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> Samsung Gear 360 (2017 Edition) SM-R210 Spherical 4K Camera User Manual

## Samsung SM-R210

# Samsung Gear 360 (2017 Edition) SM-R210 User Manual

[Introduction](#)   [Package Contents](#)   [Product Overview](#)   [Setup](#)   [Operating](#)  
[Instructions](#)   [Maintenance](#)   [Troubleshooting](#)   [Specifications](#)   [Warranty & Support](#)

## 1. INTRODUCTION

The Samsung Gear 360 (2017 Edition) SM-R210 is a compact spherical camera designed to capture immersive 360-degree videos and photos in 4K resolution. This manual provides essential information for the safe and effective use of your device, including setup, operation, maintenance, and troubleshooting guidelines. Please read this manual thoroughly before using the camera.

## 2. PACKAGE CONTENTS

Verify that all items are present in your product box:

- Samsung Gear 360 (2017 Edition) Camera Body
- USB Cable (Type-C)
- User Manual (this document)

**Important:** A microSD memory card is required for shooting and is **not included** in the package. Please purchase a compatible microSD card separately.

## 3. PRODUCT OVERVIEW

Familiarize yourself with the main components and controls of your Samsung Gear 360 camera.



**Figure 3.1: Front View**

This image displays the front of the Gear 360 camera, highlighting the primary spherical lens and the Samsung branding.



**Figure 3.2: Back View**

The back of the Gear 360 camera features the Menu button (often with a Bluetooth icon) and the Back/Power button, used for navigation and power control.



**Figure 3.3: Side View**

This side view illustrates the USB-C charging port at the base and a covered slot for inserting the microSD memory card, which is essential for recording.

### Key Components:

- **Dual Spherical Lenses:** Capture a full 360-degree field of view.
- **Menu Button:** Navigate through camera settings and modes.
- **Back/Power Button:** Power on/off the device and go back in menus.
- **USB Type-C Port:** For charging and data transfer.
- **MicroSD Card Slot:** Insert your memory card for storage.

- **Status Display:** Small screen to show current mode, battery, and other information.

## 4. SETUP

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### 4.1. Charging the Battery

Before initial use, fully charge the camera's internal battery. Connect the supplied USB Type-C cable to the camera's USB port and then to a power adapter or a computer's USB port. The status indicator will show charging progress.

### 4.2. Inserting a microSD Card

The Samsung Gear 360 requires a microSD card to store photos and videos. Open the microSD card slot cover and insert a compatible microSD card (UHS-I Speed Class 3 (U3) recommended) with the gold contacts facing down until it clicks into place. Close the cover securely.

### 4.3. Installing the Samsung Gear 360 App

To fully utilize your camera's features and control it remotely, install the Samsung Gear 360 app on a compatible smartphone. The app is available on the Google Play Store for Android devices and the Apple App Store for iOS devices.

#### Compatible Devices:

- Samsung Galaxy S8, S8+, S7, S7 edge, Note5, S6 edge+, S6, S6 edge, A5/A7 (2017) running Android 5.0 or later.
- Apple iPhone 7, 7+, 6S, 6S+, SE running iOS 10.0 or later.

**Note:** Functional limitations may exist when using with iOS devices.

### 4.4. Connecting to a Smartphone

1. Power on the Gear 360 camera by pressing and holding the Back/Power button.
2. On your smartphone, enable Wi-Fi and Bluetooth.
3. Open the Samsung Gear 360 app and follow the on-screen instructions to connect your camera. The camera connects primarily via Wi-Fi for data transfer, with Bluetooth used for initial pairing.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Powering On/Off

- **To Power On:** Press and hold the Back/Power button until the camera vibrates and the status display turns on.
- **To Power Off:** Press and hold the Back/Power button until the camera vibrates and the status display turns off.

### 5.2. Changing Shooting Modes

Press the Menu button to cycle through available shooting modes displayed on the status screen. Modes include:

- **Video:** Records 360-degree video (up to 4K resolution).
- **Photo:** Captures 360-degree still images.
- **Time-lapse:** Records a series of photos over time to create a time-lapse video.
- **HDR (High Dynamic Range):** Available for still photos to improve detail in both bright and dark areas.

### 5.3. Capturing Photos and Videos

Once a shooting mode is selected, press the Shutter button (located on the side of the camera) to start recording video or take a photo. The status indicator will change to show recording status.

## 5.4. Viewing and Transferring Content

Content can be viewed and managed using the Samsung Gear 360 app on your smartphone or by connecting the camera to a computer via the USB cable. For optimal viewing and editing, transferring files to a computer is recommended.

## 5.5. Sharing Content

The Samsung Gear 360 app allows for easy sharing of your 360-degree photos and videos to compatible social media platforms that support 360 content, such as Facebook.

# 6. MAINTENANCE

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## 6.1. Cleaning the Camera

Gently wipe the camera body with a soft, dry cloth. For the lenses, use a specialized lens cleaning cloth and solution to avoid scratches. Do not use harsh chemicals or abrasive materials.

## 6.2. Storage

Store the camera in a cool, dry place away from direct sunlight and extreme temperatures. Ensure the lens covers are in place to protect the lenses from dust and scratches when not in use.

## 6.3. Firmware Updates

Periodically check for firmware updates via the Samsung Gear 360 app. Updates can improve performance, add new features, and fix bugs.

# 7. TROUBLESHOOTING

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If you encounter issues with your Samsung Gear 360, refer to the following common problems and solutions:

- **Camera does not power on:** Ensure the battery is charged. Connect the camera to a power source using the USB cable.
- **Cannot connect to smartphone:**
  - Ensure Wi-Fi and Bluetooth are enabled on your smartphone.
  - Confirm the Samsung Gear 360 app is installed and up to date.
  - Restart both the camera and the smartphone.
  - For iOS devices, be aware of potential functional limitations as noted by Samsung.
- **Cannot record photos/videos:** Ensure a compatible microSD card is properly inserted and has sufficient free space. The card must be at least UHS-I Speed Class 3 (U3).
- **Poor image or video quality:**
  - Ensure lenses are clean and free from smudges or dust.
  - Shoot in well-lit environments. Low light conditions can lead to pixelated or noisy images.
  - Avoid shooting directly into strong light sources.
- **App crashes or transfer issues (especially with iOS):** If the app frequently crashes during video transfer, consider transferring files directly to a PC for more reliable data management.
- **Camera is unresponsive:** If the camera freezes, press and hold the Back/Power button for an extended period (approx. 7-10 seconds) to force a restart.

## 8. SPECIFICATIONS

Detailed technical specifications for the Samsung Gear 360 (2017 Edition) SM-R210.

Feature	Specification
Model Name	SM-R210
Video Resolution	2160p (4K)
Effective Still Resolution	20 MP (Total Still Resolution)
Photo Sensor Resolution	15 MP
Sensor Type	CMOS
Maximum Aperture	3.5 Millimeters (F3.5)
Image Stabilization	Digital
Connectivity Technology	USB, Wi-Fi
Battery Type	Lithium Ion (29 Grams)
Item Weight	11.2 ounces
Frame Rate	24 fps
Supported File Format	RAW
Flash Memory Type	Micro SD (U3 Speed Class recommended)
Real Angle Of View	360 Degrees
Shooting Modes	4K, Automatic, Manual

## 9. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official Samsung website for your region. For technical support, product registration, or to download the latest user manuals and software, please visit the Samsung support website or contact Samsung customer service.

The official user guide can also be found on Samsung's web page.