Full HD 1080P

Skiing Camera

1080P@30 720P@60 fps	3meters Waterproof	135℃ Wide angle	32GB TF Card	H.264 Video format

Thanks for purchasing this wearable camera goggle, please read this manual before use.

Technical Specifications

1. Sensor resolution 5 Mega pixels CMOS.
2. Support Micro SD/SDHC Class 4 card or above and compatible up to 32GB (not included).
3. Movie storage:
1080P=1920×1080p (16:9).30fps, ~12 M bit/s data rate,1G Byte memory can record for 12 minutes.
720p=1280x720 pixels (16:9), 60fps, ~12 M bit/s data rate, 12 minutes of video per 1G Byte.
4. The recording duration will be varied because different recording objects and environment.
5. Focusing range: 3m~infinity.
   Rechargeable battery (built in)
   Size: 227*95*130mm
   Weight: 230g

Computer System Requirements

Minimum System Requirements
- Windows Environment: 3.0 GHz Intel Pentium D(dual-core) or faster.
- Mac Environment: Dual 2.0 GHz PowerMac G5 or faster; 2.0 GHz Intel Core Duo or faster.
- Windows XP (Service Pack 2 or later),Windows Vista, Windows7 or Apple Mac X 10.6 or above.
- 2GB RAM.
- 1G Free hard disk space.
- 1GB or greater video card.
- QuickTime 7.
- 1024x768 resolution video support(32 bit).
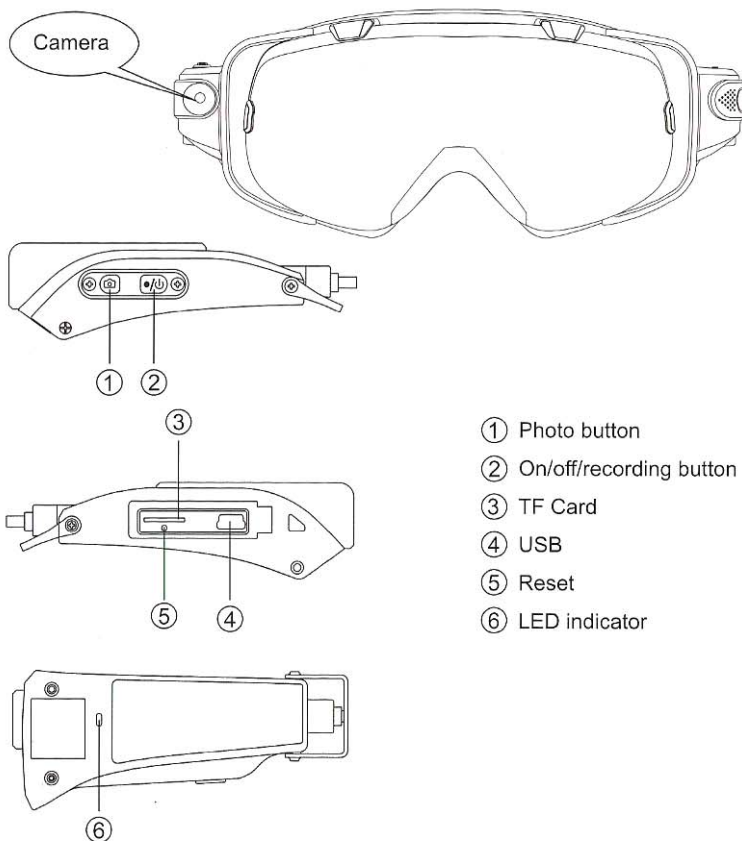- 16 bit Windows compatible sound device.
(In some cases, the frame rate may be automatically reduced to maximize the memory usage)

I)Parts Introduction

1. Camera
2. Manual
4. USB cable
Optional:
5. Power bank
3. Charger

II) Products design

Main parts of the camera

Camera

① Photo button
② On/off/recording button
③ TF Card
④ USB
⑤ Reset
⑥ LED indicator

VI) Using your camera

1. To start recording
- Wear the camera goggle and focus on what you would like to record.
- Press the ON/OFF button to power on the camera, (vibration alert) Press again, start recording(vibrate alert).
- If in standby mode, press the recording button to start recording .
- To stop recording, press the on/off button again.(vibration alert).

2.To take a picture

- Press on/off button , the camera is in standby mode;
- Short press the photo button for capturing a picture.

3.PC Camera

When connect the camera with the PC, Long press the photo button, removable disk disappears, the camera is in PC CAM mode.

4.RESET

When the camera is dead after wrong operation, please press reset button for 1 second, the system will return to off status, repress the on/off button for normal operation.

Specifications

Pixels	3 mega
Resolution	1920x1080P@30fps ; 1280x720P@60fps
Power supply	Embedded 660mAh Li-polymer Battery
Power duration	1.5 hours
Power Consumption	<1.5W
Memory	Support Max high speed 32 GB TF Card
Photographing Angle	135 degree
Video Format	H.264
Working temp	-10℃–40℃
Storage temp	-20℃-60℃
Waterproof rate	IP 68
On/off vibration	Yes
Physical weight	230g
Product size	227mm*95mm*130mm
USB	2.0（HS）
Player	KM Player; Quick Time7.6;Storm2012;RealPlayer11
Operating System	Win7/WinXP/Vista/Mac Os10.7 or above

Setting menu

1.EV

  Higher EV can increase the brightness of the video quality.

2.Video quality

  To change the bit rate for different video quality.

3.Light Frequency

  To avoid the flicker for indoor use, the right frequency needs to be set.

4.Time stamp

  Set time stamp, then the exact time will display on the video and photo.

5.Resolution

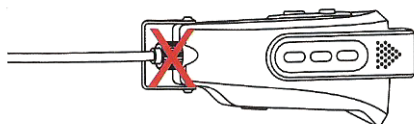 Change the resolution between 1080p and 720p.

Setting.txt:

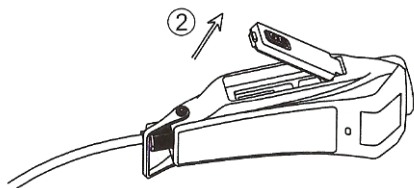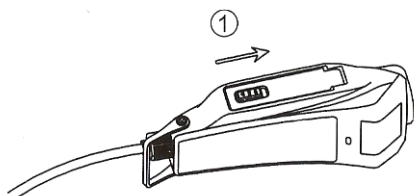1.Connect the camera to the PC with USB cable,

2.Find the setting.txt by open the removable disk,

1.Camera precautions

Please read below instructions before use this camera

1.Do not open

2.Pleaseopen the USB port at the instructions of the arrow direction

Do not put the camera to the wet and dusty place, it may cause to the file disaster or get an electric shock.

Do not leave the camera in places exposed to extremely high temperatures , such as direct sunlight for extended periods of time. This may affect the camera housing and internal components.

• Please clean the lens with a soft cloth to remove fingerprints or dust.

• If the rechargeable battery is mishandled, it can burst, cause a fire or even chemical burns. Please notice following cautions:

Do not disassemble.
Do not crush and expose the rechargeable battery to any shock or force such as hammering, dropping or stepping on it.
· Before remove the SD card, please turn off the camera at first, or it may cause damage of the files or SD card.
· Remove the SD card before storing the camera for long periods of time. Keep it in a well-ventilated place .

Disclaimer :
The warranty covers manufacturing defects only. Should the camera malfunction under participation of any high-risk sports or activities not endorsed or recommended by us, it will not be covered under warranty

XV)Trouble shooting
1.Can not power on the camera
· Please check if there is enough battery.

2. After connected with PC, can not find removable disk in MY COMPUTER.
· Check if the USB connection is correct or not.
· Check if the USB cable is normal
Try other USB cable, if still can not find removable disk, the camera may have problem. Please contact with your distributor or the manufacturer.

3. Can not record a video
· Check if the SD card has enough space, if not, please format the SD card and then start recording
· Verify if there are enough power, if running low power, please charge the camera and then recording.

4. No sound or low volume.
· Verify if the audio setting is correct.
· Verify if the audio setting in the PC is correct, and try to play other videos to see if there is any sound.
5. The camera can not charge
· Verify if the power adapter work well by LED light indicator. Please do not charge with other adapter for this camera, if still can not charge normally, please try to charge by USB cable connection to the PC.
·Please check if the USB connection is correct. Please do not use other USB cable for this camera.

3.Choose update with"Y"means you can update the new data, default setting
is "N", restart the camera to activate the setting.

Setting.txt:

Status	0	1	2	Default setting
EV	0-12	0-12	0-12	6
Light Frequency	60HZ	50HZ	No	0
RTC Display	time stamp off	time stamp on	no	1
Resolution	1080P	720P		0

NOTE: Users can choose 50HZ or 60HZ by this setting to avoid flickering in the video while
shooting indoors, you need to adjust this setting to match the frequency of light source

LEDStatus:

Status	Green light	Blue light	Red light	Vibration
Power on	Stay on	off	off	Vibrate 1 sec
Power off	off	off	off	Vibrate 3 sec
Recording	Stay on	One time/sec	off	Vibrate 0.5 sec
No card. memory full	Quick flash 5 times	Quick flash 5 times	off	Vibrate 3 sec, then off
Low battery	Quick flash for5-10sec and then off	off	off	Vibrate 3 sec, then off
Charging	off	off	on	N/A
Full charge	off	off	off	N/A

Time Setting:
1.Connect the device with PC, you need to create a file named settime.txt under the SD memory card.
2.Open the new Text document, input the local true time according to the following set form.For
example: The present Beijing time is: 06:09:01,8th,Jul,2009,So we input like this:2009 07 08 06 09
01(space needed between each number) after finished save the file and exit.
3.Press "Power On" then the camera start recording, when connect with PC, the time shown on the
video should be correct.

Firmware Update
1.Please connect the camera to PC by USB cable.
2.Unzip the package and copy unzipped file "SportDVFlashImage.bin" to root folder of the micro
SD card.
3.Disconnect the USB to restart the camera, the blue LED will stay on 10Sec,
and then quick flash for 40Sec, the camera will turn off automatically.

4.Press "on/ff button" to restart the camera
  Remark: When the camera running out of battery, the green LED will turn on

Charge with power adapter or power bank
1.Plug the charger to the power supply and slot the battery into charger as indicated on the charger.
2.The Red LED on the charger will light up when the battery starts to charge
3.The Red LED will turn off when the battery is fully charged.Please use our provided power adapter; it will damage the product performance if you use the other power adapter.

Charge with USB cable
1.Turn the camera off, then plug the camera with the rechargeable battery to a computer with the USB cable provided
2.The blue LED will light up to show the battery is charging.
3.The blue LED will be turned off when the battery is fully charged.The rechargeable battery can work nearly 90-100 Minutes under the 1080P@30FPS or 720p@60fps; a full charge will need 2-3 hours.
NOTE:
• Ensure the card is inserted correctly
• Do not touch the connect terminals on the back of the micro SD card
• The card may be damaged if it is not fully inserted
• The card and the data may be damaged if the micro SD card is inserted or removed while the camera is on
• Do not touch the cable connector as this may affect the camera performance and functions
• The camera supports micro SD/SDHC Class 4 cards or above and compatible up to 32GB。 Micro SD cards with lower classes may cause performance drop during recording.

XIII)Connecting to a Computer
You can upload your recorded video footage and photos on a computer when enabled the computer and camera.
1.Turn the camera on.
2.Connect your camera to a computer using the USB cable.
3.Press "Power On" then the camera start recording, when connect with PC, the time shown on the video should be correct.

Firmware Update
1.Please connect the camera to PC by USB cable.
2.Unzip the package and copy unzipped file "SportDVFlashImage.bin" to root folder of the micro SD card.

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Hiermit erklärt die Firma:
Halogenkauf Lightech GmbH,
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dass sich das beschriebene Gerät in
Übereinstimmung mit den grundlegenden
Anforderungen und den anderen relevanten
Vorschriften der Richtlinien 89/686/EWG und
EN1836:2005+A1:2007 befindet.

- Bewahren Sie die Sonnenbrille zur Lagerung und
  zum Transport nur in geeigneten Etuis auf.
- Verwenden Sie keinesfalls zerkratzte oder
  beschädigte Brillengläser, da dies die Sicht
  behindern kann.
- Verwenden Sie die Brille niemals nachts und in
  der Dämmerung während der Fahrt mit
  Kraftfahrzeugen.
- Verwenden Sie die Sonnenbrille weder zum
  direkten Betrachten der Sonne, noch als Schutz
  vor direkter UV-Einstrahlung (z.B. Solarium).
- Technische Änderungen und Irrtümer
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