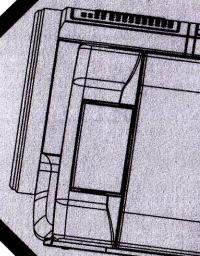


Digital Video Camera  
多功能数码摄像机

用户手册  
User's Manual



All photos in this manual are for reference only. Please look at the actual product.  
We reserved the final explanation right. In case of all data and parameters are modified,  
please look at the actual. No further information about the changed.

本手册所截图片仅供参考,请以产品实际为准。

本公司保留最终解释权,所载数据与参数如有修改,以实际为准,恕不另行通知。

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

# **Content**

<b>1*</b>	<b>About the Camera .....</b>	<b>1</b>
1.1	System Requirement .....	1
1.2	Product Introduction .....	1
1.3	Button Function Characteristic .....	2
2	Start to use.....	3
3	Use the camera .....	6
4	Appendix .....	22
4.1	Technical Specification .....	22
4.2	Common Problem and Solution.....	23

## 1. About the camera

1

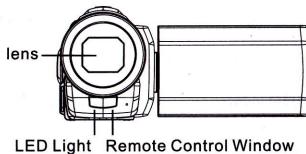
### 1.1 System Requirement

The minimum configuration of the computer which connected with the machine as follows:

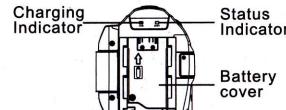
- > Pentium processor of 2.0GHZ or more;
- > Operation system of Windows XP or more;
- > 2 GB memory, available disk space of 40 GB or more;
- > USB interface;
- > CD-ROM driver;
- > Display card of 1 GB or more;
- > Screen resolution of 1024 X 768 pixel or more;

### 1.2 Product Introduction

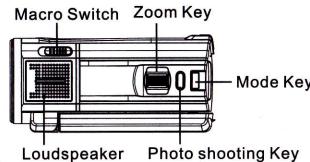
#### 【FRONT SIDE VIEW】



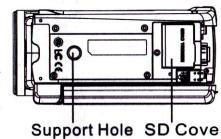
#### 【BACK SIDE VIEW】



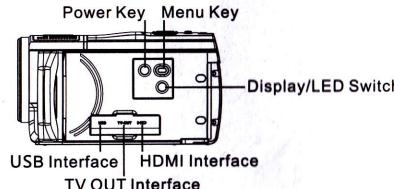
#### 【TOP SIDE VIEW】



#### 【BOTTOM SIDE VIEW】



#### 【LEFT SIDE VIEW】



## 1. About the camera

2

### 1.3 Button Function Characteristic

Pictures	Key Names	Function Introductions
	Power key	start/close the power
	menu key	call out the menu under different mode.
	mode key	Photo/Video/Playback,  means photo mode,  means video mode,  means playback mode.
	Display/LED Switch	press to change the details on screen, open/close the display, long press 3s to open/close the LED
	Photo shooting key	Photo mode: press to take photo; Playback mode: press this key to stop the video playing during video playback
	Rec/stop key	Video mode: press to start/stop recording; Playback mode : press to stop playback.
	Zoom key	video/photo mode:zoom in/out; Playback mode: photo file: zoom in/out, page up/down, video file: voice up/down, page up/down

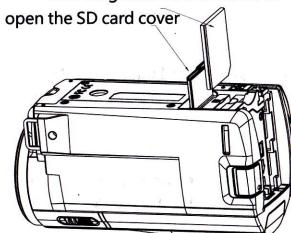
## 2. Start to use

### 2.1 Insert SD card

Install memory card in order to store more photos, videos or other documents. When the battery has lower electric quantity or is exchanged, not lose the media document in the memory card.

- 1.Open the SD card cover.
- 2.As the photo shows, insert the SD to the device until hearing a voice"click"
- 3.Close the SD card cover.

following the arrow to insert SD card  
open the SD card cover



#### Notice:

Format the memory card before use. Do not plug the memory card at the opening state, or else, damage the memory card or lose the data.

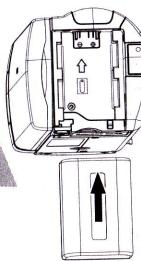
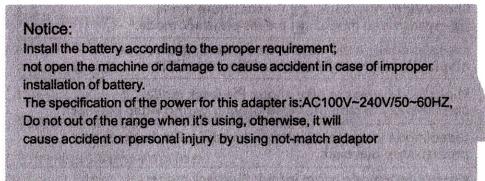
Cause the dead halt in operation because of the different chip manufacturers of some memory card; enquire the manufacturer before buying; install on the machine to check the compatibility.

**2.2 Install the battery**

Push the standard battery into the device.

1.Following the arrow to insert the battery

2.Push the battery until hearing of a voice"click"

**2.3 Charge the battery**

Please install a battery into the camera correctly, to use a standard USB cable connect the camera to the charger, and you can also charge the battery by connecting the camera to a computer, for the initial use.

**2.4 Turn on and off the power of the camera**

Press the power key for 1 second to turn on the power of the camera in power off state. the camera will automatically turn on/turn off when turn on/off the screen."Low Power"will display on the screen when the power of battery is not enough, and it will auto turn-off in seconds.

**2.5 Exchanging mode**

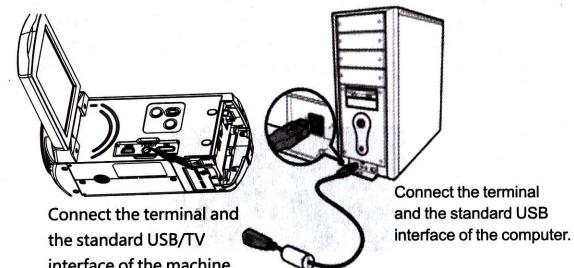
Press MODE key to changing-over the mode between video recording mode and photo shooting mode, and the related icon of the mode that you select will show on the left top corner of the screen.

**2.6 Instruction of Remote controller(Optional Accessory)**

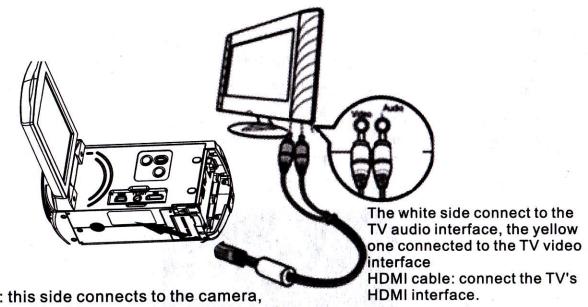
The device can be controlled both by keys and remote controller

**2.7 Connect to computer**

As the pictures show, it could transfer file, view, edit after connected with computer to choose storage, or to use a camera after choosing camera.

**2.8 Connect to standard television**

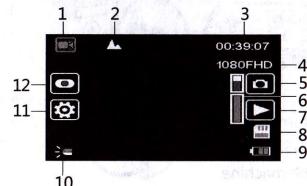
The device can connect to TV to view videos or photos.



## 2.9 Video mode

The Chapter will be assisting you familiar with the camera. Shoot video clip according to the video mode and store in the internal memory or memory card.

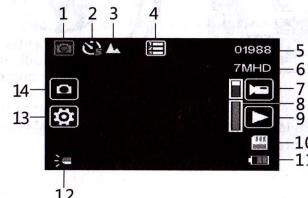
1 REC. indicator	5 Photo indicator	9 Battery power indicator
2 Micro/nomal indicator	6 Zoom in/out	10 LED light indicator
3 Remainder time indicator	7 Playback mode indicator	11 Setting mode indicator
4 Video resolution indicator	8 SD card indicator	12 Video mode indicator



## 2.10 Shooting mode

Adapt the shooting mode to shoot the photo; store the photo in the memory or the memory card. Show the icon meanings at the shooting mode according to the chart and photos (some icons only shows when touchingthe screen.)

1 Photo mode indicator	6 Photo Resolution indicator	11 Battery Power indicator
2 Self-timer indicator	7 Video indicator	12 LED Fill Lamp indicator
3 Normal/micro indicator	8 Zooming indicator	13 Setting indicator
4 Continuous shooting indicator	9 Playback indicator	14 photo shooting indicator
5 Remainder photos indicator	10 Storage indicator	



## 2.11 Use zoom function

The machine has digital zoom function for zooming in shooting. Roll the zoom key rightwards to zoom in the distance with the substance. Roll the zoom key leftwards to zoom out the distance with the substance.

## 2.12 Using DISP and LED functions.

### 2.12.1 Using DISP function

The device has DISP function, short press DISP key can transfer between clean/close the screen.

### 2.12.2 Using LED function

The device LED can compensate the light whe the camera in poor light, long press LED key in video/photo mode, The icon shows at the down left corner.

Notice: LED can open/close both when at the mode video/photo, using method is same. zoom function can be used in video/photo mode, using method is same.

## 3.Use the camera.

Help you how to understand the different high-level functions of the machine.

### 3.1 Take photos

- 1.The image displayed on the screen chooses and adjusts the target to be shot.
- 2.Hold the machine and press the shooting key to shoot the photo.
- 3.Display the number of the photos shot in each resolution ratio on the top right corner of the screen.
- 4.If there's no SD card in the camera, "No card" will display on the screen, When the machine is full of photos, display the information of full memory card on the screen; download the document on the computer or delete; or plug the other SD card to continuously shoot.
- 5.The number of the shooting number is decided by the volume of the SD memory card and the chosen resolution ratio; the more the photo quality, the more occupied memory.

Before shooting, set the following relativde parameters in the shooting mode, which can help shooting the better photos. Introduce the setting options in the shooting mode as the following.

### 3.1.1 Capture Mode Setting

Single photo or self-timer photo is available to choose.

1. Under photo mode, press MENU key to bring out menu, and press W/T to choose the single photo or self-timer photo
2. Press photo shooting key to enter into sub-menu.
3. Press W/T to choose the shooting method, single /2s/5s/10s, and press photo shooting to confirm and press MENU key to back photo shooting mode.
4. The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon "  ", and press   to choose Capture Mode , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to capture mode, then press the left bottom  back to photo shooting mode.

### 3.1.2 Resolution settings

The function can set the resolution ratio of the photo; the higher the resolution ratio, the better the photo quality and the larger the size; the size of the resolution ratio decides the number occupied memory.

- 1.Press the "MENU" key and bring up the menu at the photo shooting mode.
- 2.Press photo shooting key to enter menu.
3. Press W/T to choose the photo resolution(24M,20M, 16M,12M,10M,8M,7MHD,5M,3M, 2MHD,1.3M), and press photo shooting key to save and press menu key back to photo shooting mode.
- 4.The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon "  ", and press   to choose resolution , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to resolution, then press the left bottom  back to photo shooting mode.

### 3.1.3 Sequence Settings

This function can take 3 piece photos

1. Photo shooting mode, press Menu to bring out menu, and press W/T to choose sequence setting.
2. Press photo shooting key to enter sub-menu;
3. Press W/T to choose: off/on, and press photo shooting key to confirm. and back to photo shooting mode.

4. The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon"  ", and press   to choose sequence, and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to sequence, then press the left bottom  back to photo shooting mode.

### 3.1.4 Quality settings

The function can set the quality of the shot photo.

1. Press the "MENU" key to bring up the menu option at the photo shooting mode.
2. Press W/T key to choose from sub-menu:/Fine/Normal/Economy .Press "OK" key to confirm and back to photo shooting mode.
3. The device support touch screen function, under photo shooting mode, press the screen and press the left bottom setting icon, and press the up/down bottom to choose image quality and press the confirm icon at the bottom right side back. choose the image quality you want and press back icon at the left bottom back to photo shooting mode
4. The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon"  ", and press   to choose quality setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to quality setting, then press the left bottom  back to photo shooting mode.

### 3.1.5 Sharpness setting

This function can set the photo sharpness from clear to soft

1. Under photo shooting mode, press MENU key to bring out menu option, and press W/T to choose sharpness menu.
2. Press photo shooting key to enter menu.
3. Press W/T to choose the photo you need sharp/ common/soft, and press photo shooting key to confirm and back to main menu.
4. The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon"  ", and press   to choose sharpness setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to sharpness setting, then press the left bottom  back to photo shooting mode.

**3.1.6 White balance setting**

The function can adjust the color deviation of the shot photo according to the different liquid source conditions.

1. Press the MENU key to bring up menu option at the photo shooting mode, and press W/T to choose white balance.
2. Press photo shooting key to enter sub-menu.
3. Press W/T to choose the effect: Auto/Day light/Cloudy/Tungsten/ Fluorescent/Cancel, and press menu to confirm back.

4.The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon "  ", and press   to choose white balance setting, and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to white balance setting, then press the left bottom  back to photo shooting mode.

**3.1.7 Color setting**

This function is used to setting the photo color

- 1.Press MENU key to bring up menu, and press W/T to choose color menu.
2. Press photo shooting key to enter sub-menu.
3. Press W/t key to choose more color effection: color/monochrome/Sepia, and press photo shootingkey to save and back to photo shooting mode.
- 4.The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon"  ", and press   to choose color setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to color setting, then press the left bottom  back to photo shooting mode.

**3.1.8 ISO Setting**

This function can adjust the ISO, the default is ISO AUTO

1. Press MENU key to bring up menu option and choose ISO menu.
2. Press Photo shooting key to enter into sub-menu.
3. Press W/T to choose : auto/100/200/400, press photo shooting key to save and back to phot shooting mode.
- 4.The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon"  ", and press   to choose ISO setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to ISO setting, then press the left bottom  back to photo shooting mode.

**3.1.9 Exposure setting (adjust EV value)**

Permit the user to adjust the exposure of shooting according to the exposure condition.

1. Press menu key to bring up menu and choose W/T to enter exposure menu.

3. Press W/T to chose the EV date(+2~-2), press photo shooing key to save and back to photo shooting mode.

4.The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon"  ", and press   to choose ISO setting, and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to exposure setting, then press the left bottom  back to photo shooting mode.

**3.1.10 Date stamp setting**

The item can mark the date and time when shooting a pho.

- 1.Press MENU key to bring up menu, press W/T to choose date menu.
2. Press photo shooting key to enter sub-menu.
3. Press W/T to choose list the date and time: off/date/time and press photo shooting key to save, press menu keyback to photo shooting mode.
- 4.The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon"  ", and press   to choose date stamp setting, and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to date stamp setting, then press the left bottom  back to photo shooting mode.

**3.1.11 Face deflection setting**

The camera has automatic face recognition function, it can detect and identify face automatically after the function turned on in photo shooting mode

1. Press MENU key under photo shooting mode to bring up menu, and press W/T to choose face defect option.
- 2.Press photo shooting key to enter sub-menu.
- 3.Press W/T key to choose face defect function: off/face deflection, press photo shooting key to save and press menu key back to photo shooting mode
- 4.The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon"  ", and press   to choose face deflection setting, and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to face deflection setting, then press the left bottom  back to photo shooting mode.

### 3.1.12 Anti-shaking setting

The machine has anti-shaking function. Open the function to reduce the fuzziness caused by the shaking; open or close the anti-shaking function according to the following steps.

1. Press menu key to bring up Menu, and press W/T to choose anti-shaking option.
2. Press Photo shooting key to enter sub-menu
3. Press W/T to choose anti-shaking function: off/on, press photo shooting key to save and press menu key back to photo shooting mode.
4. The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon "  ", and press  to choose anti-shaking setting, and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to anti-shaking setting, then press the left bottom  back to photo shooting mode.

### 3.1.13 Quick Review setting

This function allow user to set the preview time after taking a photo

1. Press MENU key to bring up menu key, and press W/T to choose quick review function.
2. Press Okay key to enter into sub-menu.
3. Press W/T to choose the preview time: off/2s/5s. and press photo shooting key back to photo shooting mode.
4. The device support touch screen. Under photo shooting mode, touch the screen and press the middle left icon "  ", and press  to choose quick review setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to quick review setting, then press the left bottom  back to photo shooting mode.

## 3.2 Shoot Video

The chapter introduce how to use the machine to shoot the video clip. Revolve the mode dial to the video mode; The icon  appear on the top left corner of the display screen.

- 1.Refer to the photo displayed on the screen to choose and adjust the target to be shot.
- 2.The flashed red Circular icon will show on the screen and the power/recording lamp will shine in the recording process;
- 3.The recorded documents will autosave in the machine or the memory card.Set the relative parameters at the video mode before shooting the video; help the user to shoot the better video clip; introduce the setting option function menu of the video mode as the following.

### 3.2.1 Resolution setting

The machine can choose the different video resolution ratios: FHD/HD/WVGA/VGA  
The higher the selected resolution ratio, the clearer the video and the larger the document; the higher the definition, the more the occupied space.

1. Press the menu key to bring up menu, press W/T to choose resolution
2. Press Photo shooting key to enter into sub-menu
3. Press W/T key to choose the video size: FHD/HD/WVGA/VGA.Press photo shooting key to save and press photo shooting key to save and press menu back to video shooting mode.
4. The device support touch screen. Under video shooting mode, touch the screen and press the middle left icon "  ", and press  to choose resolution setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to resolution setting , then press the left bottom  back to video shooting mode.

### 3.2.2 WDR function setting

The device can set WDR function off/on.

- 1.Press the menu key to bring up menu, press W/T to choose WDR
- 2.Press Photo shooting key to enter into sub-menu
- 3.Press W/T key to choose the WDR: off/on. press photo shooting key to save and press photo shooting key to save and press menu back to video shooting mode.

4.The device support touch screen. Under video shooting mode, touch the screen and press the middle left icon"  ", and press  to choose WDR setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to WDR setting , then press the left bottom  back to video shooting mode.

#### 3.2.3 AWB setting.

This function can adjust the color deviation of shot photo according to different light source conditions.

- 1.Press the menu key to bring up menu, press W/T to choose white balance function.
- 2.Press Photo shooting key to enter into sub-menu
3. Press W/T to choose white balance effection: auto/day light/cloudy/tungsten/fluorescent/cancel,press photo shooting key to save. press menu key to back to video shoot.
- 4.The device support touch screen. Under video shooting mode, touch the screen and press the middle left icon"  ", and press  to choose AWB setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to AWB setting , then press the left bottom  back to video shooting mode.

#### 3.2.4 Exposure settings (adjust EV value)

Permit the user to adjust the exposure of shooting according to the exposure condition.

1. Press MENU key to bring up menu, press W/T key to choose light exposure setting
- 2.Press photo shooting key to enter sub-menu.
3. Press W/T key to choose the required exposure value from the menu(from +2~-2), press menu key back to video shooting mode.
- 4.The device support touch screen. Under video shooting mode, touch the screen and press the middle left icon"  ", and press  to choose exposure setting, and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to exposure setting, then press the left bottom  back to video shooting mode.

#### 3.2.5 ISO Settings

This function could adjust the light sensitivity, advise to use "ISO auto" mode.

1. Press MENU key to bring up menu, press W/T key to choose ISO setting

2.Press photo shooting key to enter sub-menu.

3.Press W/T key to choose the required ISO value from the menu(100/200/400), press menu key back to video shooting mode.

- 4.The device support touch screen, press left middle setting icon under video shooting
- The device support touch screen. Under video shooting mode, touch the screen and press the middle left icon"  ", and press  to choose ISO setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to ISO setting , then press the left bottom  back to video shooting mode.

#### 3.2.6 Anti-shaking setting.

This function can reduce the fuzziness because of hands shaking

- 1.Press MENU key to bring up menu, press W/T key to choose Anti-shaking setting
- 2.Press photo shooting key to enter sub-menu.
- 3 Press W/T key to choose the Anti-shaking:off/on, press menu key back to video shooting mode.
- 4.The device support touch screen. Under video shooting mode, touch the screen and press the middle left icon"  ", and press  to choose anti-shaking setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to anti-shaking setting , then press the left bottom  back to video shooting mode.

#### 3.2.7 Date stamp setting

This function can set time stamp on the video or not.

1. Press MENU key to bring up menu, press W/T key to choose Time stamp setting
- 2.Press photo shooting key to enter sub-menu.
3. Press W/T to decide if the time stamp shows on the video or not: off/ on press photo shooting key to save and press menu back to video shooting mode.
- 4.The device support touch screen. Under video shooting mode, touch the screen and press the middle left icon"  ", and press  to choose date stamp setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to date stamp setting , then press the left bottom  back to video shooting mode.

### 3.3 Playback

Play back the photo or watch the video on the machine at the shooting or video mode. Protect, revolve, delete and use PictBridge interface to print the photo from the machine; protect and delete the video document.

Press MODE switch to playback mode, and touch the middle icon of the screen  to enter into playback mode, and operate the photo

1. Press W/T key to check the photo last or next or you could touch the icon on the screen,  means the last,  means next.
2. In playback mode, press W/T to move the photo right/left when present file is photo, and press Rec/stop key, then press W/T to move up/down, press Red/stop key to back this mode, when the photo zoomed in, press photo shooting key back to normal size.

Under playback mode, you could edit, stop, pause, volume +/-, video forward/backward, details as belows:

1. When present file is video, press Rec/stop key to play, and press again to stop, press the photo shooting key during playing is stop playing.
2. During playing the video, press W/T to adjust the volume.
3. The video playing can also release by touch the icon at the bottom.
  -  icon, means play
  -  icon, press to stop during playing video
  -  icon, press to stop during playing photos
  -  icon, press this key during playing video means fast forward, when there is no video, this icon means page backward.
  -  icon, press this key during playing video means backward, when there is no video, this icon means page forward.

you could also take the belowing action except the above related:

#### 3.3.1 Delete Setting

This function can allow the user to delete the unnecessary photo/video(delete one file per time or all in one time)

1. Press MENU key to bring up menu, and press W/T to choose delete.
  2. Press photo shooting key to enter sub-menu.
  3. Press W/T to choose the file need to delete, choose delete one/all, press photo shooting key to confirm: YES/CANCEL
- Press photo shooting key to choose operation, and back to playback mode.

4.The device support touch screen. Under playback mode, touch the screen and press the middle left icon , and press  to choose delete setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to delete setting, then press the left bottom back to playback mode.

#### 3.3.2 Protect settings

This function can protect the photos don't be accidentally deleted, you can't delete the protected files, unprotect the file first then delete can be executed.

- 1.Press the "MENU" key to bring up the photo operation menu in playback mode,
- 2.Press photo shooting key to enter into menu.
- 3.Press W/T to choose the option: lock current/unlock current/ lock all/unlock all, press photo shooting key to confirm, and back to playback mode.
- 4.The device support touch screen. Under playback mode, touch the screen and press the middle left icon , and press  to choose protect setting , and press the right bottom  to enter into menu, and press the right bottom  again to save the choice and back to protect setting , then press the left bottom back to playback mode.

#### Notice:

1. The pictures can not be deleted when the card is protected unless the release the protection.
2. The pictures can be deleted when choose to format the card.

### 3.4 Operation under Setting

This chapter introduces that how to setting when it is setting mode, the way to enter into setting mode: double press menu key under photo/video/playback mode. this means that entering into setting mode, you could do the basic setting, such as time, language, frequency, system voice etc.

#### 3.4.1 Date and time setting

This function can do the time and date setting of this device.

- 1.Under this mode, press W/T key to choose date and time menu.
- 2.Press photo shooting key to enter into sub-menu.
- 3.The setting could be done in the blank, setting method: press W/T to do the setting, press photo shooting key to switch between date and time. After setting done, press photo shooting key to save.

4. The device support touch screen. Under photo/video shooting or playback mode, touch the screen and press the middle left icon "  ", and press   to enter into setting mode, and touch the screen bottom up/down   button to choose date/time menu, then press the confirm button  to enter into menu, press the screen bottom direction button     to set date/time, back to setting mode menu after finished the setting.

#### 3.4.2 Auto power off setting

This function can let the camera power off automatically after a period time no operation to save power

- 1.Press W/T to choose "auto power off" menu.
- 2.press photo shooting key to enter into sub-menu.
- 3.press W/T key to choose the time power off: off/3mins/5mins/10mins, and press photo shooting key to save and back to setting mode.
- 4.The device support touch screen. Under photo/video shooting or playback mode, touch the screen and press the middle left icon "  ", and press   to enter into setting mode, and touch the screen bottom up/down   button to choose auto power off menu, then press the confirm button  to enter into menu, press the screen bottom direction button     to set auto power off, back to setting mode menu after finished the setting.

#### 3.4.3 Beep sound

This function can turn on/off system key sound

1. Press W/T to choose "key sound" menu.
- 2.press photo shooting key to enter into sub-menu.
- 3.press W/T key to choose: on/off, and press photo shooting key to save and back to setting mode.
- 4.The device support touch screen. Under photo/video shooting or playback mode, touch the screen and press the middle left icon "  ", and press   to enter into setting mode, and touch the screen bottom up/down   button to choose beep sound menu, then press the confirm button  to enter into menu, press the screen bottom direction button     to set beep sound, back to setting mode menu after finished the setting.

#### 3.4.4 Record Audio

This function can permit user turn on/off the audio when taking video.

1. Press W/T to choose "audio on/off" menu.
- 2.press photo shooting key to enter into sub-menu.
- 3.press W/T key to choose: on/off, and press photo shooting key to save and back to setting mode.

4.The device support touch screen. Under photo/video shooting or playback mode, touch the screen and press the middle left icon "  ", and press   to enter into setting mode, and touch the screen bottom up/down   button to choose beep sound menu, then press the confirm button  to enter into menu, press the screen bottom direction button     to set beep sound, back to setting mode menu after finished the setting.

#### 3.4.5 Language

The device support multi-language, please choose according to your habit.

- 1.Press W/T to choose "language" menu under setting mode.
- 2.Press photo shooting key to enter into sub-menu.
- 3.Press W/T key to choose language, press photo shooting key to save and back to setting
- 4.The device support touch screen. Under photo/video shooting or playback mode, touch the screen and press the middle left icon "  ", and press   to enter into setting mode, and touch the screen bottom up/down   button to choose language menu, then press the confirm button  to enter into menu, press the screen bottom direction button     to set language, back to setting mode menu after finished the setting.

#### 3.4.6 TV mode setting

This function is to let the camera accord with TV system.

- 1..Press W/T to choose "TV mode" menu under setting mode.
- 2.Press photo shooting key to enter into sub-menu.
- 3.Press W/T key to choose TV mode: NTSC/PAL, press photo shooting key to save and back to setting
- 4.The device support touch screen. Under photo/video shooting or playback mode, touch the screen and press the middle left icon "  ", and press   to enter into setting mode, and touch the screen bottom up/down   button to choose TV mode menu, then press the confirm button  to enter into menu, press the screen bottom direction button     to set TV mode, back to setting mode menu after finished the setting.

#### 3.4.7 Frequency setting

This setting can avoid the video flashing because of the power frequency difference.

- 1.Press W/T to choose "TV system" menu under setting mode.
- 2.Press photo shooting key to enter into sub-menu.
- 3.Press W/T key to choose power frequency: 50HZ/60HZ, press photo shooting key to save and back to setting
- 4.The device support touch screen. Under photo/video shooting or playback mode, touch the screen and press the middle left icon"  ", and press   to enter into setting mode, and touch the screen bottom up/down   button to choose frequency menu, then press the confirm button  to enter into menu, press the screen bottom direction button     to set frequency, back to setting mode menu after finished the setting.

#### 3.4.8 Screen protection settings

This setting is to save power when the device without using for a period of time. the screen will turn off while the camera on.

- 1.Press W/T to choose "Screen protection" menu under setting mode.
- 2.Press photo shooting key to enter into sub-menu.
- 3.Press W/T key to choose operation: off/3mins/5mins/10mins, press photo shooting key to save and back to setting
- 4.The device support touch screen. Under photo/video shooting or playback mode, touch the screen and press the middle left icon"  ", and press   to enter into setting mode, and touch the screen bottom up/down   button to choose screen protection menu, then press the confirm button  to enter into menu, press the screen bottom direction button     to set screen protection, back to setting mode menu after finished the setting.

#### 3.4.9 IR Led settings

This function is according to users' habit to turn on/off led

- 1.Press W/T to choose "IR led" menu under setting mode.
- 2.Press photo shooting key to enter into sub-menu.
- 3.Press W/T key to choose led operation on/off, press photo shooting key to save and back to setting
- 4.The device support touch screen. Under photo/video shooting or playback mode, touch the screen and press the middle left icon"  ", and press   to enter into setting mode, and touch the screen bottom up/down   button to choose IR LED menu, then press the confirm button  to enter into menu, press the screen bottom direction button     to set IR led, back to setting mode menu after finished the setting.

#### Notice:

This function can be realized by long press the DISP key.

#### 3.4.10 Format setting

This function can format the SD card, the file will not be recoverable after formatted.

- 1.Press W/T to choose "format" menu under setting mode.
- 2.Press photo shooting key to enter into sub-menu.
- 3.Press W/T key to choose format operation on/off, press photo shooting key to save and back to setting

4.The device support touch screen. Under photo/video shooting or playback mode, touch the screen and press the middle left icon"  ", and press   to enter into setting mode, and touch the screen bottom up/down   button to choose format menu, then press the confirm button  to enter into menu, press the screen bottom direction button     to format, back to setting mode menu after finished the setting.

#### 3.4.11 Default setting

If the camera can not work normally because of wrong operation, user could use this function to default the device, the details on the SD card will be stay same as before.

1. Press W/T to choose "default setting" menu under setting mode.
- 2.Press photo shooting key to enter into sub-menu.
- 3.Press W/T key to choose default operation on/off, press photo shooting key to save and back to setting
- 4.The device support touch screen. Under photo/video shooting or playback mode, touch the screen and press the middle left icon"  ", and press   to enter into setting mode, and touch the screen bottom up/down   button to choose default setting menu, then press the confirm button  to enter into menu, press the screen bottom direction button     to do default setting, back to setting mode menu after finished the setting.

### 3.4.12 Version View

This function is to check the present Firmware version,

1.Press W/T to choose "version" menu under setting mode.

2.Press photo shooting key to enter into sub-menu.

3.After checking back to setting mode.

4.The device support touch screen. Under photo/video shooting or playback mode, touch the screen and press the middle left icon "  ", and press   to enter into setting mode, and touch the screen bottom up/down   button to choose version menu, then press the confirm button  to enter into menu to check version, press again back to setting mode menu.

### 4.1. Technical Features

Sensor	500 CMOS sensor, Max. to 24Mega Pixels
* Sentity	Auto , ISO100 , ISO200 , ISO400
Storage	Support SD/SDHC card , Max. to 64 GB
Lens	Focus , F/3.2 , f=7.5mm
Focus Range	Micro:15cm~25cm,Nomal : 1.5M ~infinity
Photo	Format:JPEG resolution:24M, 20M, 16M, 12M, 10M, 8M, 7MHD, 5M, 3M, 2MHD, 1.3M
Video	Video format: MOV(H.264) 1080PFHD(1920X1080), 720p HD(1280*720), WVGA(848*480). VGA(640*480)
Zoom	16X
Anti-shake	Digital Anti-shake
Face detect	Support
Video volume	Support
LCD screen	3.0 inch TFT-LCD digital screen (16 : 9 ) touch panel
LED lights	< 1.0m , video:on/off , photo : on/off
White balance	auto/daylight/cloudy/tungsten/fluorescent
Exposure	-2.0EV~+2.0EV
Self-timer	single, 2s, 5s, 10s
Computer interface	USB 2.0
TV system	NTSC/PAL
Auto power off	off, 3mins, 5mins, 10mins
Power	NP-180 Lithium Battery
Dimension	128(L) X55 (W) X56 (H) mm
Weight	about 300 g

## 4.2 Common Problem and Solution

Questions	Possible causes	Solutions
Unbootable	Not properly install battery , No power for battery	Properly install battery according to the manual Charge battery
Suddenly shut down	Opened power saving function, No power for battery	Repeatedly open power supply, Exchange new battery
Not store the shot photo	Interrupt power before storing the photo	When the battery indicator becomes red, immediately exchange the new battery or charge the battery
Automatically close when shooting	No power for battery	Exchange the new battery Charge the battery
Ambiguously focusing	Out of focus range Open micro switch	Shoot in focusing range Choose normal or micro mode
Not use memory card	Protected memory card Error document format Damage memory card	Release memory card protection Format memory card Exchange the qualified memory card
Inaction of all keys	Short circuit in connection of the machine and other device	Repeatedly check the connecting circuit Take out the battery and repeatedly open the machine

## 目 录

1 关于本机 .....	1
1.1系统需求 .....	1
1.2机器图示 .....	1
1.3按键功能说明 .....	2
2 开始使用 .....	3
3 使用本机 .....	6
4 附录 .....	19
4.1技术规格 .....	18
4.2常见故障与解决 .....	18

# 1.关于本机

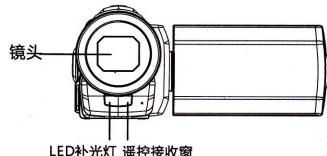
1

## 1.1系统要求

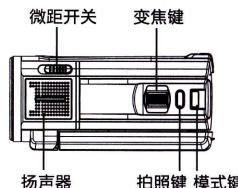
本机与计算机连接时，至少需要具备下列规格的计算机：奔腾2.0 GHZ或以上处理器/Windows XP 或以上系统/2GB 内存/40GB以上可用磁盘空间/准USB接口/1GB或以上的显示卡/1024X768像素或更高屏幕分辨率

## 1.2机器图示

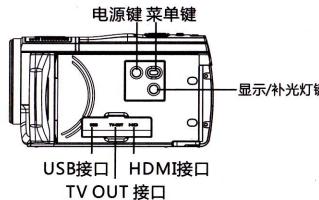
【机器前视图】



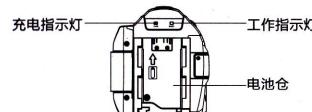
【机器顶视图】



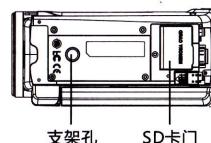
【机器左视图】



【机器后视图】



【机器底视图】



# 1.关于本机

2

## 1.3按键功能说明

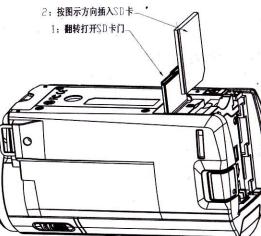
图示	按键名称	功能说明
	电源键	开启/关闭电源
	菜单键	在各种模式下调出控制菜单
	模式键	切换摄像/拍照/回放模式：■代表拍照模式，■代表摄像模式，■代表回放模式
	显示/补光灯键	轻按依次变更屏幕显示内容,关闭/打开屏幕显示;长按3秒可打开/关闭LED补光灯
	拍照键	拍照模式下:拍照功能;回放模式下:播放录影文件过程中,按此键停止播放。
	录制/停止键	录影模式下:录影/停止录影功能;回放模式下:播放录影文件过程中,播放/暂停播放录影文件
	变焦键	拍照/摄像模式下放大/缩小功能；回放模式下:对照片缩小/放大/前后翻页照片,对录影文件:调节声音大小/前后翻页文档

## 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.翻转打开SD卡门。
- 2.如图所示,插入SD卡并推进,直至听到“咔嗒”声,存储卡被正确装入。
- 3.关上SD卡门。



### 注意!

使用前请用本机对存储卡进行格式化。在录影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本机死机或工作不正常,请装机适配,注意是否兼容。

## 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.将电池按图示方向推入电池仓。

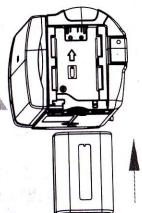
2.将电池向内推进至听到“咔嗒”声。

## 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！

禁止使用非原装电池和充电器！

非原装充电器及电池可能造成机器损坏或造成人身伤害！



1、将电池按此方向装入电池仓

2、将电池向内推并卡紧直至听到“咔嗒”声

## 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。

## 2.4开启和关闭本机

按住【电源键】，可以开启本机电源；在开机状态下按住【电源键】，可以关闭本机电源。

本机支持开/关屏自动开/关机功能。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切换模式

按【模式键】可以在录像模式、拍照模式和回放模式之间进行切换。相应模式会显在屏幕左上角。也可以通过触摸屏幕左/右边中间部份的图标来进行模式切换。

## 2.6遥控器的使用说明(遥控器为可选配件)

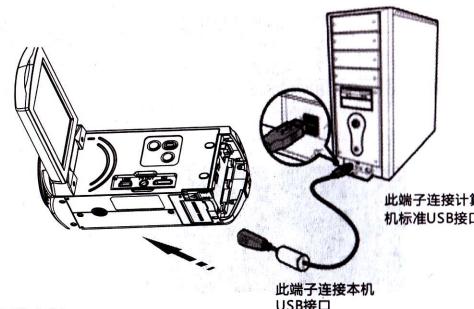
本机除了可以使用按键操作外，还可以使用选配的遥控器进行遥控操作。

具体请参见遥控器。

## 2.7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。

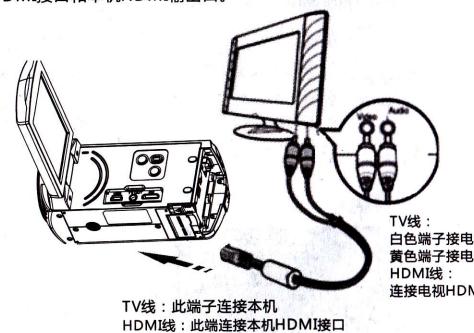
与计算机的USB线连接后，开机，选择“存储器”，本机可做U盘使用，选择“摄像头”，本机可做摄像头使用。



## 2.8连接至标准电视

如图所示，本机可连接至电视机，以显示视频或照片。

推荐使用HDMI高清线连接电视机，以取得较好的播放效果。使用HDMI线时，该线需连接电视机的HDMI接口和本机HDMI输出口。

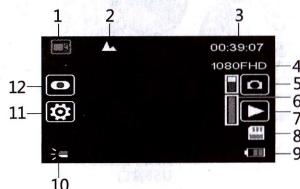


此章节帮助您熟悉本机。

### 2.9 摄像模式

使用摄像模式可以拍摄视频片段，并储存到存储卡上。摄像模式下图标的含义见下表与图示。(有些图标是需要点击触摸屏才会显示)。

1 摄像模式指示器	5 拍照模式指示器	9 电池电量指示器
2 正常/微距指示器	6 变焦指示器	10 LED补光灯指示器
3 剩余录制时间指示器	7 回放模式指示器	11 设置模式指示器
4 视频分辨率指示器	8 存储卡指示器	12 录影模式指示器



### 2.10 拍照模式

在拍照模式下可拍摄照片并储存到存储卡上。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。(有些图标是需要点击触摸屏才会显示的)。

1 拍照模式指示器	6 照片分辨率指示器	11 电池电量指示器
2 自拍指示器	7 录影模式指示器	12 LED补光灯指示器
3 正常/微距指示器	8 变焦指示器	13 设置模式指示器
4 连拍指示器	9 回放模式指示器	14 拍照模式指示器
5 可拍照数量指示器	10 存储卡指示器	



### 2.11 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)。向左拨动【变焦键】可以拉远与物体的距离(即缩小景物)。

#### 2.1.2 使用DISP功能与使用LED补光灯

##### 2.1.2.1 使用DISP功能

本机有DISP功能，短按DISP键，可在清屏/关屏之间进行切换。

##### 2.1.2.2 使用LED补光灯功能

本机内置LED补光灯，可以在光线不佳的环境下补偿光线。在摄像或拍照模式下，长按LED灯开关键：打开/关闭LED灯，LED灯开启时，图标显示在屏幕左下角。

#### 注意!

LED补光灯在拍照及摄像中均可打开或关闭，使用方法相同。  
变焦功能在拍照及摄像模式下均可使用，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.未插SD卡时，按拍照键屏幕会提示“请插入SD卡”，当SD卡存储满时，屏幕会显示“内存卡已满”，此时请插入另一张SD卡，以继续拍摄。

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，具体操作如下。

##### 3.1.1 设置拍摄方式功能

本机可设置单拍或定时自拍。

1.在拍照模式下，按【MENU键】调出菜单，按W/T键选择“拍摄方式”菜单；

2.按【拍照键】进入子菜单；

3.按W/T键选择所需要的拍摄方式：单拍/2秒定时/5秒定时/10秒定时，再按【拍照键】确认保存，然后按【MENU键】返回到拍照模式。

4.本机支持触屏操作，在拍照模式下，点击触摸屏，再点击左中部的“设置模式”图标，再点击屏幕底部的“上下方向按钮”图标，选择“拍摄方式”菜单，再点击底部右边的“确认按钮”，进入菜单，点击所需的操作，然后再次点击底部右边的“确认按钮”，保存并返回到“拍照模式”菜单，最后点击最底左边的“返回按钮”，返回到拍照模式。

## 3.1.2设置分辨率功能

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.在拍照模式下,按【MENU键】调出菜单,按W/T键选择“分辨率”菜单;

2.按【拍照键】进入子菜单;

3.按W/T键选择所需的影响尺寸,按【拍照键】确认保存,然后按【MENU键】返回拍照模式。

4.本机支持触屏操作,在拍照模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕底部的“上下方向按钮”图标,选择“分辨率”菜单,再点击底部右边

的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”,保存并返回到“拍照模式”菜单,最后点击最底左边的“返回按钮”,返回到拍照模式。

## 3.1.3设置连拍功能

此功能可以连续拍摄三张照片。

1.在拍照模式下,按【MENU键】调出菜单,按W/T键来选择“连拍”菜单;

2.按【拍照键】进入子菜单;

3.按W/T键选择是否连拍:关/开,按【拍照键】确认保存,然后按【MENU键】返回拍照模式。

4.本机支持触屏操作,在拍照模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕底部的“上下方向按钮”图标,选择“连拍”菜单,再点击底部右边

的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”,保存并返回到“拍照模式”菜单,最后点击最底左边的“返回按钮”,返回到拍照模式。

## 3.1.4设置图象质量功能

此功能可设置所拍摄照片的质量高低。

1.在拍照模式下,按【MENU键】调出菜单选项,按W/T键选择“图象质量”菜单;

2.按【拍照键】进入子菜单;

3.按W/T键选择所需的图片质量:“优质/标准/经济”,按【拍照键】确认,然后按【MENU键】

返回到拍照模式。

4.本机支持触屏操作,在拍照模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕底部的“上下方向按钮”图标,选择“图象质量”菜单,再点击底部右边

的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”,保存并返回到“拍照模式”菜单,最后点击最底左边的“返回按钮”,返回到拍照模式。

## 3.1.5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.在拍照模式下,按【MENU键】调出菜单选项,按W/T键选择“锐度”菜单;

2.按【拍照键】进入子菜单;

3.按W/T键选择所需的照片锐利度:强烈/标准/锐利,按【拍照键】确认,然后按【MENU键】

返回到拍照模式。

4.本机支持触屏操作,在拍照模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕底部的“上下方向按钮”图标,选择“锐度”菜单,再点击底部右边

的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”,保存并返回到“拍照模式”菜单,最后点击最底左边的“返回按钮”,返回到拍照模式。

## 3.1.6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.在拍照模式下,按【MENU键】调出菜单选项,按W/T键选择“白平衡”菜单;

2.按【拍照键】进入子菜单;

3.按W/T键选择所需白平衡效果:自动/日光/阴天/钨丝灯/荧光灯,按【拍照键】确认保存,然后按【MENU键】返回到拍照模式。

4.本机支持触屏操作,在拍照模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕底部的“上下方向按钮”图标,选择“白平衡”菜单,再点击底部右边的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”,保存并返回到“拍照模式”菜单,最后点击最底左边的“返回按钮”,返回到拍照模式。

## 3.1.7设置色彩功能

此功能是用来设置所拍照片的特殊效果。

1.在拍照模式下,按【MENU键】调出菜单选项,按W/T键选择“色彩”菜单;

2.按【拍照键】进入子菜单;

3.按W/T键选择所需的色彩效果:“彩色/黑白/棕褐色”,按【拍照键】确认保存,然后按【MENU键】返回到拍照模式。

4.本机支持触屏操作,在拍照模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕底部的“上下方向按钮”图标,选择“色彩”菜单,再点击底部右边的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”,保存并返回到“拍照模式”菜单,最后点击最底左边的“返回按钮”,返回到拍照模式。

## 3.1.8设置ISO(感光度)功能

使用此功能可调节感光度,推荐使用自动模式。

1.在拍照模式下,按【MENU键】调出菜单选项,按W/T键选择“ISO”菜单;

2.按【拍照键】进入子菜单;

3.按W/T键选择所需的感光度值:自动/100/200/400,按【拍照键】确认保存,然后按【MENU键】返回到拍照模式。

4.本机支持触屏操作,在拍照模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕底部的“上下方向按钮”图标,选择“ISO”菜单,再点击底部右边的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”,保存并返回到“拍照模式”菜单,最后点击最底左边的“返回按钮”,返回到拍照模式。

## 3.1.9 设置曝光补偿功能

此项功能是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,调节此项功能无效。

1.在拍照模式下,按【MENU键】调出菜单,按W/T键选择“曝光补偿”菜单;

2.按【拍照键】进入子菜单;

3.按W/T键选择所需的曝光值:EV值(从+2到-2),按【拍照键】确认保存,然后按【MENU键】返回到拍照模式。

4.本机支持触屏操作，在拍照模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕底部的“上下方向按钮”图标,选择“曝光补偿”菜单,再点击底部右边的“确认按钮”，进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”，保存并返回到“拍照模式”菜单,最后点击最底左边的“返回按钮”，返回到拍照模式.

### 3.1.10设置日期标签

此功能是允许用户在所拍摄的照片上是否显示日期和时间.

- 1.在拍照模式下,按【MENU键】调出菜单选项,按W/T键选择“日期标签”菜单;
- 2.按【拍照键】进入子菜单;
- 3.按W/T键选择是否在所拍摄的照片上显示日期和时间:关/日期/ 日期/时间.按【拍照键】确认保存,然后按【MENU键】返回到拍照模式.
- 4.本机支持触屏操作，在拍照模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕底部的“上下方向按钮”图标,选择“日期标签”菜单,再点击底部右边的“确认按钮”，进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”，保存并返回到“拍照模式”菜单,最后点击最底左边的“返回按钮”，返回到拍照模式.

### 3.1.11设置人脸识别功能

此功能是在拍照模式下,本机可自动侦测到取景范围内的人脸并加以识别.

- 1.在拍照模式下,按【MENU键】调出菜单选项,按W/T键选择“人脸识别”菜单;
- 2.按【拍照键】进入子菜单;
- 3.按W/T键选择人脸侦测是否打开:关/人脸识别.按【拍照键】确认保存,然后按【MENU键】返回到拍照模式.
- 4.本机支持触屏操作，在拍照模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕底部的“上下方向按钮”图标,选择“人脸识别”菜单,再点击底部右边的“确认按钮”，进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”，保存并返回到“拍照模式”菜单,最后点击最底左边的“返回按钮”，返回到拍照模式.

### 3.1.12设置防手震功能

此功能可减少因抖动而导致所拍摄照片模糊.

- 1.在拍照模式下,按【MENU键】调出菜单选项,按W/T键来选择“防手震”菜单;
- 2.按【拍照键】进入子菜单;
- 3.按W/T键选择防手震功能是否打开:关/开.按【拍照键】确认保存,然后按【MENU键】返回到拍照模式.
- 4.本机支持触屏操作，在拍照模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕底部的“上下方向按钮”图标,选择“防手震”菜单,再点击底部右边的“确认按钮”，进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”，保存并返回到“拍照模式”菜单,最后点击最底左边的“返回按钮”，返回到拍照模式.

### 3.1.13设置快速预览功能

此功能是允许用户设置在拍摄照片后瞬间回放照片的时间长短.

- 1.在拍照模式下,按【MENU键】调出菜单选项,按W/T键选择“快速预览”菜单;
- 2.按【OK键】进入子菜单;
- 3.按W/T键选择快速预览照片的时间长短:“关/2秒/5秒”.按【拍照键】确认保存,然后按【MENU键】返回到拍照模式.
- 4.本机支持触屏操作，在拍照模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕底部的“上下方向按钮”图标,选择“快速预览”菜单,再点击底部右边的“确认按钮”，进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”，保存并返回到“拍照模式”菜单,最后点击最底左边的“返回按钮”，返回到拍照模式.

### 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,屏幕左上方红色圆型图标闪烁,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 设置分辨率功能

本机可以选择不同的视频分辨率:1080FHD/720P/WVGA/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. 在录影模式下,按【MENU键】调出菜单,按W/T键选择“分辨率”菜单;
  2. 按【拍照键】进入子菜单;
  3. 按W/T键选择所需的影像尺寸:1080FHD/720P/WVGA/VGA,按【拍照键】确认保存,然后按【MENU键】返回到录影模式。
4. 本机支持触屏操作,在录影模式下,点击触摸屏,再点击左中部的“设置模式 ”图标,再点击屏幕底部的“上下方向按钮 ”图标,选择“分辨率”菜单,再点击底部右边的“确认按钮 ”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮 ”,保存并返回到“录影模式”菜单,最后点击最底左边的“返回按钮 ”,返回到录影模式。

#### 3.2.2 设置WDR功能

本机可以开启或关闭WDR(宽动态范围)功能

1. 在录影模式下,按【MENU键】调出菜单,按W/T键选择“WDR”菜单;
  2. 按【拍照键】进入子菜单;
  3. 按W/T键选择是否开启WDR功能:开/关,按【拍照键】确认保存,然后按【MENU键】返回到录影模式。
4. 本机支持触屏操作,在录影模式下,点击触摸屏,再点击左中部的“设置模式 ”图标,再点击屏幕底部的“上下方向按钮 ”图标,选择“WDR”菜单,再点击底部右边的“确认按钮 ”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮 ”,保存并返回到“录影模式”菜单,最后点击最底左边的“返回按钮 ”,返回到录影模式。

#### 3.2.3 设置白平衡功能

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. 在录影模式下,按【MENU键】调出菜单选项,按W/T键选择“白平衡”菜单;
  2. 按【拍照键】进入子菜单;
  3. 按W/T键选择所需白平衡效果:自动/日光/阴天/钨丝灯/荧光灯,按【拍照键】确认保存,然后按【MENU键】返回到录影模式。
4. 本机支持触屏操作,在录影模式下,点击触摸屏,再点击左中部的“设置模式 ”图标,再点击屏幕底部的“上下方向按钮 ”图标,选择“白平衡”菜单,再点击底部右边的“确认按钮 ”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮 ”,保存并返回到“录影模式”菜单,最后点击最底左边的“返回按钮 ”,返回到录影模式。

#### 3.2.4 设置曝光补偿功能

此项功能允许用户依据环境亮度调节所录影影片亮度,在环境亮度较低时,调节此项功能无效。

1. 在录影模式下,按【MENU键】调出菜单,按W/T键选择“曝光补偿”菜单;
  2. 按【拍照键】进入子菜单;
  3. 按W/T键选择所需的曝光值:EV值(从+2到-2),按【拍照键】确认保存,然后按【MENU键】返回到录影模式。
4. 本机支持触屏操作,在录影模式下,点击触摸屏,再点击左中部的“设置模式 ”图标,再点击屏幕底部的“上下方向按钮 ”图标,选择“曝光补偿”菜单,再点击底部右边的“确认按钮 ”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮 ”,保存并返回到“录影模式”菜单,最后点击最底左边的“返回按钮 ”,返回到录影模式。

#### 3.2.5 设置ISO(感光度)功能

使用此功能可调节感光度,推荐使用自动模式。

1. 在录影模式下,按【MENU键】调出菜单选项,按W/T键选择“ISO”菜单;
2. 按【拍照键】进入子菜单;
3. 按W/T键选择所需感光度值:自动/100/200/400,按【拍照键】确认保存,然后按【MENU键】返回到录影模式。

4. 本机支持触屏操作,在录影模式下,点击触摸屏,再点击左中部的“设置模式 ”图标,再点击屏幕底部的“上下方向按钮 ”图标,选择“ISO”菜单,再点击底部右边的“确认按钮 ”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮 ”,保存并返回到“录影模式”菜单,最后点击最底左边的“返回按钮 ”,返回到录影模式。

#### 3.2.6 设置防手震功能

此功能可减少因抖动而导致所录影影片的模糊。

1. 在录影模式下,按【MENU键】调出菜单选项,按W/T键选择“防手震”菜单;
2. 按【拍照键】进入子菜单;
3. 按W/T键选择防手震功能是否打开:开/关,按【拍照键】确认保存,然后按【MENU键】返回到录影模式。

4. 本机支持触屏操作,在录影模式下,点击触摸屏,再点击左中部的“设置模式 ”图标,再点击屏幕底部的“上下方向按钮 ”图标,选择“防手震”菜单,再点击底部右边的“确认按钮 ”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮 ”,保存并返回到“录影模式”菜单,最后点击最底左边的“返回按钮 ”,返回到录影模式。

#### 3.2.7 设置日期标签

此功能允许用户在所录影的影片上是否显示日期和时间。

1. 在录影模式下,按【MENU键】调出菜单选项,按W/T键选择“日期标签”菜单;
  2. 按【拍照键】进入子菜单;
  3. 按W/T键选择是否在所拍摄的影片上显示日期和时间:关/日期/日期/日期/时间,按【拍照键】确认保存,然后按【MENU键】返回到录影模式。
4. 本机支持触屏操作,在录影模式下,点击触摸屏,再点击左中部的“设置模式 ”图标,再点击屏幕底部的“上下方向按钮 ”图标,选择“日期标签”菜单,再点击底部右边的“确认按钮 ”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮 ”,保存并返回到“录影模式”菜单,最后点击最底左边的“返回按钮 ”,返回到录影模式。

## 3.3 回放文件

本章节介绍在回放模式下的操作,当本机所拍照片/所录的视频文档,可以在回放模式下进行观看,也可对照片/视频文档进行删除、保护等操作。

按【MODE键】切换到回放模式,或通过点击触摸显示屏右中部的图标" "进入回放模式。在回放模式下,对照片的操作:

- 1.在回放模式下按W/T键,分别是向前/向后查看照片或视频文档;也可以点击触屏底部的按钮来翻页,点击" "表示向前翻页,点击" "表示向后翻页
- 2.在回放模式下,当前为照片文件时,按【拍照键】,再按W/T键,可对照片进行放大/缩小操作,当照片放大后,按【录影键】,再按W/T键,可对放大的照片进行左右移动,按【MENU键】和【DISP键】;可对放大的照片进行上下移动,当再次按【录影键】可退出照片移动模式;当照片放大后,再次按【拍照键】可退出照片放大模式。

在回放模式下,对录影视频文件可进行播放,暂停,停止,声音大小调节,快进/快退等操作,具体如下:

- 1.当前为录影文件时,按【录影键】是播放视频,再按一次【录影键】是停止播放,在播放过程中按【拍照键】是停止播放。
- 2.在播放录影文件过程中,按W/T键可以调节播放文件的声音大小;
- 3.播放录影文件也可以通过点击触摸屏底部的按钮来进行操作:
  - " "图标,点击表示播放;
  - " "图标,在播放过程中点击表示暂停播放;
  - " "图标,播放过程中点击此图标,表示停止播放;
  - " "图标,在播放过程点此图标,表示快进,在没有播放视频时,此图标为向后翻页;
  - " "图标,在播放过程中点此,表示快退,在没有播放视频时,此图标为向前翻页

对照片/视频文件除了以上操作外,还可以对其进行删除、保护操作,具体如下:

## 3.3.1 删除功能

此功能允许用户删除不需要的照片/视频文件(可一次删除一张照片或一次全部删除照片)。

- 1.在回放模式下,按【MENU键】调出菜单,按W/T键选择“删除”菜单;
- 2.按【拍照键】进入子菜单;
- 3.按W/T键选择所需删除选项:删除当前/全部删除,按【拍照键】确认是否删除:取消/确认按【拍照键】选择并执行操作,并返回到回放模式菜单
- 4.本机支持触屏操作,在回放模式下,点击触屏屏,再点击左中部的“设置模式” 图标,再点击屏幕底部的“上下方向按钮图标” ,选择“删除”菜单,再点击底部右边的“确认按钮” ,进入菜单,再选择所需的操作,然后再次点击底部右边的“确认按钮” ,此时再次确认是否需作删除操作,选择后,再次点击底部右边的“确认按钮” ,执行操作,并返回到回放菜单。

## 3.3.2 保护操作

此功能允许用户对照片/视频文件进行保护及解除保护操作。

- 1.在回放模式下,按【MENU键】调出菜单,按W/T键选择“保护”菜单;
- 2.按【拍照键】进入子菜单;
- 3.按W/T键选择所需的操作选项:加锁当前/解锁当前/全部加锁/全部解锁,按【拍照键】确认并执行操作,并返回回放模式菜单。
- 4.本机支持触屏操作,在回放模式下,点击触屏屏,再点击左中部的“设置模式” 图标,再点击屏幕底部的“上下方向按钮图标” ,选择“保护”菜单,再点击底部右边的“确认按钮” ,进入菜单,点击所需操作,然后再次点击底部右边的“确认按钮” ,执行操作,并返回到回放菜单。

## 备注:

- 1.照片被保护后,是不能被本机删除的,必须解除保护后方可执行删除;
- 2.照片被保护后,执行“格式化”功能,是可以删除掉的。

## 3.4 设置模式下的操作

本章节介绍如何在设置模式进行功能设置,进入设置模式方法:在拍照模式/录影模式/回放模式下,连续按两次【MENU键】;此时屏幕右上角会显示“设置”,此时表示进入了设置模式,在此模式下,可以进行基本设定,如时间、语方、频率、按键声音等。

## 3.4.1 设置日期和时间功能

此功能可以设置本机日期和时间。

- 1.在设置模式下,按W/T键选择“日期和时间”菜单;
- 2.按【拍照键】进入子菜单;
- 3.在弹出的框内进行日期和时间的设定,设定方法:按W/T键可进行各项设置,按【拍照键】可以在各日期和时间之间切换,设置完毕后按【拍照键】保存并返回到设置模式。
- 4.本机支持触屏操作,在拍照/录影/回放模式下,点击触屏屏,再点击左中部“设置模式” 图标,再点击屏幕下方“左右按钮” ,进入“设置模式”,点击屏幕“上下按钮” ,选择“日期/时间”菜单,再点击底部右边的“确认按钮” ,进入菜单,再点击屏幕底部的“方向按钮” 进行日期/时间设定,完成后返回到“设置模式”菜单。

#### 3.4.2设置自动关机功能

此功能允许用户在一定时间内,未使用本机时自动关机以节省电量。

- 1.在设置模式下,按W/T键选择“自动关闭”菜单;
- 2.按【拍照键】进入子菜单;
- 3.按W/T键选择所需的关机设置时间:关/3分钟/5分钟/10分钟,按【拍照键】确认保存,并返回设置模式。
- 4.本机支持触摸操作,在拍照/录影/回放模式下,点击触摸屏,再点击左中部的“设置模式”图标,点击屏幕下方“左右按钮”,进入“设置模式”,再点击屏幕“上下按钮”,选择“自动关机”菜单,再点击底部右边的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”保存,并返回到设置模式。

#### 3.4.3设置按键声音功能

此功能可以打开或关闭本机的操作提示音。

- 1.在设置模式下,按W/T键来选择“按键声音”菜单;
- 2.按【拍照键】进入子菜单;
- 3.按W/T键选择所需操作:关/开,按【拍照键】确认保存,并返回设置模式。
- 4.本机支持触摸操作,在拍照/录影/回放模式下,点击触屏,再点击左中部的“设置模式”图标,再点击屏幕下方“左右按钮”,进入“设置模式”,点击屏幕的“上下按钮”,选择“按键声音”菜单,再点击底部右边的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”保存,并返回到设置模式。

#### 3.4.4设置录音音频功能

此功能允许用户在录制视频时是否开启声音。

- 1.在设置模式下,按W/T键选择“录音音频”菜单;
- 2.按【拍照键】进入子菜单;
- 3.按W/T键选择所需操作:关/开,按【拍照键】确认保存,并返回设置模式。
- 4.本机支持触摸操作,在拍照/录影/回放模式下,点击触屏,再点击“设置模式”图标,再点击屏幕下方的“左右按钮”,进入“设置模式”,再点击屏幕底部的“上下按钮”,选择“录音音频”菜单,再点击底部右边的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”保存,并返回到设置模式。

#### 3.4.5语言设置功能

本机支持多种语言,请根据使用习惯自行选择。

- 1.在设置模式下,按W/T键选择“语言设置”选项;
- 2.按【拍照键】进入子菜单;
- 3.按W/T键选择所需语言,按【拍照键】确认保存,并返回设置模式。
- 4.本机支持触摸操作,在拍照/录影/回放模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕的“左右按钮”,进入“设置模式”,再点击屏幕的“上下按钮”,选择“语言设置”菜单,再点击底部右边的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”保存,并返回到设置模式。

#### 3.4.6设置TV模式(电视输出制式)

此功能可以设置本机与电视连接时相匹配的电视输出制式。

- 1.在设置模式下,按W/T键选择“TV模式”菜单;
- 2.按【拍照键】进入子菜单;
- 3.按W/T键选择相匹配的电视输出制式:NTSC/PAL,按【拍照键】确认保存,并返回设置模式。
- 4.本机支持触摸操作,在拍照/录影/回放模式下,点击触摸屏,再点击左中部的“设置模式”图标,点击屏幕下方的“左右按钮”,进入“设置模式”,再点击屏幕“上下按钮”,选择“TV模式”菜单,再点击底部右边的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”保存,并返回到设置模式。

#### 3.4.7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.在设置模式下,按W/T键选择“光源频率”菜单;
- 2.按【拍照键】进入子菜单;
- 3.按W/T键选择适合的光源频率:50HZ/60HZ,按【拍照键】确认保存,并返回设置模式。
- 4.本机支持触摸操作,在拍照/录影/回放模式下,点击触摸屏,再点击屏上的“设置模式”图标,再点击屏幕的“左右按钮”,进入“设置模式”,点击屏幕的“上下按钮”,选择“光源频率”菜单,再点击底部右边的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”保存,并返回到设置模式。

#### 3.4.8设置屏幕保护功能

此设置是当用户在设置时间内未使用本机,本机进入关屏不关机状态,以节省电量。

- 1.在设置模式下,按W/T键选择“屏幕保护”菜单;
- 2.按【拍照键】进入子菜单;
- 3.按W/T键选择操作项:关/3分钟/5分钟/10分钟,按【拍照键】确认保存,并返回设置模式。
- 4.本机支持触摸操作,在拍照/录影/回放模式下,点击触摸屏,再点击左中部的“设置模式”图标,再点击屏幕的“左右按钮”,进入“设置模式”,点击屏幕底部的“上下按钮”,选择“屏幕保护”菜单,再点击底部右边的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”保存,并返回到设置模式。

## 3.4.9设置补光灯功能

此功能是用户根据实际情况将补光灯开启或关闭

1.在设置模式下,按W/T键选择“补光灯”选项;

2.按【拍照键】进入子菜单;

3.按W/T键选择补光灯操作:开/关,按【拍照键】确认保存,并返回设置模式

4.本机支持触摸操作,在拍照/录影/回放模式下,点击触屏,再点击左中部“设置模式”图标,点击屏幕下方的“左右按钮”,进入“设置模式”,再点击屏幕的“上下按钮”,选择“补光灯”菜单,再点击底部右边的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”保存,并返回到设置模式。

**备注:**此功能也可通过长按三秒左壳上的“DISP”按键来进行快捷操作

## 3.4.10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.在设置模式下,按W/T键调选择“格式化”菜单;

2.按【拍照键】进入子菜单;

3.按W/T键选择是否执行格式化操作:取消/确认,按【拍照键】确认执行后并返回设置模式

4.本机支持触摸操作,在拍照/录影/回放模式下点击触屏,再点击“设置模式”图标,再点击屏幕下方的“左右按钮”,进入“设置模式”,点击屏幕的“上下按钮”,选择“格式化”菜单,再点击底部右边的“确认按钮”,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”保存,并返回到设置模式。

## 3.4.11默认设置操作

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。

此功能不会删除存储卡内数据。

1.在设置模式下,按W/T键调选择“默认设置”菜单;

2.按【拍照键】进入子菜单;

3.按W/T键选择是否恢复默认设置:取消/确认,按【拍照键】确认执行后并返回设置模式

4.本机支持触摸操作,在拍照/录影/回放模式下,点击触屏,再点击“设置模式”图标,点击屏幕下方的“左右按钮”,进入“设置模式”,再点击屏幕的“上下按钮”,选择“默认设置”菜单,再点击底部右边的“确认”按钮,进入菜单,再点击所需的操作,然后再次点击底部右边的“确认按钮”保存,并返回到设置模式。

## 3.4.12版本查看

此功能是查看本机的当前软件版本。

1.在设置模式下,按W/T键调选择“版本”菜单;

2.按【拍照键】进入子菜单;

3.查看完毕,按【拍照键】返回设置模式。

4.本机支持触摸操作,在拍照/录影/回放模式下点击触屏,再点击“设置模式”图标,再点击屏幕的“左右按钮”,进入“设置模式”,再点击屏幕的“上下按钮”,选择“版本”菜单,再点击底部右边的“确认”按钮,查看完本机当前软件版本后,再次点击底部右边的“确认按钮”返回到设置模式。

## 4.1技术规格

影像感应器	500万像素CMOS感应器,最高2400万像素
感应灵敏度	自动,ISO100,ISO200,ISO400
储存媒体	支持SD/SDHC卡,最大32GB
镜头	固定镜头,F/3.2,f=7.5mm
对焦范围	微距:10cm~15cm,正常:1.5M~无限远
静态照片	文件格式:JPEG 分辨率:24M、20M、16M、12M、10M、8M、7MHD、5M、3M、2MHD、1.3M
视频片段	文件格式:MOV(H.264) 分辨率:1080FHD(1920x1080)、720P HD(1280x720)、WVGA(848x480)、VGA(640x480)
变焦	16X数码变焦
防抖功能	电子防抖
人脸侦测	支持
视频声音	支持
显示屏	3.0英寸TFT-LCD液晶显示器(16:9)带触摸
LED补光灯	<1.0m范围,录像:开/关,拍照:开/关
白平衡	自动/日光/阴天/钨丝灯/荧光灯
曝光补偿	-2.0EV~+2.0EV
自拍定时	单拍、2秒、5秒、10秒
计算机接口	USB 2.0
电视制式	NTSC/PAL
自动关机	关、3分钟、5分钟、10分钟
电源	NP-180锂电池
尺寸	128(长)×55(宽)×56(高)mm
重量	约300g

## 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	在可对焦范围内拍摄
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