



Obsidian 

3D Virtual Reality Camera

User Guide

使用说明书

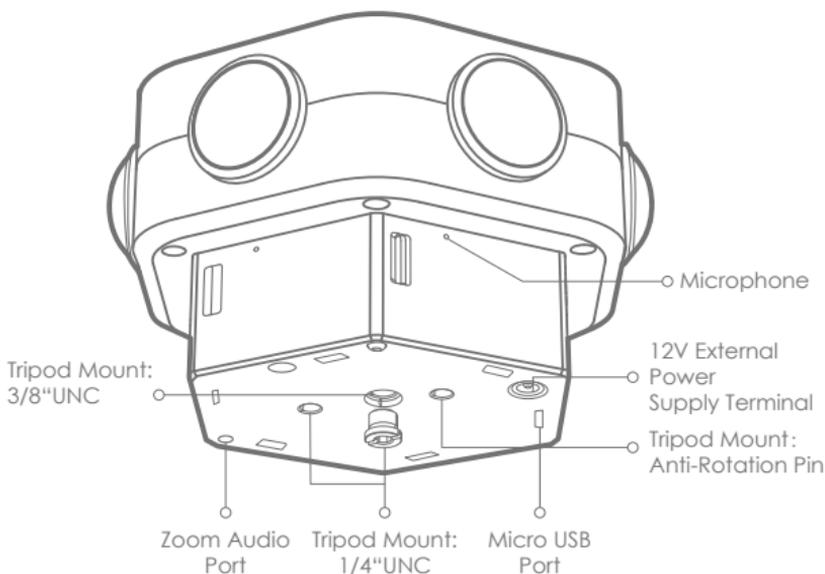
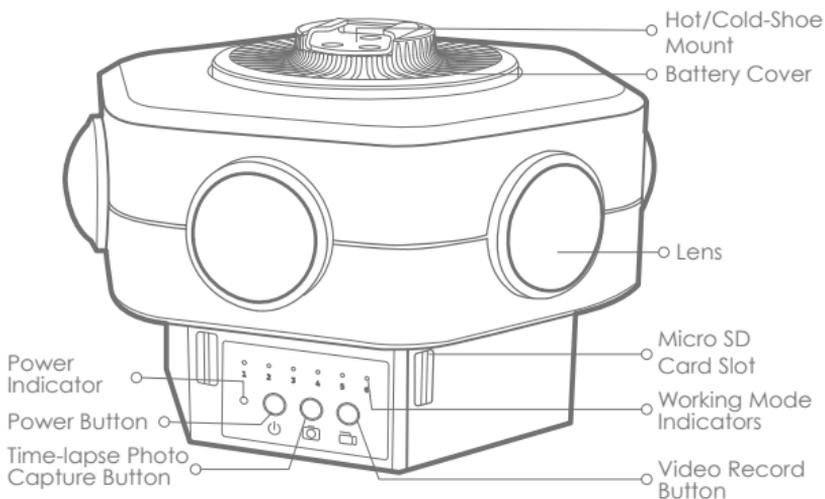
Contents

EN

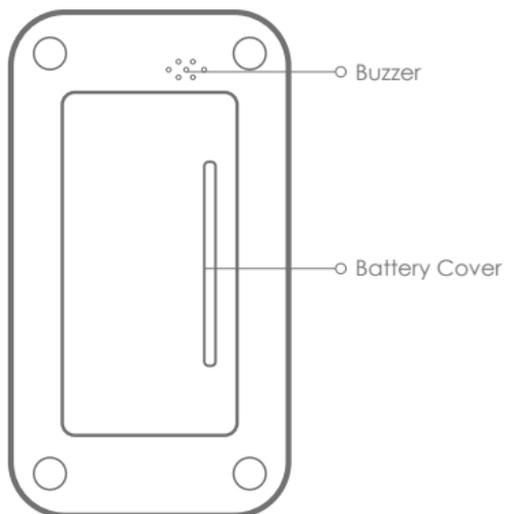
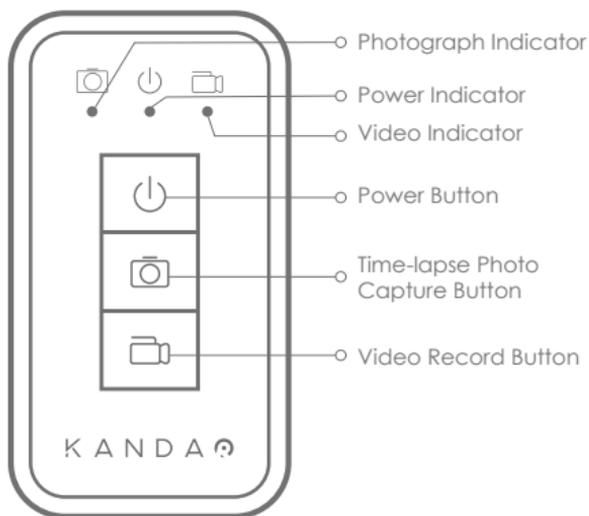
	Name of Parts	1
	Specification Parameters	3
	Package Contents	4
	Using the Camera	5
	Operate with Remote	7

Name of Parts

Introduction to camera parts



Introduction to camera remote control parts





Specification Parameters

Model	Obsidian GO
Video Format	MOV
Weight (Camera+Battery)	1015 g
Recording Media	Micro SD Card (Maximum 128G)
Video Coding Format	H.264
Working Voltage	Battery 7.4V, Adapter 12V
Power	10.5W
Frame Rate	30 fps
Working Temperature	-10 ~ 40 °C
Working Humidity	10~90% RH
Storage Temperature	-40 ~ 80 °C
Storage Humidity	5~90% RH
Frequency Range	2404MHz-2476MHz
Max Output Power	3.5dBm for Remote Control 0.2dBm for Camera
Software Version	MP_VER.01.00.13_20170830
Hardware Version	Mainboard: KSA_6_S206_V1.2 Power Strip: KSA_6_S206_POWER_V1.3

Video

Model	Video Resolution	Frame Rate (fps)	Single-lens Resolution
Obsidian GO	3840 x 3840	30	1728 x 1728

Photo

Model	Photo Resolution	Single-lens Resolution
Obsidian GO	7680 x 7680	4608 x 3456

Importers

Company Name: Vrperception

Address: VR Perception Rebenstrasse 338307 Effretikon Switzerland



Package Contents



Obsidian GO
Camera



Carrying Case



Shoulder Strap



Manual



Lens Cleaning
Cloths



Sync Control Cable
for Zoom H2n Handy
Recorder (spatial sound)



Remote Control



Remote Control
Batteries



* Adapter



* Batteries LP-E6



* Lens Cleaning Pen



* Card Reader USB 3.0

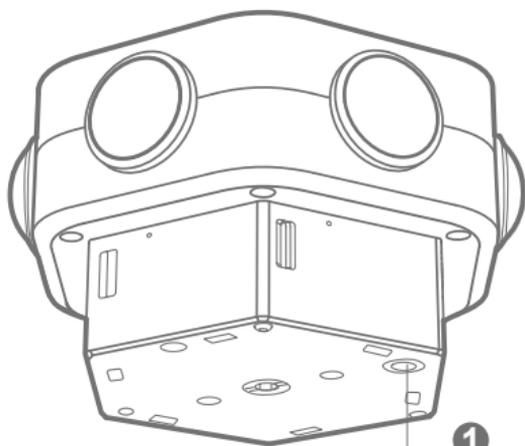
(* Optional)



Using the Camera



Power the Camera using one of the following ways

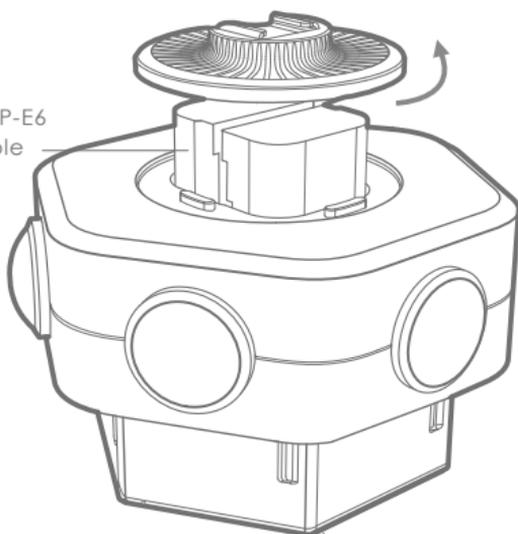


1

12V external
power supply

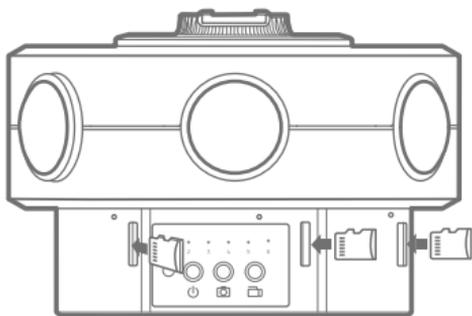
2

2 X Canon LP-E6
or compatible
batteries



Insert Micro SD cards

Insert all six Micro SD cards into the slots. **U3 (UHS-I)** cards are required.



Power on / off

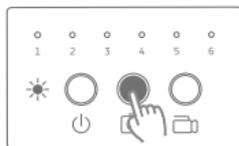
Power on: Press the [Power Button], if the camera turns on normally, the power indicator lamp emits red, and the six [Working Mode Indicators] emit blue.

Power off: Press and hold [Power Button] until all [Working Mode Indicators] turn off, then the camera is powered off.



Photograph & Video-record

Photograph: Press the [Time-lapse Photo Capture Button] to capture a photo. And the default mode is 10-second time-lapse, press [Time-lapse Photo Capture Button] again to stop. The blue [Working Mode Indicators] will flash one time in the process.



Video-record: Press the [Video Record Button] to record video. Press the button again to stop recording. All [Working Mode Indicators] will flash for 4 seconds before the recording starts. During the recording process, [Working Mode Indicators] will flash slowly.

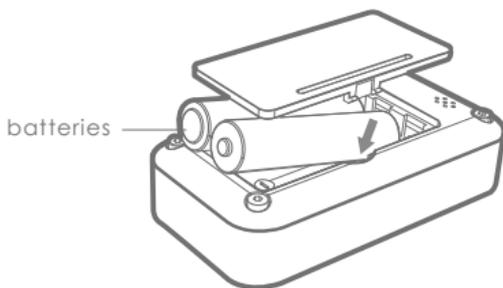




Operate with Remote Control

Install the battery & connect with camera

Install the battery: Open the battery door and insert 2 AAA batteries.



Connect with camera: Switch on camera first, then press any button on the remote control to start connecting, during this process Power Indicator will flash slowly, and then go off after the connection is done.



Photograph & Video-record by remote control

Photograph: Press the [Time-lapse Photo Capture Button]  on remote control, the [Buzzer] will respond and [Power Indicator] will flash once. After that, the camera comes into 10-second time-lapse mode, [Photograph Indicator] on remote control will flash slowly, press [Time-lapse Photo Capture Button] again to stop shooting.

Video-record: Press the [Video Record Button]  on the remote control, the [Buzzer] will respond and [Power Indicator] will flash once. During the recording process, [Video Indicator] on the remote control will flash slowly. Press [Video Record Button] again to end recording.

Power off by remote control

Press and hold [Power Button]  on remote control to switch off the camera, the remote control is dormant and all lights would turn off. Press any button can turn it on again.

Indicator lamp description



Slow flash



Camera is on but disconnected with remote control



Taking a photograph



Recording a video



Camera is in dormancy



Quick flash



Low power/ camera is on abnormal status



An error has occurred during taking a photograph



An error has occurred during recording a video

Reminder:

1. In a normal working status, once a button is pressed on remote control, [Power Indicator] and [Buzzer] will both respond.
2. If the camera is in abnormal status, all indicator lamps on the remote control will flash quickly.

Safe Handling Precautions

1. Avoid condensation and freeze -- When moving the camera from one extreme temperature to another, keep your camera in sealed plastic bags to prevent condensation. Allow time for equipment to adjust to temperature change before removing from the plastic bag.
2. Avoid snow -- Be careful that snowflakes can easily scratch the lens. To prevent camera circuits from being damaged by melting snow, please turn off the camera and pull out the battery immediately.
3. Avoid dust -- Please use and store the camera in a clean environment. When using the camera outdoors, be careful not to allow dust or sand scratch the camera. Please use blower brush, or lens tissue to remove dust from the lens. Never use alcohol or any volatile liquid to clean the camera.
4. Avoid moisture -- Avoid using the camera in high humidity conditions. Remove and store the battery in a dry box when not using the camera.
5. Avoid shake -- Do not bang or subject the camera to strong impacts. Do not put the extra objects attached with the camera into the package (for example, forget to remove the quick release plate), which will increase the possibility of lens damage when shaking and vibration.
6. Never place the camera close to magnets, motors or other devices that generate strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt image data.
7. Memory cards are small, thin and easy to break, so keep them in a special box when not using and make sure the metal contacts are clean and shiny. Avoid storing the cards with data in areas exposed to strong magnetic fields or electromagnetic radiation or high temperature.
8. Don't charge the battery inside the camera for a long time, unplug the external power cable when not using the camera.
9. Do not bump or rub the lens.
10. Do not use camera beyond the normal power supply range.
11. Do not take the camera apart or try to repair any of the electronics yourself.
12. Avoid foreign objects or liquids inside the camera.

FCC Special Statement

FCC Regulatory Information

Warning: 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.

RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

K A N D A O

www.kandaovr.com

Kandao is a high tech company committed to virtual reality with a strong mixed of mission and passion to build the best VR camera for the mass. The co-founders and core team members of Kandao graduated from top universities and have either/both technical and/or commercial backgrounds in leading technology organization such as Tencent, Huawei, Philips, Sharp and other well-known enterprises. With strong research, development, and operational capabilities, Kandao builds the world's first portable high quality 3D 360 camera and are creating more fascinating VR technologies.

+86-400-832-1900

service@kandaovr.com

Unit 5D, Block M7, SinoSteel Building, Nanshan, Shenzhen, China



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.