Preface

Please read this manual carefully before any operation

This Manual covers all proper way of operation of the camera and relevant important notes. We sincerely hope that you read this manual carefully so as to operate the camera properly. 20 minutes' reading may save you a lot of time.

Special attention: Taking compatibility of SD/MMC card into consideration, you must carry this camera to test the SD/MMC card should you need to buy extra SD/MMC card from thirty party. Buy SD/MMC card that is compliant with this camera only.

A. Working condition
   Temperature: 0°~45°
   Relevant humidity: 45%~80%
   Air Pressure: 56Kpa~106Kpa
B. Security Precaution
   - Please do not attempt any method to modify the camera. Otherwise fire, hurt, electric shock or damage to the camera may be caused.
   - When working under sharp light, do not point the lens straight to sharp light or take a photo, otherwise the image sensor component may be damaged.
   - Never fire the flash while it is too close to the subject's eyes. Intense light from the flash can cause eye damage if it is fired too close to the eyes. This is especially true with young children. When using the flash, the camera should be at least one and a half meters from the eyes of the subject.
   - Do not take photos where there is explosive, which may increase the danger of explosion.
   - Keep the small parts and accessories of this camera out of reach of small children to prevent accidents.
   - Keep away from moisture to prevent damage caused by short circuit.
   - Never load leaking or wet battery into the camera. Any accessory attached to camera should not carry water. In case that any liquid goes into the camera, please stop using and power off the camera immediately.
   - Do not touch the camera with wet hands to avoid electric shock.
   - Operation in high electromagnetic condition is prohibited.
   - Try not to store the camera for too long time. Battery should be taken off for storage.
   - Do not place the camera under high temperature (such as well-closed car or under sharp sunlight) or under unstable temperature. Exposure to high temperature may do harm to the internal components and may cause fire to camera.
   - Try not to unplug the USB cable when transfer of file is in progress, otherwise data lose may be caused. Furthermore, the USB port may be damaged or hang of computer may be caused.

- When the camera is working, please place the camera in a closed space because over-heated environment may damage the shape of camera or cause fire.
- Before putting the camera into package, please make sure that all accessories like cables are detached, otherwise damage may be caused to cable, and fire or electric shock may be caused.
- We are not responsible for any damage or loss caused by illegal operation.

Contents

1. Brief Introduction …… 4
- ◆ Outlook
- ◆ TFT Screen
- ◆ Definition of buttons
- ◆ Storage medium

2. Preparation before use …… 5
- ◆ Loading battery
- ◆ Loading SD/MMC card

3. Features and specifications …… 6
- ◆ Image / video clips
- ◆ Main Menu
- ◆ Playback image / video clips
- ◆ MP3
- ◆ Others

4. Operation ……6
- ◆ Power on / off
- ◆ Battery level Inspection
- ◆ Take photos / video clips
- ◆ Setting of main menu

5. Software Installation …… 11

6. Image downloading …… 12

7. Specification …… 12

8. Maintenance …… 13

1. Brief Introduction

1. Outlook

As per Figure-1

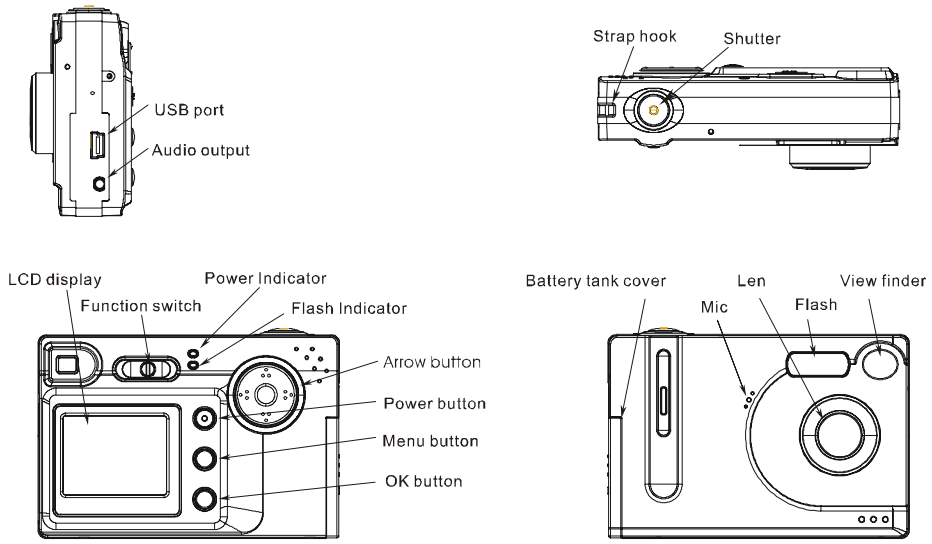
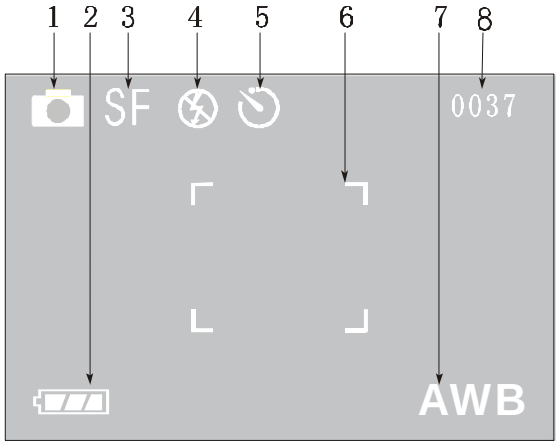


Figure-1

2. TFT Screen



As per Figure-2

1) Shooting mode
2) Battery level Indicator
3) Image resolution mode
4) Flash mode
5) Self-timer mode
6) Focus Frame
7) White balance mode
8) Indicator of free space left in number of image

3. Definition of buttons

1) Power button: On/Off
2) Function button: toggle of capture, playback and MP3 function.
3) Menu button: Start/close menu
4) OK button: In image playback mode, it is used to toggle flash mode; In menu mode, it is used to confirm menu; In MP3 mode, it is used to play / pause of music

5) Arrow button:

- Left arrow ("◀"): In menu mode, it is used for selecting menu; In MP3 mode, it is used to select previous song.
- Right arrow ("▶"): In playback mode, it is used to toggle white-balance mode; In menu mode, it is used to select menu; In MP3 mode, It is used to select next song.
- Up arrow ("▲"): In play mode, it is used to zoom in TFT display; In menu mode, it is used to select menu; In MP3 mode, it is used to increase volume.
- Down arrow ("▼"): In playback mode, it is used to zoom out TFT display; In menu mode, it is used to select menu; In MP3 mode, it is used to decrease volume.

4. Storage Medium

Storage medium includes built-in memory and external memory cards (SD/MMC cards)
Storage method: When there is no SD/MMC present, images, video clips and files transferred into the camera through USB cable are all stored inside built-in memory; When there is SD/MMC card present, they are all stored inside SD/MMC card.
Reading Sequence: When there is no SD/MMC present, Playback on TFT screen and files browsed from Computer via USB cable are all read from built-in memory; When there is SD/MMC present, they are all read from SD/MMC card.

2. Preparation before use

1. Loading of battery

1) Open the battery tank cover as per figure-3
2) As indicated in the battery tank cover ("+/-"), load 3 x AAA batteries into the tank with positive to positive, and negative to negative as per figure-4. (Ni-HM rechargeable is recommended).
3) Close the battery tank cover.

2. Loading SD/MMC

1) Open the battery tank cover
2) Insert the SD/MMC card into the slot in the indicated direction
3) Close the battery tank cover

3. Feature and specifications of camera

1. Shot of images / video clips

4) Single Shot: Shot of single image
5) Video Shot: Shot of video clips
6) Continuous Shot: Continuous shot of 4 images
7) Flash: Force no flash, force flash, red eye, auto flash

2. Main menu

1) White balance: Auto, sunny, shade,
2) Exposure mode: Auto
3) Exposure compensation: manual, –1.5~+1.5 6 level compensation
4) Self-timer: 10s delay
5) Auto shut off: Manual setting
6) Multi-linguage: English, French, German, Spanish and Chinese

3. Playback of images / video clip

1) Playback display: Single and 9 piece of simultaneous display
2) Delete and format: Delete current image / all, format built-in memory or SD/MMC card
3) Image brightness Adjustment: -1~+1 2 level adjustment

4、MP3 function

MP3 play, navigation and volume

5. Others

1) Support image manipulation softwares shuch as PHOTOSHOP and ACDSEE
2) Support Win98/Me, Win2000, WinXP operation system

4. Operation

1. Power on/off

Make sure that you have loaded the batteries. Press and hold the power button for 1~2 seconds, the camera is powered on with flash of power indicator and TFT screen on. Please press and hold the power button for 1~2 seconds again To power off. The camera will be powered off with flash of power indicator and TFT screen off. (Notes: you should get the batteries out of camera for long

time storage, otherwise the camera may be damaged by possible leakage of battery)

2. Inspection of battery level

When TFT screen is on, a battery level indicator icon will show on the left bottom of the screen. 3 level of battery can be displayed:

- : Normal battery level
- : Low battery level
- : Out of power

  When the camera is out of power, it will alert you that it is out of power and shut itself off automatically.

3. Shot of images / video clips

After power-on, a browser interface will be shown on the TFT screen, press menu button will pop up main menu

1) Shooting mode:

   Use left and right arrow button ("◀" and "▶") to select shooting mode "", and then press OK button to confirm. TFT screen will pop up extended menu: "", "", and "" (as per figure-6)

- : Single image mode
- : Video clips mode
- : Continuous image mode (4 images)

  The default mode is single image mode

2) Image quality mode

   Press and hold "OK" button until "SF" flashes, then press the arrow buttons to make a choice ("◀" and "▶") between different image quality modes ("SF", "F" and "E"):

- SF: Best Quality Mode
- F: Standard Quality Mode
- E: Basic Quality Mode
- The default mode is Best Quality Mode

3) Flash Mode

Under browser mode, press "OK" button to toggle flash mode (", ", ", and "):

- : Force No Flash
- : Auto Flash
- : Red Eye

- : Force Flash
  - ✓ The default mode is Force No Flash

4) White Balance Mode

Under Browser mode, press arrow button ("▶") to toggle white balance mode:

- AWB: Auto White Balance
- : Sunny
- : Shade
- : Fluorescence
- : Electric Light
  - ✓ The default mode is AUTO

4. Main menu setting

Press menu button, a main control menu will be displayed on the TFT screen (as per figure-5).

- Shooting mode

  Operation is the same as 3
- Advanced setting

  Use arrow button to select the icon of the main control menu, then press "OK" button to confirm or press up and down arrow button to pop up advanced setting menu .
  - Image Quality

    Owning to different image compressed level, the resolution and disk space occupied are different according to different image quality selected. Use up, down arrow button to move the pointer of the menu to "image quality" and then press confirm button to pop up sub-menu:
    - Best →Size of image is 1600x1200, which is indicated as "SF" on the screen
    - Standard →Size of image is 1280x960, which is indicated as "F" on the screen
    - Basic →Size of image is 640x480, which is indicated as "E" on the screen
    - Exit →Exit sub-menu

    Use up and down button to move the pointer to "Exit" and press confirm to exit. By then the setting is saved.
    - Exposure compensation

    It allows you to tune the default exposure level based on experience. Use up and down button to move the pointer to "Exposure compensation" and press confirm button to pop up sub-menu:
    - +1.5 →For low brightness environment. Exposure compensation increases by 1.5 units
    - +1.0 →For low brightness environment. Exposure compensation increases by

1.0 units

- For low brightness environment. Exposure compensation increases by 0.5 unit
  - 0 →Brightness is normal and no exposure compensation is needed (Default)
  - -0.5 →High brightness. Exposure compensation less 0.5 unit.
  - -1.0 →High brightness. Exposure compensation less 1 unit.
  - -1.5 →High brightness. Exposure compensation less 1.5 units.
  - Exit →Exit menu

  Use up and down arrow button to move the pointer to exit and press OK button. Then the sub-menu is closed and the setting is saved.

◆ Audio setting

In audio setting section, you can open or mute audio. Use up and down arrow button to move the pointer to "Audio setting" and then press OK button to pop up sub-menu:

- Open →Open buzzer
- Close →Close buzzer
- Exit →Exit sub-menu

Use up and down arrow menu to choose the appropriate item and press OK button to confirm. Submenu will close automatically and the setting is saved.

◆ Auto power off

Auto-power-off: When the camera is in idle mode for a certain period of time, it will power off automatically to save power. Use up and down arrow button to move the pointer to "auto power off" item and press OK button to pop up sub-menu:

- 1 minute →1 minute auto power off
- 3 minutes →3 minutes auto power off
- Close →Close auto power off
- Exit →Exit sub-menu

Use up and down arrow button to move the pointer to select appropriate item and press OK button to confirm. The sub-menu will close automatically and the setting is saved.

◆ Language setting

After the language is set, the entire interface will be changed to the specific language. Use up and down button to move the pointer to "Language setting" and press OK button to pop up sub-menu:

- ENGLISH
- FRANCEIS
- DEUTSCH
- ESPANOL
- CHINESE
- Exit

Use up and down button to move the pointer to select the desired language and press OK button to confirm. The sub-menu will close automatically and the

setting is saved.

- Driver Setting

  Digital camera driver: 2 different download methods are available to download the images from the camera. Use "▲" or "▼" to move the pointer to select "Driver setting":

  - Capture mode →Downloading is done via image manipulation software
  - Removable Disk →Images or files are be copied directly from or to computer
  - Exit →Exit sub-menu

- Use up and down arrow button to move the pointer and select appropriate item then press OK button to confirm. The sub-menu will be closed automatically and the setting is saved.

- Self-timer

Use " ◀ " or " ▶ " to select " OFF " , and use "up" and "down" button to select "self-timer". (As per figure-14)

- : Start "Self-timer"
- OFF : Close: Self-timer
  - ✓ Default mode is set as self-timer closed.

Use " ▲ " or " ▼ " button to select icon of menu, and confirm. Submenu will be closed automatically, and setting is saved.

5. Playback / review

Switch function key to " ▶ " , TFT screen will display playback.

1) Display :

Use "left" and "right" key to select " ▭ " , and press confirm. Please refer to figure-16 for TFT screen displays.

- ▭ : Single
- ▦ : Display nine pictures
  - ✓ Default is ▭

Use " ▲ " or " ▼ " button to select icon form menu, and confirm it. Setting is saved.

2) Delete and Format :

Use "left" and "right" key to select " 🗑 " , and press OK button or "down" button, TFT screen display interface as per figure-17 :

- Delete method
  - Delete one file →single;
  - Delete all files → Delete all files in SD/MMC.
  - Format →Format EMS memory or SD/MMC

◆ Exit →Exit menu

Use “▲”、“▼” button to move pointer, and confirm. Submenu will be closed automatically.

3）TFT screen light compensation：

Use “left” and “right” key to select “LCD 0”，and confirm.. TFT screen will display interface as picture 18：

- LCD +1：Add 1 unit
- LCD 0：0 Light compensation
- LCD -1：Reduce 1 unit

✓ Default setting is 0

Use “▲”、“▼” button to select icon, and confirm. Setting is saved.

6、MP3

Switch function to MP3, and TFT screens display MP3 interface.

1）If there is no music files in camera, MP3 interface displays “no files”

- First line displays “Track：”、“**（Song track number）”
- Second line displays “**.MP3”（name of songs）

✓ Use “◀” or “▶” button to select song. Plug earphone into audio port to listen to songs. Press “▲”、“▼” button to adjust volume.

2）If there is no music files in built-in memory, SD or MMC.

5. Software Installation

1. WIN98/2000

1）Driver for Capture mode

- Connect with power, and turn it on.
- On the menu screen, select “driver settings”, press menu button to trigger main menu. Use up and down button to select “driver settings” from the advanced setting menu. Then select “capture mode” in the sub-menu. The camera has been set to capture mode.
- Connect camera to PC through USB cable.
- A window pops up. Click “Next” continue.
- The Wizard prompts you to either display a list of drivers, or search for the best driver. Select the option “Search for the best drivers for your device (Recommended)”, and click “Next” to continue.
- The Wizard shows where to locate the driver. Select “Specify a location”, and then click “Browse”
- Select driver for WIN98-2K, and confirm.
- Click “Next” to continue till system finishes installing driver for camera

automatically.

- Click “Finish”.

2）Driver of removable disk

- Set driver of camera as removable disk., and rest operation is same as above.

  Note：WIN2000 can upgrade driver for removable disk automatically, so it does no need driver.

2. WINME/XP

1）Driver for capture mode

- Turn on camera.
- “Main menu” → “advance settings” → “driver settings” → “capture mode”, the camera has been set to capture mode.
- Connect camera to PC through USB cable.
- A dialogue window will pop up. Please select from specified places option and click “next” to pop up another dialogue window.
- Browse for the specified location from the CDROM.
- Select driver for WinME-XP, and confirm it.
- Click “Next” to continue. And System will install the driver automatically..
- Click “Finish”.

2）Driver of removable disk

- Set driver as removable disk driver, and rest operation is same as point 1.
- Note：WINXP system can upgrade driver for removable disk automatically. So it does not need driver under WINXP.

6. Pictures downloading

1. Select “driver settings” from menu by arrow buttons and confirm, then submenu will appear

2. On submenu screen, select driver and click “YES” to close menu. Connect camera to computer via USB cable.

2. If “Camera” mode is selected，then download picture through PHOTOSHOP、ACDSEE；If “Removable disk” is selected, then copy pictures directly.

7. Features and specification

1. Total pixels: 1688 X 1248
2. Actual pixels: 1600 X 1200
3. Color: 24 Bits
4. Lens: ISO100-400
5. Shutter: 1/10~1/1000
6. Self-timer: 10s

7. Digital zoom: 4X
8. Flash index: GN5
9. Flash restore time: 5s
10. Zoom: 0.8mm
11. Len F number: F/2.8
12. Field: 55 °
13. Range: 1.2m~∞
14. Optical capture rate: 0.6X
15. View finder field range: 75% of the field
16. LCD field range: above 95% of the field
17. Image format: JPEG
18. Memory: 16M
19. External storage: SD / MMC card (8, 16, 32, 64, 128, 256 and 512MB)
20. Image file size: 1600 X 1200; 1280 X960; 640 X480
21. Power source: 3 X AAA batteries
22. Dimensions: 88mm X 60mm X 17.9mm
23. Weight: 110g

8. Maintenance

1. Camera should be stored in case and remove all batteries when is not in use
2. Wear the strap in wrist firmly to avoid drop and damage when operating in outdoors, cars or boats.
3. Clean the lens, viewfinder, LCD etc with non-dust handkerchief after using.
4. Do not use the camera in conditions beyond the tolerance limit of the camera