Digital Video Camera Recorder

Operating Guide

4K ULTRA HD WiFi

Product name: Digital Camcorder
Product Model: DV03-4KP
FCC ID:2A8QF-DV034KP

Before operating the unit, please read this manual thoroughly.

4KS220525T

Read this first

Before operating the unit, please read this manual thoroughly, and retain it for future reference.

WARNING

To reduce the risk of fire or electric shock,
1)do not expose the unit to rain or moisture.
2)do not place objects filled with liquids, such as vases, on the apparatus.

Do not expose the batteries to excessive heat such as sunshine, fire or the like.

⚠ Do not ingest battery, chemical burn hazard.
The remote control contains a coin/button cell battery. If the coin/button sell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.
If you think batteries might have been swallowed or placed inside any part of body, seek immediate medical attention.

⚠ CAUTION

▎**Battery Pack**
If the battery is mishandled, the battery pack can burst, cause a fire or even chemical burns. Observe the following cautions.
•Do not disassemble.

•Do not crush and do not expose the battery pack to any shock or force such as hammering, dropping or stepping on it.
•Do not short circuit and do not allow metal objects to come onto contact with the battery terminals.
•Do not expose to high temperature above 60℃（140℉）such as in direct sunlight or in a car parked in the sun.
•Do not incinerate or dispose of in fire.
•Do not handle damaged or leaking lithium ion batteries.
•Keep the battery pack out of the reach of small children.
•Keep the battery pack dry.
•Replace the battery with the specified type only. Otherwise, burst, fire or injury may result.
•Dispose of used batteries according to the instruction.

Use a nearby wall outlet(wall socket) when using the AC Adaptor/Battery Charger. If any malfunction occurs, disconnect the plug from the wall outlet (wall socket) immediately to disconnect form the power source. If you use the product with a charge lamp, note that the product is not disconnected from the power source even when the lamp turns off.

Do not use the AC Adaptor/Battery Charger placed in a narrow space, such as between a wall and furniture.

NOTICE

If static electricity or electromagnetism cause data transfer to discontinue midway (fair), restart the application or disconnect and connect the communication cable (USB, etc.) again.

1

Table of Contents
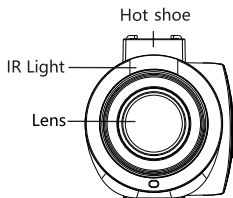
About the camera

System Requirement

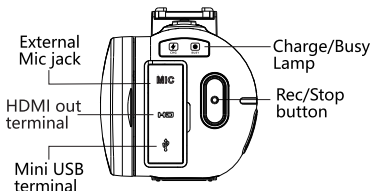Users can transfer videos and photos to computers with the following configurations:
Intel®Pentium2.0GHZ or higher / Microsoft Windows XP or higher operating system 2GBRAM / 40GB above available disk memory / Standard USB interface / 1GB GPU or higher 1920x1080 pixel or higher resolution.

Parts and controls

【Front side view】

Hot shoe

IR Light

Lens

【Back side view】

External Mic jack

HDMI out terminal

Mini USB terminal

Charge/Busy Lamp

MIC

Rec/Stop button

【Top side view】

Hot shoe   Photo button

Zoon lever

【Bottom side view】

Tripod Receptacles   Battery&memory card slot

【Left side view】

Built-in speaker   Mode/OK button

POWER /LIGHT

MODE /OK

MENU

Power/IR Light button
UP button
Down button

Built-in MIC   Menu button

3
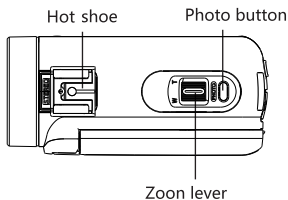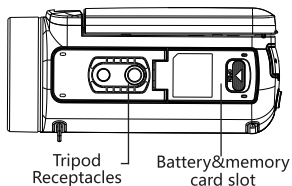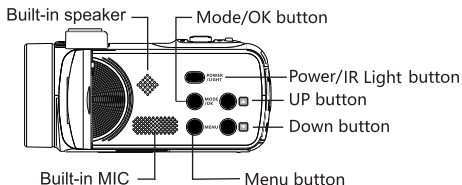
About the camera

Remote Control

Users can control the camcorder by remote control. Except as instruction of power on, the remote control can accomplish all other instructions.

Power button ———————— Shot button

Zoom in/UP button ———————— OK/IR light button

Left button ———————— Right button

Zoom out/
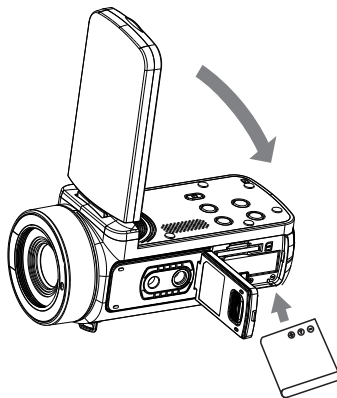Down button

Menu button ———————— Mode button
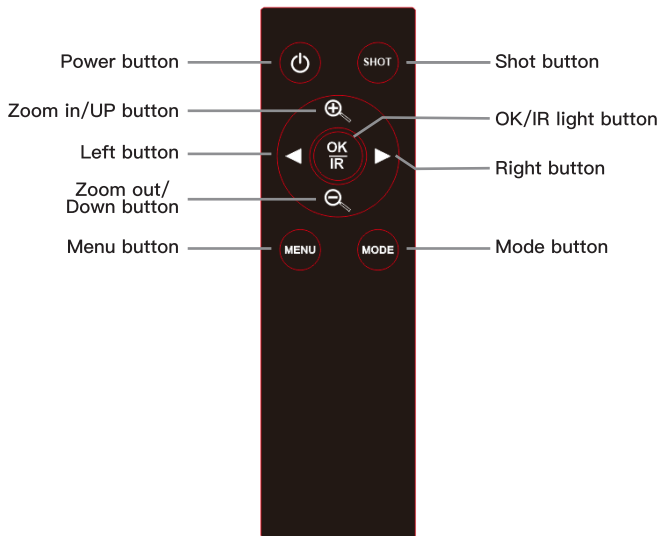
Notes

The remote control can not be used at a distance that is over 10 meters.

Charging the battery

1 Turn off your camcorder by closing the IPS monitor, open the battery cover and insert the battery in the direction shown in the picture and close the battery cover.

2 Connect the adaptor and the power cord(mains lead) to your camcorder and the wall outlet(wall socket)
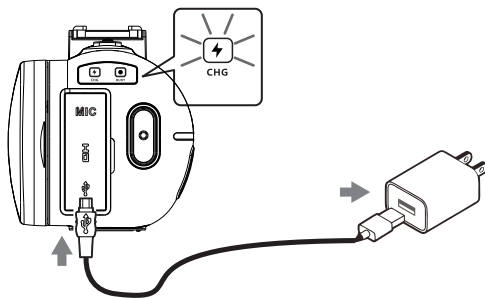
•The CHG lamp turns red when the battery is charging.
•The CHG lamp turns off when the battery is fully charged.

Turn the power on

Open the IPS monitor of your camcorder and the camcorder will turn the power on.

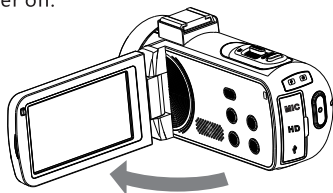- You can also turn on the power by pressing the ⏻ **POWER** button.
- To turn off the camcorder, you can press the ⏻ **POWER** button for 3 seconds or close the IPS monitor.

Notes

- It takes 5 seconds to turn on/off the camcorder by opening the IPS monitor. If you open/close the monitor twice in this reaction time, it may cause the camcorder can not turn on/off normally. Please wait for the machine to complete the power on / off procedure before operating the machine again.

Setting the language

Language

Press the **MENU** button to open the menu, press the ▲/▼/**OK** button to choose Language and confirm.
- Setup→Language→Desired language.

Inserting a memory card

1 Open the battery cover, and insert the memory card until it clicks.
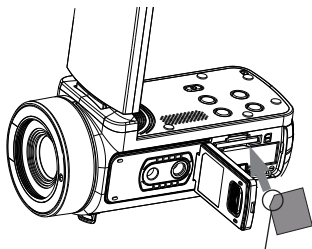
Inserting the card with the noted corner in the direction as illustrated.

2 To eject the memory card, open the cover and lightly push the memory card in once.

▎To format the memory card
- To ensure stable operation of the memory card, it is recommended to format the memory card with your camcorder before the first use.
- Press the **MENU** button and press the **▲/▼/OK** button to select and confirm.
- SETUP→Format→OK

If the memory card is not native format, the camcorder will come out the pop-up prompt: Card error. Please format. Please format the memory as above operation.
Formatting the memory card will erase all the data stored on it and the data will be irrecoverable. Save your important data on your PC, etc.

Recording

Your camcorder records movies on a memory card. The factory setting of recording movie is 2.7K 30fps. Perform the following steps to record movies.

1 Open the IPS monitor, and press the **REC/Stop** button to start recording.

Zoom lever

Busy lamp

Rec/Stop button
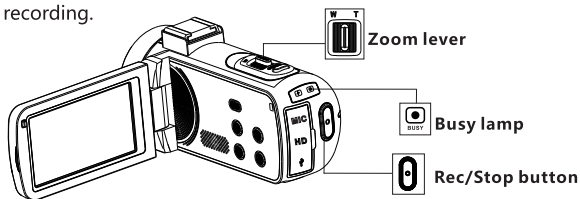
2 Icons of Video Mode
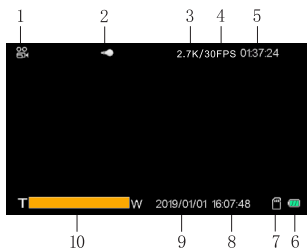
1 Video mode	5 Recording time	9 Date
2 IR Led light	6 Battery power	10 Zoom
3 Video resolution	7 Memory card	
4 Frequency	8 Time	

Recordable time of movies

The table below shows the approximate maximum recording times. These are the total times for all movie files. Recordable time may vary depending on shooting conditions and the memory card.

Memory Time* / Resolution	16G	32G	64G	128G
4K30fps	1h.22min.	2h.45min.	5h.31min.	11h.05min.
2.7K30fps	2h.20min.	4h.41min.	9h.23min.	18h.55min.
1080P60fps	2h.05min.	4h.13min.	8h.28min.	16h.59min.
1080P30fps	3h.23min.	6h.48min.	13h.40min.	27h.24min.
720P60fps	4h.44min.	9h.33min.	19h.09min.	38h.21min.
720P30fps	8h.44min.	17h.36min.	35h.20min.	70h.44min.

Time*(Recordable time of movies)

Notes

If the movie file size exceeds 4GB while recording, the camcorder automatically divides the file and creates a new one.
(This is a fundamental limit of all FAT file systems. The maximum allowed file size on a FAT volume is 4GB. This restriction ensures that the video can be played on the computer.).

Recording/Playback

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Shooting photos

1 Open the IPS monitor, press the **MODE** button→ 📷 Photo mode.
Press the **PHOTO** button lightly to adjust the focus, then press it
fully.

Zoom lever

Photo button
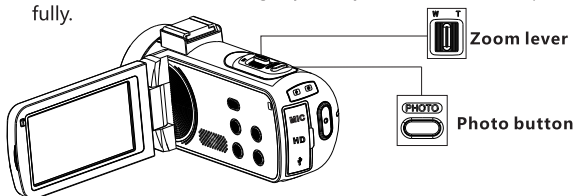
•The camcorder can not shoot in video mode.

2 You can manually adjust the zoom by turning the zoom lever.

3 Icons of Photo Mode.
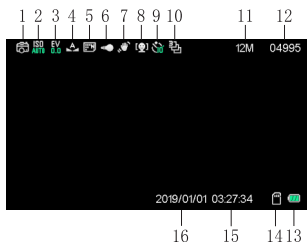
1 Photo mode	7 Anti-shake	13 Battery power
2 ISO	8 Face detection	14 Memory card
3 EV	9 Selfie timer	15 Time
4 White balance	10 Brust	16 Date (YY/MM/DD)
5 Sharpness	11 Photo resolution	
6 LED	12 photo quantity	

Playback

1 Open the IPS monitor and press the **MODE** button to enter the ► playback mode.

REC/Stop

UP/DOWN button

MODE/OK button
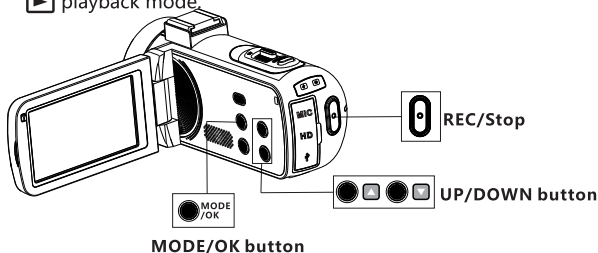
2 In Playback mode. press ▲/▼ button to scan photos/videos Press the **REC/Stop** button to play/stop video.

3 Icons in Playback mode.
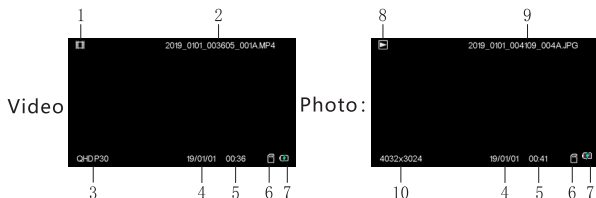
Video

Photo :

1 Video	5 Time	9 Brust
2 Video file name	6 Memory card	10 Photo resolution
3 Resolution	7 Battery power	
4 Date	8 Selfie timer	

Viewing the images on a TV

Playing back images

Playable images may be restricted depending on the combination of the recording format, the type of playback images being selected, and the HDMI output settings.

1 Connect the HDMI OUT of the camcorder to the HDMI IN jack of a TV using the HDMI cable.

Signal flow   HDMI cable
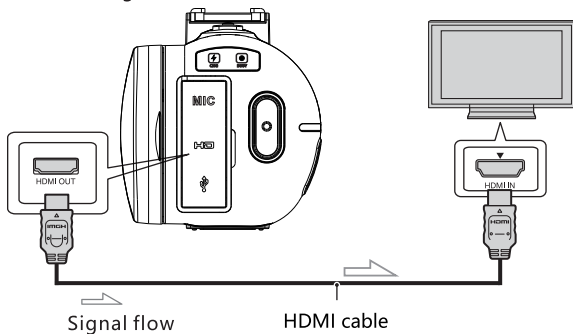
2 Set the input of TV to HDMI IN.

3 Play back images on the camcorder.

> * Press UP button to make icons invisable.
>   Press UP button to display icons.

Connect to computer

How to connect

1 Connect the Mini USB port of this machine and the USB port of the computer with a UBS cable.

USB Cable
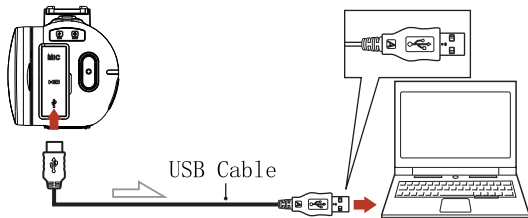
2 Turn over the display screen, the machine will automatically start up, the screen will show the following information:
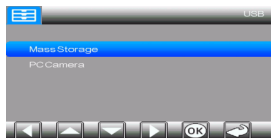
Click ●▢ ●▢ to select Mass Storage or PC Camera, click ●$^{MODE}_{/OK}$ to confirm.

Transfer files:
Select MSDC, the computer will display the memory card disk of the camera, and the computer can transfer the files in the memory card.

PC camera:
Select PC Camera, and the real-time images captured by the camera will be displayed on the computer. Please open the computer's camera program and select USB Camera.

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Using the Wi-Fi function

Installing DV-CAM on your smartphone/tablet pc

Android

Available ways to download & install DV-CAM APP.
1.Scan the QR code.
2.Visit the following URL.
   https://www.pgyer.com/dvcam

iOS   App Store

Available ways to download & install DV-CAM APP.
1.Scan the above QR code.
2.Search DV-CAM on App Store
3.Visit the following URL.
   https://apps.apple.com/us/app/dv-cam/id1567500868

Attention:
• Android 6.0 or higher is required.
• iOS 8.0 or higher is required.
• You may not be able to download DV-CAM from Google play or App
  Store depending on the country or the region. In that case, connect to
  the seller for help.

Notes

•If DV-CAM is already installed in your smartphone, update the software
 to the latest version.
•The Wi-Fi function described here is not guaranteed to work on all
 smartphones and tablets.
•The Wi-Fi function of the camcorder cannot be used connected to a
 public wireless LAN.
•The operation methods and display screens foe the application are
 subject to change without notice by future upgrades.

Using the Wi-Fi function

Connect to a Wi-Fi network

1 Turn over the display screen, the camcorder will automatically start up. →Press ⬤ MENU for 3 seconds and the screen will show the following information:

2 On smartphone, select [Settings] → select [WLAN] → Select the SSID of the camcorder and enter password displayed on camcorder to connect.

3 Go back to home and start up DV-CAM.

Using your smartphone as a wireless remote commander

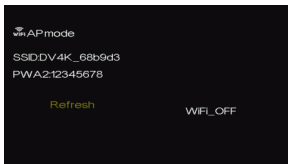You can record with the camcorder using your smartphone as a wireless remote commander.

| Live video | Local videos | Device videos | Settings |

Live video: Watch the live view images and remote control the camcorder to take photos and record movies.

Local videos: Playback the files that is already downloaded in a smartphone / a tablet.

Device videos: Download the files in the camcorder to your smartphone / tablet.

Settings: Password / Photo resolution / Resolution / Record sound / Date stamp / Version / APP version / Total storage / Available storage / Format / Restore default settings

Using the Wi-Fi function

•Download files location: DV-CAM>Images/Videos.
•Depending on local electrical interference or the smartphone's
 capabilities, the live view images may not be displayed smoothly.

Transferring Mp4 movies and photos to your smartphone

On a smartphone, play back an image to be downloaded to the smartphone.

• Open DV-CAM app, select [Device videos] - [VIDEO] or [PICTURE], then,
  select images you want to transfer, and select ⊕ to download it.

• Download files location: DV-CAM>Images/Videos.

Sharing images

All camcorder's images can be shared to others in your smartphone.

• Disconnect the WiFi connection between camcorder and smartphone,
  turn on mobile data to link the internet.
   -Select [Local Videos], then, select images that you want to share with
    others.
   -Select [⤴], then, choose an APP to open and share with others.

Using the menus

1 Press the **MENU** button.
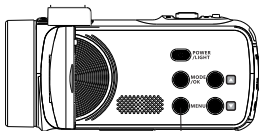
MENU **MENU button**

2 Select a menu icon with the ▲/▼ button and press the **OK** button to enter.
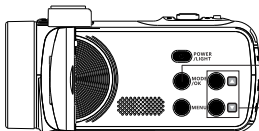
MODE /OK **OK button**

▲/▼ button

3 Press the ▲/▼ button to select a desired menu item and press the **OK** button to confirm.

• Press the **MENU** button to return to the previous menu.

MENU LIST

🎥 Video menu

Movie size

- 4K 30fps
- 2.7K 30fps
- 1080P 60fps
- 1080P 30fps
- 720P 60fps
- 720P 30fps

Looprecording

- OFF
- 3 Minutes
- 5 Minutes
- 10 Minutes

Color Fliter

- Color Filter
- Black & White
- Sepia

White balance

- Auto
- Daylight
- Cloudy
- Tungsten
- Fluorescent

Exposure

- +3.0
- +2.0
- +1.0
- +0.0
- -1.0
- -2.0
- -3.0

Scene

- Auto
- Portrait
- Landscape

Motion Detection

- OFF
- ON

Record Audio

- OFF
- ON

Time-Lapse

- OFF
- 100ms
- 200ms
- 500ms
- 1 second
- 5 seconds
- 10 seconds
- 30 seconds
- 1 minute
- 5 minutes

📷 Shooting menu

Photo Size

- 56 Mega Pixels

•48 Mega Pixels	•Economy
•30 Mega Pixels	**Sharpness**
•24 Mega Pixels	•Strong
•20 Mega Pixels	•Normal
•16 Mega Pixels	•Soft
12 Mega Pixels	**White balance**
• 8 Mega Pixels	•Auto
• 5 Mega Pixels	•Daylight
Photo Stabilization	•Cloudy
•OFF	•Tungsten
•ON	•Fluorescent
Time lapse	**ISO**
•OFF	•Auto
•ON	•100
Self-Timer	•200
•OFF	•400
•2S Timer	•800
•5S Timer	•1600
•10S Timer	**Exposure**
Color Filter	•+3.0
•Color Filter	•+2.0
•Black & White	•+1.0
•Sepia	•+0.0
Photo Burst	•-1.0
•OFF	•-2.0
•3 photos per shot	•-3.0
Quality	**Face Detection**
•Fine	•OFF
•Normal	•ON

Metering

· Average

· Center-Weighted

· Spot

Scene

· Auto

· Portrait

· Landscape

▶ **Playback**

Delete

· Delete Current

· Delete All

Protect

· Lock Current

· Unlock Current

· Lock All

· Unlock All

Slide show

· 2seconds

· 5seconds

· 8seconds

⊞ **Setup**

Date and Time

· ----/--/--   --:--

Date and Time Stamp

· Off

· Date and time

Auto Power Off

· Off

· 1Minute

· 2Minutes

· 3Minutes

· 5Minutes

· 10Minutes

Beep Sound

· Off

· On

Language

· English

· Français

· Españo

· Português

· Deutsch

· Italiano

· 简体中文

· 繁體中文

· Русский

· 日本語

Frequency

· 50Hz

· 60Hz

Format

· Cancel

· OK

Default Setting

· Cancel

· OK

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Precautions

AC Adaptor
Do not short-circuit the battery terminal with any metallic objects. This may cause a malfunction.

Playing back images with other devices.
You may not be able to play back images that were recorded on your camcorder with other devices normally. Also, you may not be able to play images recorded on other devices with your camcorder.

Recording and playback
 • Avoid rough handling, disassembling, modifying, physical shock, or impact such as hammering, dropping or stepping on the product. Be particularly careful with the lens.
 • To ensure stable operation of the memory card, it is recommended to format the memory card will erase all the data stored on it and the data will be irrecoverable. Save your important data on your PC, etc.
 • Confirm the direction of the memory card. If you forcibly insert the memory card in the wrong direction, the memory card, memory card slot, or image data may be damaged.
 • Before starting to record, test the recording function to make

• sure the image and sound are recorded without any problem. The camcorder is not dustproofed, dripproofed or waterproofed.
• Do not let your camcorder get wet, for example, from rain or sea water. If your camcorder gets wet, it may malfunction.
• Sometimes this malfunction cannot be repaired.
• Do not aim the camcorder at the sun or strong light. Doing so may cause your camcorder to malfunction.
• Do not use the camcorder on a sandy beach or anywhere dusty. Doing so may cause your camcorder to malfunction.
• If moisture condensation occurs, stop using the camcorder until moisture evaporates.
• Do not subject the camcorder to mechanical shock or vibration. If you do so, the camcorder may operate incorrectly or may not record
• images, In addition, the recording medium or recorded data may be damaged.

LCD monitor
The LCD monitor is manufactured using extremely high-precision technology, so over 99.99% of the pixels are operational for effective use. However, there may be some tiny black points and/or bright points(white, red, blue, or green in color) that appear constantly on the LCD monitor. These points are normal result of the manufacturing process and do not affect the recording in any way.

Other

IPS panel display
the IPS panel may experience
issues such as screen burn-in or
loss of brightness with normal
use over time. This not a
malfunction.

Camcorder temperature
The camcorder and battery pack
become warm during operation,
This is normal.

Specifications

image sensor	Sony CMOS
ISO	Auto, 100, 200, 400, 800, 1600
Storage	Support SD/SDHC card, Max.128GB(Class 6 or faster)
Lens	Fixed，F/2.6，f=7.0mm
Focus Range	0.5M ~ infinity
Photo	JPG 56M/48M/30M/24M/20M/16M/12M/8M/5M
Video format	MP4
Resolution	4K(30fps),2.7K(30fps),1080P(60fps),1080P(30fps),720P(60fps),720P(30fps)
Zoom	18X digital zoom
Anti-shake	Digital anti-shake
Face detection	Support
Voice	Support
Screen	3.0 inch IPS touch screen
IR light	< 1M
White balance	Auto/Daylight/Cloudy/Tungsten/Fluorescent
Exposure	-3.0EV ~ +3.0EV
Self time	Off、2s 、5s、10s
Frequency	50Hz、60Hz
Microphone	Built-in microphone and support external microphone
Auto power off	Off、1min、2mins、3mins 、5mins、10mins
Battery	NP-40 Li-ion battery
Size	126（L）×58（W）×59（H） mm
Weight	About 275±5g

4.2 Common problems and solutions

Problems	Possible Causes	Solutions
Unbootable	Not properly install the battery No power for the battery	Properly install the battery according to the manualCharge the battery
Suddenly shout down	Opened power saving function No power for the battery	Repeatedly open power supply Exchange the new battery
The photos or videos can not be saved	Interrupt power before saving	When the battery indicator become red, immediately exchange the new battery or charge the battery
Automatically turned off when shooting	No power for the battery	Exchange the new battery or charge the battery
Ambiguously focusing	Out of focus range	Shooting in focus range
Memory card can not be used	Protected memory card Error document format Damage memory card	Release memory card protection Format memory card Exchange the qualified memory card
Inaction all buttons	Short circuit in connection of the machine and the other device	Repeatedly check the connecting circuit, take out the battery and repeatedly open the machine

FCC Caution:

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

(2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.