Ricoh 910725

Ricoh Theta V 4K 360 Spherical Camera User Manual

Model: 910725

1. Introduction

The Ricoh Theta V is a lightweight, compact 360-degree spherical camera designed for ease of use and portability. It features a new image sensor and processor for enhanced image quality, producing realistic 360-degree content. The camera supports high-speed data transfer, allowing for quick wireless uploads of 14-megapixel stills and high-resolution 4K videos. It also includes omnidirectional audio recording for immersive 360-degree spatial sound. The Theta V can be controlled via Android or iOS smartphones/tablets using the Theta S app, offering flexible wireless control through Bluetooth Low Energy (BLE) or Wi-Fi. Ricoh also enables new functionalities through software plug-ins, including the world's first remote playback capability for a commercially-marketed fully spherical camera.





Figure 1.1: Front view of the Ricoh Theta V camera.

2. Safety Information

- Read all instructions carefully before use.
- Do not expose the camera to water or moisture.
- Use only the specified charging cable and power adapter.
- Avoid extreme temperatures and direct sunlight.
- Keep out of reach of small children.
- Do not attempt to disassemble or modify the camera.

3. Package Contents

The Ricoh Theta V package typically includes the following items:

- Ricoh Theta V Camera
- Soft Case
- USB Cable
- User Manual (this document)

4. Parts Identification

Familiarize yourself with the various parts of your Ricoh Theta V camera:





Figure 4.1: Side view showing Power, Wi-Fi, and Mode buttons.

- **Lenses:** Two spherical lenses located at the top and bottom of the camera.
- **Power Button:** Located on the side, used to turn the camera on/off.
- **Wi-Fi Button:** Activates/deactivates Wi-Fi for smartphone connection.
- **Mode Button:** Switches between still image and video recording modes.
- **Shutter Button:** Located on the front, used to capture photos or start/stop video recording.
- **Status Lamps:** Indicate power, Wi-Fi, and mode status.
- **Microphones:** Four-channel microphones for 360-degree spatial audio.
- **USB Port:** For charging and data transfer.
- **Tripod Mount:** Standard 1/4-inch screw hole for attaching to tripods or accessories.



Figure 4.2: Top and bottom view highlighting the spherical lenses.

5. Setup

5.1 Charging the Battery

Connect the camera to a computer or a USB power adapter using the supplied USB cable. The status lamp will indicate charging progress. A full charge typically takes approximately 2.5 hours.

5.2 Initial Power On

Press and hold the Power button for a few seconds until the status lamp illuminates. The camera is now ready for use.

5.3 Connecting to a Smartphone

To fully utilize the Ricoh Theta V, download the official Ricoh Theta S app from your device's app store (available for Android and iOS). The camera can connect via Bluetooth Low Energy (BLE) for an always-on connection or Wi-Fi for faster data transfer and live view.

- **Wi-Fi Connection:** Press the Wi-Fi button on the camera. The Wi-Fi lamp will blink. On your smartphone, go to Wi-Fi settings and select the Theta V's network (e.g., "THETA-XXXXXX"). Enter the password (usually the serial number on the camera).
- **Bluetooth Connection:** Ensure Bluetooth is enabled on both the camera and your smartphone. Follow the pairing instructions within the Ricoh Theta S app.

6. Operating the Camera

6.1 Capturing Photos and Videos

You can capture 360-degree content directly from the camera or remotely via the smartphone app.

- **Direct Capture:** Press the Shutter button on the camera to take a still image or to start/stop video recording.
- **App Control:** Use the Ricoh Theta S app for live view, remote shutter control, and advanced settings like exposure, white balance, and shooting modes (Noise reduction, DR correction, HDR rendering, Interval shooting, Self-timer, Multi brackets).

6.2 4K Video Recording and Spatial Audio

The Theta V records high-definition 360-degree video at 30 frames per second (fps) with a resolution of 3840 x 1920 pixels (4K). It supports the H.264 file format for video. The integrated 4-channel microphone captures omnidirectional 360-degree spatial audio, enhancing the immersive experience.

Video 6.1: Official product video showcasing the Ricoh Theta V's 360-degree capabilities and features.

6.3 Remote Playback Mode

The Theta V offers a unique remote playback feature, allowing users to wirelessly display 360-degree images and videos on a large-screen display. This functionality requires a compatible wireless display adapter (sold separately).

6.4 Plug-in Functionality

Ricoh allows for the development and integration of new functions via software plug-ins, expanding the camera's capabilities over time.

7. Maintenance

7.1 Cleaning the Camera

- Wipe the camera body with a soft, dry cloth.
- For lenses, use a lens cleaning cloth and solution specifically designed for optical surfaces. Avoid abrasive materials.

7.2 Storage

Store the camera in its soft case in a cool, dry place away from direct sunlight and extreme temperatures. Avoid storing in areas with high humidity.

7.3 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Charge the camera regularly, even if not in use for extended periods.

8. Troubleshooting

If you encounter issues with your Ricoh Theta V, refer to the following common solutions:

Problem	Solution
Camera does not power on.	Ensure the battery is charged. Connect to a power source and try again.
Cannot connect to smartphone via Wi-Fi.	Ensure Wi-Fi is enabled on the camera and your phone. Restart both devices. Check Wi-Fi password.
Poor image/video quality.	Ensure lenses are clean. Check lighting conditions. Update camera firmware.
Camera freezes or becomes unresponsive.	Perform a soft reset by holding the Power button for 8 seconds.

For more detailed troubleshooting or issues not listed here, please refer to the official Ricoh Theta V User Manual PDF or contact customer support.

9. Specifications

Feature	Detail

Feature	Detail
Product Dimensions	1.78 x 0.9 x 5.14 inches
Item Weight	4.3 ounces
Item Model Number	910725
Batteries	1 Lithium Polymer batteries required (included)
Photo Sensor Technology	CMOS
Video Capture Resolution	4K (3840 x 1920 pixels)
Maximum Focal Length	12 Millimeters
Maximum Aperture	2 Millimeters
Flash Memory Type	Non-replaceable internal memory
Video Capture Format	MP4
Supported Audio Format	PCM
Connectivity Technology	Bluetooth, USB
Wireless LAN Transfer Speed (MAX)	2.4GHz, 3mm: 20Mbps; 2.4GHz, 10mm: 10Mbps; 5GHz, 3mm: 50Mbps; 5GHz, 10mm: 10Mbps
Battery Life (Still image)	Approx. 300 images
Battery Life (Video)	80 minutes

10. Warranty and Support

Ricoh provides a limited warranty for the Theta V camera. Please refer to the warranty card included with your product for specific terms and conditions. For technical support, service, or additional information, please visit the official Ricoh support website or contact their customer service.

An official User Manual (PDF) is available for download: Download User Manual (PDF)

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