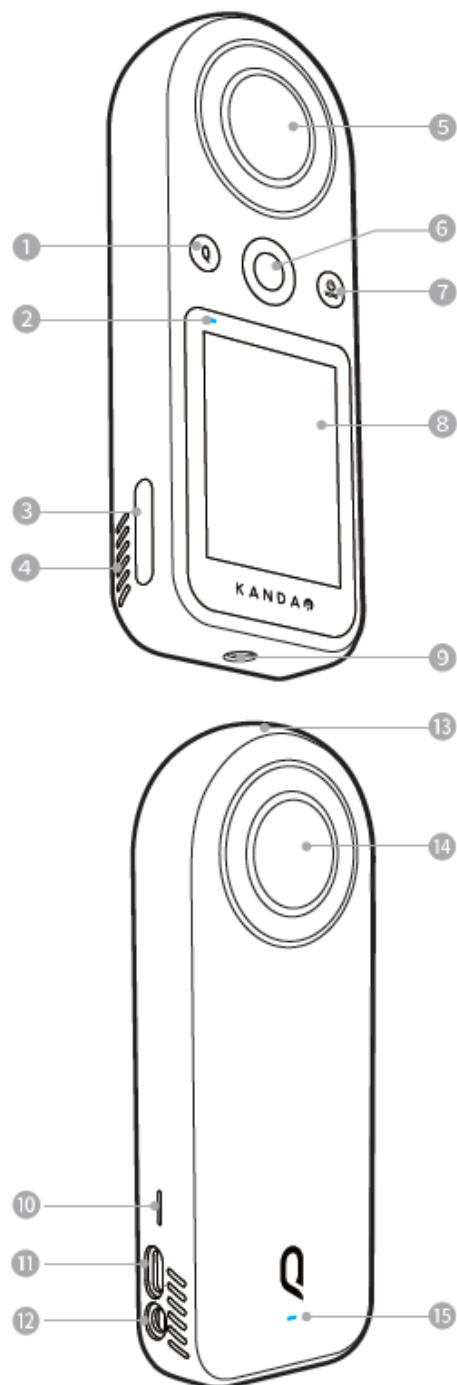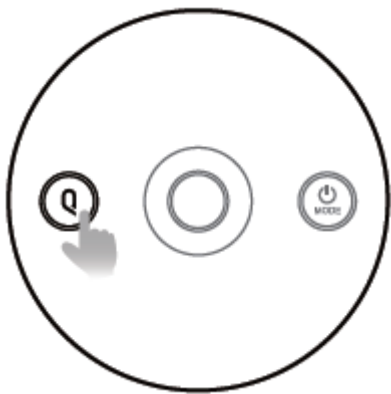# QooCam 8K

Overview

1. Q button
2. Status indicator 2
3. MicroSD card slot
4. Vents
5. Lens 2
6. Shutter button
7. Power button
8. Touch screen
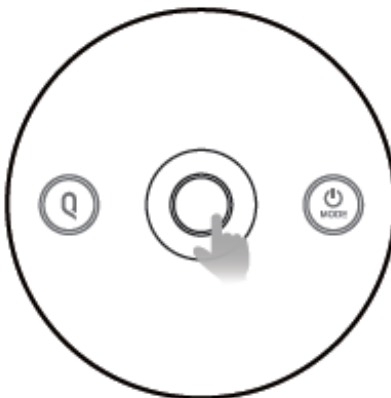9. 1/4 Threaded hole

10. Speaker
11. USB-C connector
12. 3.5 mm audio port
13. Microphone
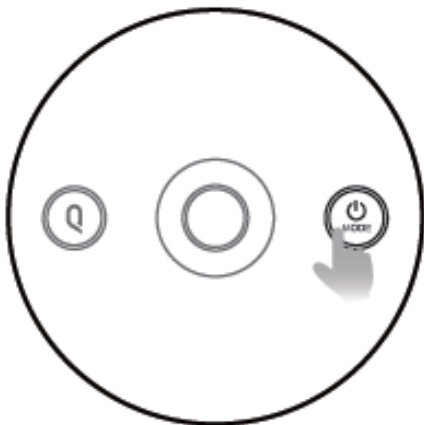14. Lens
15. Status indicator

Button features

Q Button
When QooCam 8K is idle while turned on, press the button to quickly switch between custom settings.

Shutter Button
When QooCam 8K is turned on, press the shutter button to take photos or start/stop recording.

Power button
When QooCam 8K is turned off, press and hold the power button for 2 s to turn it on;
When QooCam 8K is turned on, press and hold the power button for 2 s to turn it off;

Touchscreen
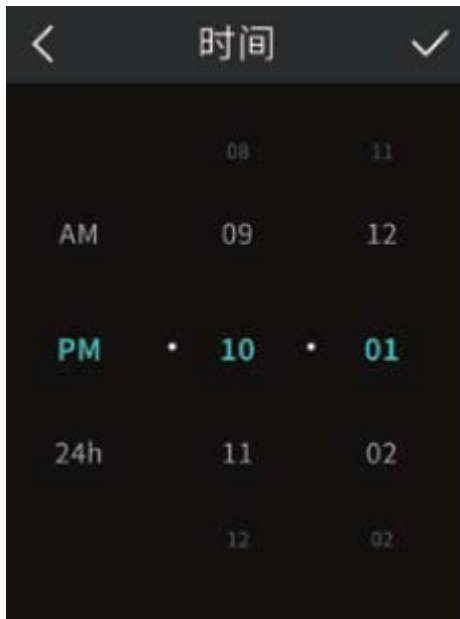
General Setting: Date/Time
The camera date and time information is recorded on the file along with the image, so be sure to set it correctly before use.

Select language,
then click „ ✔ "

Set current date,
then click „ ✔ "

Set current time,
then click „ ✔ "
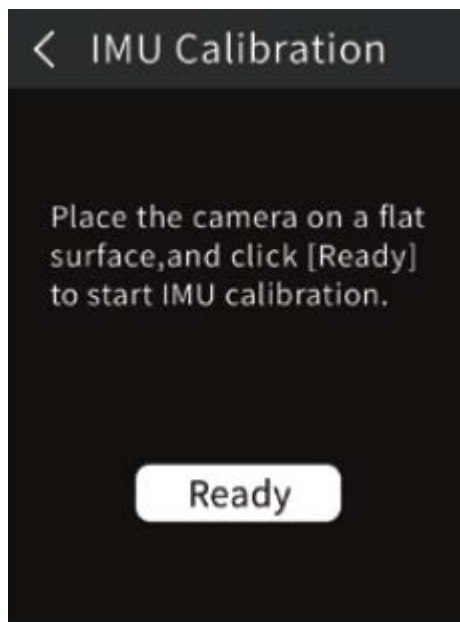
Download QooCam APP
Make sure the picture is
horizontal. Place the camera
on a flat surface and click
[Ready] to start IMU calibration.

Download QooCam APP,
then click „ ✔ "save settings
and exit

Operating the Touchscreen

Swipe down to enter the [Camera settings] menu
Include Custom Template Management, Wi-Fi Switch, Volume/Brightness Adjustments, and more.

Swipe right to enter [Playback]
Swipe left or right to scroll through photos and videos. Preview page will display shooting parameters. You can delete files or view photos/videos by category.

Swipe left to enter [Switch Shooting Mode]
Quickly switch between the following shooting modes: Photo/Video/Time-lapse/DNG 8/Custom 1/2/3/4 Shooting template.

Swipe up to enter the [Parameter Settings] of the current shooting mode
Set exposure mode, Resolution/frame rate, file format, white balance, self-time/interval time, and more.
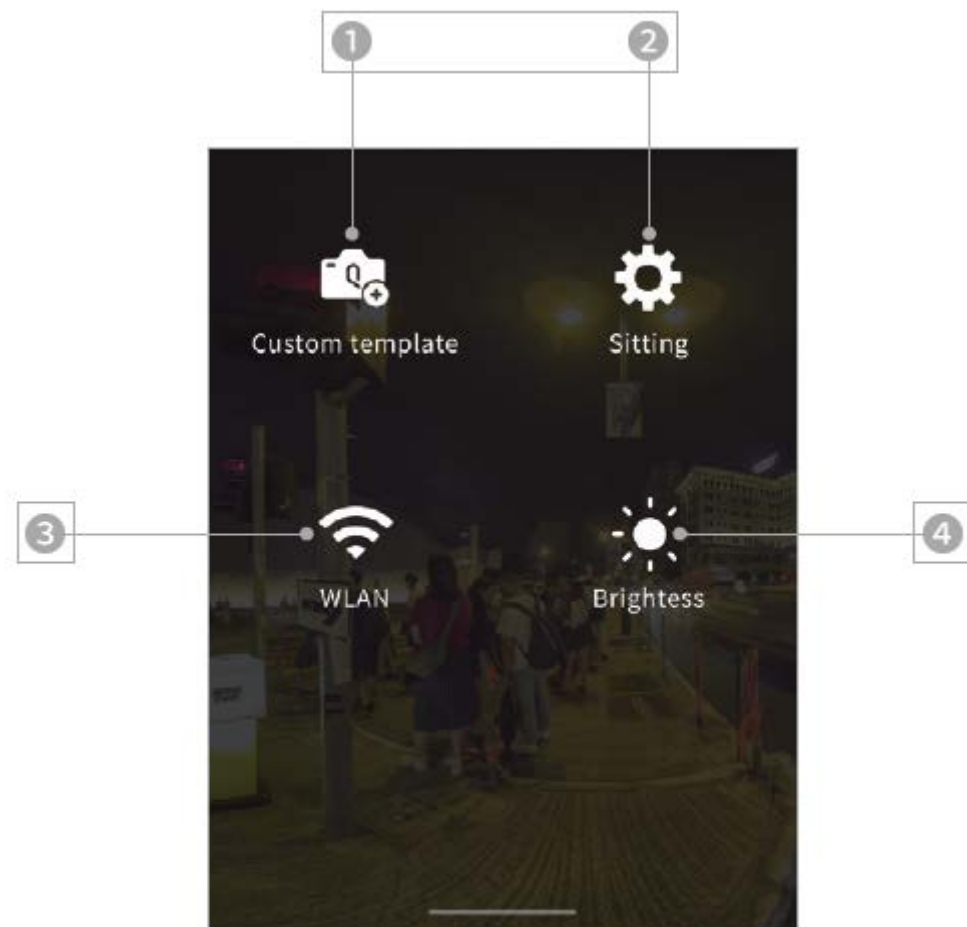
Swipe left/right/up/down to drag and preview 360 ° panorama.

1. Memory capacity remaining

2. Current shooting mode

3. Wi-fi connection

4. Remaining battery

5. Camera parameters of the current shooting mode

Camera settings

Swipe down to enter the [Camera Settings] menu

1. Custom template management
Click again to save the current shooting parameters as a custom mode. You can save up to 4 custom modes. Short press the Q button to switch between the custom modes.
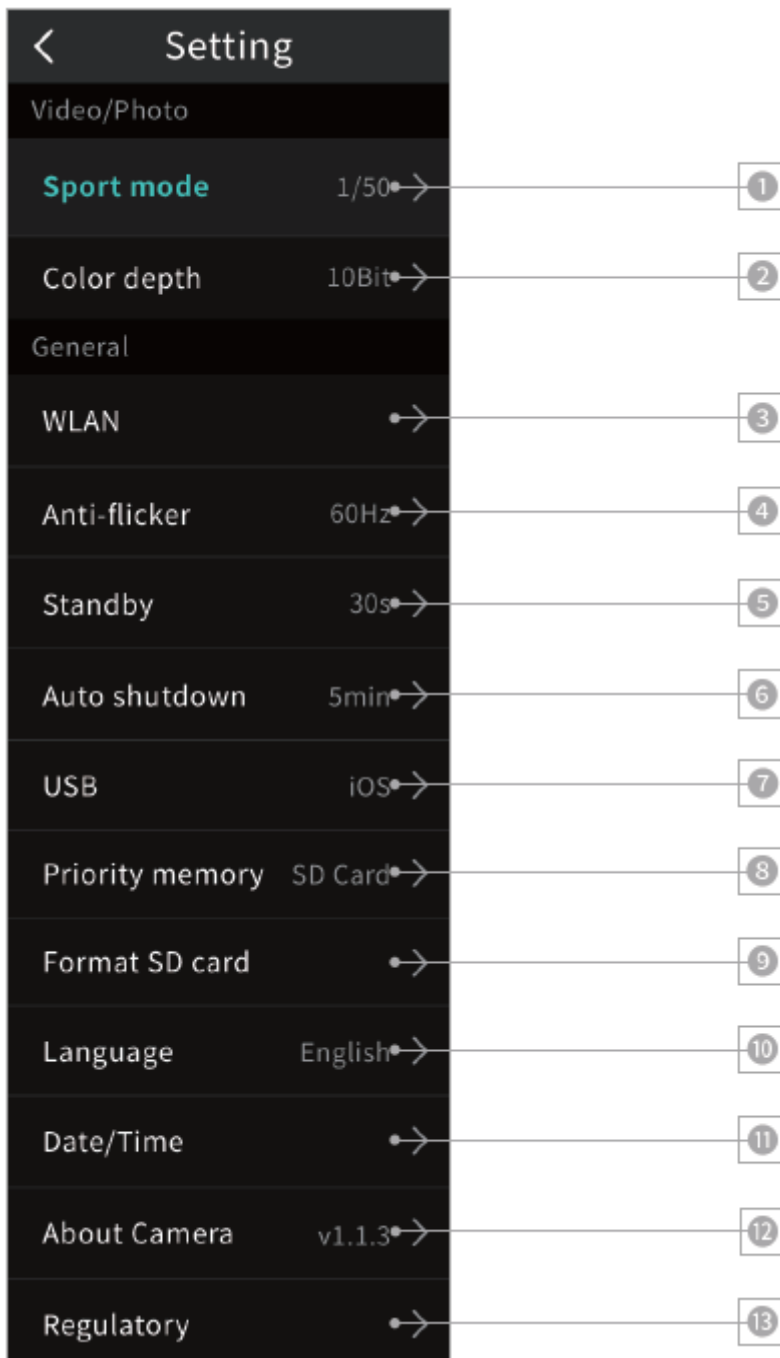**2. More settings**
Language, date, etc.
3. Brightness
After clicking the icon, move the slider to adjust the brightness.
4. Wi-Fi Switch
Off by default, short press the icon to turn on. Long press the icon to jump to Wi-fi management, display the QR code generated by SSID and password, and use QooCam APP scan code to quickly connect to Wi-fi.

More Settings

Setting		
Video/Photo		
Sport mode	1/50 →	①
Color depth	10Bit →	②
General		
WLAN	→	③
Anti-flicker	60Hz →	④
Standby	30s →	⑤
Auto shutdown	5min →	⑥
USB	iOS →	⑦
Priority memory	SD Card →	⑧
Format SD card	→	⑨
Language	English →	⑩
Date/Time	→	⑪
About Camera	v1.1.3 →	⑫
Regulatory	→	⑬

1. Sports mode: Motion blur reduction.
2. Color depth: 8bit by default, 10bit is also provided.
3. Wireless connection: View device name and password, set Wi-fi band, reset connection and SSID and wi-fi password.
4. Anti-flicker: Prevent the flickering of lights by selecting the frequency according to the local regulations.
5. Standby: Set the automatic standby time when there is no operation.

6. Auto power off time: Set the time before camera automatically turns off.

7. USB drive mode: When the camera is connected via. USB cable, depending on the platform (Android/ Ios/ PC); iOS by default

8. Preffered Memory: Set the storage location of the current photo/video

9. Format: Tap to format SD card.

10. Language: Set the language to English, Simplified Chinese, Traditional Chinese, Japanese.

11. Date/time: Set the date and time.

12. About: Tap to view device name, firmware version, SN code.

13. Regulatory info: The camera's authentication information.
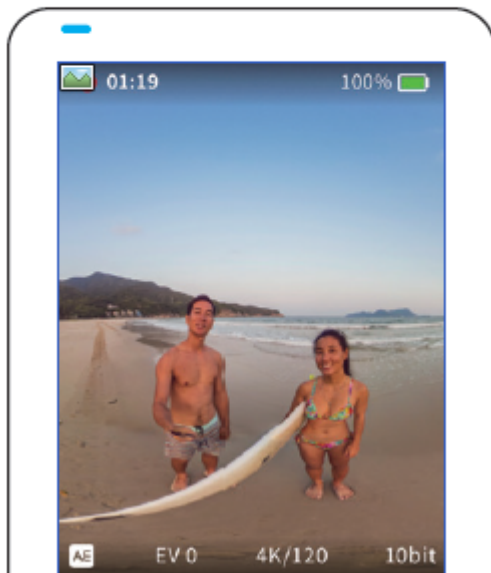
Shooting and parameters adjustment
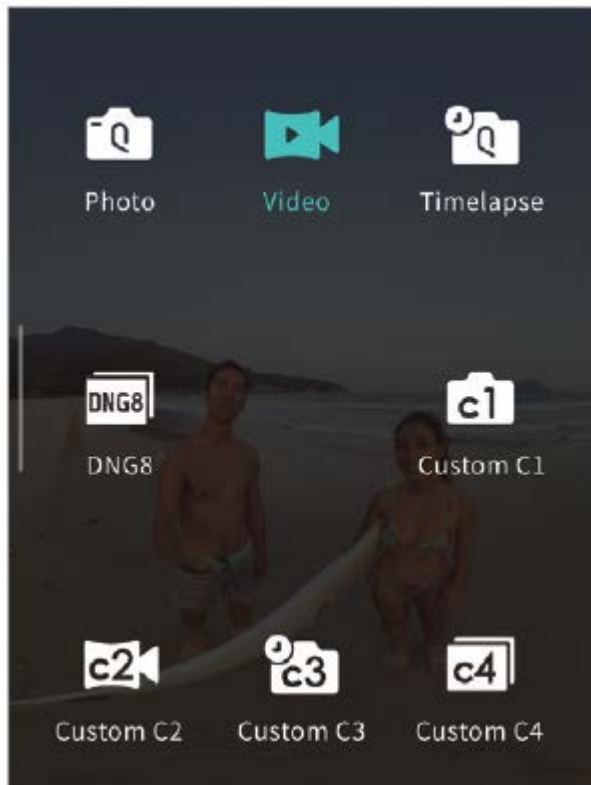
Swipe left and tap the icon to select the shooting mode.

Then, swipe up to set the shooting parameters in the current shooting mode.


Then, press the shutter button to start shooting.

When recording, the blue indicator light flashes slowly/ the touchscreen displays the current recording time.

When taking a picture, the blue indicator flashes

During shooting, touchscreen and Q button are not supported.

| Shooting mode	Parameter setting range
Video	Resolution / frame rate, exposure mode, white balance
Photo	Exposure mode (auto EV, manual ISO/shutter speed, sports EV), white balance, countdown, file format (JPG, JPG+DNG)
Time-lapse (photo)	Exposure mode (auto EV, manual ISO/shutter speed, sports EV), white balance, countdown, file format (JPG, JPG+DNG)
DNG-8	Exposure mode (auto EV, manual ISO/shutter speed, sports EV), white balance, self-time, file format
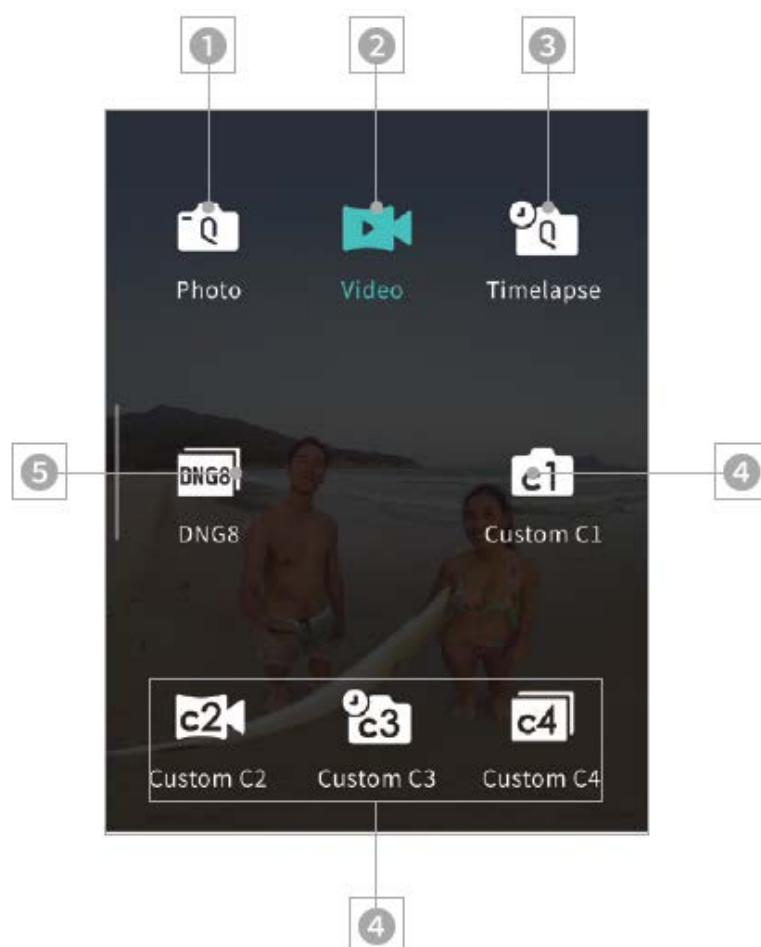
1. Photo
2. Video
3. Time-lapse-photo
4. DNG 8
5. Customized mode

Playback
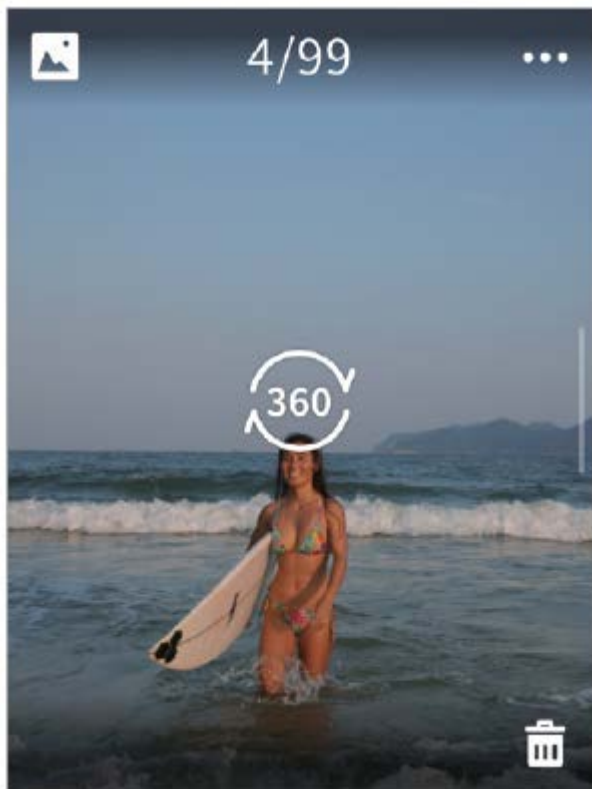
Swipe right to enter [Playback], click 360 to view photos/videos by category.
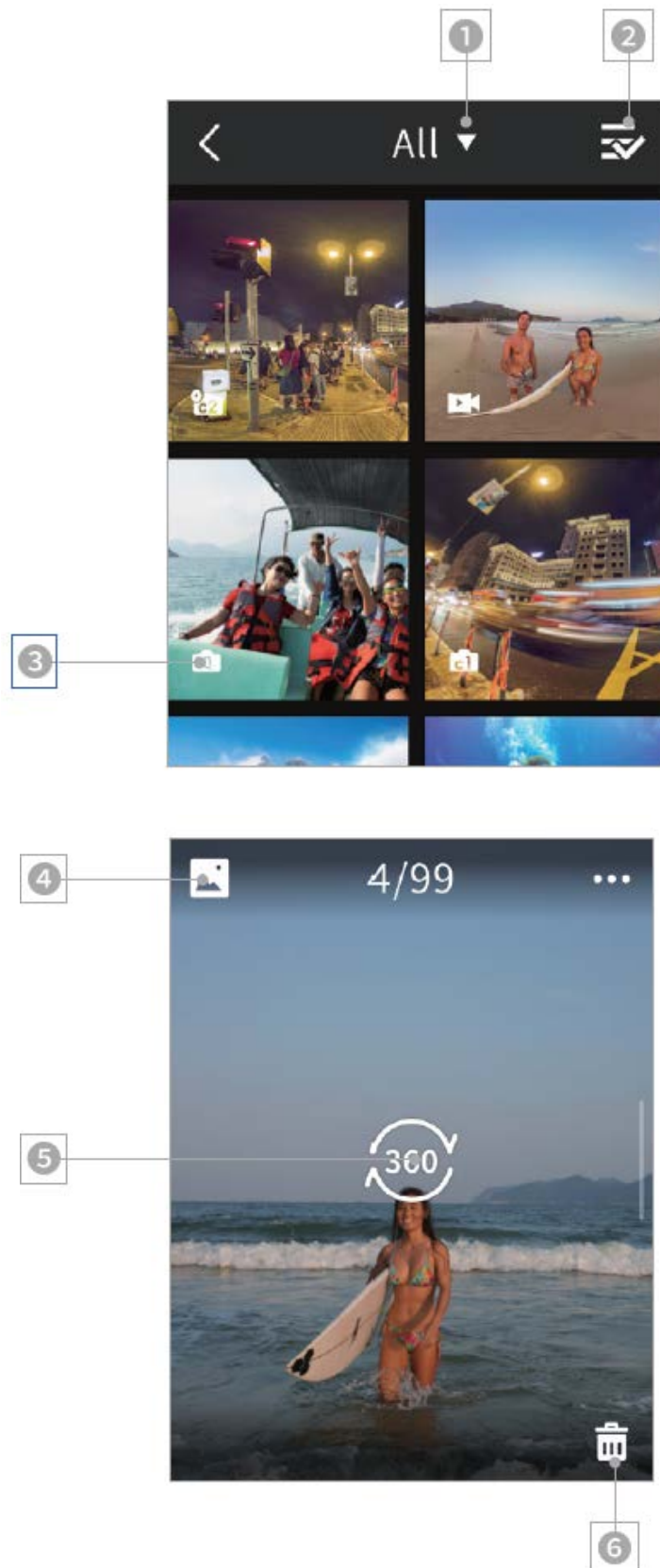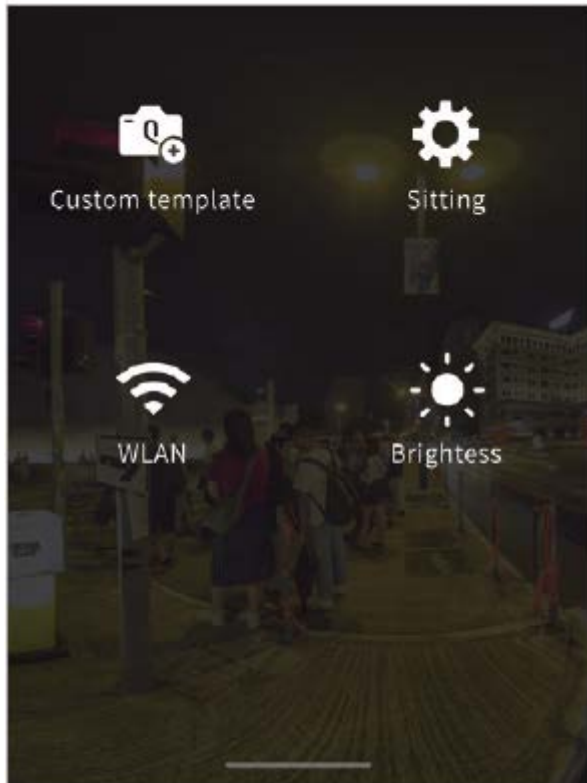
1. View photo/ Video/ All
2. Multiple choice
3. Shooting mode

4. Enter the playback list

5. Click to view the panorama

6. Delete

Connect QooCam APP

Method 1: Wi-fi connection

In the touchscreen drop-down list, click the wi-fi button in the lower left corner to turn on wi-fi. The button will be highlighted.

Method 2: Scan code connection
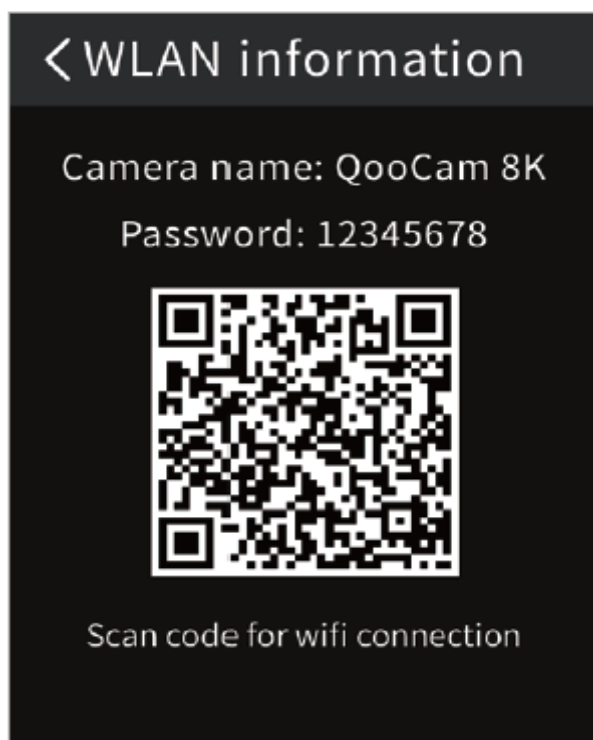
Press and hold the wi-fi button in the touchscreen drop-down list or view wlan info in settings to display the QR code below.

Open the QooCam APP and ensure that phone's wi-fi is turned on, scan the QR code of the camera's touchscreen, and quickly connect the camera.

Method 3: Wired connection

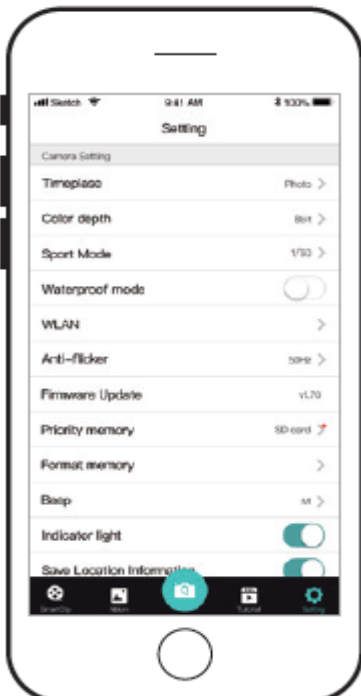Connect the camera to the phone using the USB cable provided, the phone will automatically jump to the QooCam APP preview page.

QooCam APP Shooting and playback

Click the settings button to set the shooting parameters in the current shooting mode.
Slide left and right to switch shooting mode (Photo, video, time-lapse)

Camera settings includes stabilization, firmware version, camera sound, and APP settings.

Go to the camera album and click on the thumbnail to playback (preview resolution). Download the clip from the camera album to the APP album for full resolution playback.

Edit: QooCam APP

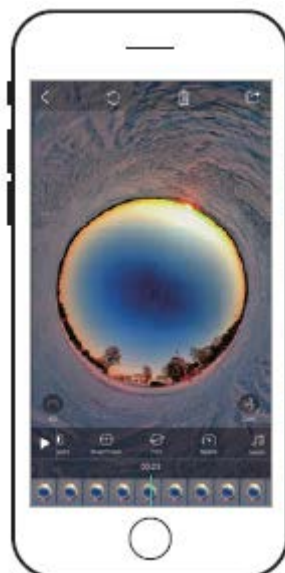Enter the APP album list, select a photo/video and start editing

Photo editing: Add filters, change photo to panoramic video, etc.

Video editing: add key points, video, shifting, video clipping, etc.

Refer to APP-tutorial for details.

Export flat video, which is edited with key points/speed/filters/clip.

Export 360 panoramic video

Note: The panoramic video is unedited video. The features of key frames, filters, shifting, etc. will not work.
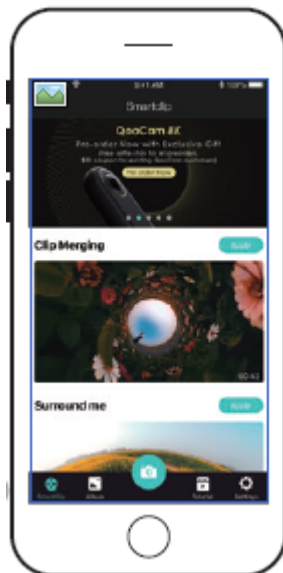
SmartClip

Go shooting: Shoot footage with the camera, and then download and export edited footage automatically.

Create now: Choose the footage from the APP album, import to the SmartClip template for editing, and export edited footage automatically.

8K Express edit

After shooting a video in 8K resolution, select to download the footage to the APP album, it will automatically generate a 4K proxy video in the app for editing.

Edit the proxy video in the QooCam APP and click Share icon;

It will pop up the "Share super high quality video" button, click it, turn on the camera and connect it to the phone.

The edit of the 4K proxy video will be applied to the corresponding 8K source footage of the camera, and then the app will export a super high quality video.
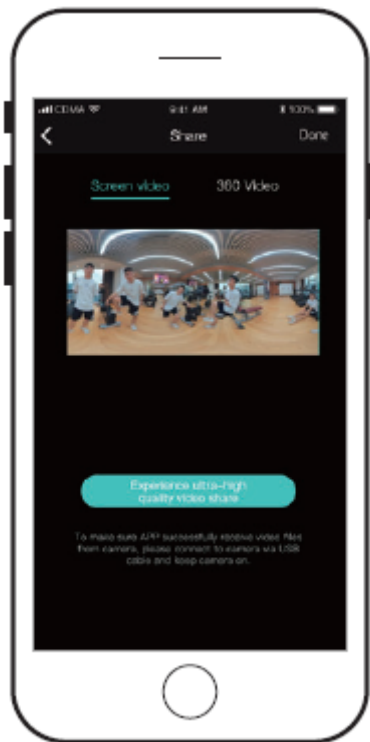
Note: in this process, please make sure the camera is turned on and connected to the phone.

Charging and Expanding Storage

Charging
1. Connect the camera to a USB adapter via USB-C to USB-A cable; a PD charger with a charging current of 3A or above is recommended...
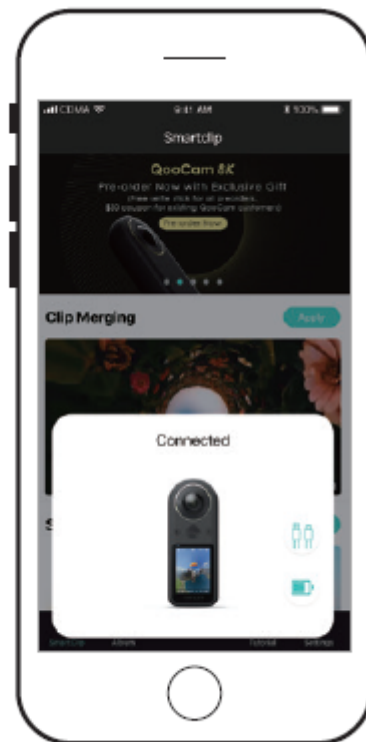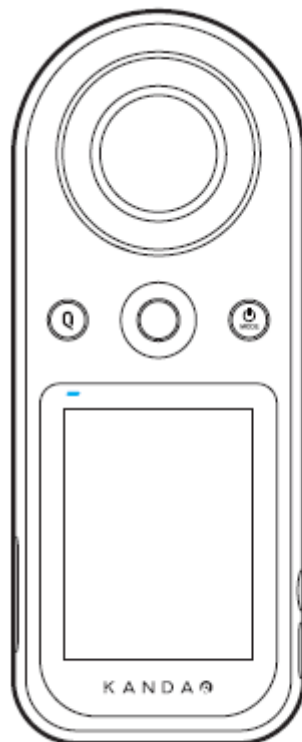2. During charging, the status indicators are solid red. When the battery is fully charged, they turn off.

Note:
It's recommended to turn off the camera during charging
Supports shooting during charging
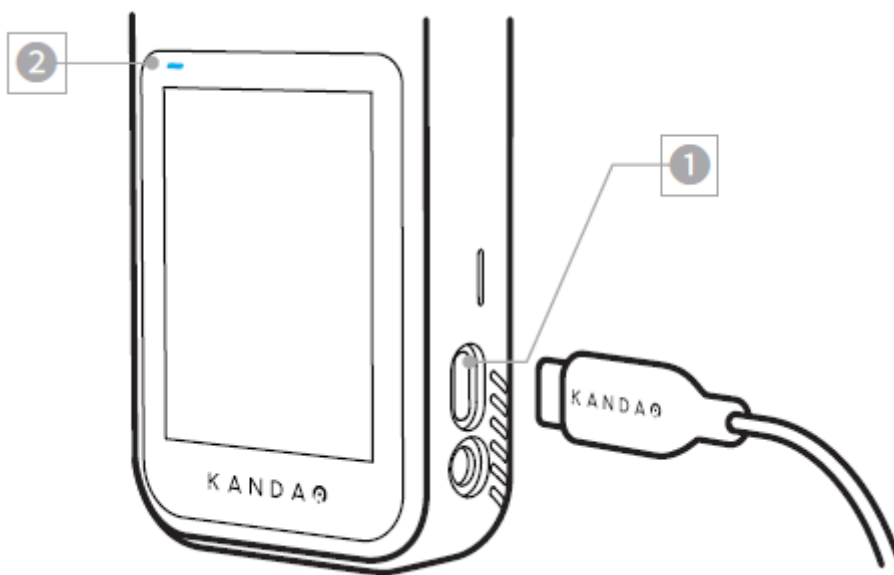
Expand storage

QooCam 8K has built-in 64 Gb highspeed storage, it also supports external SD card up to 256 Gb (U3 Card is recommended).
Note:
You can format SD card through the touchscreen [Camera Menu – More Settings - Format]
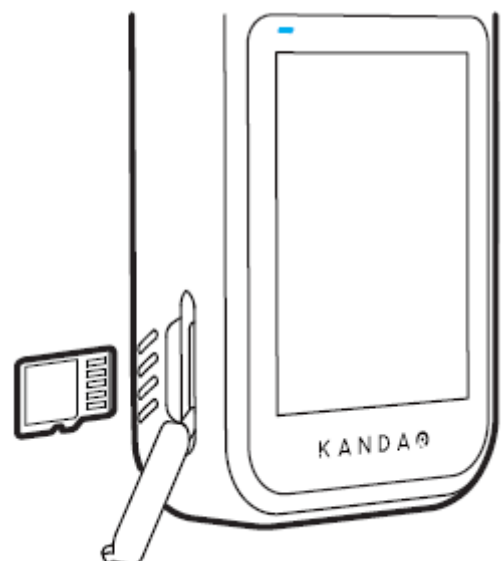
Status LED Description

There are two statues LEDs on QooCam 8K.

Instructions	LED status
QooCam 8K is turning on	Solid red
QooCam 8K is turned on	Solid blue
Charging	When QooCam 8K is turned off, solid red When QooCam 8K is turned on, solid pink
Charging complete	Off
Ready to use	Solid blue
While taking photo	Blue light is temporarily off
While recording a video	Blue light blinks slowly
Time-lapse photo/countdown photo	After triggering the shooting, blue light blinks slowly
Shooting complet	Solid blue
Firmware upgrade	Blue light blinks quickly
Full memory	Blue light blinks quickly
Low battery level warning	Red light blinks quickly
SD card is abnormal	
Storage error	
High temperature warning	

Camera Firmware Update
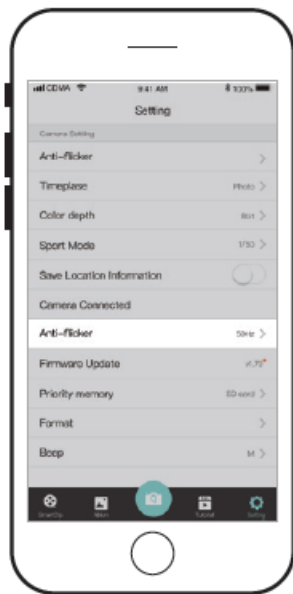
Using QooCam APP

There will be an update reminder in App when cell phone's connected via Wi-fi or cable to the camera. Reminder will find latest FW updates. Please follow the steps below to update.

Note:

Ensure the battery level of the cam is over 30 % when updating

Do not operate the camera during the upgrading process.
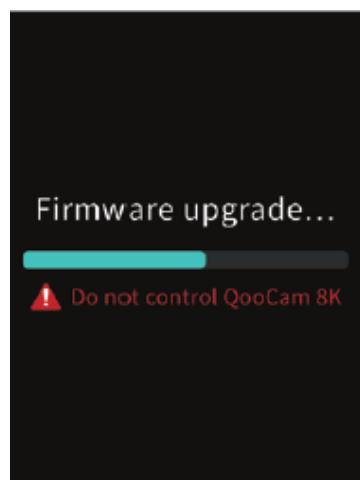
Screen status

The interface will turn black and there will be a progress bar that shows the update status. The camera will automatically restart after updating is completed.

Status indicators

The blue light flashes quickly during the update process, the camera will automatically restart after the update is completed.

For more information
Scan and get QooCam APP, QooCam Studio,
firmware update guide
https://www.kandaovr.com/download/

Scan and get tutorials

https://www.kandaovr.com/user-guide/

Camera specifications

Basic specifications	
Lens	F2.0, FOV：200°
Sensor	1/1.7" CMOS,20MP
Video resolution	7680*3840@30fps 8/10bit 3840*1920@120fps 8/10bit
Photo resolution	7680*3840, 12bitRAW,
Video format	MP4
Photo format	JPG、DNG
Audio format	PCM
Video Encode	H.264, H.265
Max. Bitrate (video output)	200Mbps
IMU	6-axis IMU
Touchscreen	2.4-inch colorful touch screen

Photo/video recording	
Photo	Still image, Timed photos, DNG 8, Time lapse photo
Video	Video, Slow motion, Sports mode
Live streaming	4K 360° Live
EV	-2EV ~ +2EV
Exposure mode	EV (auto): -2EV ~ +2EV Photo: 1/6400s-60s DNG 8: 1/6400s-1s 30fps：1/6400s-1/30s 60fps：1/6400s-1/60s 120fps：1/6400s-1/120s ISO: 100-6400 Sports Mode: There are two choices to control the maximum shutter time:Mode 1, Mode 2 For 50Hz, Mode 1 is 1/50s, Mode 2 is 1/100s For 60Hz, Mode 1 is 1/60s, Mode 2 is 1/120s Motion EV: -2EV ~ +2EV
White balance	AWB, Fluorescent, Incandescent, Cloudy, Daylight

Specifications

Design	
Color	Black
Weight	245 g
Dimension	145 mm * 57 mm * 33 mm

Storage and connection	
Wi-fi	2.4G/5G
External interface	USB-C
Storage	Built-in EMMC64GB
External SD Card	Micro SD card (max.256 GB), suggested U3
Microphone	Built-in Microphone
Line-in	3.5mm

Battery	
Battery capacity	3000 mAh
Charging method	USB-PD 2.0 Fast Charge with 3 A or above is commended
Duration	When recording 8K@30FPS or 4K@120fps video, Approx. 90mins
Operation temperature	0℃～35℃

Disclaimer

Statement

1. Please read these instructions.
2. Please pay attention to all warnings.
3. Please follow all instructions.
4. Never operate the device near heat sources such as radiators, heaters, stoves, or other heat generating equipment.
5. Only use accessories and parts specified and provided by the manufacturer.
6. All maintenance should be conducted by the qualified personnel. Repairs are required in case of any types of damage to the device, for example: power cord, plug damage, liquid or object falling into the device, device getting wet in the rain, dampness, failure to work or falling.

Camera Security

Warning: If you fail to take the following precautions, you may get seriously injured or killed by the electric shock or fire disaster, or your QooCam may be damaged:

Please check before using the camera and accessories to make sure they are intact. For security, only QooCam accessories that are provided with the device or genuine ones purchased can be used. Using any other parts, accessories, or chargers not recommended by Kandao may result in fire, electric shock, or causalities. Damage caused by the use of unauthorized accessories or parts is not covered by the warranty. To learn about approved accessories, please visit the Kandao website:
www.kandaovr.com

1. Never touch the plug or charger with wet hands while the camera is being charged. If you won't follow this warning message, electric shock may occur.
2. Do not place or fix this product onto an unstable surface. Failure to observe this precaution can result in the product loosening or falling off, thus causing an accident or damaging the camera.
3. If you use an external power connection, please follow all safety guidelines or third-party powered devices.
4. The QooCam 8K camera lens is made of glass. If the lens is damaged, please be careful to avoid scratching by broken glass. Keep it away from children.
5. The temperature of the camera will rise during operation, which is a normal phenomenon. Please be careful not to use the running camera to contact children or any other temperature sensitive objects to avoid injury. If you think the temperature is too high, turn off the camera and let it cool down before using.
6. This product is not a toy and you are solely responsible for complying with all local laws, regulations and restrictions.
7. Do not use QooCam 8K for unauthorized monitoring, secret photography, or in any other way that violates personal privacy laws. Under normal circumstances, it is strictly forbidden to use the camera for such purposes; otherwise the operator may have to assume major responsibilities and suffer from criminal lawsuits.
8. Cautions: Do not place the camera in extremely cold or extremely hot environments. Extremely cold or extremely hot conditions may shorten the battery life or cause the camera to temporarily malfunction.
9. Warning: There is no protection for the 2 lenses of QooCam 8K, which may be easily scratched. It is recommended to always store the QooCam 8K in the attached lens protective cover and avoid placing the lens on any surface. The lens scratch is not covered by the warranty.