AEE | MagiCam
Magical application

S50
User Manual

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Main Functions and features

1 175° wide-angle lens.
2 High-definition video recording with multiple interchangeable recording modes.
3 Automatic white balance and automatic exposure.
4 External scalable power supply and GPS module.
5 Support external TF card up to 64GB.
6 Support Audio-in function and external dedicated microphone.
7 Support HDMI output function.
8 All-round highlight status indicator.
9 Built-in speaker and key tone.
10 Professional water-proof housing design, up to Grade IP68 and 100 meters waterproof.
11 Accessories adopt strengthened structure with improved reliability and stability.
12 Rechargeable built-in high capacity lithium-ion battery extends the video recording time.
13 Built-in microphone adopts dual-Mic design to achieve stereo and high-quality recording effect.

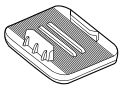
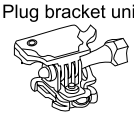
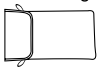
14 100m wireless remote control allows you to control the video camera functions remotely.

15 Built-in G-Sensor can function as automobile black box.

16 Burst mode can take 10 photos in 1 second to record every detail in high-speed motion.

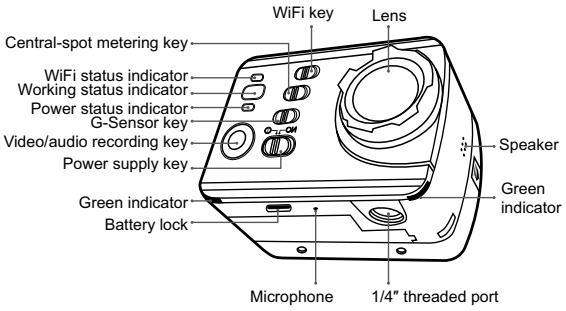
List of accessories

S50 main unit	TFT display	Water-proof housing
Remote control	Lithium-ion battery	Back clip
Vertical-horizontal joint	Waterproof plug	Lens protective cap

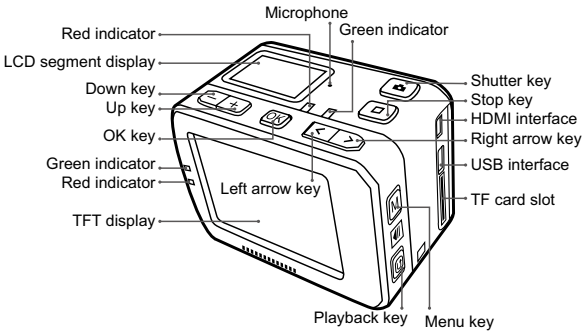
Flat sticker 	Convex sticker	Plug bracket unit 
Extended adjusting bolt unit	Moisture-proof foam	USB data cable
Power supply terminal	Cloth bag 	Hand strap
CD-ROM	User manual	

Component guideline

Front view



Rear view:


Microphone
Red indicator
Green indicator
LCD segment display
Shutter key
Down key
Stop key
Up key
HDMI interface
OK key
Right arrow key
Green indicator
USB interface
Red indicator
Left arrow key
TF card slot
TFT display
Playback key
Menu key

Description of indicators

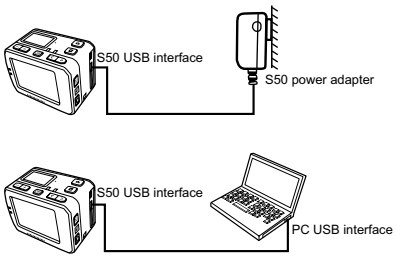
Indicator / Status	Red indicator		Green indicator		Tricolor indicator	
	Quantity	3	Quantity	5	Quantity	1
	Position	1 at front/ top cover/ TFT display each	Position	1 at front/top cover/TFT display each; 2 at bottom side	Position	Front cover
Startup	Stay on					
Video recording			Flash slowly			
Audio recording			Flash slowly			
Photo shooting			Flash once			
Card full			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					
WiFi on					Blue (flash slowly)	

Preparations before use

Charging

Start up the unit to check the battery power. If the battery level is low, charge it.

Use the supplied power adapter or USB port of a PC to charge S50:

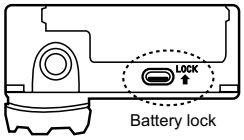


When S50 is charged in power-off state, the red indicator will flash slowly. After the battery is fully charged, the red indicator will stay on.

Charging time with power adapter	
Charging time with USB	

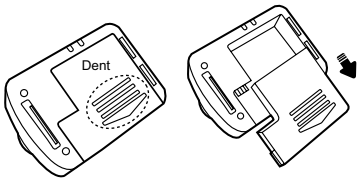
Max. continuous video recording time	About 2.5 hours with fully charged battery
Max. continuous audio recording time	About 3 hours with fully charged battery

Remove the battery



Battery lock

Before removing the battery, ensure that the battery “lock key” at the bottom of S50 is unlocked.

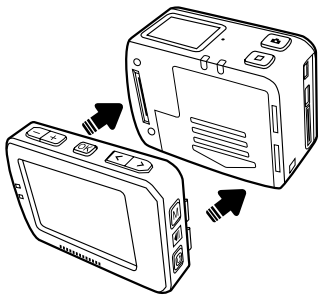


Place the figure at the battery dent and press down the battery in the direction of arrow to detach it from the camera.

Install TFT display

S50 supports external dedicated 2″ TFT display, which can perform Setup, Playback and Delete, etc. on the camera to preview or play back the video.

Install the display as shown below:



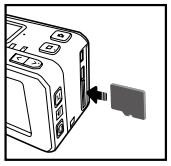
Insert and remove the memory card

S50 supports external TF card up to 64G. Though all SD cards above Class 6 can be used on S50, high-speed card is recommended to perform high-definition shooting. When shooting during dramatic motion, brand SDHC cards are recommended for use in order to ensure smooth shooting.

* Insert the memory card

1 Ensure that S50 is switched off.

2 Insert SD 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

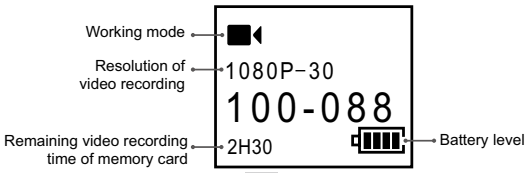
Press the center of exposed part of SD card and SD card will pop up slightly. Then pull it out flatly.

Startup

Turn the power button to “ON” to turn on S50;

- 3 red indicators will be lit up (one at front cover, top cover and display each)
- The startup picture shows “AEE LOGO” and S50 enters recording standby mode. Now TFT display is shown as below:

- LCD lattice screen is shown as below:



Time setting

Set time and date by following these steps:

1 Turn on S50 to enter recording standby mode;

2 Press “M” key to enter the camera setting menu;

3 Press “<” / “>” key to select “ ”;

4 8. Press “-” / “+” key to select time setting option and press “OK” key to confirm;

5 Press “<” / “>” key to move the cursor to the time or date to be modified. Then press “-” or “+” key to modify the time and date and press “OK” to confirm;

6 Press “M” key to exit the menu and return to recording standby mode.

Use “<” / “>” key to select the item to the left / right, and use “+” / “-” key to select the item above/below of the selected item. After selection, press “OK” key to confirm operation.

Note: Please ensure that the date and time are correctly set. This unit will add time to the photo/video based on this setting.

Language setting

1 Turn on S50 to enter recording standby mode;
2 Press “M” key to enter the camera setting menu;
3 Press “<” / “>” key to select “ ”;
4 Press “-” / “+” key to select language setting option and press “OK” key to confirm;
5 Press “<” / “>” key to move the cursor to the language type to be modified. Then press “OK” to confirm;
6 Press “M” key to exit the menu and return to recording standby mode.

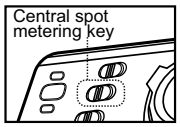
Select light metering mode

To achieve the best exposure effect, use central spot light metering mode when the central spot is bright while the surrounding environment is dark.

“ON”: turn on central spot metering

“[ ]”: turn off central spot metering

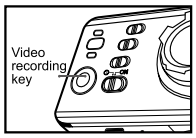
- When central spot metering is turned off, it is set to the optimum IQ metering conditions by default.



Video recording

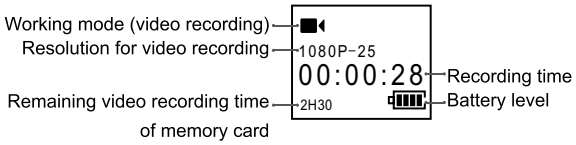
Basic operation of video recording

1. Turn on S50 to enter recording standby mode;
2. Aim the lens to the subject and preview it in TFT display;
3. Press “Video recording key” once to start video recording;



- The system will send out a “beep” to signal the start of video recording;
- The green indicator will flash slowly and time counter starts;
  TFT display is shown as below for video recording:

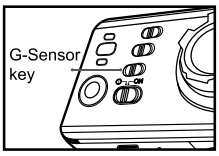
LCD lattice display is shown as below for video recording:



4. During video recording, press the “Stop” key once to stop video recording.

- The system will send out two “beeps” to signal the end of video recording, and the time counter stops.
- The green indicator will be turned off.
- The display will return to recording standby mode.

Start video recording via G-SENSOR mode



Turn G-Sensor key to “ON” so that S50 will actively sense the change of gravity. The system will automatically start video recording in case of shock or tilting, etc. Especially when this mode is applied in fixed installation, for example, mounted on the vehicle or helmet, it can start video recording timely without the need to start the recording in advance. It can free you from manual operation while conserving battery power.

When the camera does not sense any gravity change for 3 minutes, it will exit video recording.

Parameter setting for video recording

Follow these steps to set the parameters for video recording:

1. Press “M” key to enter the setting menu;
2. Press “<” / “>” key to select “”;
3. Press “+” / “-” key to move blue cursor to the sub-menu you want to configure;
4. Press “OK” key to enter the sub-menu;
5. Press “+” / “-” key to select the parameters you want;
6. Press “OK” key to confirm;
7. Press “M” key again to exit the setting menu.

• Resolution setting

The optional resolutions for video recording are listed as below:

PAL System	NTSC System
1920×1080i 50f 16:9	1920×1080i 60f 16:9
1920×1080P 25f 16:9	1920×1080P 30f 16:9
1280×960P 25f 4:3	1280×960P 30f 4:3
1280×720P 50f 16:9	1280×720P 60f 16:9
1280×720P 25f 16:9	1280×720P 30f 16:9
848×480P 100f 16:9	848×480P 120f 16:9
848×480P 50f 16:9	848×480P 60f 16:9

- **Visual angle**

Optional visual angle: wide, moderate, narrow.

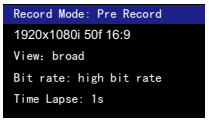
Wide	Moderate	Narrow

- **Bit rate**

This unit provides two bit rate options: high “ ” and normal “ ”. (If high bit rate is selected, you will get clearer picture with increased file size).

- **Pre-recording function**

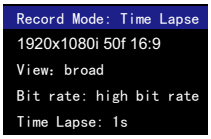
Set the video recording mode as “pre-recording” first.



When pre-recording function is activated, press “Video Recording” key under recording standby status, S50 will enter pre-recording mode. Press “Video Recording” key again to start video recording and save the last 5 seconds of the segment prerecorded as the starting part of the video file.

- **Interval video recording**

Set the video recording mode as “Time Lapse”:



Interval video recording function allows you to shoot one photo at the time interval specified as one frame for dynamic image. Without

subsequent editing in software, you can easily produce dynamic video showing continuous evolution of movements, especially when the movement is slow and may otherwise go unnoticed.

: Shoot one photo every 0.1 second.

 : Shoot one photo every 0.5 second.

: Shoot one photo every 1 second.

: Shoot one photo every 2 seconds.

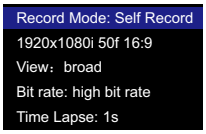
: Shoot one photo every 5 seconds.

: Shoot one photo every 10 seconds.

 : Shoot one photo every 30 seconds.

- **Automatically start video recording**

Set the video recording mode as “Self Record”:



If this function is enabled, the system will auto start recording videos according to the countdown time you set.

:Start video recording 5 seconds after “video recording” key is pressed.

:Start video recording 10 seconds after “video recording” key is pressed.

Start video recording 20 seconds after “video recording” key is pressed.

- **180°rollover**

When this function is activated, upright video file can be obtained when using S50 to shoot video upside down.

OFF: upside-down video file can be obtained when using S50 to shoot video upside down.

ON: upright video file can be obtained when using S50 to shoot video upside down.

The function is not available for PAL: WVGA/100 NTSC: WVGA/120.

- **Dzisplay time on image**

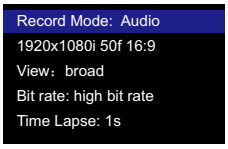
  If this function is enabled, the system will auto add the date and time at the bottom right corner of the video. Otherwise, the date and time will not be displayed.

Audio recording

Enter audio recording mode

Method 1:

1. Turn on S50 to enter recording standby mode;
2. Press “M” key to enter the camera setting menu;
3. Press “<” / “>” key to select “ ”;
5. Press “-” / “+” key to select “Record Mode” and press “OK” key to confirm;
7. Press “<” / “>” key to select “Audio” and press “OK” key to confirm;



9. Press “M” key to exit the menu and return to recording standby mode.

Method 2:

Long press “stop” key for 3 seconds to activate or deactivate “audio recording only” function.

Operating procedures for audio recording

1. Enter audio recording mode and press “Video Recording” key to start audio recording.
- The system will send out a “beep” to signal the start of audio recording;
- The green indicator will flash slowly;
2. During audio recording, press the “Stop” key once to stop audio recording.
- The system will send out two “beeps” to signal the end of video recording and the time counter stops;
- The green indicator will be turned off.
- The display will return to recording standby mode.

Exit audio recording mode

1. Press “M” key to enter the camera setting menu;
2. Press “<” / “>” key to select “ ”;
3. Press “-” / “+” key to select “video recording” mode and press “OK” key to confirm;
4. Press “<” / “>” key to select video recording and press “OK” to confirm. S50 will return to recording standby mode.

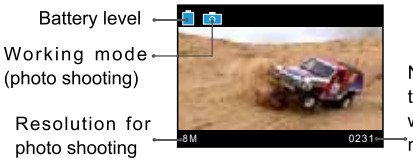
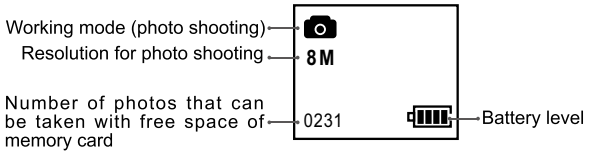
Photo shooting

Operating procedure for photo shooting

1. Turn on S50 to enter recording standby mode;
2. Cast the lens to the subject and preview it on the display;
3. Press the “Shutter” key once to switch the working mode to “photo shooting”;

4. Press the “Shutter” key again to shoot one photo.

- The green indicator will flash once;
- The speaker 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:



- During photo shooting, LCD lattice display is shown as below: