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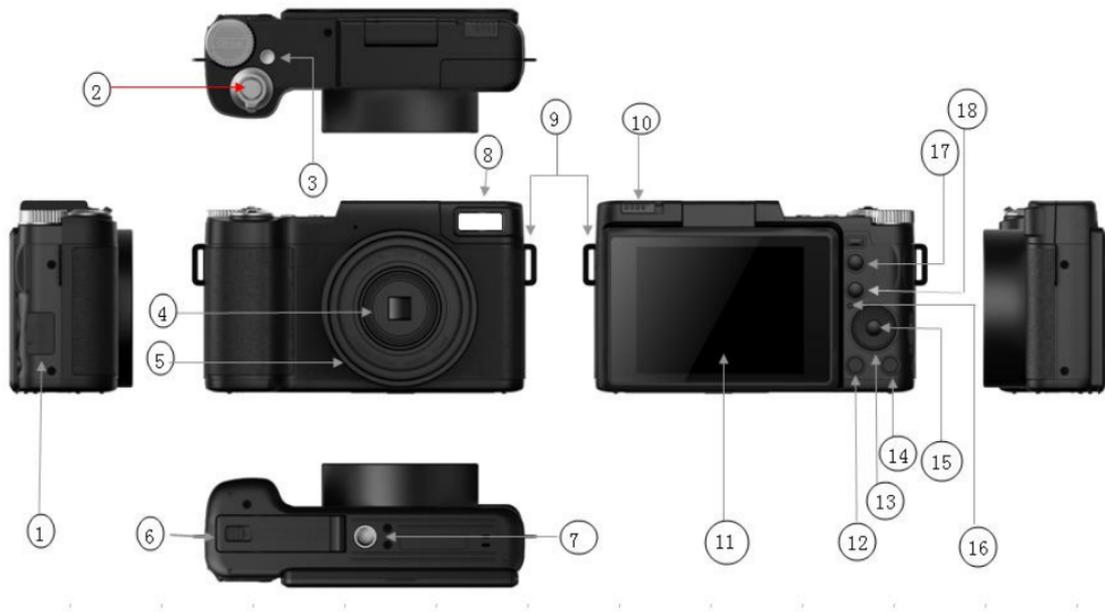
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# I. Safety Instruction

- Don't use the camera if there's any abnormality.
- Damage or destruction to the camera caused by non-conformance with the instructions will be the user's sole responsibility.
- Don't place the camera in humid environment, and keep the camera dry.
- For normal use of power adapter during rainstorm, don't touch the power plug to prevent electric shock.
- Don't use the camera if there's any foreign matter in it.
- Don't insert any metal or other object into the openings of the camera, such as the memory card slot. The manufacturer will be exempted from any loss thus incurred.
- Don't try to restructure the camera.
- Don't use the camera when driving a car.
- Don't cover or pack the camera with a cloth. Please put the camera in a well-ventilated place.
- Unplug the wire connecting with the camera before use.
- Unplug the power supply or withdraw the battery for long-term suspension of use.

## II. Camera Structure



<b>1</b>	<b>USB Cover/USB Port</b>	<b>10</b>	<b>Button to Pop up the Flashlight</b>
<b>2</b>	<b>Shutter Key</b>	<b>11</b>	<b>Display</b>
<b>3</b>	<b>Power Key</b>	<b>12</b>	<b>Key to Turn on/off the Screen</b>
<b>4</b>	<b>Lens</b>	<b>13</b>	<b>Four-Direction Key(Up/Down/Left/Right)</b>
<b>5</b>	<b>Exterior Lens Joint</b>	<b>14</b>	<b>Menu</b>
<b>6</b>	<b>Battery Compartment</b>	<b>15</b>	<b>Mode/Confirmation</b>
<b>7</b>	<b>Nut for Tripod</b>	<b>16</b>	<b>LED Indicator</b>
<b>8</b>	<b>Flashlight</b>	<b>17</b>	<b>Zoom out</b>
<b>9</b>	<b>Sling Buckle</b>	<b>18</b>	<b>Zoom in</b>

### III. Technical Parameters

<b>Image Resolution</b>	24M 5600*4200, 20M 5200*3900, 12M 4000*3000, 8M 3264*2448, 5M 2592*1944, 3M 2048*1536 and 2MHD 1920*1080
<b>Storage Medium</b>	External SD card(1G – 32GB)
<b>File Format</b>	JPEG, MOV
<b>Shooting Way</b>	Photo: Single shot and multiple shot Timer-based self shooting(2s and 10s) Video: In the camera mode, the shooting time depends on the storage media capacity
<b>Shutter Speed</b>	Electric shutter: 1/2 – 1/2000s
<b>Digital Zoom</b>	4X
<b>White Balance</b>	Automatic, sunny day, cloudy day, tungsten lamp and fluorescent lamp
<b>Exposure Control</b>	Exposure value(+3, +2, +1, 0, -1, -2 and -3)

<b>Flashlight Mode</b>	Automatic, compulsory flash, anti-red eye flash, and shut down the flash
<b>Photo Sensibility</b>	Automatic, 100, 200 and 400
<b>Connection to Computer</b>	USB 2.0
<b>TFT Display</b>	3.0' TFT color LCD display
<b>Power Supply</b>	3.7V lithium battery
<b>OSD Language</b>	English, Simplified Chinese, Traditional Chinese, French, German, Spanish, Italian, Portuguese, Dutch
<b>Focal Length</b>	f=7.6mm
<b>Aperture</b>	F=3.2
<b>Auto Shutdown</b>	1-3-5-10Min

**Note: Parameters may change without prior notice. Final interpretation right owned by our company.**

# IV. Introduction of Use

## 1. Installation of Lithium Battery

- a) Slide the battery cover open according to the arrow tips.
- b) Properly put the battery in the battery compartment.
- c) Close the battery cover.

## 2. Installation of SD Card

- a) Insert and withdraw the SD card(only one photo can be taken, or no video can be taken without the SD card)
- b) Insert the SD card into the SD card slot, with the back facing the display.
- c) Press the SD card to withdraw it.

### Precautions:

- **The 5V card on market is unavailable for this camera.**
- **The “crack” sound during the insertion or withdrawal process means the SD card is well inserted or removed.**
- **The camera may not be able to identify non-standard card or card formatted on another device(e.g. computer). Format the card on this camera before use.**

### **3. Power on/off**

- a) Gently touch the Power key to start the camera.
- b) Without any action within the preset time period, the camera will automatically power off to save power.
- c) When it's powered on, gently touch the Power key to power off the camera.

### **4. Indicator Light**

- a) When it's powered on, the green indicator light is turned on. When it's powered off, the green indicator light on the display is turned on.
- b) At the power off status, when connecting to the computer to charge via the USB wire, the red indicator light is turned on. The red indicator light is turned off or flickers when it's fully charged.

### **5. Mode**

At power on state, use the Mode/Confirm key to switch over the three modes of photo, video and replay.

### **6. Operation Tips**

- **Function of the Key:**

- 1) Power: power on/off the camera
- 2) Shot: photo/video/play AVI
- 3) Zoom out(W): shorten focal length/zoom out/return to the Sudoku
- 4) Zoom in(T): enlarge focal length/zoom in the picture
- 5) Menu: open/close the menu
- 6) Up(shortcut for selection of flashlight mode): move up/selection of flashlight mode
- 7) Down(shortcut for deletion): move down/shortcut for deletion
- 8) Left(shortcut for replay): move left/shortcut for entering and withdrawing the replay of photo/video
- 9) Right(shortcut for switch over shooting modes): right/shortcut for selection of single shot or self shot
- 10) Display on/off: power on/off the display
- 11) Mode/Confirm(OK key): switch over modes/confirm the function operation/confirm to enter the sub-menu

## **7. Menu**

- At the Photo mode, press the Menu key to enter the menu. Switch over the 17 options by the Left/Right key to choose from the Video Size, Shooting Mode, Mode Setting, Facial Refining,

Face Detection, Smile Shooting, White Balance, Exposure, Light Sensitivity, Picture Quality, Acutance, Video Effect, Saturation, Anti-vibration, Light Detection, Date Marking and Setting. Press the OK key to enter the setting of submenu. Opt among the submenu with the Up/Down key. Press the OK key to confirm the submenu to be set, and return to the preview interface. When entering a menu, the title column will show the name of the menu.

- At the Video mode, press the Menu key to enter the menu. Switch over the 8 options by the Left/Right key to choose from the Video Size, Mode Setting, Facial Refining, White Balance, Exposure, Light Sensitivity, Anti-vibration and Setting. Press the OK key to enter the setting of submenu. Opt among the submenu with the Up/Down key. Press the OK key to confirm the submenu to be set, and return to the preview interface. When entering a menu, the title column will show the name of the menu.
- At the Replay mode, press the Menu key to enter the menu. If the current file is a photo, switch over the 6 options by the Left/Right key to choose from the Deletion, Protection, Rotation, Cropping, Slide Playing and Printing. Press the OK key to enter the setting of submenu. Opt among the submenu with the Up/Down key. Press the OK key to confirm the submenu to be set, and return to the preview interface. If the current file is a video, switch over the 2 options by the Left/Right key to choose from the Deletion and Protection. Press the OK key to enter the setting of submenu. Opt among the submenu with the Up/Down key. Press the OK key to confirm the submenu to be set, and return to the preview interface. When entering a menu, the title column will show the name of the menu.(Unable to enter the menu in the Sudoku)

## **8. Shooting**

- Target the lens at the subject, press the Shoot key. When it cracks, a photo is thus taken(The camera is currently saving the photo. Moving the camera at this moment may blur the photo. Wait until it reenters the preview interface to move). At the Video mode, press the Shoot key to start/stop recording. In video recording, the sound will also be recorded, sound source within 1m scope preferred.

# **V. Detailed Instructions of Use**

## **A Menu of the Photo Mode**

### **1. Image Size**

Enter the Image Size to set the photo size. The larger the photo size, the greater capacity needed for storage. The following sizes are available for photos taken by this camera:

- 1) 24M: 5600\*4200
- 2) 20M: 5200\*3900
- 3) 12M: 4000\*3000
- 4) 8M: 3264\*2448

- 5) 5M: 2592\*1944
- 6) 3M: 2048\*1536
- 7) FHD: 1920\*1080
- 8) Cancel

## **2. Video Mode – Single Shot, Self Shot and Burst Shot**

Enter the “Shoot Mode” menu to set with such options of “Single Shot, 2s, 10s, Burst Shot, and Cancel”, with the 2s and 10s used for self shooting. When it’s set as self shooting, press the Shoot key to start the timer, sound and indicator light. Burst Shot is used for continuous shooting. When it’s set as burst shot, press the Shoot key to take three successive photos;

## **3. Mode Setting – Scene Selection**

- 1) Auto: automatic shooting
- 2) Movement: to clearly photograph objects in movement in bright scenes
- 3) Night View: to photograph objects at low-light scenes
- 4) Figure: to photograph the figure with soft background
- 5) Landscape: to photograph landscapes
- 6) Backlight: to photograph figures at low-light scenes, flashlights preferred
- 7) Party: to photograph at scenes with candle light
- 8) Beach: to photograph waterfront scenes with bright blue background
- 9) High light sensitivity: to photograph at low-light scene
- 10) Cancel

#### **4. Facial Refining**

Set to open/close the Facial Refining function.

#### **5. Face Detection**

Enter the “Face Preferred” menu, select the “Open/Close” to open or close this function. With this function on, when targeting at personal faces, a green frame will show up in the display for focusing. During the shooting, the camera will adjust the photo and background brightness with reference to the facial light, to highlight the personal faces.

#### **6. Smile Shooting**

Enter the “Smile Shooting” menu, choose the “Open/Close” to open or close the facial detection function. With this function on, when the camera is targeted at the smile, a green frame for smile detection will show up in the display and take photos automatically.

#### **7. White Balance**

Enter the “White Balance” menu to set with the options of “Auto, Sunlight, Cloudy Day, Lamp(Tungsten Lamp) and Fluorescent Lamp”. At different light source, different colors will show according to the color temperature.

#### **8. Exposure**

Enter the “Exposure” menu to set the exposure value between -3 and +3. The bigger value, the brighter screen, and the brighter photo, and vice versa. Manual set the value based on the ambient brightness to gain an optimal shooting effect.

## **9. Light Sensitivity**

Enter the “Light Sensitivity” menu to set with the options of “Auto, 100, 200 and 400”. For shooting in relatively dark scene, the higher the light sensitivity, the brighter the photos taken(side effect: more unnecessary objects involved)

## **10. Image Quality(Photo Quality)**

Enter the “Image Quality” menu to set with options of “Super, High and Common”. The higher of the photo quality, the larger the size.

## **11. Acutance**

Enter the “Acutance” menu to set with options of “Soft, Common, Sharp and Cancel”. The higher the acutance, the clearer the object profile.

## **12. Video Effect**

Enter the “Video Effect” menu to set with options of “Common, Black and White, Old Photo, Red, Green, Blue, Sunset, Warm, Cold, Overexposure, Red Line, Dual Value, Highly Saturated, Lowly Saturated, Dog Eye, A-bao Color, Gothic Japanese Style, LOMO, and Negative”. Upon the setting, the display will show preview of relevant effect, which will be used for the photo.

## **13. Saturation**

Enter the “Saturation” menu to set with options of “High, Common and Low”. Upon the setting, the photo taken will show according saturation effect.

## **14. Anti-vibration**

Enter the “Anti-vibration” menu to set with options to open or close this function.

## **15. Photometry**

Enter the “Test” menu to set with options of “Center, Multi-point and Single-point” to select photometry way based on the existing ambient.

## **16. Date Marking**

Enter the “Date Marking” menu to set with options of “Close, Date, and Date&Time”. When it’s set with Date or Date&Time, according date or time will show on the photos taken.

**Upon setting with the above mentioned options, relevant icons may show on the preview image.**

## **17. Setting**

- 1) Language. Enter this menu to set with linguistic options as you need, including English, Traditional Chinese, Simplified Chinese, German, French, Spanish, Italian, Portuguese and Dutch;
- 2) Date&Time. Enter this menu to set with the second, minute, hour, day, month and year as you need;
- 3) Automatic closing. Enter this menu to set the time to automatically power off the camera, with options of “Power off, 1min, 3min, 5min and 10min”. By this function, the camera will automatically power off within the preset time of automatic closing without any action;

- 4) Action Sound. Enter this menu to set with options to open or close the sound brought by pressing the key;
- 5) Light Frequency. Enter this menu to set with options of “50HZ or 60HZ” of light source frequency. Set according to the power supply frequency of the local country or region to reduce interference of the power supply frequency;
- 6) Formatting. Enter this menu to format the SD card of the camera. Be prudent in using this function. Backup your materials and photo files before formatting. All files will be removed by formatting;
- 7) Default Setting. Enter this menu to restore the camera to the ex-factory setting.
- 8) Cancel

## **B Menu of Video Mode**

The menu of Video Mode includes 8 options of Video Size, Mode Setting, Facial Refining, White Balance, Exposure, Light Sensitivity, Anti-vibration and Setting. While Mode Setting, Facial Refining, White Balance, Exposure, Light Sensitivity, Anti-vibration and Setting share the same setting and usages with the Photo Mode, please refer to the previous introduction;

### **1. Video Size**

Enter the “Video Size” to set the size of the video photographed. The larger the video size, the greater

capacity needed for storage. The following sizes are available for this camera:

- 1) FHD 1920\*1080
- 2) HD 1280\*720
- 3) VGA640\*480
- 4) Cancel

## **C Replay Mode**

Upon photography and video recording, it can change to the replay mode for preview. During the preview, you can delete, protect, crop, slide replay and print it. During replay of video files, press the Shoot key to play. Deletion and protection are available for replay of video files.

## **Introduction of Replay Menu**

### **1. Delete**

Press the OK key to enter the “Delete” menu. In deleting the photo, choose from “This Photo, All, and Cancel”. In deleting the video, choose from “This Video, All, and Cancel”. Locked files cannot be deleted. Tips that this file is protection will be popped up when deleting locked files.

## **2. Protect**

Enter the “Protect” menu to set with options of “Locking and Unlocking” of the photo/video files. Locked photos cannot be deleted, but can be formatted. A key icon will show at top of the locked file.

## **3. Cropping**

Enter the “Cropping” menu to set the cropping of the existing photo.

## **4. Slide Replay**

Enter the “Slide Replay” menu to set the intervals for slide replay of 3s, 5s and 10s. Upon the setting, the camera will play the photos like slides.

## **5. Print**

Enter the “Print” menu. Press the OK key to enter the Print menu and properly connect with the printer to print photos.

# **VI. Other Functions**

## **1. Flashlight**

Press the Flashlight button to pop up the flashlight to have an optimal effect. Press down it by hands to restore to the original position when not in use;

- 1) In rather dark scene, flashlight can be used to increase the exposure compensation. In preview state, press the Flashlight key to switch over automatic flashlight, forced flashlight, anti-red-eye flashlight and no flashlight.

- 2) Upon setting of auto flashlight, the camera will automatically decide whether to use the flashlight according to the ambient brightness.
- 3) Upon setting of forced flashlight, the flashlight is enabled no matter it's bright or dark in the environment.
- 4) Upon setting of anti-red-eye flashlight, it eases the red eye effect caused by the flashlight.
- 5) Upon setting of no flashlight, it flashes whether the environment is bright or not.

## **2. Digital Zooming**

Press the Zoom in/out key to zoom in or out, which draws objects afar nearer to the lens(4X to the maximum, the larger the multiplying times, the more ambiguous the image) by zooming in, and shrinks the objects by zooming out.

## **3. Photo/Video Download**

Directly use USB wire to download the photos and videos via the flash disk function.

# **VII. Maintenance and Safety**

Perform regular maintenance to your camera and accessories.

## **1. Camera**

- 1) Keeping the lens clean helps to take clear photos in the most possible focal distance. Wipe the

lens clean, as well as fingertips and dust on the LCD display, with dry, soft gauze.

- 2) Wipe the camera appearance with clean, dry cloth. Rough cloth or abramer used in laundry store shall not be used to prevent damage to the camera appearance.
- 3) Don't place the camera under the sunlight or warm environment, e.g. the toolkit or luggage bag, for a long time.
- 4) Wait for a few minutes for the camera to adapt to the current environmental temperature when removing the camera from the low temperature environment to warm environment.

## **2. Battery**

- 1) Use only batteries at good service state. No leaked, eroded or expanded batteries can be inserted to the camera.

## **3. Memory Card**

To avoid deleting the data in the card or damaging the card, don't expose the card to environment of high temperature, humidity or static electricity.

## **Safety Precautions**

Don't disassemble or repair the camera on your own to prevent the electric shock.

Keep the camera dry. Exposure to too humid environment may cause faults to the camera.

Immediately stop using the camera when there's moisture in the camera. Totally dry the camera in the air before reuse of the camera.

# VIII. Fault Overhaul

## 1 Failure

Unable to power on the camera or no reaction is started	
Possible Cause	Corrective Measure
The camera is powered off	Press the Power key to power on the camera
The battery is improperly installed	Properly reinstall the battery
The battery runs out of power	Charge the battery
Battery momentarily doesn't work due to coldness	Warm the battery with hands
Moisture condensate inside the camera*	Power on the camera when the camera is dried
Connection between the camera and computer	Camera doesn't work when connecting with the computer

**Humidity condensate: When it's cold outside, steam in the air will quickly cool and convert into water drops.**

### Unable to shoot when pressing down the shutter

Possible Cause	Corrective Measure
The camera is powered off	Press the Power key to power on the camera
Flashlight has not been charged up yet	Wait until the charge indicator light stops flickering to restore the shooting
The images photographed just now are reading in the card	Wait until the sound to indicate shooting completion
The memory card is fully loaded	Remove unnecessary image or insert a new card. Before removal, please download important images to the computer.
During photography or reading in, the battery runs out of power(battery icon flickering)	Charge up the battery.
Memory card shown as full	Replace with new card or remove the existing content
Card “write-protection” is locked	Insert new card or withdraw the “write-protection” to the unlocking position
The card is broken	Reformat it.

### Flashlight doesn't work

Possible Cause	Corrective Measure
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It's set to be no flashlight	Select other flashlight modes than “no flashlight”
The object is lit up	To make it work, set the flashlight as “forced flashlight” mode

LCD is unclear	
Possible Cause	Corrective Measure
The object is too near	Adjust the distance between the lens and object to be photographed.
LCD exposed directly under the sunlight	Shield the sunlight with hands

Images photographed not shown on the LCD	
Possible Cause	Corrective Measure
The camera is powered off	Press the Power key to power on the camera
Camera at shooting mode	Press the “Photo Preview” key to switch to replay mode
There's problem in the card	Replace with new card or reformat it

Connection between the camera and the TV	Unplug the video cable.(LCD doesn't work when connecting with the camera with video cable)
Screen turned off	Press the "DISP" key to turn on the screen

### Unable to delete, protect or format the card

Possible Cause	Corrective Measure
"Write-protection" of the card is locked.	Withdraw the "write-protection" of the card to the unlocking position

## 1. Poor Image Quality

### Too bright

Possible Cause	Corrective Measure
The flashlight is set as the "forced flashlight" mode	Select other flashlight modes than "forced flashlight"
The object is too bright	Change the white balance mode of the camera, or the direction of the camera to the object

The exposure value is set too high	Adjust the exposure value
<b>Too dark</b>	
<b>Possible Cause</b>	<b>Corrective Measure</b>
The flashlight is covered by hands	Properly hold the camera to keep the fingers away from the flashlight
The object is beyond the flashlight's working scope	Shoot within the working scope of the flashlight
The flashlight is set as "no flashlight" mode	Select other flashlight modes than "no flashlight"
The object is too small and against the light	Set the flashlight as the "forced flashlight" mode

<b>Unnatural color for photos taken indoors</b>	
<b>Possible Cause</b>	<b>Corrective Measure</b>
Image color impacted by the interior light	Set the white balance according to the light
No white on the object	Add white parts in the image or shoot with forced flashlight mode
White balance/scene setting is wrong	Adjust the white balance/scene setting according to the light source

