Instructions for Use

Important: Please read before using and retain for future reference
Welcome

This 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.

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.

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, or even chat with your family and friends face-to-face on the Internet, this digital video camera is your best choice and companion.
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1. Precautions

Please carefully read through this user manual before use, and follow the instructions for operation to prevent unit damage due to inappropriate operation.

Safety precautions

● The included CD is a PC software only compact disk and not an audio CD. Please do not playback on stereo or personal equipment to prevent damage to the CD.

● This product is a precision unit, please do not disassemble as the internal high voltage components might cause electrical shock or fire hazards. Please do not place this product under direct sunlight to prevent fire hazards.

Batteries

Observe the following instruction when handling battery used in this product.

● Do not mix battery types.
● Do not mix old and new batteries.
● Remove batteries if the product is not in use.
● Do not bury or burn batteries.
● Do not attempt to recharge non-rechargeable batteries.
● Ensure rechargeable batteries are removed before being charged.
● Remove exhausted batteries immediately.

Precautions before use

● Please do a test shoot before actual filming
Before important filmings (weddings or overseas travel), please do a test shoot to make sure the digital video camera functions normally. Any additional damage caused by malfunction of this product (fees for filming and revenues lost etc), we will not be responsible for any compensation amends.

● Copyright related issues

All images captured by digital video camera, unless authorized by the rights holder, shall not violate copyright laws. In addition, if filming is prohibited for live performances and exhibitions, even if just for personal use filming is not allowed. Memory card transfers of data and copyrighted images should be bound within the range of copyright lays and not be exceeded.

We will strive to ensure the contents of this manual are up to date. However, the accuracy cannot be guaranteed. If contents in the manual does not match with the camera, please use the camera as reference. We reserve the right to not notify in advance any changes in contents and technical specifications.
If the packaged contents do not match the indicated accessories, please use the actual contents as reference.

● About the LCD screen

If the LCD display is damaged, please follow the following instructions about the liquid crystals from the display:

1. If the liquid crystal makes contact with the skin, please wipe with a cloth and then wash with large amounts of water.

2. If the liquid crystal makes contact with the eye, please wash with clean water for at least 15 minutes, and then rush to a hospital.

3. If liquid crystal is swallowed, please wash mouth cavity, drink large amounts of water and induce vomit, then rush to a hospital.

Precautions before operation

This product is composed of precision electrical components, in order to ensure correct image recording, please do not apply heavy shock or impact of the digital video camera during operation.

● Avoid operating and storing in the following locations.
   1. Damp and excessively dusty environments.
   2. Direct sunlight location and enclosed cars, or other high temperature locations.
   3. Violent vibrating environments.
   4. Smoky, grimy and hot environments.
   5. Strong magnetic field environments.
   6. Rain and snow environments.

● When the digital video camera power is on, please do not open the battery lid.

● If the digital video camera interior is water logged, please immediately turn off power and remove the battery.

● Care and handling of digital video camera
   1. If discovering that the lens, LCD screen surface, and viewing window are dirty, please use a lens brush and lens cloth to wipe clean. Please avoid touching the lens with your fingers.
   2. To avoid scratches to the lens LCD screen surface, and view window, please do not bump the digital video camera against hard objects.
   3. Please wipe the digital video camera exterior with a soft dry cloth and do not use cleaners or volatile solutions, or the digital video camera exterior shell and paint will disfigure and deteriorate.
Package contents

- Digital Video camera
- Wrist strap
- Leather case and
- Lens cap strap
- Headphones
- USB cable
- Audio IN/OUT cable
- Video IN/TV OUT cable
- DC-IN Connector
- DC IN 5V Adapter (please base on actual content)
- NP-60 Li-Ion battery (optional)
- LBC003 charger stand (optional)
- CD (includes drivers)
- Instruction manual
• Digital Video camera
• Wrist strap
• Leather case and
• Lens cap strap
• Headphones
• USB cable
• Audio IN/OUT cable
• Video IN/TV OUT cable
• Lens cap
• DC-IN Connector
• DC IN 5V Adapter (please base on actual content)
• LBC003 charger stand (optional)
• NP-60 Li-Ion battery (optional)
  • CD (includes drivers)
• Instruction manual
2. Understanding Digital video camera

Digital Video Camera construction

Top view:

1. **Shutter button** - filming
2. **MUSIC button** – enters MP3 playback mode.
3. **ZOOM button** – Digital zoom (under radio and MP3 playback modes functions as volume control)

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** – Through the USB port connecting to a PC, the user 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 Pen-Driver to perform data transfer.

2. **TV plug** – Through the **TV plug** connecting to a TV, VCR, the user can view photos and videos from the digital video camera on the TV.

3. **Audio plug** – Through the audio plug connecting to a headphone, the user can listen to music on the digital video camera. At the same time, this can function as audio output plug.

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** – Between the mode selection buttons, mainly for video/audio recording functions.
4. **DISP/SET button** – Under different modes will access the camera setup screen, as well as turn on/off the LCD.
5. **Power switch** – Pressing this button when digital video camera is turned off will turn on the digital video camera, pressing this button when digital video camera is turned on will turn off the digital video camera.
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:
1. **Up button (▲)** – Under different menu selections enables the up selection, plays the previous song, photo, 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, etc. Under photo mode, it can also be used to select macro close-up mode.
3. **Confirm button (✓)** – Mainly used to confirm an operation, and to 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:
1. **Battery compartment lock** – Flip lock to open 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
Charging the battery
Insert the battery into the charger as shown and connect the power supply to the charging unit and the mains supply.
Before insert the battery, the charger indicate light shows green.
Inserted the battery, the charger indicate light shows red, and the battery is in charging.
When battery is fully charged, the charger indicate light shows green, the charging is complete.
3. How to use DIGITAL VIDEO CAMERA

Preparations before operation

- First step: Please insert four AA alkaline or rechargeable batteries and check the battery life. If the battery life is low, please immediately replace the batteries to ensure proper digital video camera operation.

- Second step: Please insert the memory card as per the direction illustrated correctly into the
memory card slot. To remove the memory card, first lightly press the memory card and the memory card will automatically pop up.

Note: When the memory card is inserted in the digital video camera, will turn off the camera beforehand and require a restart. 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.

4. Begin to use your digital video camera

● Step one 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
Movie mode

Video mode
- Capture video: start/stop
- Digital zoom: 1x~4x
- EV adjustment: +2EV~2EV
- File format: AVI/ASF
- Effects: Color/B&W/Sepia

Video menu
- White Balance: Auto/Sunny/Cloudy
- Tungsten/Fluorescent
- Size: VGA/QVGA
- Image quality: Fine/Normal

Video playback:
- Volume adjustment
- Video playback menu:
- Playback

Delete:
- Delete One/
- Delete All

Protect:
- Lock One/
- Unlock All

Photo mode
**Photo mode**

- Snapshot
- Auto exposure setting
- Digital zoom: 1x~4x
- EV adjustment: +2EV~2EV
- Selftimer: off/5sec/10sec/30sec
- Flash light: off/auto/force/red eye
- Macro: normal/macro
- Effects: Color/B&W/Sepia

**Photo menu:**
- White balance: Auto/Sunny/Cloudy/Tungsten/Fluorescent
  - Size: VGA/2M/3M/5M/8M/12M
  - Image quality: Fine/Normal
  - Date stamp: On/Off

**Photo playback:**

- Photo playback menu:
  - Delete: Delete One/Delete All
  - Protect: Lock One/Unlock All
  - Slide Show

- DPOF:
  - Set single
    - Select All/Select None/Select One/Date On/Date Off/OK

- DPS:
  - Print All/Print One/Cancel

**MP3 playback mode**

**MP3 Play:**

- Music playback
  - Playback/pause/stop
  - Play/Repeat One/Repeat ALL
  - Next song/previous song

- Volume adjustment

**MP3 player menu:**
- Delete: Delete One/Delete All
- Protect: Lock One/Unlock All
Setup mode

- Button beep: on/off
- Date/time
- Language: English/Traditional Chinese/Simplified Chinese/French/German/Italian/Italian/Japanese/Spanish/Russian/Korean/Turkish/Portuguese/Dutch/Arabic
- Format: OK/Cancel
- Memory status
  - Movie count
  - Photo count
  - Voice count
  - Music count
  - Free Space
- Default: OK/Cancel
- TV System: NTSC/PAL
- Frequency: 60 Hz/50 Hz
- Auto power off: off/1 min/3 min
- Copy to card: OK/Cancel

Audio mode

- Record
- Record playback
- Playback/Pause/stop
- Next song/previous song
- Volume adjustment
- Audio playback menu:
  - Delete: Delete One/Delete All
  - Protect: Lock One/Unlock All
Video mode 

Rotate 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) control similarly)

**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.

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 capturing:

● 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.
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 **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 not created by this camera, 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 number of files already stored on the camera. The file extensions should be either AVI or ASF (please make sure the file type is supported by the camera: AVI, ASF) and then copy the file to the directory DCIM/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, self-timer, 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** v to select image size option, then press the **confirm button** ↔. There will be six photo size options.
2. Press **up button** ^ or **down button** v 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** v to select image quality option, then press the **confirm button** ↔.
2. Press **up button** ^ or **down button** v 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:
- **Step one** Make sure the digital video camera is turned on
- **Step two** Aim the digital video camera at the object to capture, and view the filming angle from the LCD screen
- **Step three** Press the **shutter button** slightly to the first stage to lock the focus
- **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:
- **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.
- **Step two** Please follow the procedures on how to take pictures to take the photo

Capturing general photo:
- **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.
- **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. If the photo to be played back is not created by this camera, please rename the photo file name in the format as PHOT0001.jpg. The suffix "0001" of "PHOT" should be changed accordingly to the number of photos already stored on the camera. The file extensions should be JPG and then copy the file to the directory DCIM/100FSCAM. If the directory does not exist, please first take a photo and then copy the file to the created directory. (Note: This camera only supports photo file with
JPG format)
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 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 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 select Confirm or Cancel, press the confirm button ➡ to either protect single file or cancel protection, a lock icon 🔒 will now appear on the upper right corner of the screen.

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: 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.

**Hide 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 hide date option, then press the **confirm button ▼** to hide the date on all printed photos.

After setup is complete, insert the SD card to the printer to perform printing.

Procedures as below:
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 to be notified 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

1. 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 play music:
Under MUSIC playback mode, press up button ▲ or down button ▼ to select songs, then press confirm button to playback music (if there is no music file on the camera, then connect the camera to a computer as a removable storage disk first (please refer to: 8. How to connect to computer), then copy the song files to the MUSIC folder on the camera. Note: This camera only supports music file with MP3 format) Select songs to be played, press DISP/SET button to select playback in sequence with Normaloppel, Repeat Single Track 1 and Repeat All (Factory default is Normal). Procedures 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 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 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.

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.

Audio mode

Rotate the mode selection dial to  , the screen will display:

![Audio Mode](image)

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. If the audio to be played back is not created by this camera, please rename the audio file name in the format as WAVE0001.wav. The suffix "0001" of "WAVE" should be changed accordingly to the number of audio files already stored on the camera. The file extensions should be WAV and then copy the file to the directory DCIM/100FSCAM. If the directory does not exist, please first record an audio file and then copy the file to the created directory. Note: This camera only supports audio file with WAV format.

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 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 audio 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 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, then press **DISP/SET button** to enter the setup mode.

**Status indicator:**
At the setup mode, the user can modify the following options:
1. Date/time
2. Beep
3. Format
4. Defaults
5. Memory status
6. Language
7. TV system
8. Auto power off
9. Frequency

10. 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.

- Date/time: yr/mo/date/hr/min/sec
- Button beep: on/off
- Format: confirm/cancel
- Factory defaults: confirm/cancel
- Memory info: video file count/photo file count/MP3 file count/audio file count/free space
- Language: English/Traditional Chinese/Simplified Chinese/French/German/Italian/Japanese/Spanish/Russian/Korean/Turkish/Portuguese/Dutch/Arabic
- TV system: NTSC/PAL
- Auto shutoff time: off/one minute/three minutes
- Light source frequency: 60Hz/50Hz
- Copy to card: confirm/cancel
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.

5. **Video/audio out**
You can use the “video/audio out” on the digital video camera to output the video/audio to an external device (such as: TV), the method is 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.

6. How to connect to PC
The digital video camera can also function as a webcam/storage device, procedures as below:

- **Step one** Make sure the digital video camera is installed with four “AA” batteries/NP-60 Li-ion battery.

- **Step two** Connect the smaller end of the USB cable plug to the USB port on digital video camera.

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

*Note:* Please make sure to connect the USB cable properly to prevent
Step four In a moment the camera will enter the connect to PC mode:

Step five Press Up button ▲ or Down button ▼ to select removable disk or webcam and then press confirm button, the camera screen will turnoff and enter the appropriate function. If removable disk is selected, then there will be a newly added removable disk appearing in “My Computer” of the system. The newly added removable disk is the SD/MMC card reader provided by the digital camera and is ready for you to use. If webcam is selected, then the digital camera can be used as a webcam. For a clearer image on the computer display, please focus onto the target before using the digital camera. You will be able to visually connect with friends through the Internet using the webcam camera.

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:

<table>
<thead>
<tr>
<th>System requirements (PC)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Microsoft Windows98SE,Me, 2000,XP</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel® Pentium III 500 MHz or above</td>
</tr>
<tr>
<td>Memory</td>
<td>256MB or above</td>
</tr>
<tr>
<td>Optical drive</td>
<td>4x or above</td>
</tr>
<tr>
<td>Hard drive</td>
<td>At least 200 MB of available disk space</td>
</tr>
<tr>
<td>Others</td>
<td>One standard USB 1.1 port</td>
</tr>
</tbody>
</table>
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:

● **Step one** Right click on “My Computer”.

● **Step two** Then select “Device manager”.

● **Step three** Select “GENERIC IDE DISK TYPE47” and then choose “Properties” to show the below screenshot:

![Image of System Properties with GENERIC IDE DISK TYPE47 selected](image)

● **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.
7. Drivers and software applications

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

Note: All operating systems can accept and install this driver version.

The digital camera can be used as a PC webcam.
Please follow the below instructions:
Insert the included CD into the CD-ROM.
If the CD does not auto-run, use Windows file manager to run the executable InstallMgr.exe under the root directory on the CD.
Displays the below screen.

Press the install button to install the drivers.

Please follow the on screen instructions.

Press “finish” to restart the PC and complete the driver installation.

**Load the driver**

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 to install the drivers.
4. Please follow the on screen instructions.
5. Use the included USB cable to connect the camera with the PC as described in the chapter (Connect to PC).
2. **Presto! Video Works 6**
   Presto! Video Works 6 is an 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.

3. **Presto! Mr. Photo 3**
   Presto! Mr. Photo 3 is an 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.
4. XviD codec for PC

Installing the XviD codec program

1. Insert the Software CD supplied into the CD-ROM drive
2. Please 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. In some PC users’ settings will execute AutoRun when CD-ROM is inserted, in this case please click right button to open the CD-ROM drive icon for access to the Xvid setup file 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.
5. Click "Browse" to select the folder location and click "Next" to continue.

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

7. Enter the additional tasks setup screen and press "Next" to continue.
8. Enter the main program setup screen and press "Install" to start the installation.

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

10. The following screen will appear after the installation is completed. Click "Finish" to complete the installation.
8. Digital video camera specifications

Digital video camera specifications:

- **Lens:** f=8.4 mm
- **Sensor:** 5.17 Mega pixel cmos sensor
- **Aperture:** F / 2.8, 8.0
- **Exposure:** ISO 100
- **White balance setting:** Auto, sun light, light bulb, florescent light, cloudy
- **Shutter:** Mechanical shutter + electrical shutter
- **Shutter speed:** 1/4 sec ~ 1/500 sec
- **Storage format:** Built-in 32MB, Flash Memory SD Card (MMC compatible) slot (maximum supported 2GB)
- **File format:** Still image JPEG, video MEPG 4(AVI, ASF), audio recording: WAV
- **Image resolution:**
  - 4048x3040 (firmware simulated)
  - 3264x2448 (firmware simulated)
  - 2608x1952
  - 2048x1536
  - 1600x1200
  - 1280x960
  - 640x480
- **Digital zoom:** 4x
- **Normal distance:** 40cm ~ ∞
- **Close-up distance:** 12 ~ 40cm
- **Shutter auto timer:** Off, 5 sec, 10 sec, 30 sec
- **PC Cam mode:** 30 fps. (320 x 240), 30 fps. (640 x 480)
- **Flash light modes:** Off/auto/force/red-eye
- **TV-OUT output:** NTSC / PAL
- **PC Interface:** USB2.0
- **Power:** “AA” alkaline battery x4/Ni-Cd/Ni-MH Battery or Rechargeable Li-ion Battery NP-60
- **Dimensions:** 132(L)*54(W)*73(H)mm
- **Weight:** About 245g (not including batteries)
- **PHOTO/VIDEO CAPACITY FOR DIFFERENT MEMORY SIZE**
## PHOTO/VIDEO CAPACITY FOR DIFFERENT MEMORY SIZE

<table>
<thead>
<tr>
<th>MODE FILE</th>
<th>SIZE</th>
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</table>
## 9. Troubleshooting

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>System hangs when the digital video camera hangs during operation and cannot accept input</td>
<td>Please check the battery contacts and then restart. If not able to restart, check if unnecessary operation has caused damage to digital video camera. Do not attempt to disassemble and please return for repair.</td>
</tr>
<tr>
<td>Error message when entering direct printing service</td>
<td>For error messages appearing when entering direct printing service, you should remove the USB plug from the digital video camera and check whether the printer is functioning properly; and the digital video camera is sufficiently charged. Follow the normal operating procedures to connect to the printer to perform printing.</td>
</tr>
<tr>
<td>System hangs when card is removed</td>
<td>During digital video camera operation do not attempt to remove the memory card, doing so may result in system hanging. If the situation occurs, please restart the unit.</td>
</tr>
<tr>
<td>Digital video camera cannot format the memory card</td>
<td>The digital video camera cannot guarantee to perform formatting on all memory card formats. When this happens, please format the memory card on a PC as the FAT format.</td>
</tr>
</tbody>
</table>

## 10. Disposal and the Environment
This product is covered by the Waste Electrical and Electronic Equipment (WEEE) regulations. It should not be discarded with normal household waste, but taken to your local collection centre for recycling. For further information, please contact the local authority or approved disposal agency.

**Satisfaction Guaranteed**

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However, if for any reason you are unhappy with your purchase

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Please keep your receipt as proof of purchase

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