Video camera

Model: X50W

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Hazard, safety and warning notices

Incorrect use of the camera and accessories is dangerous for you and others and can damage, destroy the camera or cause serious accident .We therefore ask you to read and strictly observe the following hazards ,safety and warning notices.

Hazards for children and persons with limited ability to operate this camera

♦ Children and persons with limited ability are forbidden to touch this camera, accessory and packaging. These are not toys for children which would cause dangers of electrocutions, poisoning and suffocation. Please make sure camera, accessory and packaging stay away from children and persons with limited ability.

 \diamond Never let children or persons with limited abilities operate this camera or accessory. The camera and accessory can only be operated by persons physically and mentally able to operate it safely.

Power supply and electrical hazard

 \diamond Switch off the camera and remove the batteries if a foreign body or liquid has entered the camera. Otherwise have danger of fire or electrocution.

 \diamond Switch off the camera and remove the batteries once camera has been dropped down and housing broken. Otherwise have danger of fire or electrocution.

 \Diamond A plugged in power adaptor (no supplied) can continue to provide power and therefore represents a hazard source. Anything was forbidden to cover the power adaptor when using. Keep it airy at all times. Otherwise it may represent a fire hazard.

 $\diamond {\sf The}$ power supply can't be used during thunder or lightning. Otherwise have danger of electrocution.

LCD screen

♦ LCD screen is glass product, easily damaged, please protect it carefully.

 $\Diamond If$ LCD screen broken, never touch the outflow liquid. In case of contact with skin, rinse immediately with lots of clean water.

 $\diamondsuit\ensuremath{\mathsf{In}}$ case of contact with eyes , rinse immediately with lots of clean water and go see doctor immediately.

 \Diamond In case of swallowing the liquid, rinse the mouth with clean waters, drink lots of clear water and go see doctor immediately.

Safety use warnings

 \Diamond Do not fall, hit or puncture the camera, otherwise the camera can be damaged.

 \Diamond Do not use any corrosive cleaners to clean the camera, otherwise the camera can be damaged.

 \Diamond Avoid direct LED light, strong light can impair eyesight.

None of camera's components can be repaired by users themselves. Do not open the housing or repair by themselves. If any failures occur, please look for professional person to repair to contact the dealer.

Use and storage environment

 \diamond This camera is intended for taking digital photos and video clips. It is designed for private use and not suitable for commercial purposes.

This camera is suitable to work in the environment of temperature between $0^{\circ}C^{45}C$ (32°F ~113°F) and humidity under \leq 70%.Do not use or store in below environments :

A place of moisture or dust

A place of High temperature or sun exposure

A place of low temperature

A place with strong vibration

Proper disposal of waste

 $\Diamond \mathsf{Do}$ not fling camera, accessory and packaging casually.

 \diamond Electronic waste can't be disposed like domestic waste. Please comply to the local laws and environmental requirements, dispose different wastes separately.

♦ Waste batteries can't be disposed like domestic waste. Consumers are obliged to return waste batteries to communal collection points or battery retailers.

◇Please use the collection points of local community or contact battery retailers from whom you purchased. This prevents potentially harmful effects on the environment and health as a result of incorrect disposal. For further information, contact the respective government of local community.

Pre-use inspection

In order to ensure your benefit, please make test shot with SD card before use in important occasion. We will not be responsible for any accidents that caused by incorrect use.

About this manual

 \diamond This manual only serves as a general guide to the use of products. The picture is for reference only; specifications are subject to actual products.

♦ The content of this manual might be inconsistent with the camera due to product update or software upgrade; Please refer to the camera object, no further notice.

Trademark information and Copyright statement

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Other names and products can be trademarks or registered trademarks of the respective owners.

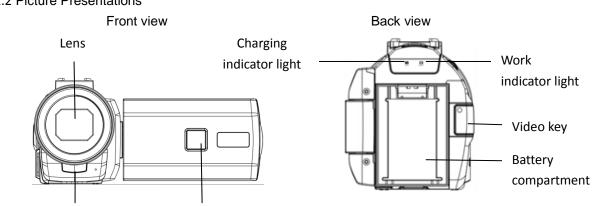
Welcome to choose this product, we will service you warmly! Please read this manual carefully before use. Please keep it properly for further check.

This is a HD video camera that support 4K HD resolution and WIFI wireless function. It has below main features:

◇4K HD imaging ◇Support H.264
◇14MP CMOS sensor ◇120fps High speed imaging
◇Time lapse ◇Slow motion recording
◇Micro spur ◇3.0 inch touch screen
◇WIFI wireless, operation by mobile phone ◇ IR remote control
◇ Dual ultra bright flashlights , cold & warm color options ◇ Support external microphone
◇Max support 64GB SD card ◇Support external 37MM extend lens

Computer system requirement

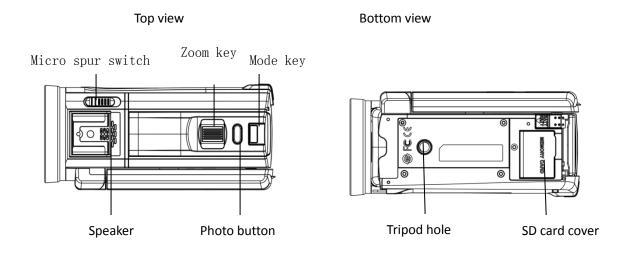
The camera can connect to computer to copy files, playback and used as U disk. If the camera is connected to computer, the following specifications are required at least: The Pentium2.0 GHZ or upper processor/Windows XP or upper system/2GB RAM/80G or more ROM/Standard USB port or upper port/1GB and more display card/1024x768 or higher screen definition. If the configuration of computer is quite low, camera may not work properly or get stuck when connecting to computer.



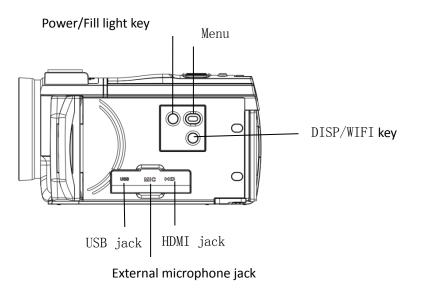
1.2 Picture Presentations

Remote receiver window

Fill light Window



Left view



1.3 Functions of keys

Key icon	Key name	Functions
\bigcirc	Power/Fill light key	Long press it for 2 seconds: Power on/off ;
POWER/LIGHT		After powering on, short press the key to turn on/off
		fill light. The switch sequence is as follows: Warm
		light/Code light/ Warm+ cold light/Off .
	Micro spur	"*"means micro spur mode(close-range shooting).
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		" "means normal mode(normal –range shooting).
MENU	Menu key	In each mode: shift to/back to previous menu/exit.
MODE	Mode key	Switch working modes: Photo mode/Video mode/Playback mode. After entering into each mode: switch menu. During recording video: Pause/ Restart recording.
DISP/WIFI	DISP/WIFI key	In each mode: short press the key to Show all icons/Hide all icons/Show standard icons on the screen. In Photo mode/Video mode: press it for 2seconds to switch on/of WIFI function.
	Photo key	In photo mode: press heavily to take photo. Video mode: During recording video, press heavily to capture photo. In Video playback mode: Press heavily to pause/ restart play video.
	Video key	In Video mode: press it to start/ Pause to record video In Video playback mod: press it to stop recording
	Zoom key	 In Photo mode/Video mode: Zoon in/out picture In Playback mode: press it to page-up/page down In Video mode /Playback mode: when playing a video, press it to fast forward/fast backward. In Menu: Choose menu upward/downward.

2 Start to use

2.1 Installation of the SD card

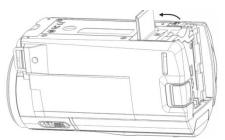
This camera must install a SD card to take photo or video, please install SD card according to below steps, please refer pictures.

1.Open the SD card cover;

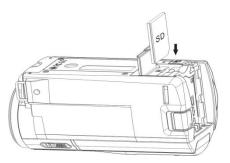
2.Insert the SD card according to the direction. Push the SD card until a "Click" is sounded which means SD card installation is finished.;

3. Close the SD card cover.

Open the SD card cover according to the direction of arrow



Insert the SD card according the direction of arrow



Notice:

Please use qualified SD card and the transfer speed should be CLASS 10(included) or above. Before use a new SD card, please format it by camera.

Do not take out the SD card when the camera is working, otherwise the SD card might be damaged or lose data.

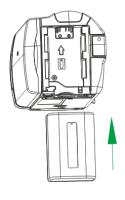
Some of the SD cad might cause camera halted or work abnormally, please try it out to ensure it is compatible with the camera.

2.2 Installation of battery

This camera uses a removable lithium battery, please install the battery correctly before use. Below is the steps, please refer to the pictures:

1.Please ensure install the battery with the direction of metal contactors upward;

2. Follow the arrow direction on battery compartment, push the battery from down to up until a "Click" is sounded which means SD card installation is finished.



- Install battery into the battery compartment according to this direction.
- 2. Push battery until a "Click" is sounded

Notice:

Please install battery correctly, incorrect installation may damage the camera or can't be powered on it and cause accidents.

Do not use substandard lithium battery and adaptor.

Adaptor specification: Input AC 100~240V/50~60HZ, output DC 5V/1.5A.

2.3 Charge the battery

2.3.1Install the battery, connect camera with adaptor via USB cable, connect the adaptor with electric supply. When charging the camera ,the indicator will light up, after fully charging, the indicator light will be off.

2.3.2 Connecting to computer, the camera also can be charged. Install the battery, connect camera with adaptor with USB cable. When charging the camera ,the indicator will light up, after fully charging, the indicator light will be off.

- 2.3.3 Camera adaptor specification: Input AC 100~240V/50~60HZ, Output DC 5V/1.5A. Please check the local adaptor specification before use.
- 2.3.4 Shoot during charging. In order to support long shoot, the camera supports to take photo or video during charging. When using this function, please connect the adaptor with electric supply. After connecting according to 2.3.1, power on the camera to shoot.

Notice:

Before use electric supply must ensure the specifications of local power supply meet requirements.

Please ensure that the charging process is ventilated and can't be covered with any object. After charging, remove the power supply as soon as possible.

When shooting during charging, it is forbidden to use the computer to power the camera, otherwise it may damage the computer.

2.4 Power on and power off the camera

1. Install the battery, long press power key to power on the camera;

2. In the state of boot, long pres the power key to power off the camera;

3. The camera supports the function of power on/off the camera via open/close the screen; unfold the screen the camera will power on automatically; fold the screen the camera will power off automatically;

4.The camera support the function of power on/off automatically. When the camera is not in use for long time, camera will power off automatically to save battery. When the battery is low, "Low battery" will shown on the screen and power off automatically later.

2.5 Switch working modes

2.5.1The camera support three working modes and one Setting modes.

Video mode: " will show on top left corner of the screen, at that time camera can record

video and set relevant parameter;

Photo mode: "**C**" will show on top left corner of the screen, at that time camera can take photo and set relevant parameter;

Playback mode: "**D**" will show on top left corner of the screen, at that time camera can playback photo or video and make related operation;

Setting mode: "* will show on top left corner of the screen, in this mode users can set the system parameter.

2.5.2 Switch working modes

Press [Mode] key can switch working modes: Photo mode/Video mode/Playback mode, related icon of each mode will show on top left corner of the screen.

lcon	Key name	Functions
•	Photo key	Photo mode: take photo
REC	Video key	Video mode: start / stop recording ; Video playback mode: stop play during playback.

2.6 Instructions of remote control

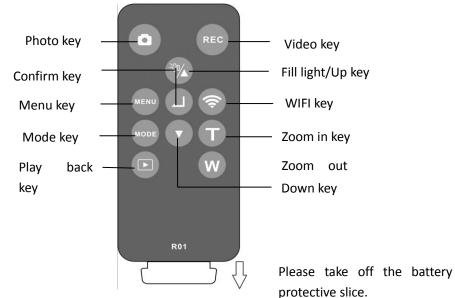
Camera also can be operating by remote control; key functions of remote control are as below:

AUE	Fill light/	Photo/Video mode: Turn on /Turn off /Switch fill light;						
	Up key	Menu mode: select upper menu item						
MENU	Menu key	Shift to the menu/Back to upward menu/Exit						
	Confirm	Confirm operation;						
	key	Playback mode: Play/Pause video						
((;	WIFI key	Photo/Video mode: Turn on/Turn off WIFI						
	Mode key	Switch working mode;						
MODE		Setting menu: Switch menu						
	Down key	Menu mode: Select downward menu item						
	Zoom In	Photo/Video mode: Zoom in frame;						
	key	Playback mode: Fast forward during play video						
	Playback	Enter into playback mode						
	key							
	Zoom Out	Photo/Video mode: Zoom out frame;						
W	key	Playback mode: Fast backward during play video						

Notice:

Before use remote control please take off the battery protective slice.

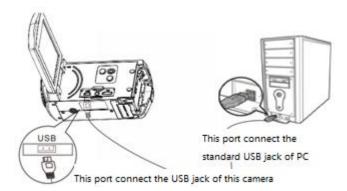
When use remote control, please aim at the remote receive window of camera, objects can not be shielded in the middle.



2.7 Connect to PC

The camera can be connected to PC to transfer files, view and edit photos and videos. After connection, power on and select "new disk driver", camera can use as U disk. Select "Webcam" then camera can use as webcam. Please see below picture: Notice:

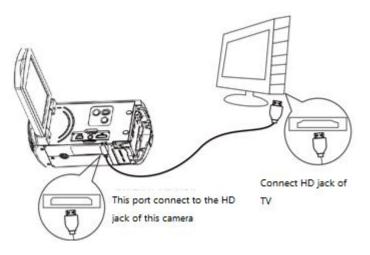
Because of PC system, when selecting "Webcam" item, users need to download Amcap to use webcam.



2.8 Connect to TV

Except PC camera also can connect to TV, the method is as follows:

- 1. Use HD cable to connect the HD jack of camera and HD jack of TV;
- 2. Switch TV HD jack to connected camera HD jack;
- 3. Power on and operate the camera all the contents will show on TV screen , just see as below picture:



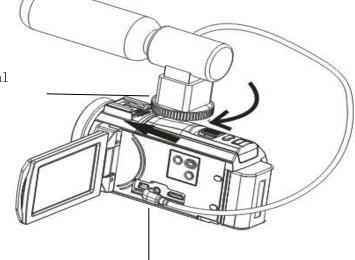
2.9 Use external microphone (optional accessory, not supplied)

This camera supports to use external microphone.

Use external microphone can reduce the surrounding noise, improve the voice quality of video and provide users better experience of tone quality, operation method is as follows:

- 1. In order to avoid damage, the camera, please read technical parameters, operation, instruction and notice of external microphone carefully before use;
- 2. Install the external microphone according to the picture's direction and lock the fixed nut, as shown in the picture;
- 3. Insert the external microphone 3.5mm connection plug into the MIC and turn on the microphone switch.

1.Fix external microphone



2.Insert 3.5mm connection plug

Notice:

The output impedance of external microphone is $0.2K\Omega \sim 2.2K\Omega$. Because each external microphone parameter is different, the specific effect is selected after actual adaptation.

2.10Use zoom function

The camera has a digital zoom function to zoom in and zoom out. In Photo/Video mode, Moving the zoom button to the right can bring the object closer (magnifying the object), and the zoom key to the left can pull away from the object (shrink the object).

2.11Use fill light

The camera built in super warm and cold fill light, which can fill the light in a darker environment to take beautiful pictures and video. The method of using the fill lights is as follows:

In Photo/Video mode: short press Power key, turn on and switch : warm light/cold light/warm & cold light/off.

2.12 Use micro spur

The micro spur allows you to make a clear picture of the close range of photos/video files. Photo/Video mode, the micro spur switch can be used to switch the micro range/normal mode.

When switching to micro spur mode, there is a micro spur icon " $\mathbf{\nabla}$ " on the left of the screen.

This mode is used for shooting near objects.

When switching to normal mode, there is a micro spur icon "A" "at the top left of the screen. This mode is used to shoot normal shadows.

3Use the camera

This chapter helps you understand how to use the various advanced features of the camera.

3.1 Video Mode

After the camera is turned on, it will enter the video mode automatically. After entering the video mode, the screen will display some ICONS which have the following implication:

1	Video	mode	2	Frame	rate	3	Video	resolution	4	Surplus	video	time
indi	cator icon		indic	cator icon		in	dicator	icon	inc	licator icor	۱	

5	Far/Close focus 6 Zoom out/i		out/in	7 Battery capacity	8 SD card indicator icon		
switc	h indicator i	icon	indica	tor icon		indicator icon	
<u></u>	2	3	4 1 5	3	0fps <u>108</u> w	₩ 00:28:25 	1
			7 - 🕻			52 – 8	

3.1.1 Video Recording

Users can make a very beautiful video file by setting the menu. The operation is as follows:

1.Insert SD card correctly, install battery, long press [Power] key to power on;

2. The camera automatically enters the video mode after turning up, users can also switch from other modes to video mode by pressing 【Mode】 key;

3. In the Video mode, press the 【Video】 key to start the video, press【Mode】 key to pause the video, press 【Mode】 key to continue the video, press the 【Video】 key again to stop the video; 4. In the Video mode, press 【Photo】 key to capture photo;

5. If the memory card is full, the screen will show "memory is full" and automatically end the video. Users need to change a new memory card, or delete the file in this memory card to continue recording.

The user can set the parameters in the video mode so that you can get more beautiful pictures. The operation is as follows. If you're not familiar with the camera, you can also use the camera's default settings.

3.1.2 Movie Size

This function can set the size of the movie, and the larger the size, the smaller the movie file will be.

1. In Video mode, press 【Menu】 to shift to the the menu, press the 【Zoom】 key to the right and select "Movie Size";

2. Press [Photo] key to enter the Movie size sub-menu;

3. Turn left/right the 【zoom】 key to select desired movie size: 4K /2.7k/1080P(60fps) / 1080P(30fps) /720P(120fps) /720P(60fps);

4. Press [Photo] key to save and return, press [Menu] key to return to video mode.

This function supports touch screen operation:

- 1. In Video mode, press [Menu] to shift to the menu;
- 2. Click "Movie Size", enter into sub-menu, click [A] key and [] key on the screen to select;
- 3. Select desired movie size, click [Menu] key on the bottom of screen to back to video mode.

A \$ A	~	ß	۵	•	~	
Movie Size	1080P		4K	AK		
Video Quanlity			45	4K		
Exposure	 12		2.7K	2.7K		
	.1.		1080P	1080	P(60fps)	
White Balance	ÂUTÔ		1080P	1080	P(30fps)	
Effect				10001	(00100)	
ок Enter	MENU Back	0	ж Er	nter	MENU Back	

Notice:

If the transfer speed of SD card is too slow, please don not select higher resolution (4K/2.7K/1080P(60fps)/720P(120fps)).

If video resolution is between 4K to 2.7K, camera can not capture photo during record video.

3.1.3 Video Quality

This function can set the quality of video, the better the quality, the bigger the video file.

- 1. In Video mode, press 【Menu】 key to shift to the menu, press 【Zoom】 key to the right to select "Video Quality";
- 2. Press [Photo] key to enter into the sub-menu of "Video Quality";
- 3. Press 【Zoom】 key to left/right to select desired Video quality: Super Fine/Fine/Normal;
- 4. Press [Photo] key to save and back , press [Menu] key to back to video mode.

This function supports touch screen operation:

- 1. In Video mode, press 【Menu】 key to shift to the menu;
- Click "Video Quality" to enter into sub-menu, click and select desired video quality item, click [Menu] key to back to video mode;

A \$ A	~	A 4 4
Movie Size	1080P	Super Fine
Video Quanlity	EV	Experiment Fine
Exposure White Balance		Normal
Effect		
ок Enter	MENU Back	ок Enter MENU Back

3.1.4 Exposure

This function can adjust the brightness of video recorded according to the ambient brightness. The larger the EV is, the brighter the video is recorded. The smaller the EV is, the darker the video file is recorded. When ambient brightness is low, the adjustment of this function is invalid. 1. In video mode, press [Menu]key to shift to the menu, press [Zoom]key to the right to select "Exposure";

2. Press [Photo] key to enter into the sub-menu of "Exposure";

3. Press 【Zoom】 key to left/right to select desired value of Exposure: -2.0EV/ -1.7EV/ -1.3EV/ -1.0EV/ -0.7EV/ -0.3EV/ 0EV/ +0.3EV/ +0.7EV/ +1.0EV/ +1.3EV/ +1.7EV/ +2.0EV;

4. Press 【Photo】 key to save and back ,press 【Menu】 key to back to video mode.

This function supports touch screen operation:

1.In Video mode, press 【Menu】 to shift to the menu;

2.Click "Exposure", enter into sub-menu, click A key and A key on the screen to select; 3.Select desired value of Exposure, click A key on the bottom of screen to back to video mode.

A \$ \$	\checkmark	E	• •	~
Movie Size	1080P			
Video Quanlity			-0.7 	
Exposure	52		I -0.3	
White Balance	ĂUTO		6 0.0	
Effect			F +0.3	
ок Enter	MENU Back		ок Enter	MENU Back

Notice:

When ambient brightness is low, the adjustment of this function is invalid.

3.1.5 White Balance

This function can adjust the color deviation of the recorded video image according to the different light source environment. Suggest use automatic mode.

1. In Video mode, press [Menu]key to shift to the menu, press [Zoom]key to the right to select "White Balance";

2. Press [Photo] key to enter into the sub-menu of "White Balance";

3. Press 【 Zoom 】 key to left/right to select desired effect of White Balance : Auto/Daylight/Cloudy/Tungsten/Fluor H/Flour L;

4. Press [Photo] key to save and back , press [Menu] key to back to video mode.

This function supports touch screen operation:

1.In Video mode, press [Menu] to shift to the menu;

2.Click "White Balance", enter into sub-menu, click [A law and [] key on the screen to select;

3.Select desired effect of White Balance, click 【Menu】 key on the bottom of screen to back to video mode.

<u> </u>	~		~	~
Movie Size	1080P	ممو		
Video Quanlity		Auto	-	
Exposure		ŝ	Daylight	
	u e e e e e e e e e e e e e e e e e e e		Cloudy	
White Balance	λυτό			
Effect		වැර	Tungsten	
ок Enter	MENU Back	ок	Enter	MENU Back

3.1.6 Effect

This function can set the special effect of recording video files.

1. In Video mode, press 【 Menu 】key to shift to the menu, press 【 Zoom 】key to the right to select "Effect";

2. Press [Photo] key to enter into the sub-menu of "Effect";

3. Press **[** Zoom **]** key to left/right to select desired effect : Normal/B&W/Sepia/Vivid/Natural/Negative/Warm/Cold/Red/Green/Blue;

4. Press 【Photo】 key to save and back ,press 【Menu】 key to back to video mode.

This function supports touch screen operation:

1.In Video mode, press 【Menu】 to shift to the menu;

2.Click "Effect", enter into sub-menu, click key and key and key on the screen to select;
3.Select desired effect, click Menu key on the bottom of screen to back to video mode.

A \$ \$	~
Movie Size	1080P
Video Quanlity	
Exposure	82
White Balance	AUTO
Effect	
ок Enter	MENU Back

	^	\checkmark	
\square	Normal		
	B&W		
	Sepia		
	Vivid		
ок 🔳	nter	MENU Back	

3.1.7DIS

This function can turn on or turn off DIS, when recording video turn on DIS can reduce the video ambiguity caused by jitter.

1. In Video mode, press [Menu]key to shift to the menu, press [Zoom]key to the right to select "DIS";

2. Press 【Photo】 key to enter into the sub-menu of "DIS";

3. Press 【Zoom】 key to left/right to select: ON/OFF;

4. Press [Photo] key to save and back ,press [Menu] key to back to video mode.

This function supports touch screen operation:

1.In Video mode, press 【Menu】 to shift to the menu;

2.Click "DIS", enter into sub-menu, click the item of "ON" or "OFF", click [Menu] key on the bottom of screen to back to video mode.

	~	Æ	٢	^	~
DIS	OFF		022	0."	
WDR	OFF		OFF	Off	
Time Lapse	OFF		ON	On	
LapseDuration	OFF				
Slow Motion	OFF				
ок Enter	MENU Back		ок Е	nter	MENU Back

3.1.8 WDR

WDR refers to a new technique which allows images to be clearer in a very strong light and dark contrast. The camera is a HD 4K video camera with the new technology, which can be used to shoot clear images in bright and dark places.

1. In Video mode, press [Menu]key to shift to the menu, press [Zoom]key to the right to select "WDR";

- 2. Press [Photo] key to enter into the sub-menu of "WDR";
- 3. Press 【Zoom】 key to left/right to select: ON/OFF;
- 4. Press [Photo] key to save and back , press [Menu] key to back to video mode.

This function supports touch screen operation:

1.In Video mode, press [Menu] to shift to the menu;

2.Click "WDR", enter into sub-menu, click the item of "ON" or "OFF", click [Menu] key on the bottom of screen to back to video mode.

📇 🌣 🔺	~	 /# 🌣 -/	•	\checkmark
DIS	OFF	OFF	0"	
WDR	OFF	OFF	Off	
Time Lapse	OFF	ON	On	
LapseDuration	OFF			
Slow Motion	OFF			
ок Enter	MENU Back	ок En	ter	меми Ва

3.1.9 Time Lapse

Time-lapse video call shrink the video, it is a kind of can compress time filming technique, it can take a few minutes, a few hours of video compression process in a short time and save for video files. This feature is mainly used to take pictures of slow things, such as the opening of flowers. This function can set the delay time for the Time Lapse.

1. In Video mode, press [Menu]key to shift to the menu, press [Zoom]key to the right to select "Time Lapse";

2. Press [Photo] key to enter into the sub-menu of "Time Lapse";

3.Press **[** Zoom **]** key to left/right to select desired delay time item : Off/0.5s/1s/3s/5s/10s/30s/1min;

4. Press [Photo] key to save and back , press [Menu] key to back to video mode.

This function supports touch screen operation:

1.In Video mode, press 【Menu】 to shift to the menu;

2.Click "Time Lapse", enter into sub-menu, click 【▲ 】key and 【 ➤ 】key on the screen to select; 3.Select desired delay time item , click 【 Menu 】 key on the bottom of screen to back to video mode.

<u>, a</u> * ~	~	.	* ^		~
DIS	OFF			o."	
WDR	OFF		OFF	Off	
Time Lapse	OFF		0.5sec	0.5sec	
			1800	1sec	
LapseDuration	OFF		3800	3sec	
Slow Motion	OFF			0000	
ок Enter	MENU Back		ок Ente	er	MENU Back

Notice:

When Movie size selected 4K and 2.7K, this function is invalid due to the size of video file is big and "Time Lapse" menu will become grey and can not select.

3.1.10 Lapse Duration

Lapse Duration is when the memory card is full, the camera automatically restarts the recording from the first file of the memory card and overrides the old video file. This function can set the length of each video file in the loop.

1. In Video mode, press [Menu]key to shift to the menu, press [Zoom]key to the right to select "Lapse Duration";

2. Press [Photo] key to enter into the sub-menu of "Lapse Duration";

3. Press Zoom key to left/right to select desired video length: unlimit//5min/10 min /15 mins/20 min/30 min/60 min;

4. Press 【Photo】 key to save and back ,press 【Menu】 key to back to video mode.

This function supports touch screen operation:

1.In Video mode, press 【Menu】 to shift to the menu;

2.Click "Lapse Duration", enter into sub-menu, click [A lapse Duration", enter into sub-menu, click select;

3.Select desired delay video length , click 【Menu】 key on the bottom of screen to back to video mode.

• • •	~	I I	Æ	<	`	\checkmark
IS	OFF			OFF	l Inlinsite d	
WDR	OFF			OFF	Unlimited	
Time Lapse	OFF			5min	5Min	
LapseDuration	OFF			10min	10Min	
Slow Motion	OFF			15min	15Min	
ок Enter	MENU Back		0	K Ent	er N	IENU B

Notice:

When Movie size selected 4K and 2.7K, this function is invalid due to the size of video file is big and "Lapse Duration" menu will become grey and can not select.

3.1.11 Slow Motion

Slow motion is the shooting of a scene with a high frame rate and then played at normal speed. This function can help you take pictures of fast-moving objects, such as rabbits that run quickly. This function sets whether to start slow motion photography when recording video.

A \$ A	~	A	٠	^	~	
DIS	OFF		~PP	0"		
WDR	OFF	-	OFF	Off		_
Time Lapse	OFF		ON	On		_
LapseDuration	OFF					_
Slow Motion	OFF					
ок Enter	MENU Back	0	к Ег	nter	MENU	ack

1. In Video mode, press [Menu]key to shift to the menu, press [Zoom]key to the right to select "Slow Motion";

2. Press [Photo] key to enter into the sub-menu of "Slow Motion";

3. Press 【Zoom】 key to left/right to select: ON/OFF;

4. Press 【Photo】 key to save and back ,press 【Menu】 key to back to video mode.

This function supports touch screen operation:

1.In Video mode, press 【Menu】 to shift to the menu;

2.Click "Slow Motion", enter into sub-menu, click [A law and [] key and [] key on the screen to select;

3. Select ON or OFF, click 【Menu】 key on the bottom of screen to back to video mode. Notice:

This function requires that the frame rate be set to be more than 60 FPS.

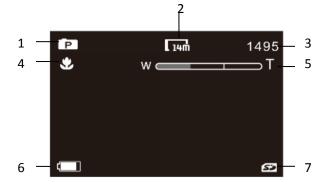
3.2Photo Mode

The camera has a powerful camera function. In the photo mode, users can make a very beautiful picture by setting the menu. The operation is as follows:

The camera automatically enters the video mode when the camera is turned on, and the user

needs to press [Mode] key to switch to the camera mode. After entering the photo mode, some ICONS will be displayed on the screen, which means the following:

1Photo	mode	2Photo	resolution	3 Number of photo to	4 Far/Close focus
indicator icon		indicator icon		take indicator icon	switch indicator icon
5 Zoom	out/in	6 Battery	capacity	7 SD card indicator	
indicator icon		indicator icon		icon	



3.2.1Take Photo

1. Insert SD card correctly, install battery, long press [Power] key to power on;

2.Press 【Mode】 key to switch to photo mode;

3. In the photo mode, aim the camera lens at the scene that needs to be taken, adjust the angle and position, grasp and keep the camera stable;

4.SlightlypresstheIPhotoIkey,the white focus frame on the screen will change to green focus frame, keeping press theIPh

oto] key down to the button, the photo will be taken until "click" is sounded.

5. If the memory card is full, the screen displays "SD card is full" and a new memory card is needed to be replaced, or the files in the card need to deleted to continue taking photos.

In the Photo mode, users can set the parameters of the photo menu and then take photos. The menu under the photo menu is operated as follows. If you're not familiar with the camera, you can also use the camera's default Settings.

3.2.2Resolution

This function can set the size of the photo (resolution), the higher the resolution, the larger the size of the photo, the better the quality of the photo, and the larger the storage space it occupies. 1. In Photo mode, press [Menu]key to shift to the menu, press [Zoom]key to the right to select "Resolution";

2. Press [Photo] key to enter into the sub-menu of "Resolution";

3.Press 【 Zoom 】 key to left/right to select desired Resolution : 5M(2592*1944) , 7M(3640*2048)16 : 9 , 10M(3648*2736) , 14M(4992*2808)16 : 9,20M(5120*3840) , 30M(6272*4704);

4. Press [Photo] key to save and back , press [Menu] key to back to video mode.

This function supports touch screen operation:

1.In Photo mode, press 【Menu】 to shift to the menu;

2.Click "Resolution", enter into sub-menu, click A lkey and A lkey on the screen to select;
3.Select desired resolution, click A lkey on the bottom of screen to back to photo mode.

	~	
Resolution		
Quality	888	6144x4608
ISO	150 AUTO	5120x3840
Exposure	EV	4992x2808(16:9)
White Balance	AUTO	4320x3240
ок Enter	MENU Back	OK Enter MENU Back

3.2.3 Quality

This function is to set the photo quality, the higher the quality, the clearer the photo, but more storage place is occupied.

1. In Photo mode, press [Menu] key shift to menu interface, turn the [Zoom] key to the right, select the "Quality";

2. Press [Photo] key enter into the sub-menu of "Quality";

3. Turn the 【Zoom】 key to the left/right, select the desired photo quality: Super Fine/Fine/Normal;

4. Press the 【Photo】 key to save, press the 【Menu】 key to back to photo mode.

This function supports touch screen operation:

1.In Photo mode, press 【 Menu 】 key shift to menu interface;

2. Click "Quality" enter into the sub-menu of "Quality", click the desired the photo quality , click [Menu] to back to photo mode.

	~	fo.	٥	~	\checkmark	
Resolution	. aom					
Quality	XX	-		Super Fir	ne	
ISO	ISD AUTO	-	***	Fine		
Exposure	EV	_	Ж	Normal		
White Balance	AUTO					
ок Enter	MENU Back	Oł	E	nter	MENU Ba	ck

3.2.4 ISO

This function is to adjust the light sensitivity, "Auto" is recommended to use.

1. In Photo mode, press 【Menu】 key shift to menu interface, turn the 【Zoom】 key to the right, select the "ISO";

2. Press [Photo] key enter into the sub-menu of "ISO";

3. Turn the 【Zoom】 key to the left/right, select the desired light sensitivity:

Auto/50/100/200/400/800/1600;

4. Press the 【Photo】 key to save, press the 【Menu】 key to back to photo mode.

This function supports touch screen operation:

1.In Photo mode, press [Menu] key shift to menu interface;

2.Click "ISO" enter into sub-menu of "ISO", click [>] / [] to page up or page down;
3.click the desired the ISO option, click [Menu] to back to photo mode.

	~	o 🌣	•	~
Resolution	Isom			
Quality	88	AUTO	Auto	
ISO		(ISO) 50	50	
Exposure		150	100	
White Balance	AUTO	150 200	200	
ок Enter	MENU Back	ОК	nter	MENU Back

3.2.5 Exposure

This function is to adjust the photo brightness, the bigger the EV, the brighter the photo; the smaller the EV, the darker the photo. When ambient brightness is too low, this function is invalid. 1. In Photo mode, press [Menu] key shift to menu interface, turn the [Zoom] key to the right, select the "Exposure";

2. Press [Photo] key enter into the sub-menu of "Exposure";

3. Turn the 【Zoom】key to the left/right, select the desired option: -2.0EV/ -1.7EV/ -1.3EV/ -1.0EV/ -0.7EV/ -0.3EV/ 0EV/ +0.3EV/ +0.7EV/ +1.0EV/ +1.3EV/ +1.7EV/ +2.0EV;

4. Press the 【Photo】 key to save, press the 【Menu】 key to back to photo mode.

This function supports touch screen operation :

1. In Photo mode, press 【Menu】 key shift to menu interface;

2. Click "Exposure" to enter into sub-menu of "Exposure", click [>]/[>] to page up or page down;

3.Click the desired EV option, click 【Menu】 to back to photo mode.

	~		~
Resolution	ISOM		
Quality	88	-0.7	
ISO	150 AUTO	-0.3	
Exposure	탒	1 0.0	
White Balance	AUTO	EV +0.3	
ок Enter	MENU Back	ок Enter	MENU Back

Notice:

When ambient brightness is too low, this function is invalid.

3.2.6 White Balance

This function is to adjust the color deviation of the photos according to the different light source environments, "Auto" is recommended to use.

1. In Photo mode, press 【Menu】 key shift to menu interface, turn the 【Zoom】 key to the right, select the "White Balance";

2. Press [Photo] key enter into the sub-menu of "White Balance";

3. Turn the 【Zoom】 key to the left/right, select the desired option:

Auto/Daylight/Cloudy/Tungsten/Fluor H/Fluor L;

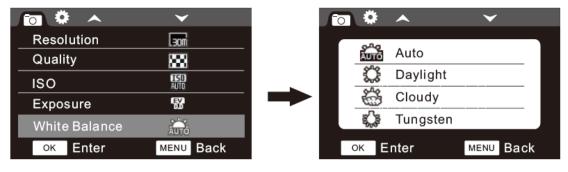
4. Press the 【Photo】 key to save, press the 【Menu】 key to back to photo mode.

This function supports touch screen operation:

1.In Photo mode, press [Menu] key to shift to menu interface;

2. Click "White Balance" to enter into sub-menu of "White Balance", press []/[]to page up or page down;

3.Click the desired option, click 【Menu】 to back to photo mode.



3.2.7 Effect

This function is to set special effects of photos, user can get special photos through this function. 1. In Photo mode, press 【Menu】 key shift to menu interface, turn the 【Zoom】 key to the right, select the "Effect";

2. Press [Photo] key enter into the sub-menu of "Effect";

3. Turn the 【Zoom】 key to the left/right, select the desired option: Normal/B&W/ Sepia/ Vivid/Natural/Negative/Warm/Cold/Red/Green/Blue;

4. Press the 【Photo】 key to save, press the 【Menu】 key to back to photo mode.

This function supports touch screen operation:

1.In Photo mode, press 【Menu】 key to shift to menu interface;

2. Click "Effect" to enter into sub-menu of "Effect", click []/[] to page up or page down;

3.Click the desired option, click 【Menu】 to back to photo mode.

	~	o 🌣	•	~
Effect				
Stabilizer	OFF		Normal	
WDR	OFF		B&W	
Face Tracking	OFF		Sepia	
Driver Mode	OFF		Vivid	
ок Enter	MENU Back	ок 🔳	nter	MENU Back

3.2.8 Stabilizer

This function is to determine whether to enable stabilizer, when using this function, it can reduce photo blurring caused by shake .

1. In Photo mode, press 【Menu】 key shift to menu interface, turn the 【Zoom】 key to the right, select the "Stabilizer";

2. Press [Photo] key enter into the sub-menu of "Stabilizer";

3. Turn the 【Zoom】 key to the left/right, select the desired option: OFF/ON;

4. Press the 【Photo】 key to save, press the 【Menu】 key to back to photo mode.

This function supports touch screen operation:

1.In Photo mode, press [Menu] key shift to menu interface;

2.Click "Stabilizer" enter into sub-menu of "Stabilizer", select whether to open this function, click [Menu] to back to photo mode.

A A	~
Effect	
Stabilizer	OFF
WDR	OFF
Face Track	ing OFF
Driver Mod	e OFF
ок Ente	r MENU Back

3.2.9 WDR

This function is to help shoot clear photos in a clear and dark contrast environment, it can turn on /off WDR.

1. In Photo mode, press 【Menu】 key shift to menu interface, turn the 【Zoom】 key to the right, select the "WDR";

2. Press [Photo] key enter into the sub-menu of "WDR";

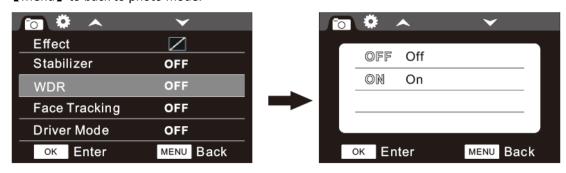
3. Turn the 【Zoom】 key to the left/right, select the desired option: OFF/ON;

4. Press the **[**Photo **]** key to save, press the **[**Menu **]** key to back to photo mode.

This function supports touch screen operation:

1.In Photo mode, press [Menu] key shift to menu interface;

2.Click "WDR" enter into sub-menu of "WDR", select whether to turn on this function, click [Menu] to back to photo mode.



3.2.10 Face Tracking

Turn on/off the face tracking function.

1. In Photo mode, press 【Menu】 key shift to menu interface, turn the 【Zoom】 key to the right, select the "Face Tracking";

2. Press [Photo] key enter into the sub-menu of "Face Tracking";

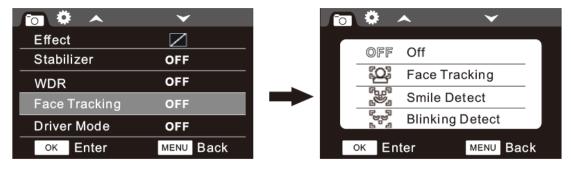
3. Turn the 【Zoom】 key to the left/right, select the desired option: OFF/ON;

4. Press the **[**Photo **]** key to save, press the **[**Menu **]** key to back to photo mode.

This function supports touch screen operation:

1.In Photo mode, press [Menu] key shift to menu interface;

2.Click "Face Tracking" enter into sub-menu of "Face Tracking", select whether to turn on this function, click 【Menu】 to back to photo mode.



3.2.11 Driver Mode

This function is to let the camera take photos automatically.

1. In Photo mode, press 【Menu】 key shift to menu interface, turn the 【Zoom】 key to the right, select the "Driver Mode";

2. Press [Photo] key enter into the sub-menu of "Driver Mode";

3. Turn the 【Zoom】 key to the left/right, select the desired option: OFF/2sec/10sec/Double;

4. Press the 【Photo】 key to save, press the 【Menu】 key to back to photo mode.

This function supports touch screen operation:

1.In Photo mode, press [Menu] key shift to menu interface;

2.Click "Driver Mode" enter into sub-menu of "Driver Mode", select whether to turn on this function, click 【Menu】 to back to photo mode.

	~	o 🌻 🗸	~	\checkmark
Effect				
Stabilizer	OFF	OFF	Off	
WDR	OFF	Q	2 sec	
Face Tracking	OFF	G.	10 sec	
Driver Mode	OFF	DOUBLE	Double	
	MENU Back	ок Ent	or	MENU Back
OK LING	MERC Dack			MERC Dack

3.2.12 Photo Burst

This is to set continuous burst.

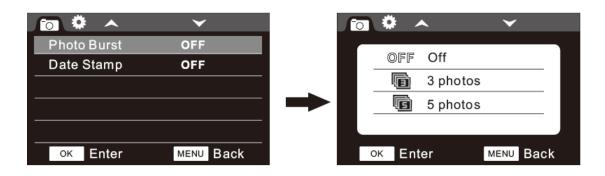
1. In Photo mode, press 【Menu】 key shift to menu interface, turn the 【Zoom】 key to the right, select the "Photo Burst";

- 2. Press [Photo] key enter into the sub-menu of "Photo Burst";
- 3. Turn the 【Zoom】 key to the left/right, select the desired option: OFF/3photos/5photos;
- 4. Press the 【Photo】 key to save, press the 【Menu】 key to back to photo mode.

This function supports touch screen operation:

1.In Photo mode, press [Menu] key shift to menu interface;

2.Click "Photo Burst" enter into sub-menu of "Photo Burst", select the desired option, click [Menu] to back to photo mode.



3.2.13 Date Stamp

This function is to set the date stamp on photos.

1. In Photo mode, press [Menu] key shift to menu interface, turn the [Zoom] key to the right,

select the "Date Stamp";

- 2. Press 【Photo】 key enter into the sub-menu of "Date Stamp";
- 3. Turn the 【Zoom】 key to the left/right, select the desired option: OFF/Date/Date &Time;
- 4. Press the 【Photo】 key to save, press the 【Menu】 key to back to photo mode.

This function supports touch screen operation:

1.In Photo mode, press [Menu] key shift to menu interface;

2.Click "Date Stamp" enter into sub-menu of "Date Stamp", select the desired option, click

【Menu】 to back to photo mode.

	\checkmark	
Photo Burst	OFF	
Date Stamp	OFF	
		<u> MM</u> D Date
		■ Date&Time
ок Enter	MENU Back	OK Enter MENU Back

3.3 Playback

All photos and videos taken by the camera can be viewed in the playback mode. Users also can protect/unprotect/delete desired files in different file categories, the operation method is as follows:

3.3.1 Playback Video

1. Press Mode key shift to "Playback" mode, turn the Zoom key to the right to select "VIDEO";

2. Press [Photo] key enter into the sub-menu of "VIDEO", Turn the [Zoom] key to the left/right, select the desired video;

3. Press the 【Photo】 key to play, press the 【Menu】 key to back to photo mode;

4. During the playback of video, Press the [Photo] key to pause; Press the [Photo] key again to resume; Press the [Video] key to exit.

This function supports touch screen operation:

1.In Playback mode, click [] [] to select "VIDEO", click [OK] on the bottom left corner; 2.Enter into video playlist, click [] [] to select the desired video, click [OK] to play, During the playground, click "] r to fast backward or fast forward; click "] r to pause; click " r to resume; click " r to exit.

	•	~			~	\checkmark	1/1
	VIDEO				<u>01</u>	01_053	439
	JPG		-		—		
				00:00:10			
C	Enter			2017.01.01	05:34	ок РІ	ay

3.3.2 Protect Video

This function is to protect the desired video from being mistakenly deleted.

1. In Playback mode, turn the 【Zoom】 key to the right, select "VIDEO";

2. Press [Photo] key enter into playlist, Turn the [Zoom] key to the left/right to select the desired video;

3., Press [Menu] key to shift to menu of Playback mode, turn the [Zoom] key to the left/right to select "Protect";

4. Press the 【Photo】 key to enter into sub-menu of "Protect";

5. Turn the 【Zoom】 key to the left/right, select desired option: Single /Protect All/Unprotect All, finish setting this function according to instructions.

Notice:

Single: protect/cancel protection of the current file Protect All: protect all files in the cameras Unprotect All: cancel protection on all files in the camera

This function supports touch screen operation:

1.In Playback mode, turn 【Zoom】 key to left/right to select "VIDEO";

2.Press [Photo] to shift to playlist, click [Menu] on the bottom left of screen;

3.Click "Protect" to enter into sub-menu, finish setting the function according to instructions.

Protect	
Delete	Single
	Protect All
	Unprotect All
OK Enter MENU Back	OK Enter MENU Back

Notice:

The protected videos can't be deleted before canceling the protection.

The protected videos can be formatted and can't be recovered back.

3.3.3 Delete Video

This function is to delete the unwanted videos recorded by the camera.

1. In Playback mode, turn the 【Zoom】 key to the right to select "VIDEO" ;

2. Press [Photo] key enter into playlist, Turn the [Zoom] key to the left/right to select the desired video;

3.Press [Menu] key to shift to menu of Playback mode, turn the [Zoom] key to the left/right to select "Delete";

4. Press the 【Photo】 key to enter into sub-menu of "Delete";

5. Turn the 【Zoom】 key to the left/right to select desired option: Single / All, finish setting this function according to instructions.

Notice: Single: to delete the current video

All: to delete all videos

This function supports touch screen operation:

1.In Playback mode, turn 【Zoom】 key to left/right to select "VIDEO";

2.Press 【Photo】 to shift to playlist, click 【Menu】 on the bottom left of screen;

3. Click "Delete" to enter into sub-menu, finish setting the function according to instructions.

• ● ● ●		
Protect		
Delete	Single	
	All	
ок Enter MENU Back	OK Enter MENU Back	K

Notice:

The videos with protection can't be deleted.

3.3.4 Playback Photo

1. Press 【Mode】 key to switch to "Playback" mode, turn the 【Zoom】 key to the right to select "JPG";

2. Press [Photo] key enter into the sub-menu of "JPG";

3. Turn the 【Zoom】 key to the left/right to forward or backward.

This function supports touch screen operation:

1.In the Playback mode, click [] / [] to select "JPG", click [OK] on the bottom left of screen;

2.Enter into "JPG" interface, click () to forward or backward.

	<u> </u>	
VIDEO		
JPG		
9		
ок Enter		



3.3.5 Protect Photo

This function is to protect or cancel the protection of pictures;

1. In Playback mode, turn the 【Zoom】 key to the right to select "JPG";

2. Press [Photo] key enter into playlist, Turn the [Zoom] key to the left/right to select the desired photo;

3.Press [Menu] key to shift to menu of Playback mode, turn the [Zoom] key to the left/right to select "Protect";

4. Press the [Photo] key to enter into sub-menu of "Protect";

5. Turn the 【Zoom】 key to the left/right, select desired option: Single / All, finish setting this function according to instructions.

Notice:

Single: protect/cancel protection of the current file Protect All: protect all files in the cameras Unprotect All: cancel protection on all files in the camera

This function supports touch screen operation:

1.In Playback mode, turn 【Zoom】 key to left/right to select "JPG";

2.Press [Photo] to shift to playlist, click [Menu] on the bottom right of screen;

3. Click "Delete" to enter into sub-menu, finish setting the function according to instructions.

• • •	• ● ● ●
Protect Delete	Single
	Protect All
	Unprotect All
OK Enter MENU Back	OK Enter MENU Back

Notice:

The protected photos can't be deleted before canceling the protection. The protected photos can be formatted and can't be recovered back.

3.3.6 Delete Photo

This function is to delete the unwanted photos taken by the camera.

1. In Playback mode, turn the 【Zoom】 key to the right to select "JPG";

2. Press [Photo] key enter into playlist, Turn the [Zoom] key to the left/right to select the desired photo;

3.Press [Menu] key to shift to menu of Playback mode, turn the [Zoom] key to the left/right to select "Delete";

4. Press the 【Photo】 key to enter into sub-menu of "Delete";

5. Turn the 【Zoom】 key to the left/right, select desired option: Single / All, finish setting this function according to instructions.

Notice:

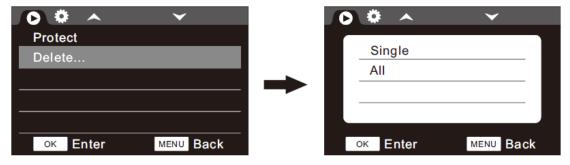
Single: to delete the current video All: to delete all videos

This function supports touch screen operation:

1.In Playback mode, turn the 【Zoom】 key to left/right to select "JPG";

2.Press the **[**Photo **]** to shift to playlist, click **[**Menu **]** on the bottom right of screen;

3. Click "Delete" to enter into sub-menu, finish setting the function according to instructions.



Notice:

The protected photo can't be deleted before canceling the protection.

3.4 Setting Mode

This function is to set the system parameters, in this mode, user can set system language, key sound, light frequency and so on, the operation method is as follows:

Enter into Setting mode:

1. In Photo/Video/Playback mode, press the 【Menu】 key to shift to menu;

2.Press the [Mode] key to switch among current mode and Setting mode. When switching to

Setting mode, "•• " will be shown on the screen, user can set parameters according to habits, the operation method is as follows:

- ()	~
Language	EN
Веер	ON
Light Frequency	<u>50н</u> г
Power Save	3min
TV Calibration	
ок Enter	MENU Back

3.4.1 Language

This function is to set system language according to user needs.

1.In Setting mode, turn the 【Zoom】 key to left/right to select "Language";

2.Press the 【Photo】 key to shift to the sub-menu of "Language";

3. turn the 【Zoom】key to left/right to select the desired language: English/简体中文/繁軆中文 /Francais / Espanol/ Italiano/ Portugues / Deutsch / Pyccknn;

4. Press the 【Photo】 key to save and back to Setting mode.

This function supports touch screen operation:

1.In Setting mode, click "Language";

2.Enter into sub-menu of "Language", click [] / [] to page up or page down;

3.Click the desired language, back to Setting mode.

\checkmark	, <u>e</u>		^	\checkmark
EN				
ON		EN		
50Hz		简中	简体中文	
		驚中	繁體中文	
3min		ED	Français	
		1-1/2	Français	
MENU Back		ок Еп	ter	меми Вас
	ОN <u>50н</u> д 3min	ON <u>50Hz</u> 3min	ON EN 50Hz 简响 3min FR	ON EN English 50Hz 简命 简体中文 3min 原限 繁體中文 原限 Français

3.4.2 Beep

This function is to set key sound.

1.In Setting mode, turn the 【Zoom】 key to left/right to select "Beep";

2.Press the 【Photo】 key to shift to the sub-menu of "Beep";

3. turn the 【Zoom】 key to left/right to select whether to use this function: OFF/ON;

4. Press the 【Photo】 key to save and back to Setting mode.

This function supports touch screen operation:

1.In Setting mode, click "Beep";

2.Enter into sub-menu of "Beep", select whether to use this function, then back to Setting mode.

¥ 🔅 ^	~
Language	EN
Веер	ON
Light Frequency	50нz
Power Save	3min
TP Calibration	
ок Enter	MENU Back

3.4.3 Light Frequency

This function is to synchronize the camera with the light source frequency to avoid flashing in the light environment.

1.In Setting mode, turn the 【Zoom】 key to left/right to select "Light Frequency";

2.Press the 【Photo】 key to shift to the sub-menu of "Light Frequency";

3.Turn the 【Zoom】 key to left/right to select the desired frequency: 50HZ/60HZ;

4. Press the 【Photo】 key to save and back to Setting mode.

This function supports touch screen operation:

1.In Setting mode, click "Light Frequency";

2.Enter into sub-menu of "Light Frequency", select the desired frequency, then back to Setting mode.

* * ^	~
Language	EN
Веер	ON
Light Frequency	50Hz
Power Save	3min
TP Calibration	
ок Enter	MENU Back

3.4.4 Power Save

This function is to turn off the screen without operation for a certain amount of time, but not shutdown, which aims to save power.

1.In Setting mode, turn the 【Zoom】 key to left/right to select "Power Save";

2.Press the **[**Photo **]** key to shift to the sub-menu of "Power Save";

3. turn the 【Zoom】 key to left/right to select the desired option:OFF/1min/3min/5min;

4. Press the **[**Photo **]** key to save and back to Setting mode.

This function supports touch screen operation:

1.In Setting mode, click " Power Save";

2.Enter into sub-menu of " Power Save", select the desired option, then back to Setting mode.

~	~
е	EN
	ON
requency	50нz
Save	3 min
libration	
Enter	MENU Back

3.4.5 TP Calibration

At first use or when the touch screen is not accurate, user can calibrate accuracy of touch screen. 1.In Setting mode, turn the 【Zoom】 key to left/right to select "TP Calibration";

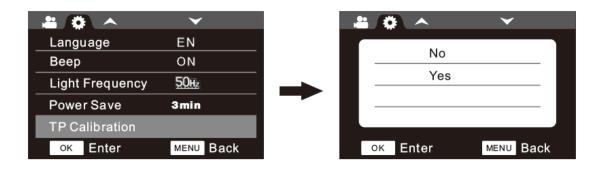
2.Press the 【Photo】 key to shift to the sub-menu of "TP Calibration";

3. turn the 【Zoom】 key to left/right to select the desired option: No/Yes, when selecting "No", it will disable this function; when selecting "Yes", Use a stylus or pencil to follow the correction order :1->2->3->4, back to Setting mode.

This function supports touch screen operation:

1.In Setting mode, click " TP Calibration";

2.Enter into sub-menu of "TP Calibration", select the desired option: No/Yes, when selecting "No", it will disable this function; when selecting "Yes", Use a stylus or pencil to follow the correction order :1->2->3->4, back to Setting mode.



3.4.6 Date Time

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

1.In Setting mode, turn the 【Zoom】 key to left/right to select "Date Time";

2.Press the **[**Photo **]** key to shift to the sub-menu of "Date Time";

3. turn the 【Zoom】 key to left/right to adjust the figures, press 【Mode】 to switch among YY/MM/DD/HOUR/MIN;

4. Press the 【Photo】 key to save and back to Setting mode.

This function supports touch screen operation:

1.In Setting mode, click " Date Time";

2.Enter into sub-menu of " Date Time", click [] / [] to adjust figures, click [] / [] to switch among YY/MM/DD/HOUR/MIN ,press [OK] to save and back to Setting mode.

Date Time	~
Format	2017/01/10 01:03
FactoryReset	←
FW Version	<pre> YY/MM/DD > </pre>
ок Enter MENU Back	ок Enter MENU Back

3.4.7 Format

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

1.In Setting mode, turn the 【Zoom】 key to left/right to select "Format";

2.Press the 【Photo】 key to shift to the sub-menu of "Format";

3. turn the 【Zoom】 key to left/right, select whether to format the SD card: No/Yes. When selecting "No", it will disable this function; when selecting "Yes", press the 【Photo】 key to process and back to Setting mode.

The function supports touch screen operation:

1.In Setting mode, click "Format";

2.Enter into the sub-menu of "Format", according to instructions click "No" or " Yes" and back to Setting mode.

* * *			\checkmark
Date Time			
Format		No	
FactoryReset		Yes	
FW Version			
ок Enter MENU Back	ОК	Enter	MENU Back

3.4.8 Factory Reset

If the camera can't work normally due to wrong settings, user can reset it to factory default setting.

1.In Setting mode, turn the 【Zoom】 key to left/right to select "Factory Reset";

2.Press the 【Photo】 key to shift to the sub-menu of "Factory Reset";

3. turn the 【Zoom】 key to left/right, select whether to reset the camera: No/Yes. When selecting "No", it will disable this function; when selecting "Yes", press the 【Photo】 key to process and back to Setting mode.

The function supports touch screen operation:

1.In Setting mode, click "Factory Reset";

2.Enter into the sub-menu of "Factory Reset", according to instructions click "No" or " Yes" and back to Setting mode.

	\checkmark			\checkmark
Date Time				
Format			No	
FactoryReset		\rightarrow	Yes	
FW Version		, r		
ок Enter	MENU Back		ок Enter	MENU Back

3.4.9 FW Version

This function is to check or update firmware of the camera.

1.In Setting mode, turn the 【Zoom】 key to left/right to select "FW Version";

2.Press the 【Photo】 key to shift to the sub-menu of "FW Version";

3. turn the 【Zoom】 key to left/right , select the desired option: Version Info./FW update;

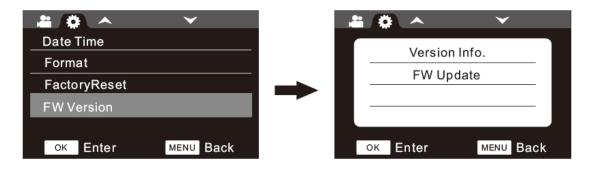
If selecting "Version Info.", it will show current firmware, press the **【**Photo **】**key to back to Setting mode.; If user want to update firmware, they should copy the firmware to SD card, insert the SD card into to camera, select "FW update", after being updated, the camera will turn off.

The function supports touch screen operation:

1.In Setting mode, click "FW Version";

2.Enter into the sub-menu of "FW Version", according to instructions click Version Info./FW update.

If selecting "Version Info.", it will show current firmware, press the **[**Photo **]**key to back to Setting mode.; If user want to update firmware, they should copy the firmware to SD card, insert the SD card into to camera, select "FW update", after being updated, the camera will turn off.



4. WIFI connection

The camcorder supports WIFI connection, it can be operated by mobile phone via WIFI.

4.1 APP installation on mobile phone

4.1.1 Android phones and iPhone, download 【ismart DV】 in Google play or scan below QR code.



4.1.2 iPhone or Tablet (IOS system), download 【ismart DV】 in Google play or scan below QR code.



4.2 Connect to mobile phone

1.Switch the camera to Photo mode or Video mode, long press 【DISP/WIFI】key, "Wi-Fi ON" will be shown on camera screen, then user will see the interface like the second picture;



2. Open the phone "Settings" feature, click WIFI Settings, the phone will search for the device named "dv-x50 -**** *", click and connect the device, enter the password "1234567890" in the prompt window, click to confirm that the connection is successful. When the phone is connected to the camera, it will display the phone name on the camera, as shown as below picture:

SSID: DV-X50_c633c5 Password:1234567890 Wi-Fi Device Disconnect meilan-note6

3.Open the "ismart DV"APP on the phone, after entering into APP, follow the operation of APP; 4.Long press 【DISP/WIFI】key for 2 seconds to close WIFI connection, 【Wi-Fi OFF】 will be shown on the camcorder screen.



The android system differs from the apple system because of the device system. The operating method may be a little different, but the installation method is consistent. The user can operate according to the software characteristics of different mobile phones.

5,	Appendix
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5.1 Specification		
Image sensor	CMOS 14.0MP CMOS sensor	
Memory medium	Built-in 16MBflash, SD /HCSD card up to 64GB	
ISO	Auto, ISO50, ISO100, ISO200, ISO400, ISO800, ISO1600	
Lens	Fixed lens F/2.4, f=7.35mm	
Focal distance	Close focus: 28~38cm,normal:1.2m \sim infinite	
Photo	Format :JPEG resolution:,5M,7M ,10M,14M,20M,30M (interpolation)	
Video	Format : MP4, H.264 resolution:	
	4K,2.7K,1080P/60FPS,1080P/30FPS,720P/120PFS,720P/60FPS	
Zoom	16X digital zoom	
DIS	Yes , EIS anti-shake	
Fill LED lights	range < 3m, warm and cold led	
White balance	Auto/Daylight/Cloudy/Tungsten/Fluor H/Fluor L	
EV	- 2.0EV~+2.0EV	
Driver mode	OFF/2sec/10sec/Double	
PC interface	USB2.0 (high speed)	
LED screen	3.0"TFT-LCD touch screen	

Mic	Built-in, external Mic input compatible
External Mic	Yes, 3.5mm, output impedance: $0.2K\Omega \sim 2.2K\Omega$
Speaker	Built-in
HD output	Yes
WIFI	Yes 🥠 connect to mobile phone
Remote control	yes, 6M
Battery	Li-ion NP-180
Adopter	Output DC 5V/1.5A
Language	English/简体中文/繁軆中文/Francais / Espanol/ Italiano/ Portugues /
	Deutsch / Pyccknn
Dimension	128(L)×55(W)×56(G)mm
Weight	Approx 285 \pm 5g(battery exclude)

5.2 Common problems and solutions

Problem	Potential cause	Solution
Can't be powered up	Incorrect battery installation/low power	Install the battery according to the manual/get the battery fully charged
Black screen of death	Under Power-saving mode/low power	Reboot the camcorder /get battery recharged
	Memory card isn't formatted before use	Format the memory card
Can't take pictures or videos	Memory card speed is too low	Use class10 or faster memory card
	Memory card with protection	Cancel the protection of memory card
Picture /video taken at close range is obscure	Doesn't switch to macro spur mode	Switch to macro-focusing mode
Picture/video is ambiguous	Lens is dirty foreign body on it	Clean the lens with a special soft cloth and keep it clean
	Micro key is on micro spur position	Set the macro switch to normal position
Prompt	Memory card with protection	Cancel the protection of memory card
password error	File format is wrong/memory card is damaged	Format the memory card /use qualified card
Suddenly shut down	The memory card is not qualified	Use qualified memory card
Picture/video color derangement	Settings of White Balance/Effect/ Exposure are wrong	Set correct parameter if user doesn't know how to set, just reset and back to factory default settings

The remote control doesn't work	The camera receive window is blocked Remote control don't with battery	Remove the cover Use sufficient power battery
	Too Long a distance	Use the remote in specified range
	No battery in External MIC /no power	Install the battery full of electricity
External MIC	Eternal MIC connect incorrectly	Connect correctly
works abnormally	External MIC parameter is wrong	Set correct parameters
Abnormal connection to PC	Wrong connection/USB cable is damaged	Reconnect/use a qualified USB cable
Videos doesn't play fluently Computer configuration is low		Use a qualified computer

FCC Statement

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.