

User manual

4K OPTICAL VIDEO CAMERA

Overview

Thank you for purchasing this portable digital video camera, this camera features video recording at 4K. With resolution of 2880*2160, it adopted Sony 1/3-inch image sensor,H.264 video encoding format, the video file storage usage is small while it has high image quality!

You can connect your camera via Wi-Fi using your smart Phone remotely, to view the camera live screen and use your phone to record or shooting.

Safety Instructions

- Do not drop, impact or puncture the camera
- Do not expose the camera to high/low temperature, excessive dust, humidity or strong vibration, otherwise the product may be damaged.
- Do not use corrosive chemicals or solvents to clean the product
- Do not disassemble this camera or attempt to repair or modify it in any manner, if there is any damage to the camera, stop using the camera and return this product to the store where you have purchased it from, the product will be sent back to the company and fix.

Cautions

- Keep children away from the product, accessories and its packaging materials, it may cause suffocation.
- Do not put the product in a fire, otherwise it may cause an explosion.
- Remove the battery if the camera is not going to be used for long periods, and please fully-charged the battery before using it again.

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Getting to Know Your Camera

Standard Accessories

4K Ultra HD Camera

Battery

Charger

USB Cable

DV Pouch

Infrared remote control

HDMI Cable

User Manual

Warranty Card

Charging the Battery

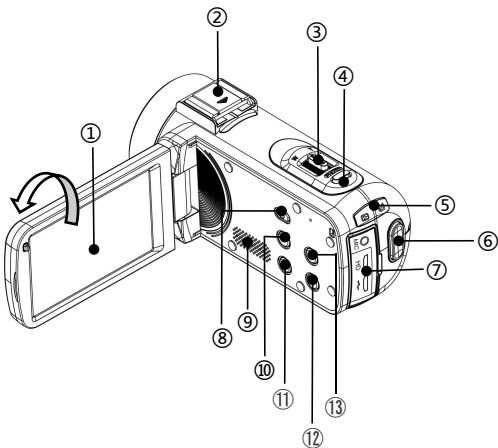
Before using the camera, you must load and charge the battery



Note: Insert the battery into the charger to charge it, the indicator light will be red when charging; The indicator light will turn green when the charging is completed.

Component Introduction

A.

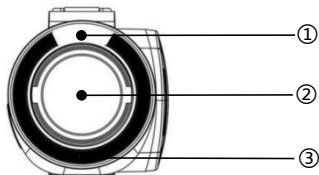


For the function description of the related parts in the above figure, please refer to the following table.

No.	Name	Function description
①	IPS Panel	Screen preview and video/photo playback. It supports 270° rotation.
②	Speaker	Back sounds and keystrokes.
③	Power Button	Power On/Off.

④	T/W Zoom Button	In video/Photo Mode, pull left/right to zoom in/out. It also can be "Options" button when choosing functions.
⑤	Photo Button	In photo mode, press to take photo. It also can be "OK" button when confirming functions.
⑥	Status Light	Charging indicator and working indicator.
⑦	Recording Button	1.Recording/stop video. 2.Stop playback when the video is Playing.
⑧	I/O Interface	MIC:Access to an external microphone; HDMI : External HD Cable to connect to TV; USB interface : Access the USB Cable to charge.
⑨	Mode Button	Press to enter the mode menu.
⑩	DISP Button	Press once to close the screen data display; Press twice to close the screen preview.
⑪	Mode Button	Press to enter the mode menu.
⑫	LED Light Switch	Press to turn on / off the LED light.
⑬	Built-in microphone	Recording sound.

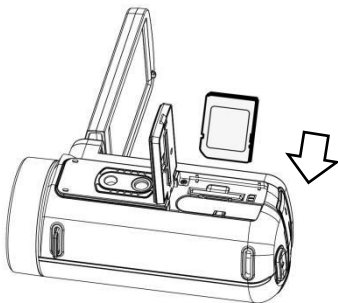
B.



For the function description of the related parts in the above figure, please refer to the following table.

No.	Name	Function description
①	LED light	Lighting assist.
②	Lens	Framing.
③	Infrared remote-control receiver	Receiving remote command.

Inserting an SD Card

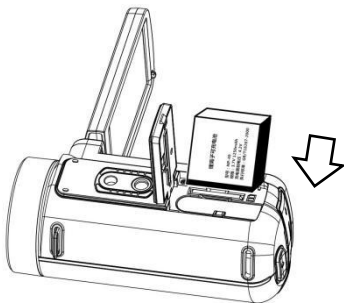


- 1.Open the Battery cover.
 - 2.Insert the memory card in the direction shown until you hear“Clicks”.
 - 3.Close the Battery cover.
- ※Open the Battery cover and press the memory card.

Note:

- 1.When using for the first time, format the SD card
On this unit. The SD card needs to be U1.
- 2.Do not forcefully remove the SD card while working,
otherwise it may cause loss of files or machine
damage.

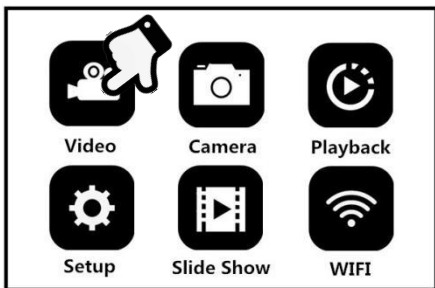
Loading Battery



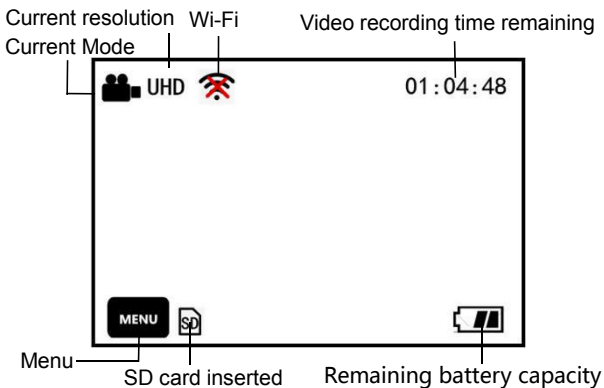
- 1.Open the Battery cover.
- 2.inserts a lithium battery.
- 3.Close the battery cover.

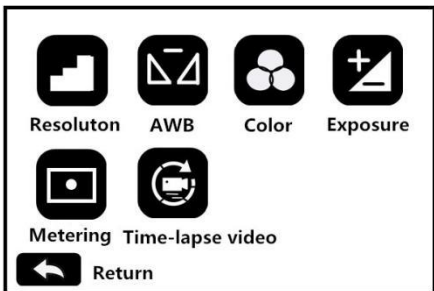
Getting Started

To turn on the camera, press the power button or turn on the screen. The camera will enter the main interface. Select “Mode” to enter the main interface of mode options.





Recording Mode



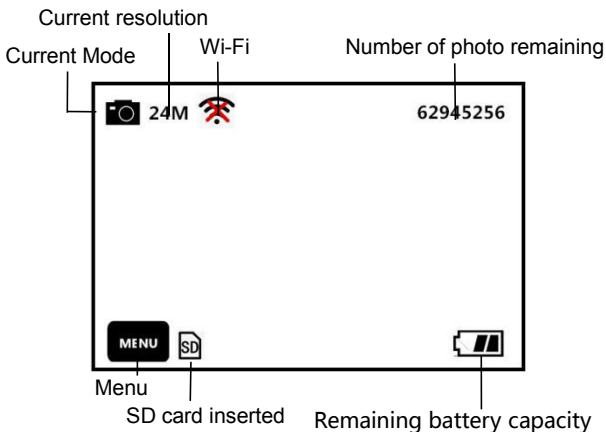


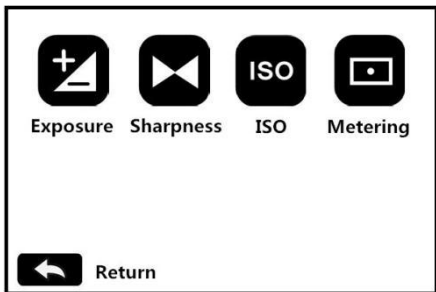
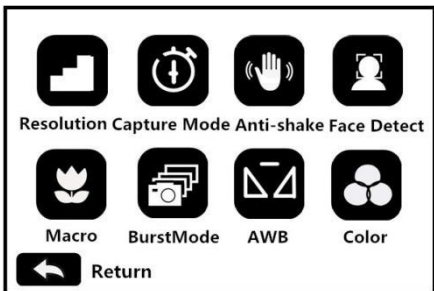
Name	Function Description
Resolution	Choose the resolution according to your needs.
AWB	Choose different white balance functions according to the environment: Auto, Daylight, Cloudy, Florescent, Tungsten.
Color	Choose different scene color according to your needs: Standard, Sepia, Monochrome, Vivid.
Exposure	Adjust the exposure value according to the environment : +3、 +2、 +1、 0、 -1、 -2、 -3。
Metering	Choose different metering modes according to your needs : Multi、 Center、 Spot.
Time-lapse Video	By selecting: off、 1 sec、 3 sec、 5 sec By using this function, you can compress a few minutes and several hours of video into a shorter video.

1. Select "Video"  in mode to enter the preview interface
2. By selecting "Menu"  to enter the menu, you can set Resolution, White-Balance, Exposure and other functions or parameters according to your needs.
3. Press the "Video" button to start recording. You can use the T/W zoom key to zoom in or out, and you can turn on/off the LED light during the recording process.
4. Press the "Photo" button to PAUSE recording.
5. Press the "Video" button again to STOP recording.
6. The recorded video will be saved to SD card in MP4 format.

Note : Menu cannot be opened during recording.



Photo Mode





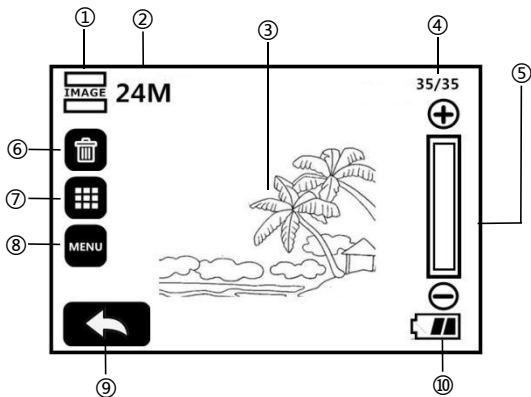
Name	Function Description
Resolution	Choose the resolution according to your needs.
Capture Mode	According to your needs, choose the 2s timer/ 5s timer/ 10s timer for Selfie.
Anti-Shake	This function can help to effectively reduce the image shake caused by vibration
Face Detect	This function can help to detect and focus on the face priority when shooting.

Macro	This function allows you to switch to Macro mode, the focusing distance is 0.1-1 M.
Burst Mode	By turning on this function, you can take three consecutive photos.
AWB	Choose different white balance functions according to the environment: Auto, Daylight, Cloudy, Florescent, Tungsten
Color	Choose different scene color according to your needs: Standard, Sepia, Monochrome, Vivid
Exposure	Adjust the exposure value according to the environment : +3、 +2、 +1、 0、 -1、 -2、 -3。
Sharpness	Choose according to your needs: Soft, Standard, and Sharp
ISO	Choose according to your needs: Auto, 100, 200, 400 ISO values
Metering	Choose different metering modes according to your needs : AIAE(Average)、 Centre-Weighted Average、 Spot

- 1.Select “Photo”  in mode to enter the preview interface
- 2.By selecting “Menu”  to enter the menu, you can set Resolution, Capture Mode, Anti-Shake and other functions or parameters according to your needs.
- 3.Press the “Photo” button, when hear a “Click” sound, the photo is complete
- 4.Photos will be saved to SD card in JPEG format.









Playback

To play back recorded videos and photos on the camera




No.	Function description
①	Current file type
②	Current resolution
③	Current photo/video preview
④	Number of photo and video files
⑤	Photo zoom indicator bar
⑥	To delete current photo/video
⑦	Photo/video thumbnail preview



⑧	Menu
⑨	Return to the main interface of mode options
⑩	Remaining battery capacity

1. Select "Playback"  in the mode options to enter playback mode
2. Use "T/W" zoom key to switch the file preview, click  to switch to the thumbnail preview mode. Click  to delete current photo/video
3. When browsing photos, click  or  to zoom in or out.
4. When playing video: Click  or the "Photo" button to start/pause. Use the "T/W" zoom key to adjust the volume. To stop the playback, press the "Video" button.
5. Delete: Click  or "Menu" to enter the Delete/Protect mode. When click "Delete", you can: "Delete current file" / "Delete all files" / Cancel
6. Protect mode: Click  to enter the Delete / Protect mode. Click "Protect" to "Lock Current file" / "Unlock Current file" / "Lock all files" / Unlock all files"

Slide show

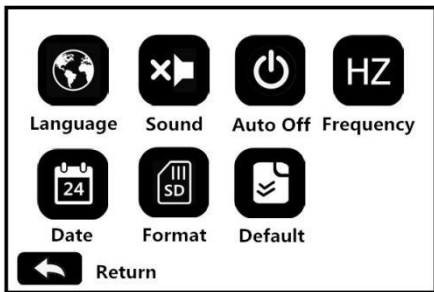
1. Click  "Slideshow" on the mode selection to enter the

photo/video preview interface.

2. Click  or “Menu to select “3 sec”/ 5 sec”/ 10 sec” playback interval
3. Click  to start the slide show”
4. Press the “Photo” button to stop playing.

Setting

Through this setting menu, you can customize the functions and parameters such as language, date, frequency, etc.

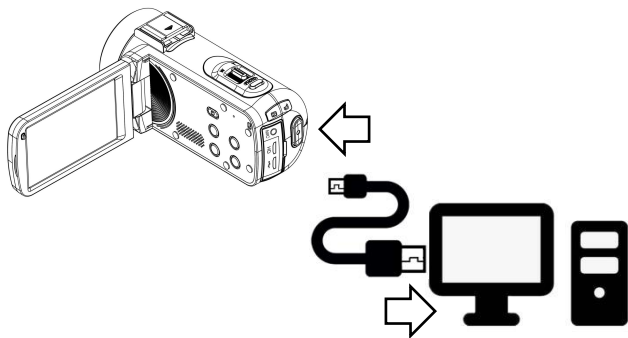


Name	Function Description
Language	Support 13 languages including Chinese, English, German, French and Japanese
Sound	Turn on/off the key press sound
Auto Off	By selecting: None / 3 mins / 5 mins/ 10 mins, when the camera's standby time

	reaches the specified time, it will automatically shut down.
Frequency	Different countries have different grid frequencies.
Date	on/off watermark, custom date and time
Format	This function allows you to format the memory card.
Default	This function can restore the camera to the default settings

Connecting to the Computer

This function allows you to use your camera as a MSDC disk or PC Camera



MSDC Mode

1. Power on the camera and enter the standby mode.

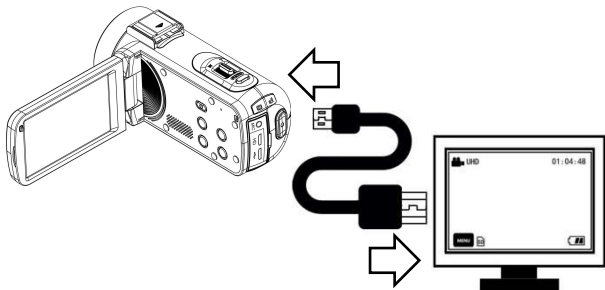
- 2.Connect the camera and computer with the cable.
- 3.The screen will display two options: “MDSC”and “PC Camera”.
- 4.Select the “MSDC ” by“T/W Zoom Button” .
- 5.Press “Photo Button” to confirm.

PC Camera Mode

- 1.Power on the camera and enter the standby mode.
- 2.Connect the camera and computer with the cable.
- 3.The screen will display two options: “MDSC”and “PC Camera”.
- 4.Select the “PC Camera ”by “T/W Zoom Button” .
- 5.Press “Photo Button” to confirm.

Connecting to TV

When connect the HDMI to your camera’s HDMI output and your TV, the image on your screen can also be displayed on your TV screen.



1. Press the power button or open the screen to turn on the camera and enter the standby state.
2. Take out the HDM cable and connect the camera with the HDMI connector of the TV.
3. Turn the TV to the HDMI channel, the preview screen will appears on the TV.

APP Using

This function can be connected with mobile app through local Wi Fi function to realize remote preview, video recording, photographing, downloading and other operations


APP Downloading

For Android: Search “**D Video**” in Play store and download
For IOS: Search “**D Video**” in App store and download.
Or scan the QR Code to download the APP.



APP Connecting

1. Press the power button or open the screen to turn on the camera, Press "Mode Button" to enter the mode menu, and

Touch  to enter the main interface of the WiFi mode.

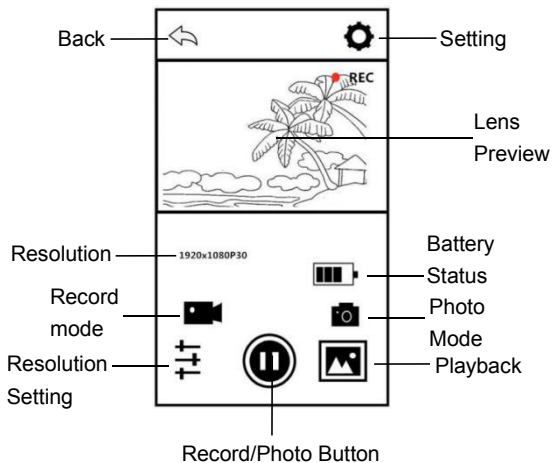
2. Open your phone and open the Wi-Fi search the name with **HDVxxxxxx**, Enter the password : **12345678** .



3. Enter the APP, touch " **Camera**".






Note:The Wi-Fi function is a point-to-point wireless connection with a limited distance. The maximum distance is about 10 meters. Please use this function within the effective distance.





App Functions

You can remote control the camera to record, photo taking, playback and parameter setting on the APP

APP Video Mode


1. Touch the  on the App user interface to enter the Video mode.
2. Touch the  icon , "REC" will be displayed at the top Right of the interface and flashes on the live preview., Start recording.
3. Touch the  icon again, Stop recording.

APP Photo Mode

- 1.Touch the  on the App user interface to enter the Photo mode.
- 2.Press the  icon in live preview mode,the app will sound "**click**".
- 3.Finished.

APP Setting

This setting function allows you to customize the parameters of the camera, such as the resolution, audio recording, and date

Press the  on the App user interface to enter the Setting menu.





Video Setting	Resolution	640*480P30 1280*720P120 1920*1080P60 2560*1440P30
	Cyclic Record	Off/3Mins/5Mins/10Mins
Photo Setting	Photo Size	28M/24M/20M/16M/12M/ 10M/7MHD/5M/3M/2MH D/VGA
	Exposure	+3.0/+2.0/+1.0/0.0/-1.0/ -2.0/-3.0
Other Setting	Motion detection	Auto/Day/Cloudy/Fluore cent/Tungsten light
	Wi-Fi setting	ID/Password

	Format	YES/NO
	Surplus Space	View the storage of camera
	Firmware Version	Camera Version


APP Play Back

Through this function, the recorded video and photos can be played online on the APP and downloaded to the phone.


A.Photo

1. Press the  on the App user interface to enter the Play Back mode.
2. In the main interface of the playback, select "Photo" to enter the thumbnail preview interface.
3. Select anyone of the document thumbnail to play.
4. Touch  in the upper right corner to select any file you want to  delete or  download to the local album.

B.Video

1. Press the  on the App user interface to enter the Play Back mode.
2. In the main interface of the playback, select "Video" to enter the thumbnail preview interface.

3. Select any one of the document thumbnail to play.

4. Touch  in the upper right corner to select any file you


want to  delete or  download to the local album.


C. Album



1. Press  on the main interface to enter the local album.

2. In the main interface of the playback, select "Video" or "Photo" to enter the thumbnail preview interface.

3. Select any one of the document thumbnail to play, 

delete or  share it to the social media by touching.

Technical Parameters

Sensor	5.0MP CMOS
Aperture	F : 2.8
Lens	F=4.95 ~ 49.5mm
Focus Range	Standard:1.5m ~ infinity Macro:0.1-1m
Lens Type	Optical zoom lens
Zoom	10X
External Storage	Support SD Card(U1) , Maximum 128GB
Screen	3.1-inch IPS Touch Screen
File format	Video:MP4 Photo:JPEG
Video Resolution	4K(UHD) :2880*2160 24fps 2K(QHD):2560*1440 30fps FHD :1920*1080 60fps HD :1280*720 120fps VGA :640*480 30fps
Photo Resolution	24M(5600*4200)/20M(5200*3900) 16M(4640*3840)/12M(4032*3024) 10M(3648*2736)/7MHD(3648*2052) 5M(2592*1944)/3M(2048*1536) 2MHD(1920*1080)/VGA(640*480)
ISO	Auto/100/200/400
Wi-Fi	Support
LED Light	Yes
Hot Shoe	Support external Microphone/LED light

USB Port	USB2.0 : DC IN
Lens Caliber	M=37mm
Speaker	Built-in
Microphone	Built-in
Battery	NP-40 Li-ion battery
Working Temperature	0 ~ 40 °C

Troubleshooting

Trouble	Possible reason	Solution
Cannot power on	Battery is not inserted correctly/dead	Insert battery correctly/Charge
Unclear Focus	Out of focus range / lens dirty	Shooting in focus able range/Clean the lens
Unable to use memory card/unable to record	Card damage / SD card does not meet requirement	Replace the SD card / Format the SD Card / Use the U1 Card
Fail to use it as a PC Cam	USB Cable is loose / Computer system version is not compatible	Replace the USB interface / Select a compatible system

FCC Statement

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.

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.