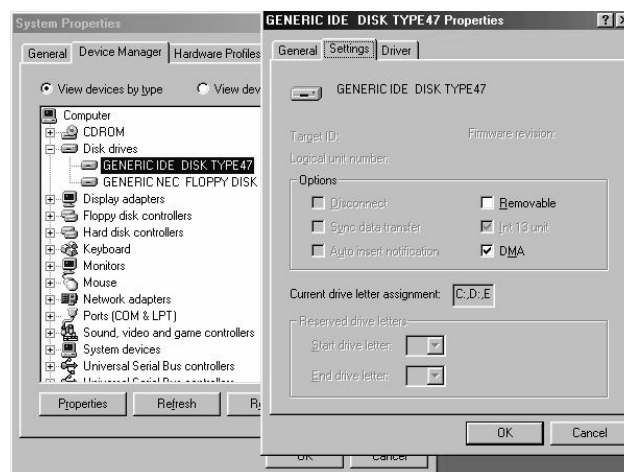
During operation and use of the digital video camera, please refer to the minimum system requirements for the digital video camera. We strongly suggest you operate the digital video camera on higher level PC equipment for even greater performance. The digital video camera minimum system requirements are as below:

System requirements (PC)	
Operating system	Microsoft Windows98SE, Me, 2000, XP

CPU	Intel® Pentium 500 MHz or above
Memory	256MB or above
Optical drive	4x or above
Hard drive	At least 200 MB of available disk space
Others	One standard USB 1.1 port

For Microsoft Windows98SE/Me users, please connect the larger USB plug to the PC USB port and the other end to the digital video camera USB port after installing the drivers and application software. When the camera enters the “connection to PC” page, press the **up button ▲** or **down button ▼** to select **webcam** and then press the **confirm button ●**. Then follow the below procedures:

1. **Step one:**
Right click on “My Computer”.
2. **Step two:**
Then select “Device manager”.
3. **Step three:**
Select “GENERIC IDE DISK TYPE47” and then choose “Properties” to show the below screenshot:



4. **Step four:**
Please select “DMA” and then press OK.



NOTE

- When playing back video on the PC, make sure the PC has DirectX8.0 or newer versions and is supported.

Section 8

PC cam mode and software applications

When the camera is connected to a PC, you will be able to use the camera as removable storage or PC webcam.

Removable storage

The digital video camera is able to provide removable storage functions as a card reader. You can use this camera as an SD card or removable disk.

If your operating system is Windows 98SE, you will need to install the camera drivers. Windows XP/ME/2000 operating systems supports Plug-and-play and does not require manual installation of drivers.

When the drivers are already installed and connected to the camera, the camera built-in memory and the SD memory card will be shown in Windows My Computer as removable storage. Drag and drop files normally as you would for any general disk drives.

PC cam

You must install the camera drivers to be able to use the camera as a PC cam on all Windows operating systems (Windows XP/ME/2000/98SE).



NOTE

- All operating systems can accept and install this driver version.

To use the digital camera as a PC cam:

1. Insert the supplied CD-ROM in the CD-ROM drive.
2. If the CD-ROM doesn't automatically boot, use Windows Explorer to execute the **InstallMgr.exe** file in the root directory.
3. Click "**Driver**" to start installation.

4. Follow the on screen instructions.
5. Click **Finish** to restart the computer and the video camera driver installation is complete.
6. Use the included USB cable to connect the camera with the PC as described in Section 8.

Presto! Video Works 6

Presto! Video Works 6 is advanced application software for video editing.

Install Presto! Video Works 6 :

1. Insert the included CD into the CD-ROM.
2. If the CD does not auto-run, use Windows file manager to run the executable InstallMgr.exe under the root directory on the CD.
3. Press the install button and follow the on screen instructions.
After application is started, you can find more information on Presto! Video Works 6 in the help files.

Presto! Mr. Photo 3

Presto! Mr. Photo 3 is advanced application software for photo editing.

Install Presto! Mr. Photo 3 :

1. Insert the included CD into the CD-ROM.
2. If the CD does not auto-run, use Windows file manager to run the executable InstallMgr.exe under the root directory on the CD.
3. Press the install button and follow the on screen instructions.

After application is started, you can find more information on Presto! Mr. Photo 3 in the help files.

XviD codec for PC

This Video Camera supports 2 MPEG4 video file formats; please make sure you use the correct software while playing the videos on PC:

AVI: please install XviD codec (included in the Software CD).

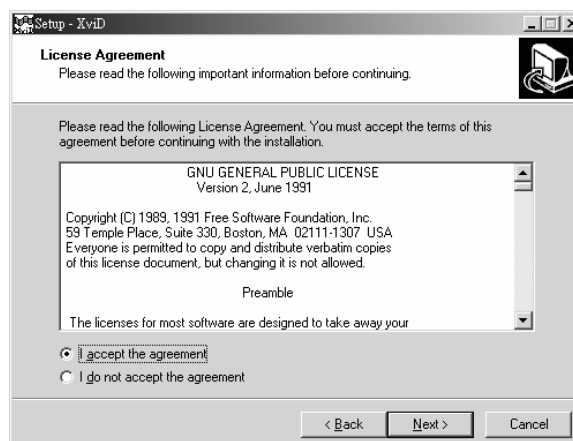
ASF: Window Media player 9.0 or above is recommended.

Installing the XviD codec program

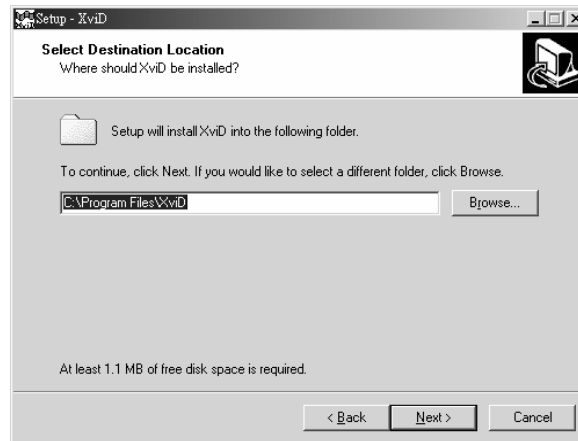
1. Insert the Software CD supplied into the CD-ROM drive
2. Double click on the "My Computer" icon on the desktop. Then double click the CD-ROM drive icon and click the setup file of Xvid in the root directory.
3. Click "XviD.exe" to start the installation. The setup screen will appear, please click "Next" to continue.



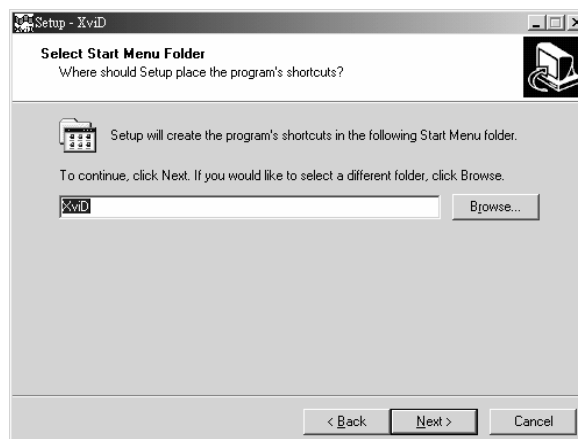
4. Click "I accept the agreement" to accept the conditions of Software License Agreement and click "Next" to continue.



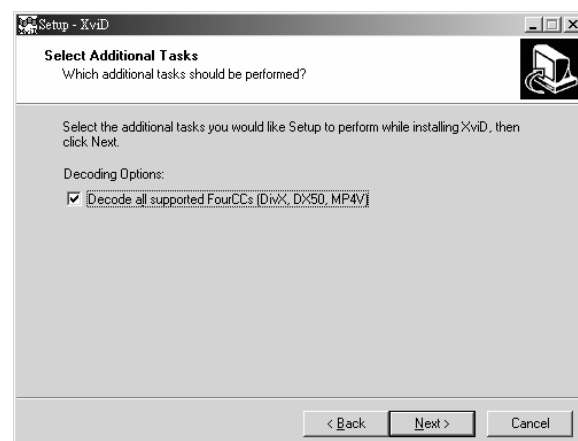
Click "Browse" to select the folder location and click "Next" to continue.



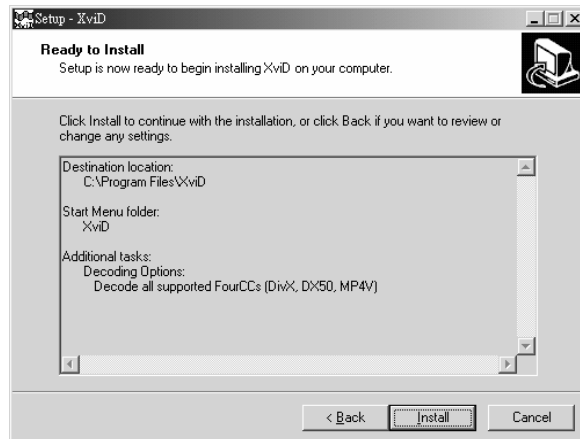
- Click "Browse" if you want to select a different program folder or click "Next" to continue.



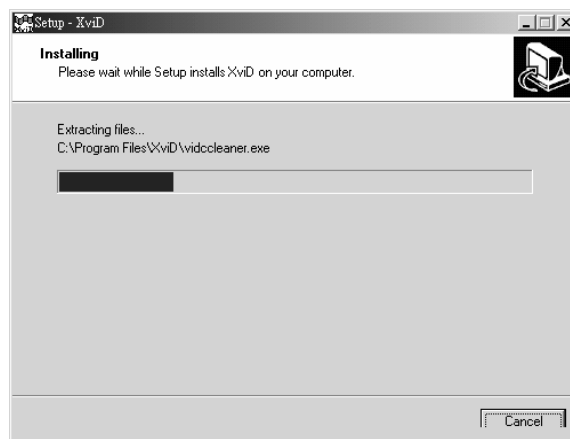
- Enter the additional tasks setup screen and press "Next" to continue.



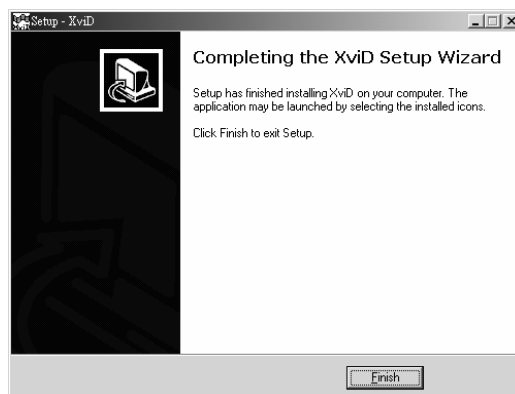
7. Enter the main program setup screen and press "Install" to start the installation.



8. During the installation, press "Cancel" if you want to stop setup.



9. The following screen will appear after the installation is completed. Click "Finish" to complete the installation.



Section 9

Specifications

Digital video camera specifications:

Item	Description
Sensor	5.17 Mega pixel CMOS sensor
Lens	f=8.4 mm Normal distance: 40cm ~ ∞ Close-up distance: 12 ~ 40cm
Aperture	F / 2.8, 8.0
Exposure	ISO 100
Shutter	Mechanical shutter + electrical shutter
Shutter speed	1/4 sec ~ 1/1000 sec
Storage format	Built-in 32MB, Flash Memory SD Card (MMC compatible) slot (maximum supported 2GB)
White balance setting	Auto, sun light, light bulb, florescent light, cloudy
Image resolution	4048x 3040 (firmware simulated) 3264 x 2448 (firmware simulated) 2608x1952 2048 x 1536 1600 x 1200 640x480
File format	Still image JPEG, video MPEG 4 (AVI, ASF), audio recording: WAV
Digital zoom	4x
PC Cam mode	640 x 480 / 30 fps, 320 x 240 / 30 fps

Item	Description
Flash light modes	Off/auto/force/red-eye
TV-OUT output	NTSC / PAL
Power	NP- 60 Rechargeable Li-ion Battery
Dimension (WxHxD)	Approx. 132(L)*54(W)*73(H)mm (excluding protruding parts)
Weight	Approx. 245 g (without the battery & SD memory card)

Section 10

Troubleshooting

Power Supply

Symptom	Cause	Measure
The power does not come on.	The battery is not loaded.	Load the battery correctly.
	The battery is exhausted.	Recharge battery with charger.
	The AC power adapter is not connected correctly.	Reconnect it properly.
The power cuts out during use.	The camera was left unattended and unused, so the auto power off cuts it off.	Turn the power back on.
	The battery is exhausted.	Recharge or use the AC power adapter.
The power does not go off.	Camera malfunction.	Reload the battery. If using the AC power adapter, reconnect it.
The battery runs out quickly.	It is being used in extreme low temperature.	
	Many shots are being captured in dark places inside, requiring flash.	
	The battery is not fully charged. The battery is not used for an extended period of time after charged.	Fully charge the battery and discharge it for at least one complete cycle before use to maximize its performance and lifetime.
The battery or	Long period of continuous	

Symptom	Cause	Measure
camera feels warm.	use of the camera or the flash.	

Shooting

Symptom	Cause	Measure
Even if I press the shutter button, the camera does not shoot.	The battery is running low.	Recharge or use the AC power adapter/charger.
	The power is not on.	Turn the power on.
	The camera is not in shooting mode.	Slide the mode switch to shooting mode.
	The shutter button is not pressed all the way.	Press the shutter button all the way.
	The memory card does not have any free space.	Load a new card, or delete unwanted files.
	End of memory card life.	Load a new memory card.
	The flash is recharging.	Wait until the status LED off
	The memory card is unrecognized by the camera.	Format the memory card in this camera before its first use or when it was used other than this camera.
	The auto power off function is activated.	Turn the power on again.
Images do not	The memory card is write-protected.	Remove the write-protection.
	The power is not on.	Turn the power on.

Symptom	Cause	Measure
appear on the LCD monitor.	The LCD monitor is dark.	Adjust the brightness of the LCD monitor in the photography or playback menu.
Although it is set to Auto Focus, it does not focus.	The lens is dirty.	Wipe clean with a soft, dry cloth or lens paper.
	The distance to the subject is smaller than the effective range.	Get your subject within the effective focus range.
The flash does not fire. The flash cannot recharge.	The flash is set to no flash.	Set the flash to auto flash.
Even though the flash fired, the image is dark.	The distance to the subject is greater than flash effective range.	Get closer to your subject and shoot.
The image is too dark.	The image was captured in a dark place while set to no flash.	Set the flash to something other than flash off mode.
	It is under-exposed.	Set the exposure compensation to a larger value.
The image is too bright.	It is over-exposed.	Set the exposure compensation to a smaller value.
The image lacks natural color.	The image was captured in conditions that are hard for Auto White Balance to adjust to.	Add a white object to the composition.

Playback

Symptom	Cause	Measure
Cannot playback.	It is not set to playback mode.	Toggle  to playback mode.
The contents of the memory card cannot be played back.	You played back a memory card that was not formatted by this device.	Load a card that was formatted and stored on by this device.
Files cannot be deleted.	The file is protected.	Cancel protection.
	You played back a memory card that was not formatted by this device.	Load a card that was formatted and stored on by this device.
	The memory card is write-protected.	Remove the write-protection.
Cannot format a memory card.	The memory card is write-protected.	Remove the write-protection.
	End of memory card life.	Load a new memory card.
The playback image is dark though I used the flash.	The LCD monitor is too dark.	Adjust the brightness of LCD monitor.

Other Problems

Symptom	Cause	Measure
Even when the camera's buttons are pressed, it does not operate.	The battery is running low.	Recharge battery with charger.
	Camera malfunction.	Turn the power off and remove the battery once, and try again.
The date and time is wrong.	The correct date and time is not set.	Set the correct date and time.
The date set has disappeared.	The battery is removed with the power still on.	Set the date and time again.

About connecting to your computer/software

Symptom	Cause	Measure
Cannot download images.	The free space on the hard disk in your computer may be insufficient.	Check whether the hard disk has a space for running Windows, and if the drive for loading image files has a capacity at least that of the memory card inserted in the camera.
	No power supply.	Recharge the battery or use the charger or turn the power on.
	The USB driver is not installed (for Windows 98/98SE).	Install USB driver.