S41B
AEE

User manual

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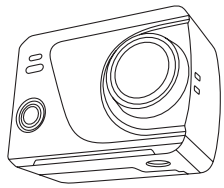
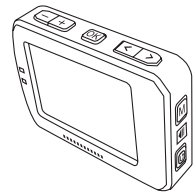
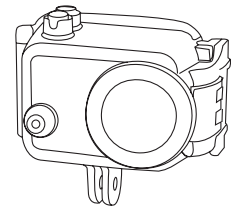
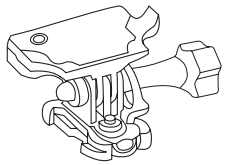
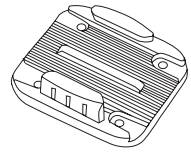
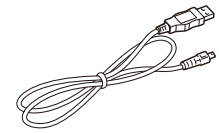
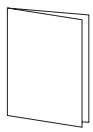
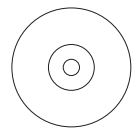
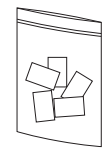
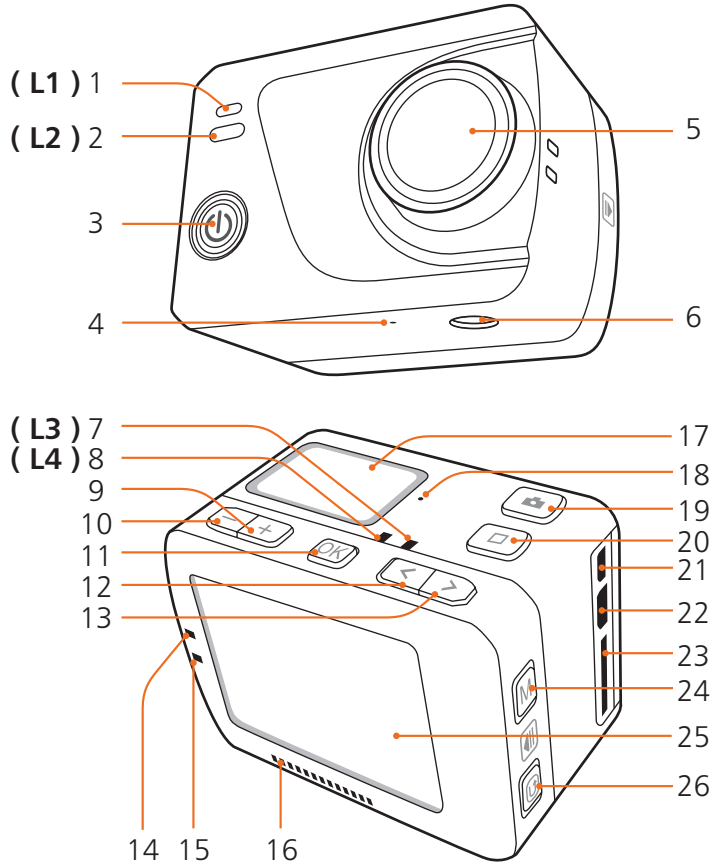
List of Accessories

Camera	TFT display	Water-proof housing
		
Plug bracket unit	**Flat Adhesive Mount**	**USB data cable**
		
Quick start guide	**CD-ROM**	**Moisture-proof foam**
		

The accessories you've received may be slightly different from above. The package is subject to change without further notice.

Component Guideline

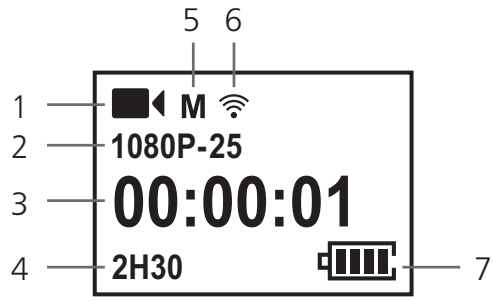


1. Charging status indicator
2. Recording status indicator
3. Video recording/Power key
4. Microphone
5. Lens
6. Tripod mount
7. Charging status indicator
8. Recording status indicator
9. Up key
10. Down key
11. OK key
12. Left arrow key
13. Right arrow key
14. Recording status indicator
15. Charging status indicator
16. Speaker
17. LCD segment display
18. Microphone
19. Shutter key
20. Stop key
21. Mini HDMI interface
22. USB interface
23. TF card slot
24. Menu key
25. TFT display
26. Playback key

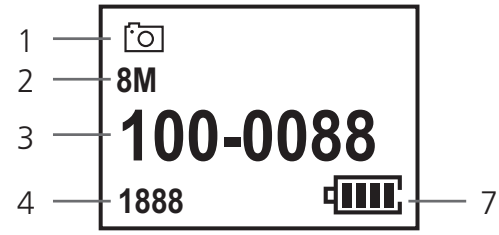
2. Description of Indicators

Position / Status	Green indicator	Red indicator	Blue indicator
	L1/L3	L2/L4	L2
Startup	/	Flash once and then Stay on	Flash once
Video recording	Flash slowly	/	/
Audio recording	Flash slowly	/	/
Photo shooting	Flash once	Stay on	/
Card full	Stay on	Stay on	/
Charging (switched off)	/	Flash slowly	/
Fully charged (switched off)	/	Stay on	/
Low-battery indicator	/	Flash fast for 5s and then auto power off	/
Data transmission	/	Stay on	flash slowly
Wi-Fi on	/	Stay on	flash slowly

3. LCD Segment Display



Video mode

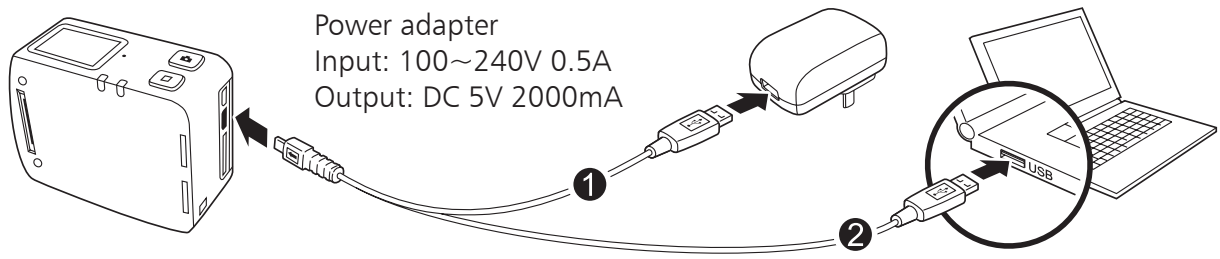


Capture mode

	Icon	Functions
1		Working mode (Video recording)
		Working mode (Photo shooting)
2	**1080P-25**	Video resolution
	8M	Photo resolution
3	**00:00:01**	Recording timer
	100-0088	Number of recorded files
4	**2H30**	Remaining recordable time
	1888	Remaining shots
5	**M**	View angle
6		Wi-Fi
7		Battery level

1. Charging

Start up the unit to check the battery power. If the battery level is low, charge it.
Use USB cable to charge video camera:



2. Insert and Remove The Memory Card

Though all TF cards above Class 10 can be used on video camera, high-speed card is recommended to perform high-definition shooting. When shooting during dynamic motion, brand SDHC cards are recommended for use in order to ensure smooth shooting.

* Insert the memory card

a. Ensure that video camera is switched off.

b. Insert TF card into the memory card slot in the arrow direction flatly to the end. A "click" can be heard to indicate the card has been well inserted.

* Remove the memory card

Press the center of exposed part of TF card and TF card will pop up slightly. Then pull it out flatly.

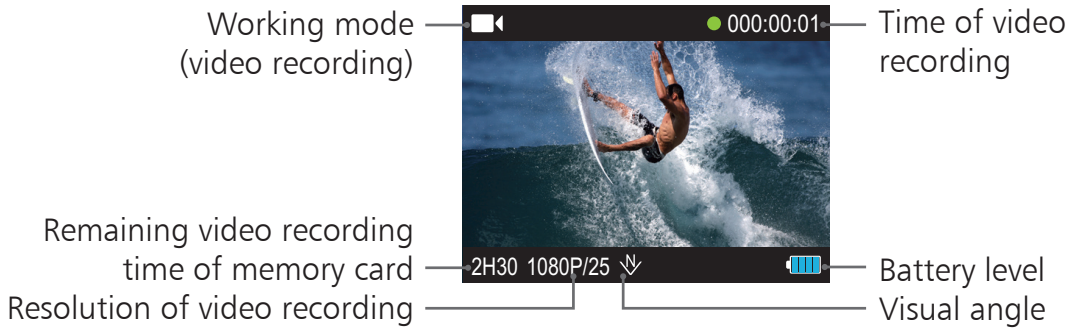
❗ Before connecting the host to Wi-Fi or the remote control, please first insert the TF card.

3. Startup

Long press "Video Recording" key for 5s to turn on/off the camera. Once the camera is turned on, the red indicator will be turned on and the top screen will display the video recording information.

1. Basic Operations of Video Recording

a. Turn on video camera to enter recording standby mode;
b. Aim the lens to the subject and preview it in TFT display;
c. Press "Video recording" key once to start video recording;
- The system will tick once to indicate the effective of video recording, TFT display is shown as below for video recording:



d. During video recording, press the "Stop" key once to stop video recording.
- the system generates a tick tone twice ,indicating that the video recording operation stops recording, and the time counter stops.
- The display will return to recording standby mode.

2. Basic Operations of audio record

a. Enter audio record mode and press "Video Recording" key to start audio recording.
- The system will tick once to indicate the effective of video recording:

b. During audio recording, press the "Stop" key once to stop audio recording.
- The system generates a tick tone twice, indicating that the video recording operation stops.
- The display will return to recording standby mode.

* Exit audio record mode:
a. Press "M" key to enter the camera setting menu;
b. Press "<" / ">" key to select " " and press "OK" key to confirm;
c. Press "<" / ">" key to select " " mode and press "OK" key to confirm, video camera will return to recording standby mode.

3. Parameter Setting For Video Recording

Perform the following steps to set the parameters for video recording:

a. Press "M" key to enter the setting menu;
b. Press "+" / "-" key to select " ";
c. Press "<" / ">" key to move cursor to the sub-menu you want to configure, Press "OK" key to enter the sub-menu;
d. Press "<" / ">" key to select the parameters you want;
e. Press "OK" key to confirm;
f. Press "M" key again to exit the setting menu.

- **Execution Mode**

- Video recording ( );
- Video-only Mode ( ): In this mode, you can record a video without voice;
- Voice recording ( );
- Time Lapse Mode ( ): Time Lapse function can record one picture as a frame of the video according to the time interval you set. It doesn't need the post editing, and can easily make the continous evolution and movement. The available options are 1s, 2s, 5s, 10s and 30s;
- Auto Video Mode ( ): If this function is enabled, the system will auto start recording videos according to the countdown time you set. The available options are 5s, 10s, 20s;

- **Video resolution**

The optional resolutions for video recording are listed as below:

Resolutions	PAL System	NTSC System
1080P(16:9) 1920 x 1080	25fps	25fps, 30fps, 50fps, 60fps
720P(16:9) 1280 x 720	50fps	50fps, 60fps, 100fps, 120fps
WVGA(16:9) 848 x 480	100fps	100fps, 120fps, 200fps, 240fps

- **View Angle**
  Optional view angle: Wide, Medium, Narrow, Small.

: Wide

: Medium

: Narrow

: Small

- **Bitrate**
  This unit provides two bit rate options: high " F " and normal " N ". (If high bit rate is selected, you will get clearer picture with increased file size).

- **Video Content Loop**
  You can activate or deactivate loop recording function. If ON, video file will be automatically stored in segment of 10 minutes; If OFF, video file will be stored in segment of 15 minutes.

- **180° Photo Rollover**
  When this function is activated, upright video file can be obtained when using video camera to shoot video upside down.

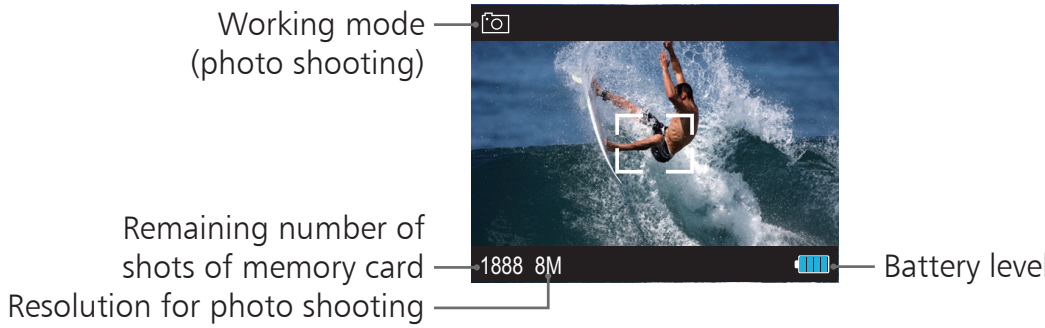
- **Display Time**
  You can choose to display or not display the video recording time at the bottom right corner of the photo.

- **Available functions under different resolutions (●) :**

Resolution / Function	1080P				720P				WVGA			
	25f	30f	50f	60f	50f	60f	100f	120f	100f	120f	200f	240f
Time Lapse	●	●	●	●	●	●	–	–	–	–	–	–
Auto Video	●	●	●	●	●	●	●	●	●	●	●	●
View Angle	●	●	●	●	●	●	–	–	–	–	–	–
Bitrate	●	●	●	●	●	●	●	●	●	●	●	●
Video Content Loop	●	●	●	●	●	●	●	●	●	●	●	●
180° Photo Rollover	●	●	●	●	–	–	–	–	–	–	–	–
Display Time	●	●	●	●	●	●	–	–	–	–	–	–

1. Basic Operations of Photo Shooting

a. Turn on video camera to enter recording standby mode;
b. Cast the lens to the subject and preview it on the display;
c. Press the "Shutter" key once to switch the working mode to "photo modes";
d. Press the "Shutter" key again to shoot one photo.
- The system generates will click to indicate completion and the system will return to photo shooting standby mode;
- TFT display under photo shooting mode is shown as below:



2. Parameter Settings for Photo Shooting

Perform the following steps to set the parameters for photo shooting:
a. Press "M" key to enter the setting menu;
b. Press "+" / "-" key to select " ";
c. Press "<" / ">" key to move blue cursor to the sub-menu you want to configure, Press "OK" key to enter the sub-menu;
d. Press "<" / ">" key to select the parameters you want;
e. Press "OK" key to confirm;
f. Press "M" key again to exit the setting menu.

- **Capture Mode**

- Single Shot Mode ( ): Take one photo when the photo shooting key is pressed;
- Fast Shot Mode ( ): video camera takes several photos within one second. three modes are available: 3 p/s, 6 p/s and 8 p/s (photo/second);
- Continuous Shooting Mode ( ): In this mode, you can shoot photos continuously as per the preset time interval until you press the "Stop" key. The available modes options are 0.5s, 1s, 2s, 3s, 5s, 10s, 20s;
- Self Timer Mode ( ): When the "Shutter" key is pressed once under recording standby mode, video camera will start countdown and take a photo at the set time. The available modes options are 3s, 5s, 10s.

- **Photo Resolution**

  Select the required resolution for shooting. You can set this parameter to "8M", "5M" or "3M".

- **Display Time**
  You can choose to display or not display the photo shooting time at the bottom right corner of the photo.

To set parameters, perform the following operations

a. Press "M" key to enter the camera setting menu;
b. Press "-" / "+" key to select " ";
c. Press "<" / ">" key to move blue cursor to the sub-menu you want to configure, Press "OK" key to confirm;

- **Warning Tone**
  Adjust the loudness or mute of buzzer. three modes are available: Off, Medium(50%) and Standard(100%).

- **Status Indicator**
  Activate or deactivate the status indicators. three modes are available: Off and On.

- **On Screen Display**
  Display or hide the recording icons or information on the display screen.

- **Select Light Metering Mode**
  To achieve the best exposure effect, use central spot light metering mode when the central spot is bright while the surrounding environment is dark.

- **Auto To Standby**
  Video camera is set to automatically enter standby mode if no operation is (photo shooting, video recording or key operation) carried out in certain time. If any operation is carried out in the timing process, the timer will be reset. Under standby mode, press video recording key/shutter key/stop key to awaken video camera. The available modes options are Off, 2 minutes, 5 minutes and 10 minutes.

- **TV Output Format**
  This setting is designed to ensure that the frame rate of video recording matches with the playback format of on TV.

- **Language**
  select the required language.

- **Date/Time**
  You can adjust the date and time, which are overlapped in the bottom-right corner of a video or shooting file during video recording or shooting.

- **Format**
  This option allows all the files in the memory is cleared.

- **Recover Factory Setting**
  This option allows all the settings of the system to be restored to original factory settings.

1. Operating Procedure for Playback

a. Press the "playback" key to enter playback interface;
b. Press "Video recording" key to select the file type and press "OK" key to confirm;
   : View video files
   : View photo files
   : View all video/audio/photo files
c. Press "<" / ">" / "+" / "-" key to move the cursor to the thumbnail of the file you want to play back;
d. Press "OK" key to enter the playback interface and press "OK" key to play it.

- When playing video files, the functions of various keys are listed as below:

Key	Functions	Key	Functions
-	Decrease volume;	**+**	Increase volume;
<	Fast rewind;	**>**	Fast forward;
	Press it to return to the file preview interface;	**OK**	Play/pause.

- When reviewing photos, the functions of various keys are listed as below:

Key	Functions	Key	Functions
-	Zoom out;	**+**	Zoom in;
	In zoom-in mode, when you press "**OK**", you can press "**-**" to move the photo downward;		In zoom-in mode, when you press "**OK**", you can press "**+**" to move the photo upward;
<	In zoom-in mode, when you press "**OK**", you can press "**<**" to move the photo rightward;	**>**	In zoom-in mode, when you press "**OK**", you can press "**>**" to move the photo leftward;
	When a photo is displayed in its actual size, press "**<**" to view the previous photo;		When a photo is displayed in its actual size, press "**>**" to view the next photo;
	Press it to return to the file preview interface;	**OK**	When a photo is displayed in its actual size, press "**OK**" to rotate it;
			In zoom-in mode, when you press "**OK**", the " ↕ " icon will appear in the upper left corner, you can to move the photo;

- When playing audio files, the functions of various keys are listed as below:

Key	Functions	Key	Functions
-	Decrease volume;	+	Increase volume;
	Press it to return to the file preview interface;	OK	Play/pause.

2. Delete Files

a. Under file playback or thumbnail preview mode, move the cursor to the file icon you want to delete;
b. Press "M" key to enter file operation mode and move the cursor to "Delete file";
c. Press "OK" key to confirm;
d. Move the cursor to "delete single"/"delete all" and press "OK" key to delete the file(s).
: Delete single : Delete all

3. File Protection and Unlocking

a. Under file playback or thumbnail preview mode, move the cursor to the file icon you want to protection;
b. Press "M" key to enter file operation mode and move the cursor to "file protection";
c. Press "OK" key to confirm;
d. Select protection type and press "OK" to confirm:
: Protect single : Protect all
: Unlock single : Unlock all

The protected files cannot be deleted. However, such files can be deleted by formatting.

4. Upload Audio/Video/Photo Files to PC

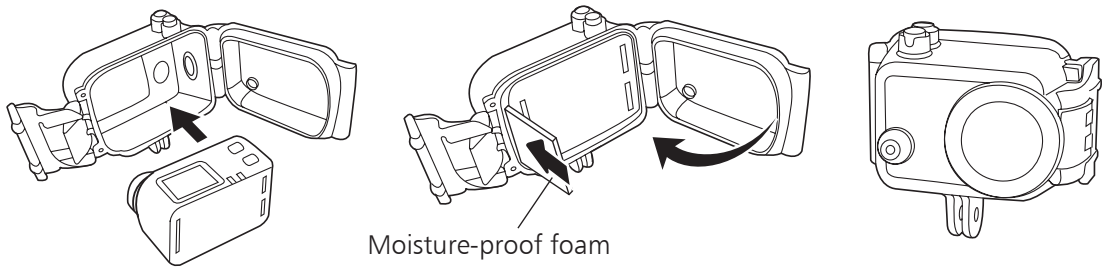
a. Use USB data cable to connect the camera to a PC;
b. Switch on video camera;
c. Click the "My Computer" icon on the desktop and find the "Removable Disc". If the camera is not detected, close "My Computer" window and reopen it after a while. The "removable disc" will be displayed;
d. Double click the "removable disc" icon;
e. Enter the "removable disc" and copy/move the file to the PC's hard disk.

You can not record image or video files on the micro TF card inserted in the camera, from a PC (via USB cable).
You can not delete image files or videos stored in the micro TF card, from the PC (via USB cable). You can only do it on the camera.
You can not put a file from your PC to the micro TF card inserted in the camera (via USB cable).

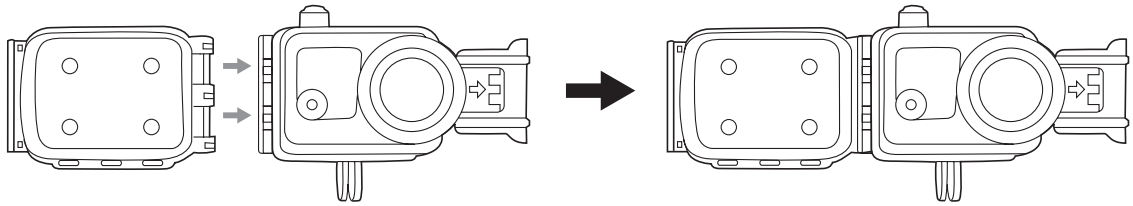
Water-proof Housing and Moisture-proof Foam

In order to avoid and reduce the dewing on the glass of the water-proof house, we suggest inputting the moistureproof cotton inside the water-proof case in big temperature range environment.

Follow these steps to load video camera into water-proof housing:



Follow these steps to assemble the waterproof housing rear case:



Precautions for the Waterproof Housing:

The waterproof housing is a precision component. When using the waterproof housing, adhere to the following precautions:

1. Do not randomly remove or change the O-ring, key, and lens cover. Otherwise, the waterproof performance deteriorates.
2. Do not put the waterproof housing in a place where corrosive gases are easily generated due to strong acid or alkali. Do not make the waterproof housing in contact with chemical or corrosive objects, such as strong acid or alkali.
3. Do not put the waterproof housing in a place where temperature is high (50°C) or low (-10°C) for a long time to avoid deformation.
4. Do not expose the video camera to sunshine for a long time to avoid deterioration of the waterproof performance.
5. Before use, ensure that the O-ring is intact, the seal is litter-free, the housing is fully sealed, and the buckle is tight.
6. After using the housing in sea water, wash it using fresh water, clean it, and dry it in a cool place.

Description	Specifications
Visual angle	130°
Aperture	f/2.4
Digital zoom ratio	4X
Pixel	8 million
Video recording format	MP4
Audio recording format	WAV
Photo format	JPG (JPEG)
WiFi-Distance/Mobil Device	100 Meter (Max.)
Storage medium	Up to 64GB external TF card
Standard battery capacity	1250mAh
Recharging duration	USB Cable: About 3.5 hours
Maximum video recording time	About 3.0 hours (Max.)
Maximum audio recording time	About 5.0 hours (Max.)
TFT Display	2.0" true color TFT display (16:9)
LED Dot-matrix screen	25 x 16mm FSTN (lattice screen)
Water-resistant grade	IP68
Water-resistant depth	100m
Operating platform requirements	Operating system: Windows XP SP2 / Vista or above / Mac OS;
Storage temperature	-20°C ~ 60°C
Operating temperature	-10°C ~ 50°C
Dimension	L59 × W22 × H43mm
Unit weight	73g

As our products undergo continuous development, the specifications are subject to change without prior notice.

1. When the unit is in used for long period, it is natural that its surface temperature will rise.
2. If you will not use the unit for long period, it is suggested that you charge it once every 6th month to maintain the performance of battery.
3. Use of digital zooming function during shooting will have slight impact on the image quality.
4. The visual angles under different modes will be slightly different.
5. To smoothly play a high-definition video file, it is suggested to use a PC or other professional device.
6. If you enable cyclic recording function for long period or frequently shoot/delete photos, the memory card may have data fragments so that you may not be able to store or shoot photos. Please back up the data to external storage medium and perform formatting operation to the memory card.
7. When the camera works in a high-temperature environment, the lattice screen may become black, which is a normal phenomenon and will not affect its function.
8. When the camera is used for a long time, the temperature of the metal parts near the lens may rise, which is a normal phenomenon; please do not touch the heated metal parts.
9. Hot plugging is not supported; in case of white screen, please restart the camera to return to normal.

Notice

When using the video camera, pay attention to the following notice information:

1. During continuous use, the body temperature of the video camera increases. This situation is normal.
2. If the video camera is not used for a long time, remove and maintain the battery properly, and recharge the battery every six months to ensure the battery performance.
3. During recording, enabling the digital zooming function may affect the image quality.
4. Shooting view angles are slightly different in different working modes of the video camera.
5. If a video file is large, a computer or a special-purpose player is preferred for smooth play.

FCC Information and Copyright

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.

15.19 Labelling requirements.
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.

FCC RF warning statement: the device has been evaluated to meet general RF exposure requirement , The device can be used in portable exposure condition without restriction.