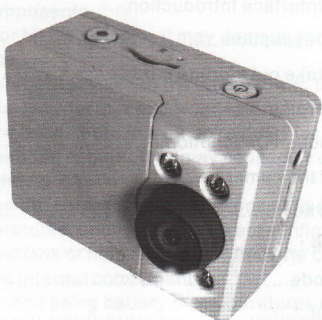# Sport Camcorder

User Manual

Please read through this user manual before using the product and keep the manual for future use.
Please operate the camera on basis of full understanding of the manual.
Any alteration of product appearance and specification below are without further notice.
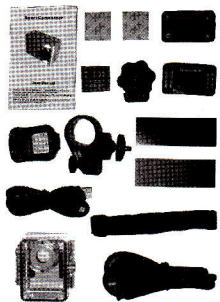
Contents

Precaution

Pls be well noted with the following guidelines before you use this camera,

- Pls refer to manual instruction and operate the camera correctly. Illegal operation may cause damage to camera internal components.
- Do not fall or hit the camera, it may damage the internal components.
- For your safety, please keep the camera from the children and animals, in order to avoid accident.
- Do not place the camera in a damp or dusty location for extended periods of time. This may cause a fire or an electrical shock.
- Do not leave the camera in places exposed to extremely high temperatures, such as under direct sunlight for extended periods of time. This may affect the camera housing and internal components.
- We recommend using battery in temperatures between 0°C to 40°C.
- Turn off the camera before removing the memory card, in case of the damage to card or storage data.
- The temperature rise is normal after using the digital cameras for a long time.
- Do not touch the lens during using the camera, so as not to influence the photography effect.
- Please use the air blower (special lens blowing equipment) to clean lens or use special lens-cleaning cloth to clean fingerprint or dust on the surface.
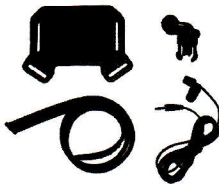
Accessories

Standard accessories
1. USB cable
2. HDMI cable
3. Waterproof case
4. Rotatable base mount
5. Flat base pedestal
6. Curve helmet pedestal
7. 3M pads
8. User manual
9. Battery
10. AC charger
11. Handlebar grip
12. Nylon strap
13. Rubber pads

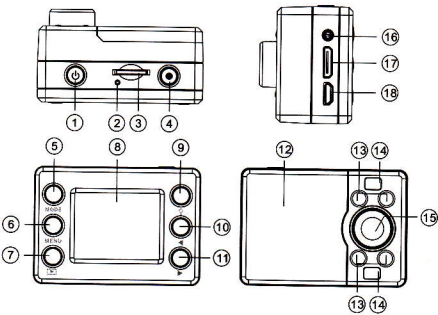## Optional accessory
1. Chest mount Harness
2. Microphone
3. 90° bend side mount
4. Rubber strap

Operation Interface Introduction

1. Power key
2. MIC
3. TF card slot
4. REC key
5. Mode key
6. Menu key
7. Playback key
8. LCD screen
9. LED lights key
10. Left key
11. Right key
12. Battery cover
13. Night lamps
14. LED lights
15. Lens
16. External MIC port
17. HDMI port
18. USB port

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Mounting Description

The camera can be mounted in many ways. The methods of mounting are suggested as below:

1. Mount the flat base pedestal

Mount the flat base pedestal onto surfboard:
Put the camera into waterproof case and lock well (if no need waterproof case, use camera directly), install rotatable base mount with waterproof case/camera ,fix it onto flat base pedestal, stick flat base pedestal with 3M pads and then attach to surfboard directly. (As pic. 1, 2, 3, 4, 5, 6) (Waterproof case installation) see below:

Pic. 1   Pic.2   Pic.3   Pic.4

(No need waterproof case installation, see below pic. 5, 6,)

Pic. 5:   Pic. 6:

2.Mount curve helmet pedestal

1) Mount to the top of helmet
Thread the nylon strap into curve helmet pedestal, then thread the nylon strap into helmet and fasten it. then fix pedestal more firmly using 3M pads. (Pic. 1, 2, 3, 4)

Pic. 1   Pic 2   Pic.3   Pic.4

2)Mount to the side of helmet(this accessory is optional)
Tie rubber strap with curve helmet pedestal around the helmet, adjust curve helmet pedestal to the proper side position, then fix pedestal more firmly onto the helmet using 3M pads, screw camera into 90° bend side mount, then fix the side mount into curve helmet pedestal. (as pic. 1, 2, 3)

pic. 1,   Pic 2,   pic.3

3. Mount handlebar grip

As shown in below pictures, screw the handlebar grip into the camera and mount it onto the motorcycle or bike (fix handlebar grip more firmly using rubber pads).

Insert and take out storage card

1. Insert the card according to the right direction
2. Take out the storage card
   1) Turn off the camera
   2) Press the edge of the storage card slightly, it will eject automatically.

Notice:Please confirm the inserting direction of the TF card , reversed inserting may cause damage to the camera and the card.

Battery charging

Connect charger with camera using USB , and then plug in the power supply. During charging, the red indicator is on, when fully charged, the indicator is off.

Notice:a)In order to improve the charging efficiency, please charge the camera under the shutdown status.
b)Please make sure the power is on when the charger is plugged.

Button Function Description

Power key (⏻):to turn on/off the camera; to clear screen characters.

Mode key (MODE): to switch to Capture Mode/ Video Mode.

REC key (●):to start/stop taking photo/video under Capture/Video Mode; to confirm the option under Playback Mode.

Menu key (MENU): to enter into and exit Setup Mode, and delete file under Playback Mode. During recording, press this key to manually lock the present file and press again to cancel the locking .

Playback key (▣): to browse photos and videos. During recording press this key to close Mic, press again to open Mic.

Left key (◄): to choose last menu or file, zoom out the image under Capture & Video Mode, and long press for fast backward under playback mode.

Right key (►): to choose next menu or file, zoom in the image under Capture& Video Mode, and long press for fast forward during playback.

LED lights key(♡): LED lights turn on/ off. Press the key to adjust the brightness of the lights.

Turn on/off the camera
1. Turn on
Press once " ⏻ " key, on the top of LCD screen it displays the recording, remaining time of card and resolution icon separately . At the bottom of LCD screen it displays card, battery and date & time icon . (Remark: When Loop recording mode is set on, camera will automatically start recording after it powers on for 3 secs.)
2. Turn off
Press " ⏻ " key for 3 secs, it will turn off.

LED lights key
Under standby mode or weak light condition, press " ♡ "key to open the LED light, it is under strong lightness status, press once " ♡ " key to adjust lightness to normal status, press once again " ♡ " key to close the LED lights.

Video mode
1. Normal recording
Under Standby Mode press "●" key once to start recording, on the top of LCD screen it displays the recorded time and resolution icon, press" ● "key again to stop recording and it will save the video files, the remaining recording time is displayed on the top of LCD screen.
2. Loop recording
Set Video Time in the menu to 2 or 5 mins (refer to "Video Mode" setting), camera enter into loop recording mode (loop recording icon is displayed on the screen). Press " ● "key to start recording, when it records to 2 or 5 mins (according to the time you set), the DVR will automatically save the video footage and then continue recording; when card is full, the first video footage will be deleted automatically and it continues recording and so on. (Remark: G-sensor video can not be deleted). Press REC key to stop recording manually.
Auto recording: when camera is set loop recording function on, once camera is powered on, camera will auto start recording after 3 seconds.

3.Motion Detection

When "Motion Detection" is on, Motion Detection icon will be displayed on the screen. Under Standby Mode, the camera will start recording automatically when it detects any moving objects. And it stops recording within 10 secs if no object move. It starts recording again when it detects moving, and so on.

Capture mode

1. Under Standby Mode, press "**MODE**" key to switch to Capture Mode, aim at the object you want to shoot and press " ● "key, it will save the photo automatically.
2. **Automatic photo**
   Under Capture Mode, set the self capture time in the menu "**automatic photo**", press "●" key camera will keep taking time-lapse photo automatically as the time you set. Press " ● " key again to quit auto capture.

Zoom in/out

Under Video or Capture Mode, press ◄ / ► key to zoom out / in the image.

Clear screen

Under Standby, Video, Capture or Playback Mode, press" ⏻ " key once to clear all characters on screen. Press" ⏻ "key once again, the characters will recover.

Playback Mode

* Under Standby Mode, press "▣ " key to enter into Playback Mode, Press ◄ / ► key to choose last/next file, press" ● " key to confirm.
* Under Picture/ Video browsing, press "**MODE**" key or " ▣ " key to return to Standby Mode.
* During Video Playback, press "**MODE**" key or press playback key" ▣ " two times to return to Standby Mode.

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Browsing file

1. During picture browsing, press ◄ / ► key to browse last /next one.
2. During video browsing, press " ● " key to pause, press "●" again to continue playback.
   * During Playback, press and keep holding the ◄ / ►key for 3 seconds each time to fast forward (2X,4X.8X,Normal) / or to fast backward (-2X,-4X,-8X, Normal).

Delete Files/ Protect files

* Under Standby Mode, Press " ▣ " once to enter Playback Mode, Press ◄ / ► to choose the picture or video file, press "**MENU**" Key to enter into Delete Menu or Protect Menu, press" ● "key to confirm.
* Delete Menu: Select "Delete" file, press " ● " key to confirm, then select "DELETE Current/ALL", press " ● " to confirm deleting.
* Protect Menu: select "Protect" file, press " ● "key to confirm, then select "Lock Current/Unlock current/Lock all/Unlock All" , press " ● "to confirm Lock/Unlock.
  Remark: G-sensor video can not be overwritten and will be saved according to the 3 conditions following.
  1. The video time X<40secs, the current and the last video are saved.(total 2 videos)
  2. The video time 40≤X≤80 secs, only the current video is saved.
  3. The video time X>80 secs, the current and the next video are saved.(total 2 videos)

Setup mode

Under Standby Mode, press "**MODE**" key to enter into Video /Capture Mode, press "**MENU**" key to enter into Capture/Video Setup Mode, press ◄ / ► key to choose last/next option, press" ● "key to confirm.

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1. **Capture Mode**
   Resolution: 12M/5M
   Quality: High/Medium/Low
   Sharpness: Strong/Normal/Soft
   White Balance: Auto/Sunny/Cloudy/Tungsten/Fluorescent
   Color: Normal/ Black& White /Sepia
   ISO: Auto/100/200/400
   EV: 2.0 /1.5 /1.0 /0.5 /0 /-0.5 /-1.0 /-1.5 -2.0
   Anti-Shaking: Off/On
   Date Stamp: Off/On
   Capture Mode: Single/3secs/5secs/10secs/30secs/1min
2. **Video Mode**
   Resolution: 1080P/720P
   Loop Recording: Off/2 mins/5 mins
   Motion Detection:Off/On
   Record Audio:Off/On
   Date stamp: Off/On
   G-sensor Sensitivity:Off/High/Medium/Low
   EV: +2.0 /1.5 /1.0 /0.5 /0 /-0.5 /-1.0 /-1.5 -2.0
   White Balance: Auto/Daylight/Cloudy/Tungsten
                          /Fluorescent
3. **Setup Mode**
   Date/Time: YY/MM/DD
   Auto Power Off: Off/1min/3 mins /5 mins
   Beep Sound: Off/On
   Language: English/ Deutsch /FRANÇAIS/ Espana
                 / Italiano /Portugues/繁体中文/简体中文
                 /日本語/Р у с с к а я/한국어
   Frequency: 50 Hz/60 Hz
   Default Setting: Cancel/OK
   Format: Cancel/OK
   Version: ZXXXXXXXXXXVXX
   Close Screen: Off / 1mins/3mins/5mins
   Lamp Setting: Off/On
   Image rotation: Normal/ Inversion

Play back video footage on TV

Under Standby Mode, connect camera with TV using the
HDMI cable, choose HDMI mode on TV. The LCD screen
of camera will be off automatically. You can replay picture
/video, delete file and set system on TV.

Play back video footage on PC

Connect PC with camera using USB cable, LCD screen
displays Storage/PC, choose "Storage" ,press " ● " key,
open "My Computer" ⟶ "Removable Disk" ⟶ "DCIM"
folder and ⟶ "100MEDIA" to browse the photos or video
footages.
(The G-sensor video files are named ‘GSN series, normal
recording, loop recording, motion detection video files are
named "MOVI" series, the photo files are named "PTDC"
series.
When choose "PC", open "My Computer", click icon
to start PC camera.

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Technical specification

Sensor:	5 Mega CMOS
Video Resolution:	1080P
	720P 30FPS
Image size:	5Mega (2592x1944)
	12Mega (4000x3000)
Lens :	130 degree all glass lens
External Memory:	TF card, support up to 64G
Format:	JPEG/MOV
Zoom in /out:	4X
Audio:	Built in/external MIC, speaker
Screen:	1.5 inch TFT screen
Port:	USB2.0/HDMI
Waterproof:	30M
Battery:	Built in 800mAh Li-polymer battery
G-sensor:	The video taken under G-sensor can not be deleted by loop recording
PC-function:	Support
Lights:	4 x IR lights 2xLED lamps