

FULL HD SPORTS CAMERA

User Manual

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Precaution

Please be well look through the following guidelines before you use this camera.

- Please refer to manual instruction to operate the camera correctly. Illegal operation may cause damage to internal components.
- Do not fall or hit the camera, it may damage the internal components.
- Do not alter or dismantle the camera to avoid the damage to the camera.
- The temperature rise is normal when camera use for a long time.
- Do not touch the lens when recording which will affect the video quality.
- Please use "Class10" and above TF card to ensure machine work properly.

Camera Special Features:

Invert Mode

Should you need to invert camera while using, set "invert mode" in the menu to "On", the camera will be now rotated 180 degrees.

WiFi Function

It will be more convenient to operate camera at a distance of 15 meters by using mobile phone via WiFi connection.

High Speed Recording

The camera has 720P 120fps,VGA 240fps high definition resolution.

Slow Motion

The video will be displayed twice as slow as the video frame(at 60fps video) or 4 times as slow (at 120fps video).

Time Lapse

The camera will take pictures at a certain rate then make a video consisted by pictures.Such as recording sunrises,sunsets,flowers blooming etc.This function make short videos to record slow process.

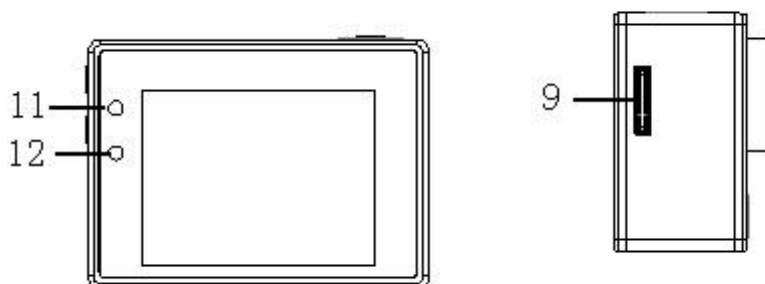
Capture Mode

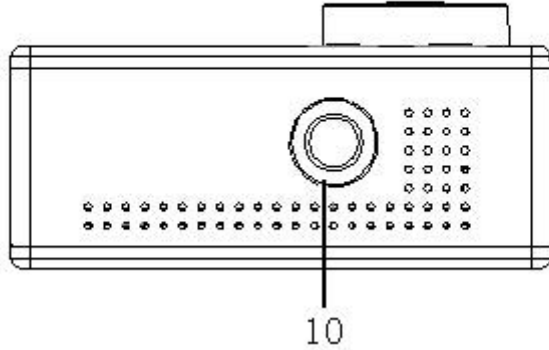
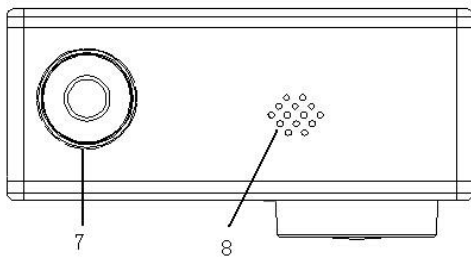
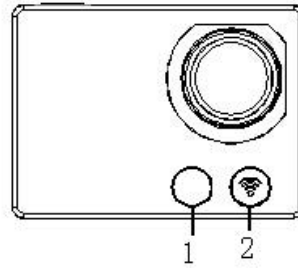
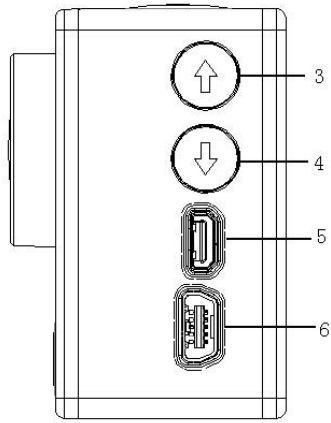
Under recording press Mode button to take a picture.It not only can be used by manually capture,but also can be set automatically,which makes it become more convenient.

Diving mode

Video's color underwater will be the same as normal environment when set "Diving mode" on.

Camera Interface





1. WiFi indicator
2. Mode button
3. Up button
4. Down button
5. HDMI port
6. USB port
7. Power button
8. Speaker
9. TF card slot
10. 1/4" screw hole
11. Working indicator
12. Charging indicator

Button function

Power button:

Short press to turn on camera/long press to turn off camera;
In standby mode-short press to start/stop the recording;
In Picture mode-short press to take a picture;
In playback mode-short press to start/pause playback;
Confirm menu setting and time setting.

Up button:

Use in standby mode to zoom in;
Press up button for seconds to enter/exit the menu;
In the Menu setting or Playback mode choose the last option or file;
Increase the digit in the time setting.

Down button:

Zoom out under standby mode;
Use in Menu setting or Playback mode to scroll down to next option;
Decrease the digit in the time setting.

Mode button:

Short press to switch into Video/Picture/Playback Mode under standby mode ;
Long press to enter WIFI setting;
During recording short press to capture;
In setting mode - press mode button to switch from mode menu to system menu when you are at the top of menu;
In time setting to switch Year/Month/Date/Time;
Start/stop capture when setting capture automatically.

Camera Operation

Power on/off

Power on:Short press Power button,screen shows start up picture,the blue working indicators will light up,camera enters standby mode.

Power off:When camera is on,long press Power button,screen shows the shutdown picture,the blue working indicators will be off,camera powers off.

Battery Charging

Connect camera with power charger via USB cable,the red light will light up.Once the battery is full, the red light will be off. If you want to charge faster,turn off the machine when charging.

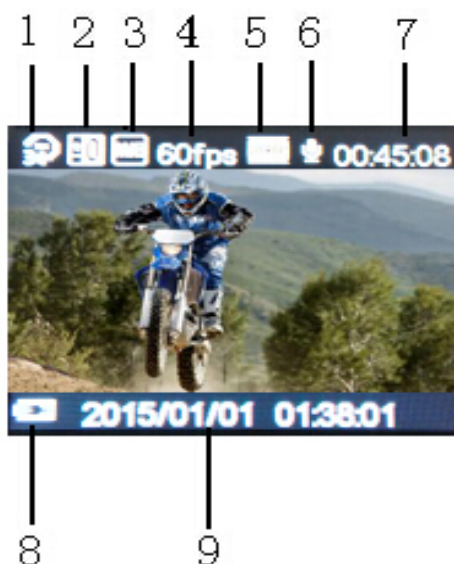
Insert/Remove Battery

To insert or exchange the battery,please remove the front cover of the camera.

Video mode

Video interface:

1. Record icon
2. Exposure Compensation
3. White Balance
4. Frame rate
5. Video resolution
6. Microphone
7. Remaining time of the memory card
8. Battery icon
9. Year /Month / Day/Time



Normal recording

Closing "seamless" in the video mode menu, Press Power button, camera starts recording till card is full. Press Power button again to stop recording.

Seamless recording(refer to menu setting)

Under standby mode, press Power button to start recording, the blue indicator will flash. When the video recorded up to the time you set (1 minute/3 minutes/5minutes), camera will save the footage automatically and continue recording.

When TF card is full, camera will overwrite the first footage by time sequence and continue recording. Press Power button again to stop recording, the remaining recording time is on the LCD screen.

Note:

- "Seamless" can't be used in the 4K 10fps resolution.
- 4K resolution doesn't support "wifi, zoom function and time lapse".
- Please set "capture timing" off when you use "seamless" or "time lapse".

Picture Mode

Picture interface:

10. Picture icon
11. Exposure Compensation
12. White balance
13. Picture size
14. Remain photos
15. Battery icon
16. Year /Month/Day/Time



Camera default setting is Video mode. Under standby mode, press Mode button to enter picture mode, aim at the object you want to shoot and press Power button, camera will save pictures automatically.

Capture function

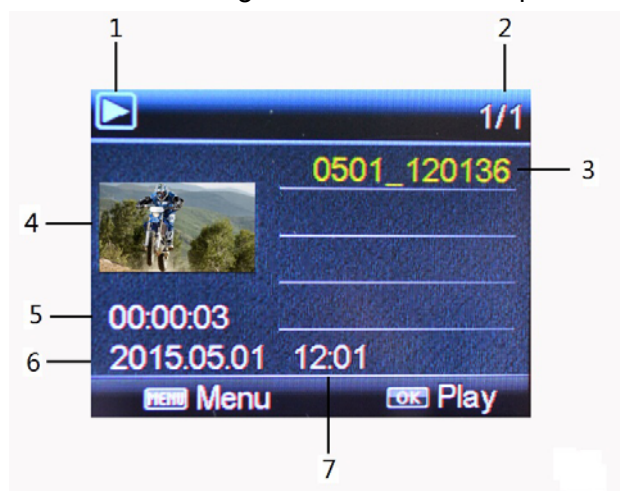
1. Capture manually: Press mode button to take a picture under recording when "Capture timing" in system menu is off.
2. Capture automatically: when "Capture timing" in system menu is set "5s/10s/15s/30s/60s", the machine will capture and save automatically under normal recording. Press mode button to start and stop capture.

Note:

- 4k resolution doesn't support capture function.
- Camera could not support capture function when "time lapse" and "slow motion" is on.
- Please set "capture timing" off when "seamless/time lapse/slow motion" will be used.

Playback Mode

1. Playback icon
2. File number / total number of files
3. Select the file you want to play
4. File Preview
5. File length
- 6.7. Date stamp



In standby mode, press the Mode button to switch to Playback mode, press UP/Down button to select the video / picture you need,press the power button to Preview / playback. Press the Power button to stop playing.

Menu Setting

In standby mode,press Up button for seconds to enter/exit the menu,then press Mode button can switch mode menu and System menu.Press Down button to page down,press Up button to page up,press Power button to confirm.

Video mode/Picture mode/Playback mode each have two menus: Mode menu and System menu. All systems are same.

Video menu:

Movie Size: 4k 10fps/1440p 30fps/1080p 60fps/1080p 50fps/1080p 30fps/1080p 25fps/720p 120fps/720P 60fps/720p 50fps/720p 30fps/720p 25fps/VGA 240fps

Video quality: super fine / fine / normal

Seamless : OFF / 1 minute / 3 minutes / 5 minutes

Slow Motion: Off / Auto

Time Lapse: Off / 0.5sec / 1sec / 3sec / 5sec / 10sec / 30sec / 1min

White Balance: Auto / Daylight / Cloudy / Tungsten / Fluor

Diving mode:Off / On

Exposure: -2.0 -1.0 +0.0 +1.0 +2.0

Motion detect: OFF / ON

Date stamp: Off / Date / Date & Time

Picture menu:

Resolution: 12M / 8M / 5M / 3M

White Balance: Auto / Daylight / Cloudy / Tungsten / Fluor H

Exposure: -2.0 -1.0 +0.0 +1.0 +2.0

Timer shot: Off / 2s / 10s / 30s / 60s / Double

Periodical Snap: Off / 5s / 10s /30s / 60s

Photo Burst: off / 3 photos / 5 photos / 10 photos

Date stamp:Off / Date / Date & Time

Playback mode menu:

Please select File type!

VIDEO

JPG

Protect: Single / Protect All / Unprotect All

Delete: Single / All

System menu:

Sounds: Beep (on / off) / Volume (0/1/2/3) Voice Rec (H/M/L /off)

Power frequency: 50Hz / 60Hz / Auto

Power Save: Off / 1 min / 3 min / 5 min

Date & Time:2015/01/11 20:07 YY/MM/DD

Language: English / Traditional Chinese / Simplified Chinese / German / French /
Spanish / Russian/Italian/Thai/Japanese

Invert Mode: OFF / ON

WiFi password: 1234567890

Time Zones:-12-11-10-9-8 -7-6-5-4-3-2-1 +0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10 +11 +12

TV out: Yes / No

Remote Pair: Off / On

Format: Yes / No


Capture timing:Off /5s/10s/15s/30s/60s

System: Factory Reset / System Info / Card Info

Install and use WIFI

1. Scan the QR code on the gift box to get the APP.
2. Install the APP in your smart phone.
3. Set the WiFi password in the Menu.(The default password it 1234567890).
4. Long press Mode Button to Open WiFi function.
5. Find “customer” in the WiFi list of smart phone,enter the password to connect it.
6. When smart phone connect to the camera, the camera screen will display “customer”, the WiFi indicator will light.If the connection does not succeed, the WiFi indicator will keep flashing.



7. Find the APP  in smart phone, then you can control the camera via the smart phone.
8. Press Power Button of camera to exit WiFi setting.

Notes:

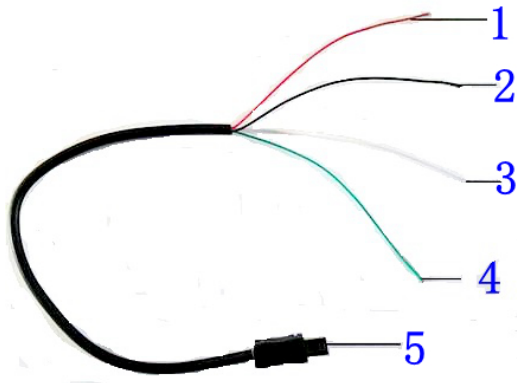
- Before you open WiFi function,please make sure that micro SD card is inserted.
- The effective distance is influenced by environment. The decrease of the WiFi signal and operation delay are normal.
- The “Power Saving Mode” in mobile should be set to “Off”.
- The “Keep Wi-Fi on during sleep” in the mobile should be set to “Always”.

Connect HDMI

Connect camera to HDMI-TV via HDMI cable, all operations can be displayed in high definition HDMI-TV screen.

Connect TV

Connect camera to TV via TV cable, set menu “ TV mode” to Yes, press Power button to confirm, then all operations can be displayed in TV screen.



1. The positive pole of the power 5v
2. The negative pole of the power
3. Video output
4. Audio output
5. USB port

Playback on PC

Connect camera to PC and open camera, screen will display: "MSDC", "PCCAM", "Working". Press Up button or Down button to choose the option, press Power button to confirm.

MSDC: Enter the MSDC to check the files.

PCCAM: Camera will be worked as PCCAM.

Working: Camera can be used Normally and be powered by the PC.

Technical specification

Camera Size	60*45*25mm (Not include the lens)
weight	58g(Not include battery)
Sensor	5 Mega CMOS
Lens	6G+IR F=2.0 f=2.8mm
View angle	160 degree
Resolution	4K 3840*2160@10fps 1920*1440p@30fps 1920*1080p@60/50/30/25fps 1280*720p@120/60/50/30/25fps 640*480p@240fps
Image Size	12M 8M 5M 3M
Screen	HD 2 inch screen
File formats	JPG/MOV H.264
Time Lapse	Support
Slow Motion	Support
Image Invert	Support

WiFi frequency	2.412-2.462GHz
WiFi distance	15m
WiFi support phone system	IOS6.1 and above, Android 4.0 and above
Battery capacity	Replaceable Li-ion battery 1050mAh/3.7V 3.885Wh
Camera waterproof	50m
Loop recording	Optional 1/3/5 minutes
Memory card	4GB to 32GB (Micro SD Card Class10 and Above)
HDMI output	Real-time transmission
USB port	USB 2.0 high-speed interface for charging and data transfer
Audio	Built-in microphone / speaker

Notice: The manufacturer however reserves the right to amend the specifications according to market demand without notice.

FCC Statement

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.

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.