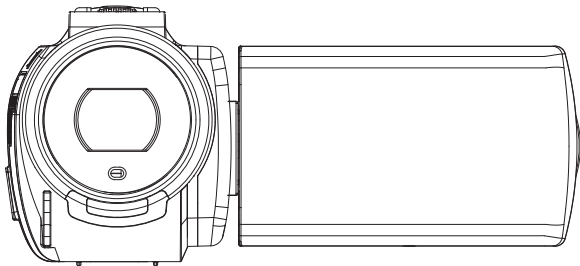


DIGITAL VIDEO CAMERA

多功能数码摄像机

用户手册

User's Manual



使用前请仔细阅读本手册
Please read the manual carefully before use

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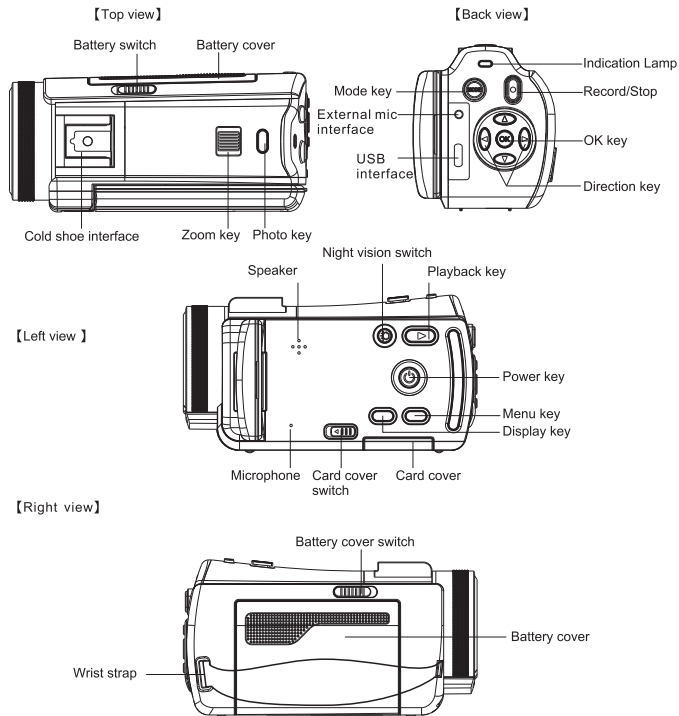
1.About the camera

1.1 System Requirement

When connecting this machine to the computer, it requires computer as following specification:













Pentium 2 GHz or above processor /Windows XP or above system /2GB memory / available disk space above 40GB /Standard USB interface /CD-ROM driver /1GB or above display card /1024 X 768 pixels or higher screen resolution

1.2 Camera Diagram



1.About the camera

1.3 Key Functions

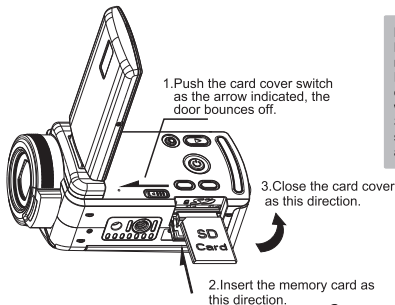
Button	Key Name	Functional Description
	Power key	Turn on/off
	Menu key	Switch the control menu in each mode
	Mode key	Switch video or photo shooting mode:  stands for photo shooting mode,  stands for video mode
	Direction key OK key	Direction key: Turn up, down, left or right shift direction OK key: Confirm
	Photo taking key	In photo shooting mode, press it to take a photo
	Playback key	In video or photo shooting mode, press it to playback the image or photograph
	Rec/Stop key	In record mode, press it to start/stop recording
	Display key	Press it to switch the display mode
	Night vision switch	Switch on/off night vision function
	W/T key	In photo and video mode, toggle it to left and right to achieve the zoom in and out; in photo play mode, zoom out / enlarge the photo; in video play mode, adjust the size.

2. Start to use

2.1 Insert the memory card

The memory card can be inserted to this machine to store more photos, videos, or other files. When in low battery or replace the battery, the files in the memory card won't be lost. Please insert it as following procedures:

1. Open the screen panel, and open the card cover as the picture.
2. Make sure the metal contacts of the memory card are inserted upwardly, and push it until it gives a "click", and the memory card has been assembled correctly.
3. As the picture, push the card cover inward till it sounds "click".



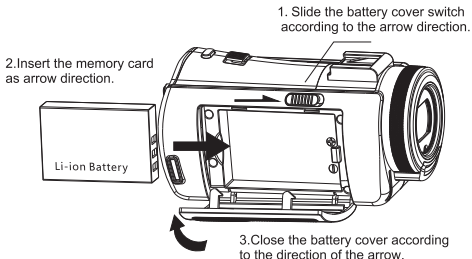
Notice!

Before use this machine, please format the memory card.
Please don't insert in or plug out this memory card in the status of power-on. Otherwise, it will break the memory card or lose data.
Some memory cards may result in machine shutdown or abnormal working. Please pay attention to the compatibility.

2. Start to use

Notice!

Please insert the battery correctly. The incorrect operation may result in accident!
Please don't use the non-standard charger.
The applicable power consumption of this adapter is:
AC 100V-240V/50-60Hz!



2.2 Battery Assembly

Assemble the Li-ion battery into the compartment as the direction on the picture.

1. As the picture, push it off and the battery cover bounces off, and then insert the battery.
2. Press the battery cover inward, and push it till it sounds the "click".

2.3 Charging the Battery

Please insert the battery correctly, and connect the machine and charger with standard USB cable.

It also can connect this machine to the computer for charging. Please charge the battery for six hours in first use.

2.4 Turn on/off the Machine

Press **【Power】** for two seconds, it can turn on the the power consumption of this machine.

Press power key again to turn off the camcorder. When the battery is low, the screen will display "low battery" and turn off the machine after several seconds.

2.5 Mode Switch

Press **【Mode】**, it can switch between the video and photo mode, and corresponding mode will be displayed on the left corner of this screen.

In video or photo mode, press the playback key, it can switch to the playback state in current to check the photo or video.

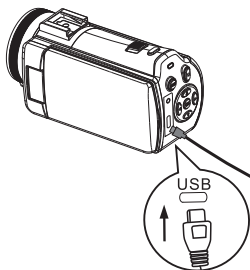
2. Start to use

2.6 Connect to the computer

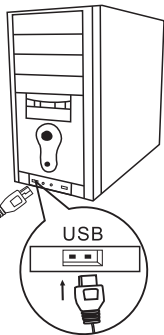
As below picture, this machine can connect with computer to transfer file, check and edit the video or photo.

After connecting, power on the machine, there will be two mode options shown on the screen: MSDC / PC Camera. MSDC indicates the machine is used as U-disk; PC camera indicates it's used as a PC camera. Press UP/DOWN to select desired option, press OK to confirm and wait the camera shift into corresponding mode. When choosing MSDC, the camera screen display as shown below; when choosing PC camera, use it with PC related software.

Screen displays after correct connection,



Use a USB cable to connect the camera to the computer



This terminal connects to the computer with USB cable.

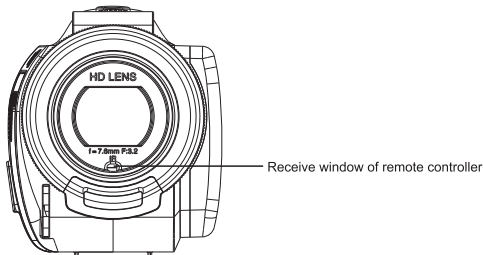
2. Start to use

2. 7 Use the Remote Controller

The camera supports remote control operation, please use the standard remote controller.

1. Before using, Please remove the film at the bottom of the remote control before use. If you do not use the remote controller for a long time, insert the film back to save battery power.
2. Please point the transmitting window of the remote control at the receiving window of the camera. No objects are allowed between the remote control and the camera receiving window.

Receive window diagram of the remote controller.



2. Start to use

This chapter helps you know well of this machine.

2. 8 Video mode

In video mode, it can record the video, and store it in memory card. Following is the icon meaning in this mode.

1.Video mode indicator	6.Memory card indicator	11.Sensitivity indicator
2.Video resolution indicator	7. Zoom indicator	12.Exposure indicator
3.Beauty face indicator	8. Battery indicator	13.White balance indicator
4.Night vision indicator	9.Effect indicator	
5.Recording time indicator	10.Sharpness indicator	



2. 9 Photo mode

In photo taking mode, it can photograph and store the photo in internal memory or memory card. Press the mode switch key, it switches to photo mode.

The icon meanings in photo taking mode are as following:

1. Photo mode indicator	7. Night vision indicator	13. Sharpness indicator
2.Photo resolution indicator	8. Remaining number indicator	14. ISO indicator
3.Beauty face indicator	9. Memory card indicator	15. Exposure indicator
4.Anti-shake indicator	10. Zoom indicator	16. Quality indicator
5.Face detect indicator	11. Battery indicator	17. White balance indicator
6.Smile capture indicator	12. Effect indicator	



2. Start to use

2. 9.1 Use zoom function

This machine has digital zoom function to achieve zoom when shooting. Push 【 W/T 】 on to the right can shrink its distance between the object (enlarge the object).

2. 9.1 Use infrared night vision mode

This machine has the infrared night vision function, which can record or photograph in dark environment.

In video or photo mode, press 【Night vision】 to turn on the function, and the night vision icon is displayed on the top screen of the machine. Machine enters night vision mode. Meanwhile, the screen displays in black and white, the captures photo and video are in black and white too. Press it again to restore normal.

Notice!

The night vision mode can be turn on / off in photo / video mode.

In night vision mode, it only can shoot black and white photos or videos, but can't shoot colorful file.

Zoom function can be used in photo and video modes, and both methods are the same.

3. Use the camera

This chapter helps you understand how to use each advanced function of this machine.

3.1 Photograph

This chapter introduces how to use this machine for photo. Turn on this machine, press the mode and switch to "photo mode".

1. Select and adjust the targeted shooting object according to the displaced icon on screen.
 2. Hold on this machine, and press 【 Photo 】 for photo .
 3. It can display the rest photo number on right corner of the screen in different resolution.
 4. When the memory card is full, the screen displays "Memory is full". Please remove the file or replace a memory card.
 5. The rest photo number is determined by memory card capacity and select resolution. The higher the resolution, the more memory it takes.
- Before taking photos, set the corresponding mode in photo mode. See the details as below.

3. Use the camera

3.1.1 Mode Set

This machine preset various scene modes, and the user can select best scene themselves.

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Mode Set";
2. Press **【Up/Down】** to select the scene: Auto/Night/Portrait/Landscape/Backlight/Sport/Party/Beach/High sensitivity/Cancel; Press **【OK】** to save and back to the photo mode.

3.1.2 Resolution

This function can set the photo's resolution, the higher resolution, the better quality, the bigger size.

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Resolution";
2. Press **【Up/Down】** to select desired resolution: 30M/24M/20M/16M/12M/10M/8M/7MHD/5M/3M/2MHD/VGA/Cancel; Press **【OK】** to save and back to the photo mode.

3.1.3 Beauty Face

After turning on the function, the skin of the portrait will be smooth and white.

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Beauty Face";
2. Press **【Up/Down】** to select the option: On/Off/Cancel; Press **【OK】** to save and back to the photo mode.

3.1.4 Shooting

This function is to set the the number of photos to take (single or continuous).

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Shooting";
2. Press **【Up/Down】** to select the option: Single/Continuous/Cancel; Press **【OK】** to save and back to the photo mode.

3.1.5 Self Timer

This function can take selfies or time-lapse photos by pressing the photo button.

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Self Timer";
2. Press **【Up/Down】** to select the option: Off/2S/5S/10S/Cancel; Press **【OK】** to save and back to the photo mode.

3.1.6 Exposure

This function allows users to adjust the brightness of the photos based on the ambient brightness. This function is invalid when the ambient brightness is low.

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Exposure";
2. Press **【Up/Down】** to select the option: +3/+2/+1/0/-1/-2/-3/Cancel; Press **【OK】** to save and back to the photo mode.

Notice!

Scene, selfie delay, photo quality, continuous shooting and other icon will be displayed in real time on the screen.

3. Use the camera

3.1.7 White Balance

This function is to adjust the color deviation of the photo according to the different light source environment.

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "White Balance";
2. Press **【Up/Down】** to select the required options: Auto/Daylight/Cloudy/Fluorescent/Tungsten/Cancel; Press **【OK】** to save and back to the photo mode.

3.1.8 Quality

This function can set the quality of the photos.

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Quality";
2. Press **【Up/Down】** to select desired quality: Super Fine/Fine/Normal/Cancel; Press **【OK】** to save and back to the photo mode.

3.1.9 Sharpness

This function is to adjust the sharpness to the edge of the picture sharper or softer.

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Sharpness";
2. Press **【Up/Down】** to select the required options: Sharp/Normal/Soft/Cancel; Press **【Ok】** to save and back to the photo mode.

3.1.10 Effect

This function can set the special effect of the photo files.

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Effect";
2. Press **【Up/Down】** to select the required options: Normal/B&W/Sepia/Red/Green/Blue/Sunset/Warm/Cool/Over Exposure/IR/Binary/Vivid/Undertone/Dog Eye/Aibao/Gothic/Japan Style/LOMO/Negative/Cancel; Press **【OK】** to save and back to the photo mode.

3.1.11 Sensitivity (ISO)

This function is to adjust the sensitivity (ISO) of photo. Auto mode is recommended.

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "ISO";
2. Press **【Up/Down】** to select the required options: AUTO/100/200/400/Cancel; Press **【OK】** to save and back to the photo mode.

3.1.12 Anti-Shake

Turning on this function to reduce the photo blur caused by shaking, set this feature on or off following these steps as below .

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Anti-Shake";
2. Press **【Up/Down】** to select the required options: On/Off/Cancel; Press **【OK】** to save and back to the photo mode.

3.1.13 Face Detect

This feature is to turn on or turn off the face detect function. Turning on this function to automatically recognize face.

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Face Detect";
2. Press **【Up/Down】** to select the required options: On/Off/Cancel; Press **【OK】** to save and back to the photo mode.

3. Use the camera

3.1.14 Smile Capture

After turning on this function, the machine will automatically take photos while recognizing a smile face.


1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Smile Capture";
2. Press **【Up/Down】** to select the required options: On/Off/Cancel; Press **【OK】** to save and back to the photo mode.

3.1.15 Date Stamp

This feature records the date and time on the photo being taken.

1. In photo mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Date Stamp".
2. Press **【Up/Down】** to select the required options: Off/Date/Date&Time/Cancel; Press **【OK】** to save and back to the photo mode.

3.2 Video recording

This chapter introduces how to use this machine for video recording. Press **【Mode】** to switch to video mode. The icon  will be shown on the left corner of screen.

1. According to images displayed on the screen, select and adjust the recording object. Holding on this machine, and press **【Rec./Stop】** to start recording.
2. While recording videos, the red round icon flickers on the top screen, and then press **【Rec./Stop】** again to top recording.
3. All the recorded files will be saved in the memory card of this machine automatically. Before recording, it can set corresponding parameters. The detailed introductions about the function setting menu of video mode are as below.

3.2.1 Mode Set

The machine presets a variety of scenarios for different environments. Users can select the desired scene mode by the environment.

1. In video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Mode Set";
2. Press **【Up/Down】** to select the scene: Auto/Night/Portrait/Landscape/Backlight/Sport/Party/Beach/High sensitivity/Cancel; Press **【OK】** to save and back to the video mode.

3.2.2 Movie Size

This machine can select different solutions of videos: FHD/HD/VGA, the higher resolution, the clearer video, the bigger file and the more storage space it takes up.

1. In video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Movie Size";
2. Press **【Up/Down】** to select desired resolution: FHD/HD/VGA/Cancel; Press **【OK】** to save and back to the video mode.

3.2.3 Beauty Face

After turning on the function, the skin of the portrait will be smooth and white.

1. In video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Beauty Face";
2. Press **【Up/Down】** to select the option: On/Off/Cancel. Press **【OK】** to save and back to the video mode.

3. Use the camera

3.2.4 Exposure

This function allows users to adjust the brightness of the photos based on the ambient brightness. This function is invalid when the ambient brightness is low.

1. In video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Exposure";
2. Press **【Up/Down】** to select the option: +3/+2/+1/0/-1/-2/-3/Cancel; Press **【OK】** to save and back to the video mode.

3.2.5 White Balance

This function is to adjust the color deviation of the photo according to the different light source environment.

1. In video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "White Balance";
2. Press **【Up/Down】** to select the required options: Auto/Daylight/Cloudy/Fluorescent/Tungsten/Cancel; Press **【OK】** to save and back to the video mode.

3.2.6 Sharpness

This function is to adjust the sharpness to the edge of the picture sharper or softer.

1. In video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Sharpness";
2. Press **【Up/Down】** to select the required options: Sharp/Normal/Soft/Cancel; Press **【Ok】** to save and back to the video mode.

3.2.7 Effect

This function can set the special effect of the photo files.

1. In video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Effect";
2. Press **【Up/Down】** to select the required options: Normal/B&W/Sepia/Red/Green/Blue/Sunset/Warm/Cool/OverExposure/IR/Binary/Vivid/Undertone/Dog Eye/Aibao/Gothic/Japan Style/LOMO/Negative/Cancel; Press **【OK】** to save and back to the video mode.

3.2.8 Sensitivity (ISO)

This function is to adjust the sensitivity (ISO) of photo. Auto mode is recommended.

1. In video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "ISO";
2. Press **【Up/Down】** to select the required options: AUTO/100/200/400/Cancel; Press **【OK】** to save and back to the video mode.

Notice!

White balance, exposure, sensitivity, face detect, anti-shake, date stamp and other icon will displayed in real time on the screen.

3.2.9 Date Stamp

This feature records the date and time on the video.

1. In video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Date Stamp";
2. Press **【Up/Down】** to select the required options: Off/Date/Date&Time/Cancel; Press **【OK】** to save and back to the photo mode.

3. Use the camera

3.3 Setup Mode

This function is to set the system parameters, in this mode, user can set system language, date&time, frequency, format and so on.

In photo or video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Setup";

Press **【Up/Down】** to select the option: Language/Set Date/Power Save/Beep/Frequency/Format/Default/Cancel; Press **【OK】** to enter into the sub-menu, operate as follows.

3.3.1 Language

This machine supports multiple languages, users can set system language according to their needs.

1. In photo or video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Setup";
2. Press **【Up/Down】** to select the sub-menu of "Language"; Press **【OK】** to enter into the sub-menu;
3. Press **【Up/Down】** to select the desired language; Press **【OK】** to save and back to the setup mode.

3.3.2 Set date

The function is to set the system date and time of the camera.

1. In photo or video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Setup";
2. Press **【Up/Down】** to select the sub-menu of "Set date"; Press **【OK】** to enter into the sub-menu;
3. Press **【Leftward/Rightward】** to switch among: YY/MM/DD/hr/min/sec, press **【Up/Down】** to set date and time. After setting, press **【OK】** to save and back to the setup mode.

3.3.3 Power save

This function allows the camera can be automatically shut down to save power, when users do not operation it within a certain time.

1. In photo or video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Setup";
2. Press **【Up/Down】** to select the sub-menu of "Power save", Press **【OK】** to enter into the sub-menu;
3. Press **【Up/Down】** to select the desired operation: Off/1Min/3Min/5Min/Cancel; Press **【Ok】** to save and back to the setup mode.

3.3.4 Beep

This function is to set whether the key sound is on.

1. In photo or video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Setup";
2. Press **【Up/Down】** to select the sub-menu of "Beep"; Press **【OK】** to enter into the sub-menu;
3. Press **【Up/Down】** to select the desired operation: On/Off/Cancel; Press **【OK】** to save and back to the setup mode.

3. Use the camera

3.3.5 Frequency

This function is to set the camera synchronize with the frequency of the light source to avoid flashing in the light environment. Please refer to local power standards for details.

1. In photo or video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Setup";
2. Press **【Up/Down】** to select the sub-menu of "Frequency"; Press **【OK】** to enter into the sub-menu;
3. Press **【Up/Down】** to select the desired operation: 60Hz/50Hz/Cancel; Press **【OK】** to save and back to the setup mode.

3.3.6 Format

This function is to format the camera and the memory card. Once formatted, all files stored in memory card can't be found again. Be cautious with this function.

1. In photo or video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Setup";
2. Press **【Up/Down】** to select the sub-menu of "Format"; Press **【OK】** to enter into the sub-menu;
3. Press **【Up/Down】** to select the desired operation: Yes/No.
4. Reconfirm whether the formatting operation needs to perform, press **【OK】** to confirm the selection, it will return back to setup menu automatically after it's completed.

3.3.7 Default

If the camera can't work normally due to wrong settings, user can reset it to factory default setting. This function does not delete data in the machine and memory card.

1. In photo or video mode, press **【Menu】** to shift to the menu, press **【Left/Right】** to select "Setup";
2. Press **【Up/Down】** to select the sub-menu of "Default"; Press **【OK】** to enter into the sub-menu;
3. Press **【Up/Down】** to select the desired operation: Yes/No. Press **【OK】** to save and back to the setup mode.

3.3.8 DISP

In photo or video mode, press **【DISP】** to switch among: Status, full-screen and screen blank.

Status indication display: In standby or working display real-time parameters of the machine, convenient for users to understand the working status.

Full-screen display: Can achieve full-screen view, convenient for users to view and watch files.

Screen blank: The local LCD screen display can be turned off to save power.

Notice!

The formatting function will clear all files in the local memory and memory card, and cannot be recovered. Confirm this function before performing this operation.

3. Use the camera

3.4 Playback

All photos taken by the camera can be viewed in the playback mode. Users also can delete, rotate, protect and slide the photos. All videos recorded by the camera can also be viewed in the playback mode, users can protect and delete the video files.

Playback Photos

Take photos in the photo mode or record videos in the video mode, press **【Playback】** to enter into playback mode. In playback mode, photos can be zoomed in/out, turn paged forward or backward, thumbnail displayed and so on.

1. Zoom in/out photos: In playback mode, toggle **【W/T】** right forward to zoom in photos, toggle it left forward to zoom out photos.
2. Turn paged forward or backward: In playback mode, press **【Up/Down】** to page forward or backward.
3. Move the enlarged photo: After enlarging the photo, press **【Rec./Stop】** first, and then press **【Direction】** to move the photo leftward, rightward, upward or downward.
4. Enter/Exit the thumbnail display: In playback mode, toggle **【W/T】** leftward to enter into the thumbnail display, in this mode, press **【Direction】** to select photos or videos. Press **【OK】** to view the photo or video file.
5. Press **【Mode】** or **【Playback】** to directly exit the current playback mode.

In playback mode, user can do the operations as below:

3.4.1 Delete (Users can delete one photo or all photos at once)

1. In playback mode, press **【Menu】** to call out the menu, press **【Left/Right】** to select "Delete".
2. Press **【Up/Down】** to select desired option: This Image/All/Cancel, press **【OK】** key to confirm operation and back to playback mode.

3.4.2 Protect (Protect photos from accidental deletion, after the photo is locked, it must be unlocked before deleting it.)

1. In playback mode, press **【Menu】** to call out the menu, press **【Left/Right】** to select "Protect".
2. Press **【Up/Down】** to select desired option: Lock This/Unlock This/Lock All/Unlock All/Cancel, press **【OK】** to confirm operation and back to playback mode.

3.4.3 Rotate (This function can rotate the selected photo.)

1. In playback mode, press **【Menu】** to call out the menu, press **【Left/Right】** to select "Rotate".
2. Press **【Up/Down】** to select desired option: 90°/180°/270°/Cancel, press **【OK】** to confirm operation.

3.4.4 Crop Image

1. In playback mode, press **【Menu】** to call out the menu, press **【Left/Right】** to select "Crop Image".
2. Press **【OK】** to enter into the sub-menu, press **【Up/Down】** to select desired option: Crop/ Cancel.
3. Press **【OK】** key to confirm the start of playback.

3. Use the camera

3.4.5 Slid

1. In playback mode, press **【Menu】** to call out the menu, press **【Left/Right】** to select "Slid".
2. Press **【OK】** to enter into the sub-menu, press **【Up/Down】** to select desired option: 3Sec./5Sec./10Sec./Cancel.
3. Press **【OK】** key to confirm the start of playback.

3.3.6 Playback videos

All videos recorded by the camera can also be viewed in the playback mode, users can protect and delete the video files.

1. In video mode, press **【Playback】** to enter into video playback mode, press **【Left/Right】** to select the video file which need to be played.
2. Press **【Rec./Stop】** to start playing the video, while playing, toggle **【W/T】** leftward or rightward to reduce or enlarge the volume.
3. Press **【OK】** to pause/continue playing, press **【Rec./Stop】** again to stopping playing.

3. 3. 7 Delete (Users can delete one video or all videos at once)

In playback mode, press **【Menu】** to call out the menu, other operations are same as in the photo .

Note: Video files cannot be deleted after being protected.

3.3.8 Protect (This function is to protect videos from accidental deletion.)

In playback mode, select the video file, press **【Menu】** to call out the menu, other operations are same as in the photo.

Notice!

1. The files cannot be recovered after being deleted. Please confirm the operation.
2. The printing function requires compatible printer support.

3. Use the camera

4.1 Technical Specification

Image sensor	5MP CMOS sensor, Max 30MP(Interpolation)
ISO	Auto, ISO100, ISO200, ISO400
Memory medium	Support SD/HCS D card up to 128GB
Lens	Fixed lens F/3. 2, f=7. 5mm
Focal distance	1. 0m~infinite
Photo	Format: JPEG, resolution: VGA/2MHD/3M/5M/7MHD/8M/10M/12M/16M/20M/24M/30M(Interpolation)
Video Format	AVI resolution: FHD 1080P/30fps, HD 720P/30fps, VGA/30fps
Zoom	16X digital zoom
Anti-shake function	Yes,EIS anti-shake
Audio	Support
Face detection	Support
Display screen	3. 0 inch TFT-LCD Screen
Infrared night vision	Support
Infrared remote control	Support
White balance	Auto/daylight/cloudy/fluorescent/tungsten
Exposure compensation	-3.0EV~+3.0EV
Self timer	Off, 2sec, 5sec, 10sec
Computer interface	USB 2.0
Auto shutdown	Off, 1min, 3min, 5min
Power	NP-120 Li-ion battery
Size	120 (length) ×62 (width) ×65 (height) mm
Weight	About 270g

4.2 Common Faults and Solutions

Faults	Possible Reasons	Solutions
Unable to start	Incorrect battery assembly/ no battery	Assemble the battery correctly as the manual/ charge the battery
Sudden shutdown	Already start energy-saving function/ no battery	Restart the power/replace new battery
Image can't be saved	Power failure before photo storage	When battery indicator alarms, replace new battery or charge it
Auto shutdown when selfie	This machine has no battery	Replace new battery or charge it
Unclear focusing	Exceed focal range/open the macro lens	Record/close macro lens with focus range
Unable to use memory card	Protect memory card/wrong file format Memory card damage	Dismiss memory card protection/format the memory card Replace qualified memory card
All keys are failed	When connecting this machine with other device, it has a short circuit.	Recheck the connected circuit/take out the battery, and restart the machine.

This equipment has been tested and found to comply with the limits for a Class B digital device, 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.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be located or operating in conjunction with any other antenna or transmitter.



FCC ID: 2ALYUHDV-V12

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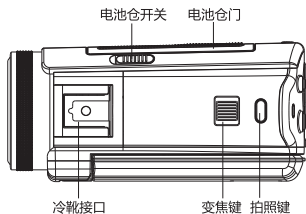
1.关于本机

1.1系统要求

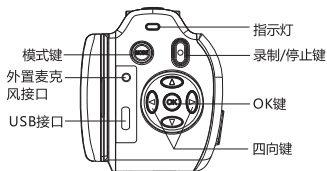
本机与计算机连接时，至少需要具备下列规格的计算机：
奔腾2.0 GHz或以上处理器/Windows XP 或以上系统/2GB 内存/40GB以上可用磁盘空间/
标准USB 接口/CD-ROM 驱动器/1GB或以上的显示卡/1024 X 768像素或更高屏幕分辨率

1.2机器图示

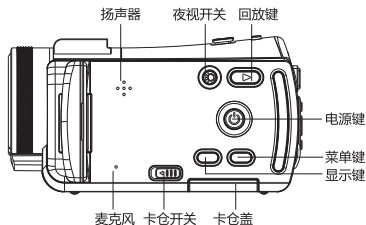
【机器顶视图】



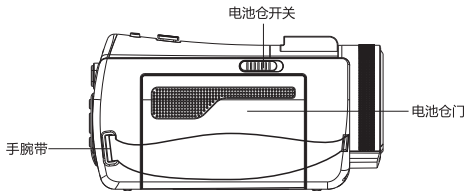
【机器后视图】



【机器左视图】












【机器右视图】



1.关于本机

1.3 按键功能说明

图示	按键名称	功能说明
	电源键	开启/关闭电源
	菜单键	在各种模式下调出控制菜单
	模式键	切换摄像或拍照模式：  代表拍照模式，  代表摄像模式
	四向键 OK键	四向键向上、下或左、右移动方向 OK键确认操作
	拍照键	在拍照模式下，按下可以拍照
	回放键	在摄像或拍照模式下按下此键可回放影像或照片
	录制/停止键	在录影模式下，按下录影/或停止录影
	显示键	按下切换屏幕显示模式
	夜视开关	打开或关闭夜视功能
	变焦键	在拍照与摄像模式，左右拨动实现变焦；在照片播放模式，缩小/放大照片；在视频播放模式，调节音量大小

2.开始使用

2.1 装入存储卡

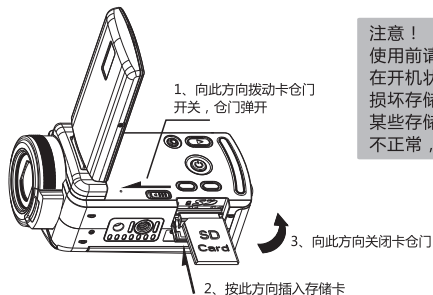
本机可装入存储卡以储存更多照片、视频或其它文件。

当电池电量低或者更换电池时，存储卡内的媒体文件不会丢失。请按以下步骤装入存储卡

1. 打开屏幕面板，如图所示打开卡仓门。

2. 确定存储卡的金属触点朝上插入并推进，直至听到“咔嚓”声，存储卡被正确装入时。

3. 如图所示将卡仓门向内推并卡紧直至听到“咔嚓”声。



注意！

使用前请用本机格式化存储卡。在开机状态请勿拔插存储卡，否则会损坏存储卡或丢失数据！

某些存储卡可能导致相机死机或工作不正常，请装机适配，注意兼容。

2.开始使用

注意！

请正确安装电池，错误安装将不能开机或损坏本机，并可能造成意外事件！

请不要使用非本机标配的充电器！

本机适配器适应电源为：

AC 100V-240V/50-60H ！



2.2 装入电池

将本机标配的锂电池按图示方向装入电池仓。

1.如图示推出弹开电池仓门，装入电池。

2.按下电池仓盖并向内推进至听到“咔嗒”声，关闭电池仓门。

2.3 为电池充电

请将电池正确装入机内，使用标配的USB线连接本机与充电器。

也可以将本机连接到电脑上为电池充电，初次使用本机前，请为电池充电6小时。

2.4 开启和关闭本机

按住【电源键】2秒，可以开启本机电源。反之，可以关闭本机电源。当电池电量不足时，屏幕会显示“电量不足”并在几秒后自动关机。

2.5 变更模式

按【模式键】可以在录像模式和拍照模式之间进行切换。相应模式会显在屏左上角。

在录影或拍照模式下，按回放键可以切换到当前模式的回放状态，查看照片或视频。

2.开始使用

2.6 连接至计算机

如图所示，本机可连接至计算机，以传输文件、观看和编辑视频或照片。

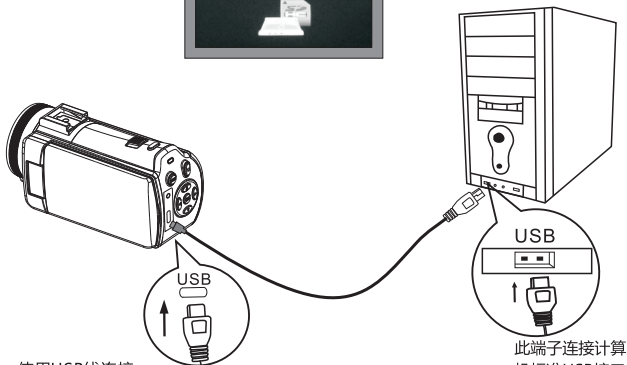
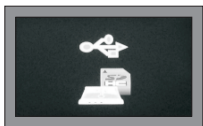
正确连接后，开机相机。相机屏幕显示连机模式选项：“MSDC”和：PC camera。

MSDC表示相机当做U盘使用。PC camera表示当做PC camera使用。按向上/下键选择需要的模式，按【OK键】确认，等待相机进入对应模式。

选择MSDC模式，相机屏幕显示如下图标。

如选择PC camera模式，需要配合相关PC软件使用。

MSDC模式相机显示图标



使用USB线连接
本机与计算机USB接口

此端子连接计算
机标准USB接口

2.开始使用

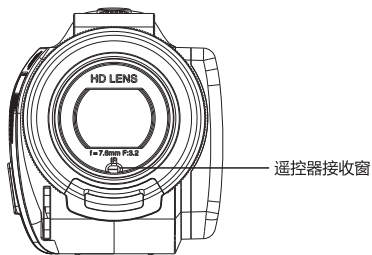
2.7使用遥控器

本机支持遥控操作，请使用标配的遥控器。

- 1.使用前请取下遥控器底部的胶片。若长期不使用时请将胶片插回原处以节省电池电量。
- 2.请将遥控器的发射窗对准摄像机的接收窗口使用，禁止物体遮挡。

如图所示：

遥控器接收窗示意图



2.开始使用

此章节帮助您熟悉本机。

2.8 摄像模式

使用摄像模式可以拍摄视频片段，并存储到存储卡上。摄像模式下图标的含义见下表与图示。

1 摄像模式指示器	6 存储卡指示器	11 感光度指示器
2 分辨率指示器	7 变焦指示器	12 曝光指示器
3 美颜指示器	8 电量指示器	13 白平衡指示器
4 夜视指示器	9 摄影效果指示器	
5 录制时间指示器	10 锐利度指示器	



2.9 拍照模式

在拍照模式下可拍摄照片并存储到内部存储器或存储卡上。按模式切换键切换到拍照模式。

拍照模式下的图标意义请参见下表与图示：

1 拍照模式指示器	7 夜视指示器	13 锐度指示器
2 分辨率指示器	8 照片数量指示器	14 ISO指示器
3 美颜指示器	9 存储卡指示器	15 曝光指示器
4 防抖指示器	10 变焦指示器	16 画质指示器
5 人脸侦测指示器	11 电量指示器	17 白平衡指示器
6 笑脸拍照指示器	12 摄影效果指示器	



2. 开始使用

2.9.1 使用变焦功能

本机具备数码变焦功能，以实现拍摄时的变焦。向右拨动【变焦键】可以拉近与物体的距离(即放大景物)。将左拨动【变焦键】可以拉远与物体的距离(即缩小景物)。

2.9.2 使用红外夜视模式

本机具有红外夜视功能，可以在黑暗环境下进行摄像或拍照。

在摄像或拍照模式下，按一下红外夜视灯打开，夜视灯图标显示在屏幕上方。

机器进入夜视模式。此时，画面为黑白显示，所拍摄的图片或视频也是黑白的。再次按一下，恢复到正常模式

注意！

夜视功能在拍照/摄像模式下均可打开/关闭。

在夜视模式，只能拍摄黑白照片或视频，不能拍摄彩色文件。

变焦功能在拍照及摄影模式均可使用，方法相同。

3. 使用本机

本章节帮助您了解如何使用本机的各种高级功能。

3.1 拍摄照片

本章节介绍使用本机拍摄照片。开启本机，按模式切换键切换到“拍照模式”。

1. 根据屏幕上显示的景物来选择和调整所要拍摄的目标。
2. 握稳本机，并按下【拍照键】拍摄照片。
3. 每种分辨率下可拍摄的照片数量会显示在屏幕右上角。
4. 当本机内存满时，屏幕显示“记忆体已满”，请移除文件或更换另一张空白的存储卡。
5. 可拍照片数量取决于存储卡容量和所选择的分辨率，分辨率越高，占用的内存也越多。在开始拍摄照片前，可以从拍照模式下设置相应参数，见以下将详细介绍。

3.1.1 设置场景

本机预设了多种场景模式，用户可自行选择最佳场景。

1. 在拍照模式，按【菜单键】调出菜单。按向左/向右键来选择“场景”菜单。
2. 按向上/向下键选择所需的场景：自动/夜景/人物/风景/背光/运动/派对/海滩/高感光度/取消。按【OK键】确认保存，并返回到拍照模式。

3.使用本机

3.1.2 设置照像尺寸

此功能可以设置照片的分辨率。分辨率越高，照片质量越好，尺寸越大

- 1.在拍照模式，按【菜单键】调出菜单。按向左/向右键来选择“照像尺寸”菜单。
- 2.按向上/向下键选择所需的影像尺寸大小:30M/24M/20M/16M/12M/10M/8M/7MHD/5M/3M/2MHD/VGA/取消。按【OK键】确认保存,并返回到拍照模式。

3.1.3 设置美颜

开启此功能后本机可自动优化图片并加以美白。

- 1.在拍照模式，按【菜单键】调出菜单选项。按向左/向右键来选择“美颜”菜单。
- 2.按向上/向下键选择选择“美颜”开启模式：关/开/取消。按【OK键】确认保存，并返回到拍照模式。

3.1.4 设置拍摄模式

此功能可设置拍摄照片的张数(拍单张或连拍)。

- 1.在拍照模式，按【菜单键】调出菜单选项。按向左/向右键来选择“拍摄模式”菜单。
- 2.按向上/向下键选择图片质量：单张/连拍/取消。按【OK键】确认保存,并返回到拍照模式。

3.1.5 设置自拍功能

此功能可以在按下拍照键后延后时间拍摄，来进行自拍或延时拍摄。

- 1.在拍照模式，按【菜单键】调出菜单。按向左/向右键来选择“自拍”菜单。
- 2.按向上/向下键选择所需延后的自拍时间：关/2秒/5秒/10秒/取消。按【OK键】确认保存,并返回到拍照模式。

3.1.6 设置曝光（调整EV值）

此项设置允许用户依据环境亮度调节所拍照片亮度。在环境亮度较低时，调节此功能无效。

- 1.在拍照模式，按【菜单键】调出菜单选项。按向左/向右键来选择“曝光”菜单。
- 2.按向上/向下键选择所需的曝光值:+3/+2/+1/0/-1/-2/-3/ 取消，按【OK键】确认保存，返回到拍照模式。

注意！场景、延时自拍、图片质量、连拍等功能图标会实时显示在屏幕上。

3.1.7 设置白平衡

此功能可根据不同的光源环境来调整拍摄画面的颜色偏差。

- 1.在拍照模式，按【菜单键】调出菜单选项。按向左/向右键来选择“白平衡”菜单。
- 2.按向上/向下键选择所需效果：自动/太阳光/阴天/日光灯/灯泡/取消。按【OK键】确认保存，并返回到拍照模式。

3.使用本机

3.1.8 设置照片画质

此功能可设置所拍摄照片的质量高低。

- 1.在拍照模式，按【菜单键】调出菜单选项。按向左/向右键来选择“画质”菜单。
- 2.按向上/向下键选择图片质量：超高画质/高画质/普通/取消。按【OK键】确认保存,并返回到拍照模式。

3.1.9 设置锐度

此功能允许用户调节照片的锐度，使照片边缘更加清晰或柔和。

- 1.在拍照模式，按【菜单键】调出菜单选项。按向左/向右键来选择“锐度”菜单。
- 2.按向上/向下键选择所需的照片锐利度:锐利/普通/柔和/取消。按【OK键】确认保存，并返回到拍照模式。

3.1.10设置摄影效果

此功能可设置照片的特效。

- 1.在拍照模式，按【菜单键】调出菜单选项。按向左/向右键来选择“摄影效果”菜单。
 - 2.按向上/向下键选择照片特效：普通/黑白/老照片/红色/绿色/蓝色/日落/暖色/冷色/过曝/红外线/二值/高饱和/低饱和/狗眼/阿宝色/哥德风/日本风/LOMO/底片/取消。
- 按【OK键】确认保存,并返回到拍照模式。

3.1.11 调整感光度 (ISO)

使用此功能可调节感光度，推荐使用自动模式。

- 1.在拍照模式，按【菜单键】调出菜单选项。按向左/向右键来选择“感光度”菜单。
- 2.按向上/向下键选择所需的感光值：自动/100/200/400/取消。按【OK键】确认保存，并返回到拍照模式。

3.1.12 防抖功能

打开此功能可减少因抖动而导致照片模糊，按照如下步骤设置可打开或关闭防抖功能。

- 1.在拍照模式，按【菜单键】调出菜单选项。按向左/向右键来选择“防抖动”菜单。
- 2.按向上/向下键选择防抖功能是否打开：关/开/取消。按【OK键】确认保存,并返回到拍照模式。

3.1.13 人脸侦测功能

开启此功能后在拍照模式下本机可自动侦测到取景内容中的人脸并加以识别。

- 1.在拍照模式，按【菜单键】调出菜单选项。按向左/向右键来选择“人脸侦测”菜单。
- 2.按向上/向下键选择人脸侦测是否打开：关/开/取消。按【OK键】确认保存,并返回到拍照模式。

3.使用本机

3.1.14 笑脸拍摄

开启此功能后在拍照模式，相机动侦测笑脸时自动拍照。


- 1.在拍照模式，按【菜单键】调出菜单选项。按向左/向右键来选择“笑脸拍摄”菜单。
- 2.按向上/向下键选择笑脸拍照：关/开/取消。按【OK键】确认保存,并返回到拍照模式。

3.1.15 日期标记

此功能可以在被拍摄的照片上记录日期和时间。

- 1.在拍照模式，按【菜单键】调出菜单选项，按向左/向右键来选择“日期标记”菜单
- 2.按向上/向下键选择日期标记：关/日期/日期和时间/取消。按【OK键】确认保存，返回拍照模式。

3.2 拍摄视频

本章节介绍如何使用本机拍摄视频片段。按模式切换键切换到摄像模式，“”图标现在出现在显示屏的左上角。

- 1.参照屏幕显示的图像选择和调整所拍摄目标。握稳本机，按下【录制/停止键】开始拍摄。
- 2.录制过程中，屏幕上方红色圆形图标闪烁，再次按下【录制/停止键】可以停止拍摄。
- 3.所记录的文件将自动保存到本机的存储卡内。

在开始拍摄前，可以设置相应参数，以下将详细介绍摄像模式的设置选项功能菜单。

3.2.1 场景设置

本机预设多种场景模式，支持不同环境的拍摄需要。可按环境选择所需场景模式。

- 1.在摄像模式下，按【菜单键】调出摄像菜单。按向左/向右键来选择“场景”菜单
- 2.按向上/向下键选择合适的场景模式：自动/夜景/人物/风景/背光/运动/派对/海滩/高感光度/取消,按【OK键】确认保存，并返回到录影模式。

3.2.2 设置摄像格式

本机可以选择不同的视频分辨率：FHD/HD/VGA。所选的分辨率越高，视频越清晰，文件尺寸越大，所占用的存储空间也越多。

- 1.在摄像模式下，按【菜单键】调出摄像菜单。按向左/向右键来选择“摄像格式”菜单
- 2.按向上/向下键选择影像尺寸:FHD/HD/VGA /取消。按【OK键】确认保存，并返回到录影模式。

3.2.3 设置美颜

开启此功能后本机可自动优化影像并加以美白。

- 1.在摄像模式，按【菜单键】调出菜单选项。按向左/向右键来选择“美颜”菜单。
- 2.按向上/向下键选择选择“美颜”模式;关/开/取消。按【OK键】确认保存，返回到录影模式。

3.使用本机

3.2.4 设置曝光（调整EV值）

此项设置允许用户依据环境的亮度来调节所拍影像的亮度。

- 1.在摄像模式，按【菜单键】调出菜单选项。按向左/向右键来选择“曝光”菜单。
- 2.按向上/向下键选择所需的值：+3/+2/+1/0/-1/-2/-3/取消，按【OK键】确认保存，返回录影模式。

3.2.5 设置白平衡

此功能可根据不同的光源环境来调整拍摄画面的颜色偏差。

- 1.在摄像模式，按【菜单键】调出菜单选项。按向左/向右键来选择“白平衡”菜单
- 2.按向上/向下键选择所需的白平衡项：自动/太阳光/阴天/日光灯/灯泡/取消。按【OK键】确认保存，并返回到录影模式

3.2.6 设置锐度

此功能允许用户调节影像的锐度，使影像边缘更加清晰或柔和。

- 1.在摄像模式，按【菜单键】调出菜单选项。按向左/向右键来选择“锐度”菜单。
- 2.按向上/向下键选择所需的照片锐利度：锐利/普通/柔和/取消。按【OK键】确认保存，并返回到录影模式。

3.2.7设置摄影效果

此功能可设置画面的特效。

- 1.在摄像模式，按【菜单键】调出菜单选项。按向左/向右键来选择“摄影效果”菜单。
 - 2.按向上/向下键选择照片特效：普通/黑白/老照片/红色/绿色/蓝色/日落/暖色/冷色/过曝/红外线/二值/高饱和/低饱和/狗眼/阿宝色/哥德风/日本风/LOMO/底片/取消。
- 按【OK键】确认保存,并返回到录影模式。

3.2.8 调整感光度（ISO）

使用此功能可调节感光度，推荐使用自动模式。

- 1.在摄像模式，按【菜单键】调出菜单选项。按向左/向右键来选择“感光度”菜单。
- 2.按向上/向下键选择所需的感光值：自动/100/200/400/取消，按【OK键】确认保存，并返回到录影模式。

注意！白平衡、曝光、感光度、人脸侦测、防抖动、日期标记等图标会实时显示在屏幕上。请参考屏幕显示！

3.2.9 日期标记

此功能可以在被拍摄的视频上记录日期和时间。

- 1.在摄像模式，按【菜单键】调出菜单选项，按向左/向右键来选择“日期标记”菜单
- 2.按向上/向下键选择日期标记：关/日期/日期和时间/取消。按【OK键】确认保存，返回拍照模式。

3.使用本机

3.3 设置系统参数

进入设置菜单后,可设定本机一些基本设定,如语言,日期/时间,频率,格式化等操作。

在拍照模式或摄影模式,按【菜单键】调出菜单。按向左/向右键来选择“设置”菜单。

按向上/向下键选择选项:语言/时间和日期/自动关闭/动作音/光频/格式化/出厂设置/取消。

按【OK键】进入子选项,按以下方式进行操作。

3.3.1 设定语言

本机支持多种语言,请根据使用习惯自行选择。

1.在拍照/摄像模式,按【菜单键】调出菜单选项。按向左/向右键来选择“设置”菜单。

2.按向上/向下键选择“语言”子菜单,按【OK键】进入子菜单。

3.按向上/下键选择所需语言模式,按【OK键】确认保存并返回。

3.3.2 设置日期和时间

此功能可以设置本机日期和时间。

1.在拍照/摄像模式,按【菜单键】调出菜单选项,按向左/向右键来选择“设置”菜单

2.按向上/向下键选择“日期和时间”子菜单,按【OK键】进入子菜单。

3.按向左/向右键选择“年/月/日/时/分/秒”选项。按向上/向下键设置日期、时间设置完成后,按【OK】确认保存并返回。

3.3.3 设置定时关机

此功能允许用户在一定时间未使用本机时自动关机以节省电量。

1.在拍照/摄像模式,按【菜单键】调出菜单选项,按向左/向右键来选择“设置”菜单

2.按向上/向下键选择“自动关闭”子菜单,按【OK键】进入子菜单。

3.按向上/向下键选择自动关闭时间:关/1分钟/3分钟/5分钟/取消,按【OK键】确认保存,并返回。

3.3.4 设置动作音

此功能可以打开或关闭本机的操作提示音。

1.在拍照/摄像模式,按【菜单键】调出菜单选项。按向左/向右键来选择“设置”菜单。

2.按向上/向下键选择“动作音”子菜单,按【OK键】进入子菜单

3.按向上/向下键选择是否开启操作提示音:关/开/取消。按【OK键】确认保存并返回。

3.3.5 设置光源频率

此设置可以避免在灯光环境下拍摄时的画面闪烁。具体请参见当地电源标准。

1.在拍照/摄像模式,按【菜单键】调出菜单选项。按向左/向右键来选择“设置”菜单。

2.按向上/向下键选择“光频”子菜单,按【OK键】进入子菜单

3.按向上/向下键选择适合的光源频率:60HZ/50HZ/取消,按【OK键】确认保存并返回。

3.使用本机

3.3.6 使用格式化功能

此功能可格式化本机及存储卡，删除所有文件，且不可恢复，请谨慎使用此功能。

- 1.在拍照/摄像模式，按【菜单键】调出菜单选项。按向左/向右键来选择“设置”菜单。
- 2.按向上/向下键选择“格式化”子菜单，按【OK键】进入子菜单。
- 3.按向上/向下键选择是否执行格式化操作:是/否
- 4.再次确认是否需执行格式化操作,按【OK键】确认所选，操作完成后返回。

3.3.7 恢复出厂设置

若用户因错误设置造成本机不能正常工作，可通过此功能将本机设置恢复到出厂时设置。此功能不会删本机及存储卡内数据。

- 1.在拍照/摄像模式，按【菜单键】调出菜单选项。按向左/向右键来选择“设置”菜单。
- 2.按向上/向下键选择“出厂设置”子菜单，按【OK键】进入子菜单
- 3.按向上/向下键选择是否恢复默认设置：是/否，按【OK键】确认并返回。

3.3.8 屏幕显示状态切换(DISPLAY)

在拍照/摄像模式，按【显示键】可依次切换：状态、全屏显示、关闭屏幕。
状态指示显示：在待机或工作中显示本机实时参数，方便用户了解工作状况。
全屏显示：可以实现全屏取景，方便用户取景和观看文件。
关闭屏幕：可以关闭本机的LCD屏幕显示，以节省电量。

注意！

格式化功能会清除本机内存或存储卡中所有文件且不可恢复。请在执行前进行确认！

3.4 回放文件

本机所拍照片，可以回放观看。并可对照片进行删除、旋转和保护等操作。
所录的视频，可以回放观看，也可以对视频文件保护和删除操作。

回放照片及相关操作

在拍照或摄像模式下拍好的照片或视频，按【回放键】进入回放模式，在回放模式下可对照片进行：放大/缩小、前后翻页、缩图显示等操作。

- 1.放大/缩小照片：在回放模式下按【变焦键】，向右按放大，向左按缩小。
- 2.翻看照片或视频文件：在回放模式下按向上/向下键可以向前/向后翻页。
- 3.移动放大的照片：照片放大后，按【录制/停止键】，再按四向键，分别可对应的方向移动放大后的图片。
- 4.进入/退出缩图显示：在回放模式向左按【变焦键】进入缩图显示。在此模式下，按四向键的向左/右/上/下移动及选择图片或录影文件。按【OK键】查看该照片或影像。
- 5.按模式键/回放键，可直接退出当前回放模式。

3.使用本机

在回放模式下，可选择以下选项来对照片进行操作。

3.4.1 删除（可以一次删除一张照片或一次全部删除照片）。

- 1.在回放模式中，按【菜单键】调出照片操作菜单。按向左/向右键来选择“删除”菜单。
- 2.按向上/向下键选择所需的删除选项：这张照片/全部/取消，按【OK键】确认执行操作，并返回回放模式。

3.4.2保护（保护照片不被意外删除。照片被锁定后，必须解锁后方可执行删除功能）。

- 1.在回放模式中，按【菜单键】调出照片操作菜单。按向左/向右键来选择“保护”菜单。
- 2.按向上/向下键选择所需的操作选项：锁定/解锁/锁定全部/解锁全部/取消。按【OK键】确认并执行操作，并返回回放模式。

3.4.3 旋转。（此功能可以旋转选中的照片）

- 1.在回放模式中，按【菜单键】调出照片操作菜单。按向左/向右键来选择“旋转”菜单。
- 2.按向上/向下键选择所需的旋转角度：90°/180°/270°/取消，按【OK键】确认执行操作，并返回回放模式。

3.4.4裁剪图片

- 1.在回放模式，按【菜单键】调出照片菜单。按向左/向右键来选择“裁剪图片”菜单。
- 2.按【OK键】确认裁剪。按【变焦键】放大/缩小选择框，然后按屏幕提示操作即可。
- 3.完成裁剪，按【拍照键】保存。

3.4.5幻灯片回放。

- 1.在回放模式，按【菜单键】调出照片操作菜单。按向左/右键选择“幻灯片回放”菜单。
- 2.按【OK键】弹出回放选项：3秒/5秒/10秒/取消。按向上/下键选择参数。
- 3.按【OK键】确认执行操作。

播放视频及相关操作

所录的视频，可以在本机进行回放观看、删除和保护等操作。

- 1.在录影模式下按回放键，进入视频播放模式，按向左/右键，选择需要播放的视频文件。
- 2.按【录像/停止键】开始播放文件。回放中向左或右拨动【变焦键】可以减少或放大音量。
- 3.按下【OK键】可以暂停/继续播放。再次按下【录像/停止键】停止播放视频。

3.4.5删除视频（此功能可以一次删除一段视频或一次删除全部视频文件）在回放模式中，按【菜单键】调出操作菜单。其它操作与照片操作模式相同。注：视频文件被保护后将不能删除。

3.4.6保护视频文件（此功能可以保护视频文件不被意外删除）。

在回放模式下选择视频文件，按【菜单键】调出视频操作菜单。其它操作与照片操作模式相同。

注意！1.文件执行删除后无法恢复，请确认后操作！
2.打印功能需要兼容的打印机支持！

4. 附录

4.1 技术规格

影像感应器	500万像素高感光度CMOS感应器，最高3000万像素（插值）
ISO	自动，ISO100，ISO200，ISO400
储存媒体	支持SD/SDHC卡，最大128GB
镜头	固定镜头，F/3.2，f=7.5mm
对焦范围	正常：1m ~ 无限远
静态照片	格式：JPEG，分辨率：VGA,2MHD,3M,5M,7MHD,8M,10M,12M,16M,20M,24M,30M(插值)
视频片段	格式：AVI 分辨率：FHD1080P/30fps,HD720P/30fps，VGA/30fps
变焦	16X数码变焦
防抖功能	电子防抖
视频声音	支持
人脸侦测	支持
显示屏幕	3.0英寸TFT-LCD液晶显示器
红外夜视	支持
红外遥控	支持
白平衡	自动/太阳光/阴天/灯泡/日光灯
曝光补偿	-3.0EV ~ +3.0EV
自拍定时	关、2秒、5秒、10秒
计算机接口	USB 2.0
自动关机	关、1分钟、3分钟、5分钟
电源	NP-120锂电池
尺寸	120 (长) × 62 (宽) × 65 (高) mm
重量	约270g

4.2 常见故障与解决

出现问题	可能原因	解决方法
无法开机	未正确装入电池/电池没电	按本手册正确装入电池/为电池充电
突然关机	已启用省电功能/电池没电	重新开启电源/换用新电池
影像不能储存	在照片储存之前电力中断	电池指示器报警时，换用新电池或充电
自拍时自动关机	本机电池没电	换用新电池/为电池充电
对焦不清晰	超出焦距范围/微距打开	在可对焦范围内拍摄/关闭微距
无法使用存储卡	存储卡保护/文件格式不对 存储卡损坏	解除存储卡保护/ 格式化存储卡 更换合格的存储卡
所有按键无作用	连接本机与其它装置时发生短路	重新检查连接线路/ 取出电池，重新 开机

DIGITAL VIDEO CAMERA