
USER MANUAL

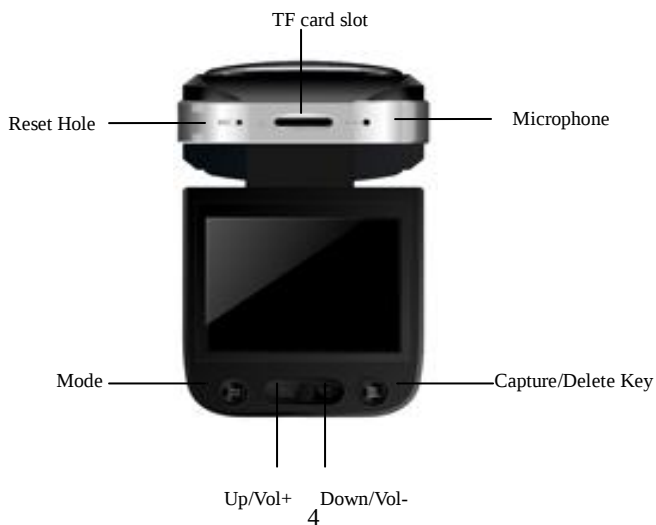
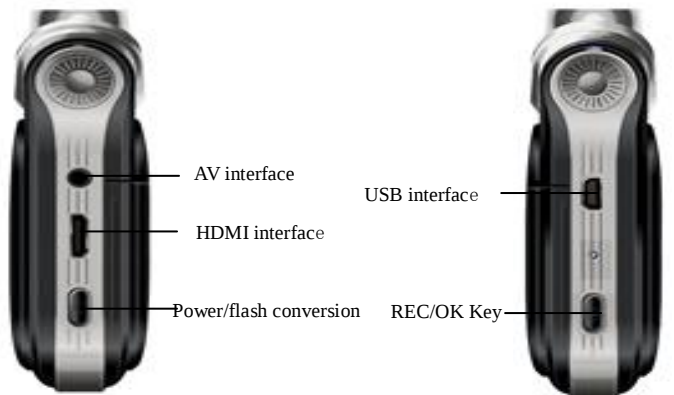
This is a digital HD (high definition) video camera recorder with the most advanced technology; this device is a common HD video camera as well as a professional driving recorder. It can record the high resolution image with the pixel as high as 1920X1080P FULL HD and take the picture of 16 mega pixels. Using TF card as the storage device, compact size, low power consumption, HD camcorder can record more detailed perfect video image. Video also can be transferred by HDMI transmission wire directly to the high quality LED TV (HDMI) for high resolution displaying.

Enjoy true high-definition life by using this product.

product features:

- ◎ 120 degree ultra wide angle lens.
- ◎ 1920x1080P FULL HD high quality resolution.
- ◎ Advanced H.264 video compression technology.
- ◎ 16 mega pixels.
- ◎ Video record / photograph angle, can be adjusted to 70~120 degree ultra wide angle.
- ◎ 4X digital zoom, ranges from 12cm to limitless distance.
- ◎ 2 inch high resolution LCD, can watching while shooting.
- ◎ Matching LED for supplementing light at night.
- ◎ Support HDMI high quality video transmission.
- ◎ 3 resolution forms can be changed for video recording.
- ◎ 180 degree adjustable for the lens from upside to downside.
- ◎ 30/60 frames per second for smooth video flow.
- ◎ Equipped with special auto suction cup holder. Conveniently fix and use.
- ◎ Seamless continuous recording, will not miss any data.
- ◎ Powerful document protection, even in the recording process, the occurrence of sudden power outages, machine damage, etc., video files will be intact.
- ◎ Adopt auto cigarette lighter power supply, to make the video recording while driving.
- ◎ To start the auto automatic off; to start the video recording function.
- ◎ Automatic circulating video recording, being able to set the record time for each file.
- ◎ Watch video while make video recording in driving. Support on-spot play back.
- ◎ Improve time & date display, need no reset when re-start.
- ◎ Set the video recording time, stop recording when the setting time is up.
- ◎ Screenshots function, can capture the video screen while video recording and reviewing.
- ◎ To charge through USB.
- ◎ Bottom stand adapt the foot of the camera, convenient for photographing and video recording.
- ◎ Human orientated operation interface.
- ◎ Maximum 32GB or even bigger TF high capacity storage device.
- ◎ High capacity BL-5C mobile lithium cell.





Key Functions

MODE Shift Key: to shift video recording, photographing and review mode, system settings. In review mode, press MODE to enter six-picture browsing status.

Power Key: On/off the device.

Up/Down Key: In Menu mode, used for menu selection; the menu state used to select the menu items. In the reviewing condition, for browsing images, adjust the volume.

REC/OK Key: During photographic mode, used to make the screenshot of the video; in the menu state, used to set menu; during video replay, used to start, pause playback.

Capture Key: In camcorder mode, it's used to take photos. When recording, it's used to get snapshot(current video resolution size of picture)

◆ Load and unload the battery

1. Battery indicators as below:



Full



Half



Low



Empty

◆ Battery Recharge

2. This device can be charged through connecting the USB terminal of computer as well as connecting charger.

◆ Connect to 12V/24V car charger as driving recorder

When used as driving recorder, it is required to turn on the Circulating Video Recording and Automatic Video Recording Upon Start On, at the same time, connect it with the car charger, when the vehicle engine is on, it will start video recording automatically; when the vehicle engine is off, the data will be saved, and the device will shutdown automatically.

➤ Note:

Only the car charger with the output of 5V can be used for the power supply, or the device could be damaged by the charger of other voltages.

◆ Insert in and take out the memory card.

1. Confirm the inserting direction of TF card, wrong inserting direction could damage the camcorder and TF card;
2. Use the SDHC specification conforming high speed TF card, this TF card has the marking of C4 or C6.
3. In the event of the storage card format cannot be compatible with the device, the device could not read the card, and it is required to formalize the TF card.

◆ Turn on / off and auto off of video recorder

1. Press the power key for 1 second to turn on/off the device.
2. For saving the power capacity of battery, to set the automatic off time in the menu, the device will turn off automatically when not any operation on the video recorder.

◆ Camcorder Mode

1. Press REC button to start the video recording, and then press REC button to stop the video recording. During the process, red icon  will flash on the screen.

2. Select flashlight:

Choose the mode of flashlight in the status of video recording by pressing right key. The sequencing will be forced flash , automatic flash , and no flash .

3. Digital zoom: Focus the camera on the subject; press the key Up and Down to make the digital zoom.

◆ Revise the following content in the Menu mode:

Video recording quality: to choose the resolution of video recording:1920x1080, 1440x1080, 1280x720.

Circulating video recording: to set or shut the circulating video recording, in the status of circulating video recording, when the capacity of TF card is full, the previous content shall be covered automatically.

Motion detection recording: to start on the video recording automatically when monitored the moving object in the front.

Automatic video recording upon start on: when connecting car charger, the device will start the video recording automatically 3 seconds after start on.

Video recording upon turn on: when connecting car charger, choose the turn on time after the car light off.

Video recording upon turn off: when connecting car charger, after the car light off, the device will proceed on the video recording for a short period of time before turn off.

Picture size: Change picture resolution 16M,12M, 5M, and 3M.

Photo Quality: Fine/Good/Normal

Selftimer: 10 seconds to trigger capture.

Burst: Continuous shooting up to 3 shots.

Auto snapshot: Set to take photos within a specified time automatically.

Language: set language.

TV out: NTSC/PAL.

Stamp: Video recording/pictures whether add into the time and date.

Date: Use up or down key to change the digits and press OK to go to next item.

Buzzer: On/Off

Auto off: set idle time to power off the device.

Auto LCD off Time: set the time auto turn off the LCD screen; press any key to wake up the LCD screen.

Format: Format the TF card.

Reset system: to set the system parameter as the default value.

Night Mode: if the light is dim, night mode can significantly improve the ability to capture the light, enhancing effect of night photography.

Contrast: set video contrast

Light source frequency: to choose the frequency of electric wire, in the event of selecting the wrong frequency, the horizontal lines interruption will show on the image.

Sharpness: set pictures sharpness

ISO Sensitivity: Compensate image lightness, used in water surface, snow environment.

White Balance: to correct color difference for different lighting conditions, when white balance is set to Auto, the camcorder automatically compensates for different lighting conditions.

EV compensation: if the light is dim, increase the exposure value in order to make the picture clear.

Version: to check the version number of video recorder.

Recording time: to set the record timing.

Sensor	5M CMOS Sensor, 1/2" light-sensing surface area
Lens	4 fixed focus Lens, aperture 2.0, focus 3.4mm
Zoom	4X digital zoom
LCD display	2 inches 4:3 TFT LCD (960X240)
Video output	AV (CVBS) terminal: composite TV signal output NTSC/PAL High definition TV terminal interface: HDMI signal output. Max 1920X1080i50 or 1920X1080i60
Picture	JPG file format Maximum output pixel: 16.0 mega pixels
Video recording	H.264 compressed format 1920 x 1080, 30 frame/sec 1440 x 1080, 30 frame/sec 1280 x 720, 30 frame/sec
Audio	Microphone and speaker (AAC) Equipped
Memorizer	Memory: 32M External media: SDHC (support 32G max, TF card)
Shutter	Electronic shutter
White balance	Auto/sunshine/cloudy/tungsten lamp/fluorescent lamp
Flashlight	Automatic electronic video supplement lamp (LED)
Battery	800mAh 3.7V rechargeable lithium battery

➤ **Warning Notice**

■ **Cannot take pictures or video clips.**

Check the TF card whether it's locked or has insufficient space.

■ **Stop recording half way.**

Please check whether your TF card supports high-speed transmission (marked with C4 or C6).

■ **“File error” pops up in playback mode.**

Please format the TF card.

■ **No image on TV screen.**

Make sure AV or HDMI cable is correctly connected. Make sure TV is switched to correct mode.

■ **Video or pictures are blurry.**

Please clean up the lens.

■ **Sky or water scenery makes the picture dark.**

Please alter “EV” value to improve it.

■ **In cloudy or indoor environment, picture is not colorful enough**

Please alter “White B”

■ **Flashlights cannot be used.**

The battery might be low.

■ **Image with flowing stripes.**

Please alter “Light FREQ”

■ **Horizontal lines interruption in the image**

This is caused by the light source is wrongly set, please set as 50Hz or 60Hz according to the local power supply frequency.