KanDao 1000003885

KanDao Obsidian R - Professional 3D VR 360 8K Camera User Manual

Model: 1000003885



This image displays the KanDao Obsidian R camera from a front-top perspective, highlighting its multi-lens design for 360-degree capture.

1. Introduction

The KanDao Obsidian R is a professional 3D 360 VR camera engineered for high-speed video capture and live-streaming. It provides comprehensive solutions for virtual reality content creation, focusing on advanced technology and development. This camera is designed for professional use, offering exceptional flexibility with high frame rates,

making it suitable for various recording scenarios, including time-lapse.
Key features include:

- 8K 3D VR photos
- 30 fps, 8K VR videos
- 60 fps, 4K VR videos

2. Setup

Before operating your KanDao Obsidian R camera, ensure it is properly set up and powered.

2.1 Powering the Camera

The Obsidian R can be powered using two Canon LP-E6 or compatible batteries, or via a 12V external power supply. It also supports Power over Ethernet (PoE) for both power and data transmission.



This image illustrates the various power options for the KanDao Obsidian R, including slots for two Canon LP-E6 batteries, a 12V external power supply input, and a Power over Ethernet (PoE) port.

2.2 Initial Connection

Connect the camera to your computer using an Ethernet cable for data transfer and control, especially when utilizing PoE. Ensure all necessary software drivers are installed on your computer for proper communication with the camera.

3. Operating the Camera

The KanDao Obsidian R is designed for professional VR content creation, offering both recording and live-streaming capabilities.

3.1 Software Control

The camera is controlled via professional and intelligent software provided by KanDao. This software facilitates real-

time optical flow stitching, post-production, and live-streaming functionalities. It supports SDI/RTMP output for integration into various production workflows.



This image shows the KanDao Obsidian R camera alongside a laptop displaying its software interface, which is used for real-time optical flow stitching and managing 3D VR live streams.

3.2 Recording VR Content

Utilize the KanDao software to configure recording settings, including resolution (up to 8K for photos and 30fps for videos, or 4K at 60fps for videos) and frame rates. The camera's high-speed capabilities are ideal for capturing dynamic scenes.

3.3 Live-Streaming

The Obsidian R supports live-streaming of VR content. Refer to the software's live-streaming section for detailed instructions on setting up and broadcasting your VR experience.



This image illustrates a "Stereoscopic Panorama, True Virtual Reality" view, demonstrating the immersive 3D output capability of the KanDao Obsidian R camera.

4. Maintenance

Proper maintenance ensures the longevity and optimal performance of your KanDao Obsidian R camera.

4.1 Cleaning

Use a soft, dry cloth to clean the camera body. For lenses, use a specialized lens cleaning solution and microfiber cloth to avoid scratches. Do not use abrasive cleaners or solvents.

4.2 Storage

Store the camera in a cool, dry place, away from direct sunlight and extreme temperatures. When not in use for extended periods, remove the batteries.



This image displays the KanDao Obsidian R camera along with its various accessories, including cables and a carrying case, emphasizing its portable design and comprehensive kit.

5. Troubleshooting

This section addresses common issues you might encounter with your KanDao Obsidian R camera.

5.1 Camera Not Powering On

- Ensure batteries are fully charged and correctly inserted.
- Verify the external power supply is connected securely and providing the correct voltage (12V).
- If using PoE, confirm the Ethernet cable is properly connected and the PoE source is active.

5.2 Software Connection Issues

- Check the Ethernet cable connection between the camera and your computer.
- Ensure the KanDao software is up to date.
- Temporarily disable any firewall or antivirus software that might be blocking the connection.

5.3 Image Quality Problems

- Clean the camera lenses carefully.
- Ensure adequate lighting in your recording environment.
- Check software settings for resolution and exposure.

6. Specifications

Detailed technical specifications for the KanDao Obsidian R camera.

Feature	Detail

Feature	Detail
Model Number	1000003885
ASIN	B07DVQ9QKZ
Manufacturer	KanDao
Product Dimensions	2.54 x 2.54 x 2.54 cm; 1.36 kg
Batteries Required	1 Lithium Ion battery (not included, but 2 Canon LP-E6 or compatible recommended)
First Available Date	June 20, 2018
Guaranteed Software Updates Until	Unknown



This diagram illustrates the dimensions of the KanDao Obsidian R camera, showing its width (W) of 145mm, depth (D) of 145mm, and height (H) of 93mm, highlighting its portable design.



This image provides an exploded view of the KanDao Obsidian R, revealing its internal components and emphasizing its full-metal body construction, which contributes to excellent heat dissipation.

7. Warranty and Support

For information regarding warranty coverage and technical support for your KanDao Obsidian R camera, please refer to the official KanDao website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

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