

SAMSUNG

SM-R210

User Manual

Table of Contents

Basics

- 3 About the Gear 360
- 4 Read me first
- 5 Package contents
- 6 Device layout
- 8 Indicator light
- 9 Camera status screen
- 11 Memory card
- 14 Battery
- 17 Attaching the strap to the Gear 360
- 18 Turning the Gear 360 on and off
- 19 Connecting the Gear 360 to a mobile device

- 45 Settings

- 46 Updating the software

Appendix

- 47 Troubleshooting

Using the Gear 360

- 22 Using the Gear 360's menus
- 23 Using the Gear 360 solely
- 24 Connecting to a mobile device remotely
- 25 Recording videos or taking photos
- 35 Live broadcast
- 36 Configuring camera settings
- 38 Viewing videos or images
- 44 Connecting the Gear 360 and a computer
- 44 Transferring files to a computer

Basics

About the Gear 360

The Gear 360 camera captures 360-degree videos and photos of you and your surroundings in one shot. The two fisheye lenses capture lively photos and videos.

When you connect the Gear 360 to your mobile device via Bluetooth or Wi-Fi, you can capture videos and photos remotely from your mobile device. You can also view, edit, and share videos and photos.

If you connect the Gear 360 to a Gear VR, you can view your Gear 360 videos more realistically.

Read me first

Please read this manual before using this device to ensure safe and proper use.

- Images may differ in appearance from the actual product. Content is subject to change without prior notice. You can access the full user manual for more information. Visit www.samsung.com to view device information, the user manual, and more.
- Before using other devices, make sure they are compatible with the Gear 360. Visit www.samsung.com to see a list of compatible mobile devices.
- This product includes certain free/ open source software. To see the instructions for viewing the open source license, go to the Samsung website (opensource.samsung.com).

Instructional icons



Warning: situations that could cause injury to yourself or others



Caution: situations that could cause damage to your device or other equipment



Notice: notes, usage tips, or additional information

Package contents

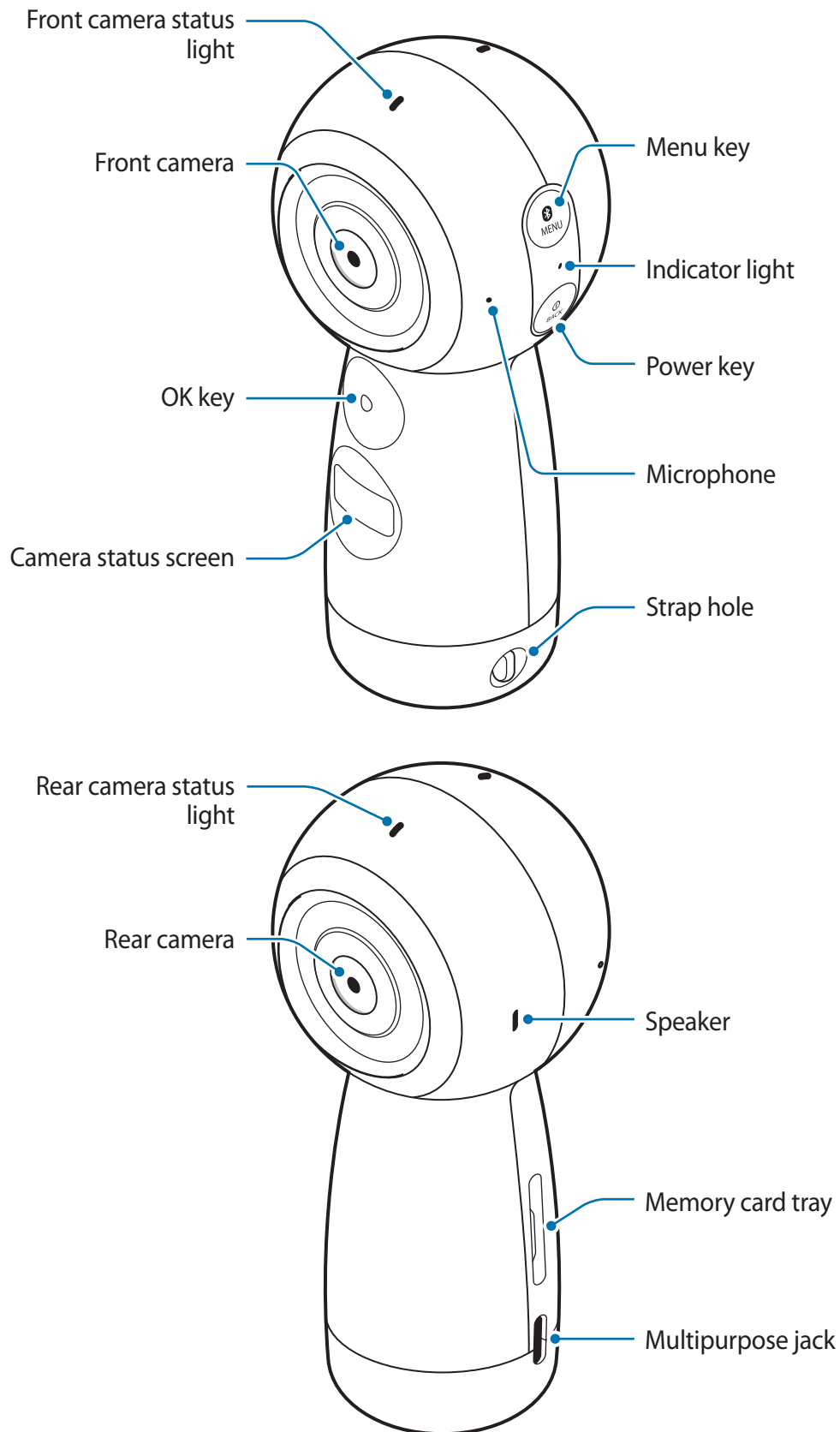
Check the product box for the following items:

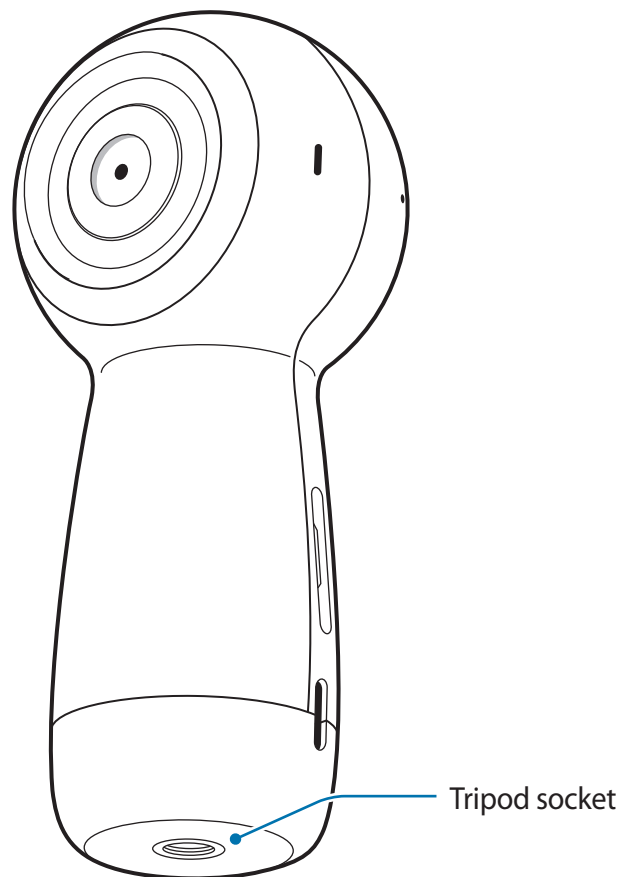
- Gear 360
- USB Cable (USB Type-C)
- Strap
- Pouch
- Quick start guide



- The items supplied with the Gear 360 and any available accessories may vary depending on the region or service provider.
- The supplied items are designed only for this Gear 360 and may not be compatible with other devices.
- Appearances and specifications are subject to change without prior notice.
- You can purchase additional accessories from your local Samsung retailer. Make sure they are compatible with the Gear 360 before purchase.
- Use only Samsung-approved accessories. Using unapproved accessories may cause the performance problems and malfunctions that are not covered by the warranty.
- Availability of all accessories is subject to change depending entirely on manufacturing companies. For more information about available accessories, refer to the Samsung website.

Device layout



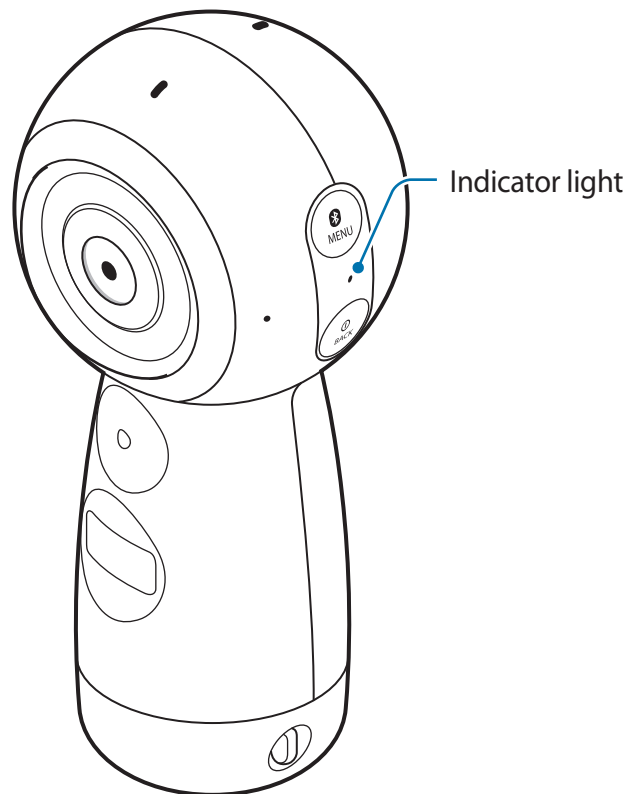


Keys

Key	Function
 Power	• Press and hold to turn the Gear 360 on or off. • Press to return to the previous screen on the camera status screen.
 Menu	• Press repeatedly to move to the menu you want. • Press and hold to access connection modes.
 OK	• Press to record a video or take a photo, or select the option you want.

Indicator light

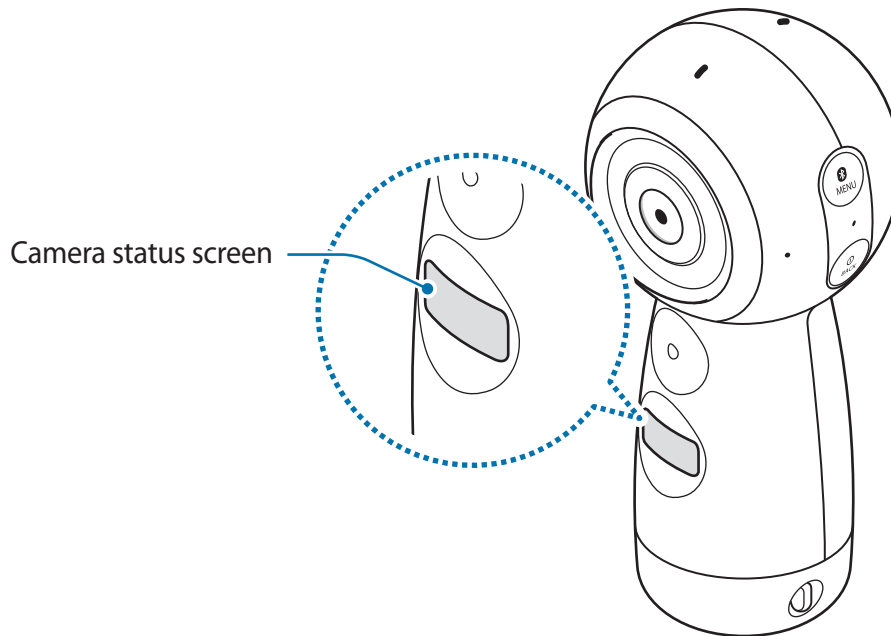
The indicator light informs you of your Gear 360's status.



Colour	Status
Flashes blue three times	• Power on • Formatting a memory card or successfully resetting the Gear 360
Flashes red three times	• Power off
Flashes red	• Battery power is low (lower than 10 %) • Overheating
Continuously on red	• The battery is charging.
Continuously on green	• The battery is fully charged.
Red → Green → Blue	• Bluetooth pairing mode
Continuously on blue	• Connected to a mobile device via Bluetooth
Flashes blue	• Transferring videos or photos, or updating software

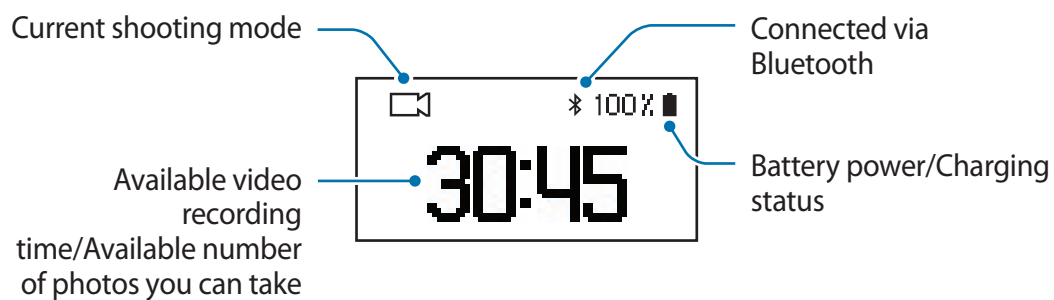
Camera status screen

Access options, such as camera modes and connection modes, and view the Gear 360's status via messages and indicator icons on the camera status screen.



Indicator icons

Indicator icons appear on the camera status screen. You can check the Gear 360's status on the camera status screen.



Icon	Function
	Battery power level
	Battery charging status •  : Charging •  : Overheating •  : Charger connected improperly
	Connected to a mobile device via Bluetooth
	Bluetooth pairing mode
	Bluetooth pairing mode ended
	Recording mode
	Recording a video
	Shooting mode
	Time lapse mode Take several photos at set intervals and save them as one video.
	Time lapse shooting interval
	Recording a time lapse video
	Video looping mode Record a video continuously by overwriting a set period of the previously recorded content and saving the new content.
	Video looping overwriting time
	Landscape HDR mode Taking photos with rich colours and reproduce details even in bright and dark areas.
	Memory card full
	No memory card
	Memory card error
	Connected to computer
	USB connection error

Memory card

Installing a memory card

A memory card must be inserted to take photos or record videos. Depending on the memory card manufacturer and type, some memory cards may not be compatible with your device.

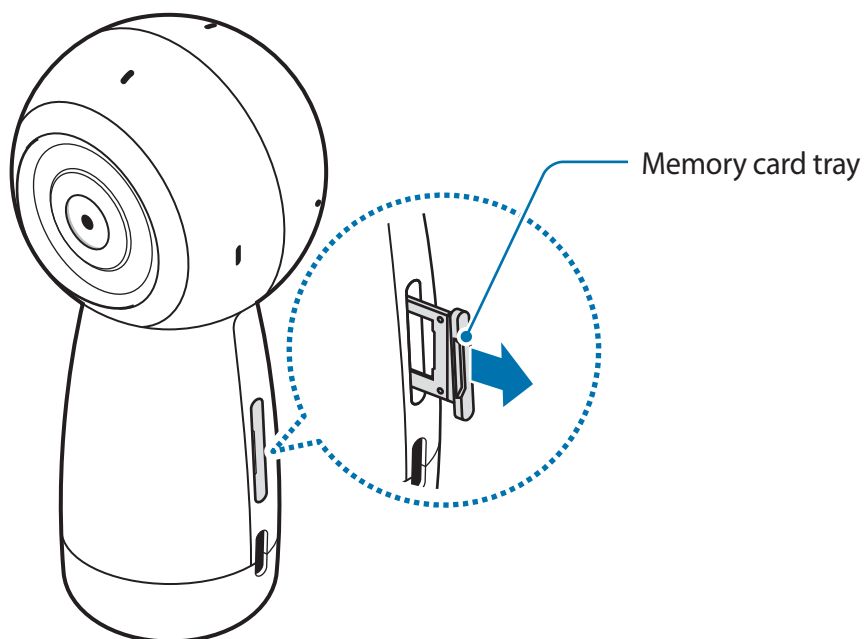


- Some memory cards may not be fully compatible with the Gear 360. Using an incompatible card may damage the Gear 360 or the memory card, or corrupt the data stored in it.
- If you use a slow writing memory card, the recording of your movie can be interrupted because the card cannot process data at the rate the video is being shot. If this occurs, replace the card with a faster memory card or reduce the video size.
- Use caution to insert the memory card right-side up.



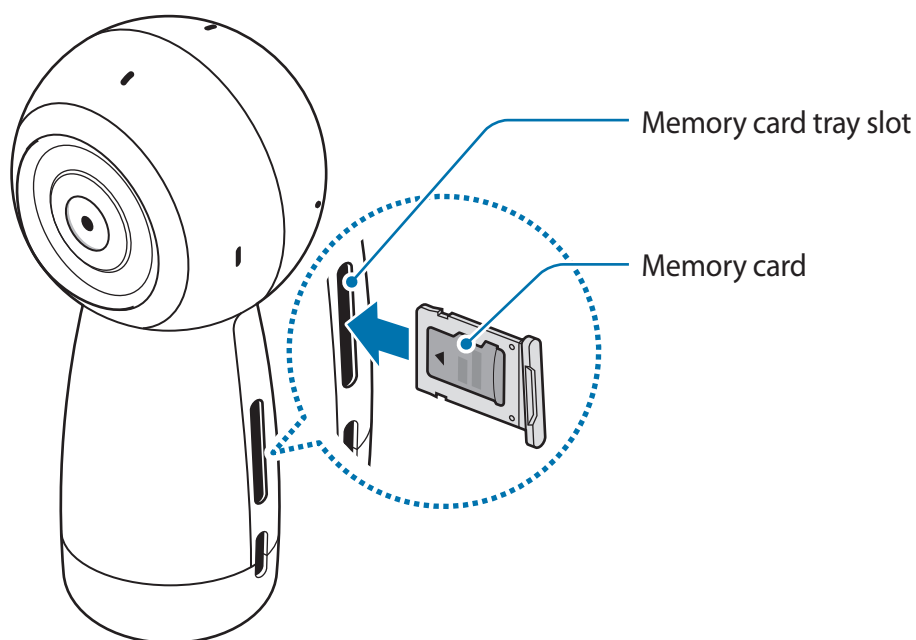
- Memory cards are sold separately.
- If you insert or remove a memory card while the Gear 360 is turned on, the power will turn off.
- Frequent writing and erasing of data shortens the lifespan of memory cards.
- When a memory card is not inserted, **Check SD Card** is displayed on the camera status screen.

- 1 Pull out the memory card tray gently from the memory card tray slot.



Be careful not to damage your fingernails when you remove the memory card tray.

- 2 Gently press the memory card into the memory card tray with the gold-coloured contacts properly aligned with the Gear 360's contacts.
- 3 Insert the memory card tray back into the memory card tray slot.



Removing the memory card

- 1 Pull out the memory card tray gently from the memory card tray slot.
- 2 Remove the memory card.
- 3 Insert the memory card tray back into the memory card tray slot.

Formatting the memory card

A memory card formatted on a computer may not be compatible with the Gear 360. Format the memory card on the Gear 360 or on the Samsung Gear 360 app.



Before formatting the memory card, remember to make backup copies of all important data stored in the memory card. The manufacturer's warranty does not cover loss of data resulting from user actions.

Formatting on the Gear 360

- 1 Press the Menu key until **Settings** appears on the camera status screen, and then press the OK key to select it.
- 2 Press the Menu key until **Format** appears on the camera status screen, and then press the OK key to select it.
- 3 Press the Menu key until **Yes** appears on the camera status screen, and then press the OK key to select it.

A confirmation message will appear on the camera status screen when the formatting is finished.

Formatting on the Samsung Gear 360 app

1 On the mobile device, tap **Samsung Gear 360 app** → **Settings**.

2 Tap **Reset and format** → **Format Gear 360 SD card**.

A confirmation message will appear on the camera status screen when the formatting is finished.



If you want to format a memory card using the Samsung Gear 360 app, you must connect the Gear 360 to the mobile device. Refer to [Connecting the Gear 360 to a mobile device](#) for more information.

Battery

Charging the battery

Charge the battery before using it for the first time or when it has been unused for extended periods.



Use only Samsung-approved chargers, batteries, and cables. Unapproved chargers or cables can cause the battery to explode or damage the Gear.

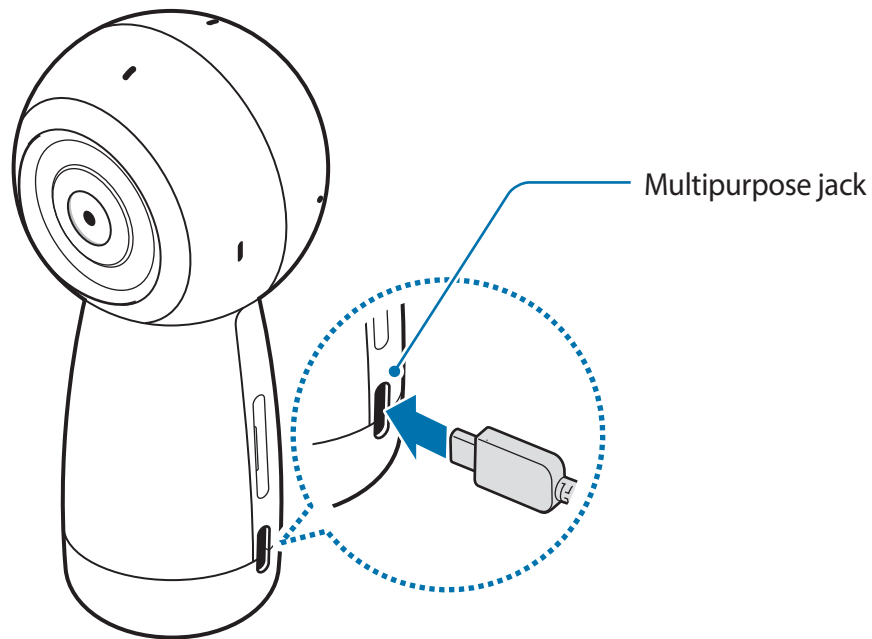


Connecting the charger improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty.



- Chargers are sold separately.
- To save energy, unplug the charger when not in use. The charger does not have a power switch, so you must unplug the charger from the electric socket when not in use to avoid wasting power. The charger should remain close to the electric socket and easily accessible while charging.

- 1 Plug the small end of the charger into the multipurpose jack of the Gear 360, and plug the large end of the charger into an electric socket.



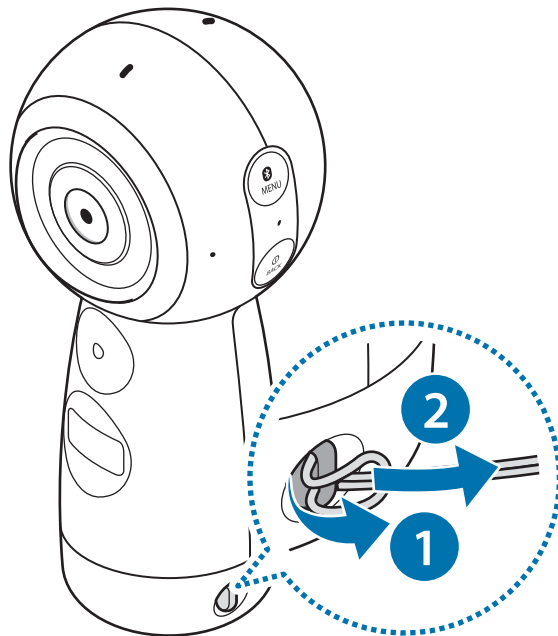
- 2 After fully charging, disconnect the Gear 360 from the charger. First unplug the charger from the Gear 360, and then unplug it from the electric socket.

Battery charging tips and precautions

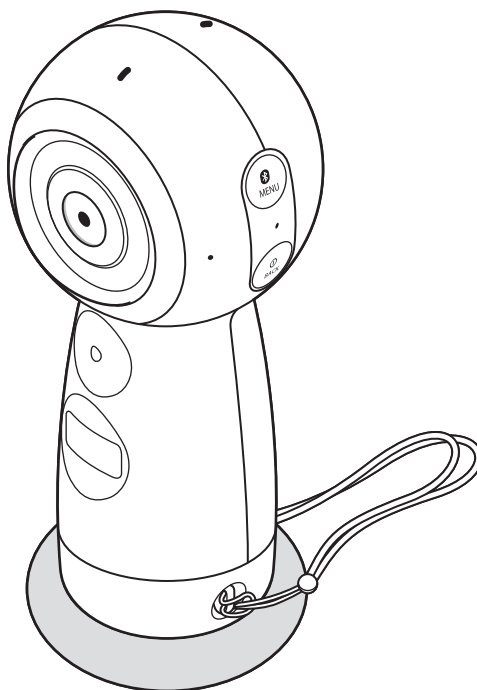
- When the battery power is low, the battery icon appears empty.
- If the battery is completely discharged, the device cannot be turned on immediately when the charger is connected. Allow a depleted battery to charge for a few minutes before turning on the device.
- Using a power source other than the charger, such as a computer, may result in a slower charging speed due to a lower electric current.
- The device can be used while it is charging, but it may take longer to fully charge the battery.
- If the device receives an unstable power supply while charging, the touchscreen may not function. If this happens, unplug the charger from the device.
- While charging, the Samsung Gear 360 and the charger may heat up. This is normal and should not affect the Samsung Gear 360's lifespan or performance. If the temperature rises above a certain level, battery charging will be stopped.
- You cannot charge the Samsung Gear 360 while recording a video, using the time lapse feature, or using the viewfinder remotely on the connected mobile device.
- To save the battery power, activate the auto shut-off feature.
- If the Samsung Gear 360 is not charging properly, take the Samsung Gear 360 and the charger to a Samsung Service Centre.

Attaching the strap to the Gear 360

You can conveniently carry the Gear 360 by attaching the strap to the Gear 360. Insert the strap into the strap hole, and then pull the loop.



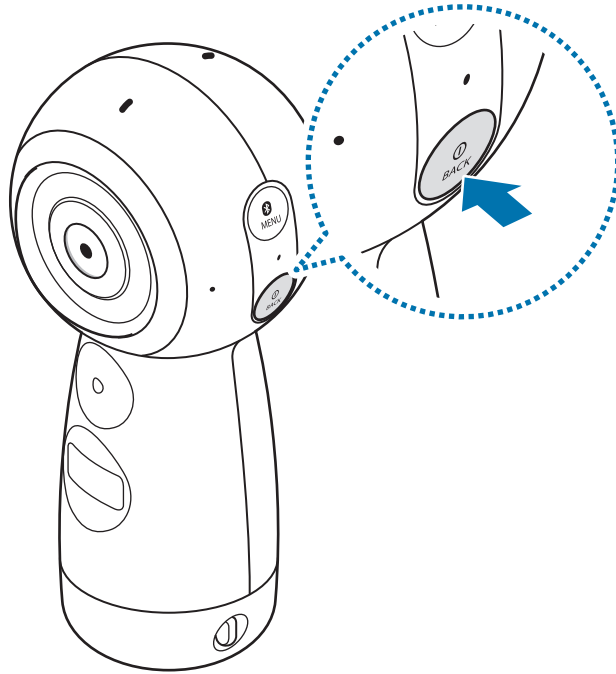
You can also use the strap to fix the Gear 360 on a flat surface to record videos or take photos.



Turning the Gear 360 on and off

Press and hold the Power key to turn on the Gear 360.

To turn off the Gear 360, press and hold the Power key.



- The Gear 360 turns off if the device is not used for a specified period. By using the **Auto power off after** option, you can set the length of time the Gear 360 waits before it turns off. Refer to [Settings](#) for more information.
- Follow all posted warnings and directions from authorised personnel in areas, such as aeroplanes and hospitals.

Restarting the Gear 360

If your device is frozen and unresponsive, press and hold the Power key and the OK key simultaneously for more than 7 seconds to restart it.

Connecting the Gear 360 to a mobile device

Installing the Samsung Gear 360 app

To connect your Gear 360 and mobile device, install the Samsung Gear 360 app on the mobile device.

Depending on your device, you can download the Samsung Gear 360 app from the following app stores:

- Samsung Android devices: **Galaxy Apps**
- Other Android devices: **Play Store**
- iOS devices: **App Store**

Connecting to a mobile device via Bluetooth

To control the Gear 360 from your mobile device, the Gear 360 must be paired with the mobile device. After the Gear 360 has paired with the mobile device, the Gear 360 will try to connect to the mobile device every time you turn on the Gear 360.

After connecting the devices, you can record videos and take photos using the mobile device and view the captured content on the mobile device via Wi-Fi Direct.



Connection methods may vary depending on your mobile device and its software version. To connect with an iOS device, connect the Gear 360 with the mobile device via a Wi-Fi network, launch the Samsung Gear 360 app, and then complete the connection.

Gear 360

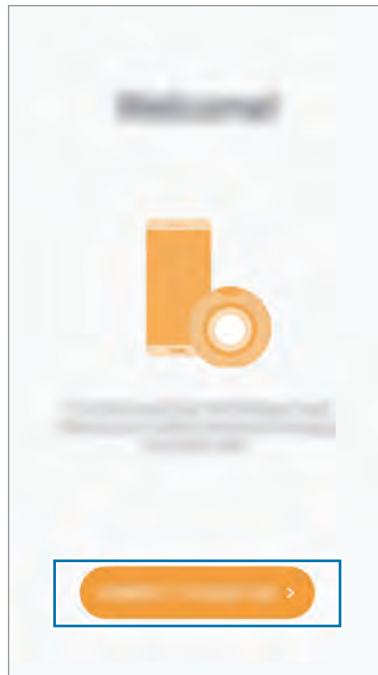
- 1 Turn on the Gear 360.
- 2 Press and hold the Menu key.
- 3 When **Android OS Gear360App** appears on the camera status screen, press the OK key.
For iOS devices, when **iOS Gear360App** appears on the camera status screen, press the OK key.

Mobile device

4 Launch **Samsung Gear 360** app on the mobile device.

5 Tap **CONNECT TO GEAR 360**.

The mobile device will activate the Bluetooth feature and search the devices to pair with.



6 Follow the on-screen instructions to complete the connection.

When your Gear 360 and mobile device are connected, the Bluetooth icon will appear on the camera status screen.

Disconnecting or reconnecting the Gear 360

On the mobile device, tap **Samsung Gear 360** app →  → **Disconnect**. The Gear 360 will be disconnected from the mobile device.

To reconnect the Gear 360, tap **CONNECT** on the Samsung Gear 360 app's screen.

Connecting a new Gear 360

After you unpair the Gear 360 from your mobile device, you can connect another Gear 360.

On your mobile device, tap **Samsung Gear 360** →  → **Connect to new Gear 360**.

Notices for using Bluetooth

Bluetooth is a wireless technology standard that uses a 2.4 GHz frequency to connect to various devices over short distances. It can connect and exchange data with other Bluetooth enabled devices, such as mobile devices, without connecting via cables.

- To avoid problems when connecting your Gear 360 to another device, place the devices close to each other.
- Ensure that your Gear 360 and the other Bluetooth device are within the Bluetooth connection range (10 m). The distance may vary depending on the environment the devices are used in.
- Ensure that there are no obstacles between the Gear 360 and a connected device, including human bodies, walls, corners, or fences.
- Do not touch the Bluetooth antenna of a connected device.
- Bluetooth uses the same frequency as some industrial, scientific, medical, and low power products and interference may occur when making connections near these types of products.
- Some devices, especially those that are not tested or approved by the Bluetooth SIG, may be incompatible with the Gear 360.
- Do not use the Bluetooth feature for illegal purposes (for example, pirating copies of files or illegally tapping communications for commercial purposes).

Using the Gear 360

Using the Gear 360's menus

Select and use menus that appear on the camera status screen by pressing the keys on the Gear 360.

Accessing and selecting menus

- 1 Press, or press and hold, the Menu key.
- 2 Press the Menu key until the menu you want appears.
- 3 Press the OK key to select the menu.

To undo the selection or return to the previous menu, press the Power key.

Available menus

When pressing the Menu key:

- **Video:** Recording mode. Refer to [Recording videos](#) for more information.
- **Photo:** Shooting mode. Refer to [Taking photos](#) for more information.
- **Time lapse:** Time lapse mode. Refer to [Time lapse](#) for more information.
- **Video looping:** Looping video mode. Refer to [Video looping](#) for more information.
- **Landscape HDR:** Landscape HDR mode. Refer to [Landscape HDR](#) for more information.
- **Settings:** Customise settings. Refer to [Settings](#) for more information.

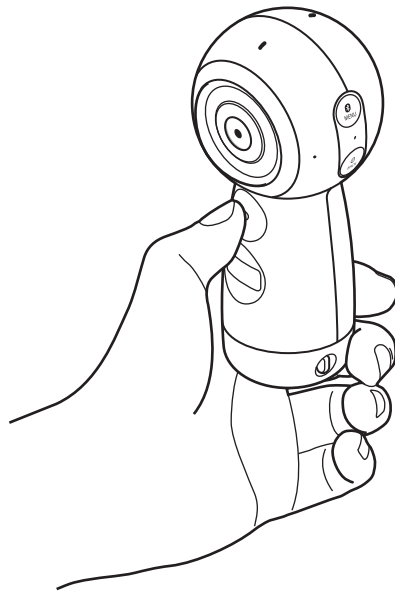
When pressing and holding the Menu key:

- **Android OS Gear360App:** Enter pairing mode for an Android mobile device.
- **iOS Gear360App:** Enter pairing mode for an iOS mobile device.
- **Remote control:** Enter remote control mode. A remote control is sold separately.

Using the Gear 360 solely

You can use the Gear 360 to record videos and take photos without connecting to any other devices.

- 1 Press the Menu key to select which mode you want to use and press the OK key.
- 2 Press the OK key to record a video or take a photo.
To stop recording a video, press the OK key.



Connecting to a mobile device remotely

When the Gear 360 and your mobile device are remotely connected via Wi-Fi Direct, you can record videos and take photos from the mobile device. You can also view the videos and images captured by the Gear 360 on the mobile device.

Launch the **Samsung Gear 360** app on your mobile device, and then tap **360 Camera** to activate the remote viewfinder. Or, tap **360 Gallery** to access the videos and images saved in the Gear 360.

Connect to the Gear 360's camera remotely.



View videos and images saved in the Gear 360.

When your mobile device's Wi-Fi feature is activated and connected to the Wi-Fi network, your Gear 360 and mobile device will be automatically connected via Wi-Fi Direct.



If your Gear 360 and mobile device are not connected via Bluetooth, they will first be connected via Bluetooth, and then connected via Wi-Fi Direct.

Notices for using Wi-Fi

- Use your Gear 360 and the connected device within the specified connection range (5 m). The distance may vary depending on the environment the devices are used in.
- Ensure that there are no obstacles between the Gear 360 and a connected device, including human bodies, walls, corners, or fences.
- If a mobile device connects to the Gear 360 via Wi-Fi Direct while it is connected to a Wi-Fi network, the mobile device's screen may flicker due to the limited capability of the Wi-Fi network.
- Using a mobile device near other devices which are connected to the Wi-Fi network may affect the signal strength and cause the screen to flicker.
- The transfer time may take longer depending on the Wi-Fi connection status and file size.

Recording videos or taking photos

Introduction

Record videos and take photos directly from the Gear 360 using the front and rear cameras. When the Gear 360 is connected to your mobile device, you can capture videos and photos remotely using your mobile device's viewfinder.



- A memory card must be inserted into the Gear 360 to take photos or record videos.
- Due to the camera lens' structure, blind spots may occur on captured videos and images. When capturing videos and photos using both the front and rear cameras, the border where two images are stitched together may not be smooth.

Camera etiquette

- Do not record videos or take photos of other people without their permission.
- Do not record videos or take photos where legally prohibited.
- Do not record videos or take photos in places where you may violate other people's privacy.

Tips for getting the best shots

- Place the subject at the centre of the frame on the camera's viewfinder.
- In dual lens mode, the border where two images are stitched together will be more natural when you position subjects more than 80 cm apart.
- Make sure that the lenses are clean and avoid touching the lenses while capturing videos and images.

Selecting a camera

Select a camera to use. The selected camera's status light will turn green.

Using the mobile device

1 Launch the **Samsung Gear 360** app on the mobile device.

2 Tap **360 Camera**.

The viewfinder will appear.

3 Tap  and select a camera.

-  **Single lens: front:** In single lens mode, use the front camera to capture 180-degree videos or photos.
-  **Single lens: rear:** In single lens mode, use the rear camera to capture 180-degree videos or photos.
-  **Dual lens:** In dual lens mode, use both the front and rear cameras simultaneously to capture 360-degree videos or photos.

Using the Gear 360

- 1 Press the Menu key until **Settings** appears on the camera status screen, and then press the OK key to select it.
- 2 Press the Menu key until **Switch Lens** appears on the camera status screen, and then press the OK key to select it.
- 3 Press the Menu key until the camera you want to use appears on the camera status screen, and then press the OK key to select it.
 - **Single lens Front:** In single lens mode, use the front camera to capture 180-degree videos or photos.
 - **Single lens Rear:** In single lens mode, use the rear camera to capture 180-degree videos or photos.
 - **Dual lens:** In dual lens mode, use both the front and rear cameras simultaneously to capture 360-degree videos or photos.

Recording videos

Record 360-degree videos in dual lens mode, or record 180-degree videos in single lens mode.



When recording videos or using the streaming feature for an extended period, the Gear 360 and its battery may heat up. If the temperature rises above a certain level, the Gear 360 will stop recording and turn off automatically to prevent damage. If the Gear 360 is turned off due to overheating, wait for it to cool down before resuming use.



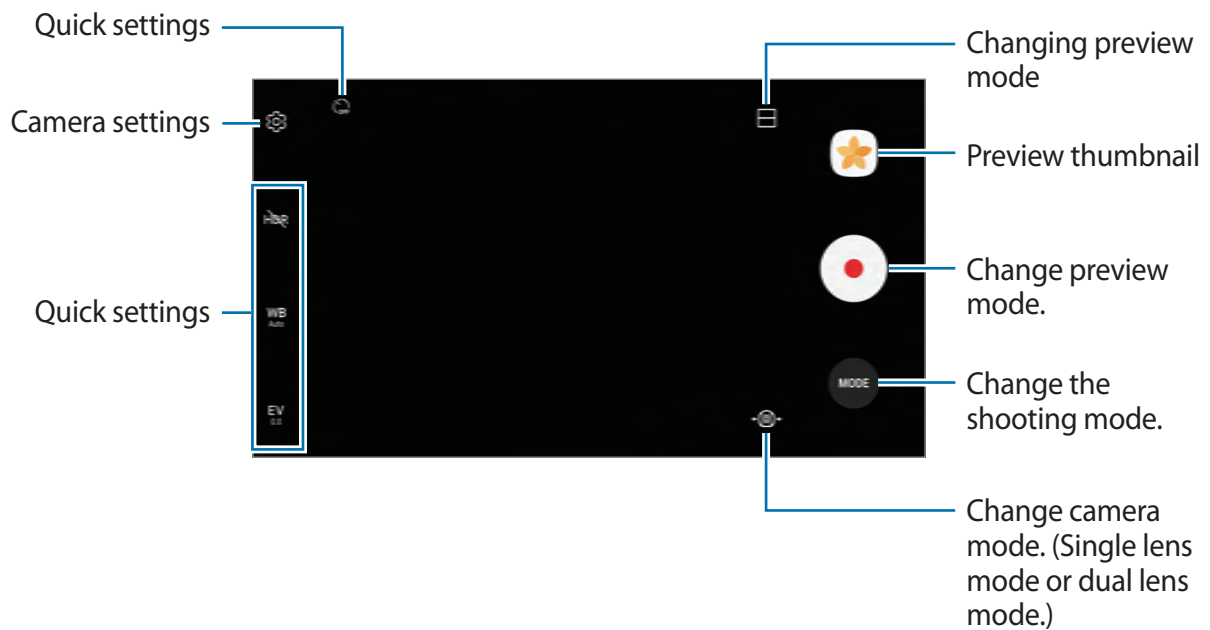
Large files will be divided into 1.8 GB units and saved.

Using the mobile device

1 Launch the **Samsung Gear 360** app on the mobile device.

2 Tap **360 Camera**.

The viewfinder will appear.



3 Tap **MODE** → **Video**.

4 Point the camera at a subject and tap  to record a video.

While recording, the camera status light will flash red.

Spread two fingers apart on the screen to zoom in, and pinch them together to zoom out.

5 Tap  to finish recording the video.

The video will be saved in the Gear **360**'s memory card.



The available video recording time will be displayed on the camera status screen.

Changing preview mode

In dual lens mode, you can preview images that will be taken with the front and rear cameras in different forms by changing preview mode.

On the viewfinder, tap  to change preview mode.

-  **360° view**: Display the image spherically. Drag your finger across the screen in any direction you want to view the image from different angles.
-  **Round view**: Display the image as an inverted panorama. Drag your finger across the screen in any direction you want to view the image from different angles.
-  **Stretched view**: Display the image with a stretched view. Drag your finger across the screen in any direction you want to view the image from different angles.
-  **Dual view**: Split the screen to display each of the front and rear cameras' screens.
-  **Panoramic view**: Display the image with a wide view.

Using the Gear 360

1 Press the Menu key until **Video** appears on the camera status screen, and then press the OK key to select it.

2 Press the OK key to record a video.

While recording, the camera status light will flash red and the recording time will appear on the camera status screen.

3 Press the OK key to finish recording the video.

The video will be saved in the Gear 360's memory card.



The available video recording time will be displayed on the camera status screen.

Taking photos

Take 360-degree photos in dual lens mode, or take 180-degree photos in single lens mode.

Using the mobile device

1 Launch the **Samsung Gear 360** app on the mobile device.

2 Tap **360 Camera**.

The viewfinder will appear.

3 Tap **MODE** → **Photo**.

4 Point the camera at a subject and tap  to take a photo.

The photo will be saved in the Gear 360's memory card.



The available number of photos you can take will be shown on the camera status screen.

Using the Gear 360

1 Press the Menu key until **Photo** appears and then press the OK key to select it.

2 Press the OK key to take a photo.

The photo will be saved in the Gear 360's memory card.



- The available number of photos you can take will be shown on the camera status screen.
- The total number of remaining photos may not appear to decrease after taking photos, depending on the Gear 360's settings.

Time lapse

Take several photos at set intervals and save them as one video. By playing the videos, you can view how the subject looks different from various perspectives.



You cannot preview the images while recording.

Using the mobile device

- 1 Launch the **Samsung Gear 360** app on the mobile device.
- 2 Tap **360 Camera**.
The viewfinder will appear.
- 3 Tap **MODE** → **Time lapse**.
- 4 Tap  to set intervals.
- 5 Tap  to record a video.
- 6 Tap  to finish recording the video.
The video will be saved in the Gear 360's memory card.

Using the Gear 360

- 1 Press the Menu key until **Time lapse** appears on the camera status screen, and then press the OK key to select it.
The recording intervals will appear on the camera status screen.



To change the recording intervals, tap  on the connected mobile device.

- 2 Press the OK key to record videos.
- 3 Press the OK key to finish recording videos.
The video will be saved in the Gear 360's memory card.

Video looping

Record a video continuously by overwriting a set period of the previously recorded content and saving the new content. You can make the most of the memory card's capacity.

Selecting the recording cycle

- 1 Launch the **Samsung Gear 360** app on the mobile device.
- 2 Tap **360 Camera**.
The viewfinder will appear.
- 3 Tap **MODE** → **Video looping**.
- 4 Tap  and select a recording cycle.
 - **5 minutes:** Record a video for 5 minutes and save the video at 1-minute intervals. The beginning of the previously recorded content will be overwritten to allow new footage to be captured.
 - **30 minutes:** Record a video for 30 minutes and save the video at 5-minute intervals. The beginning of the previously recorded content will be overwritten to allow new footage to be captured.
 - **60 minutes:** Record a video for 60 minutes and save the video at 5-minute intervals. The beginning of the previously recorded content will be overwritten to allow new footage to be captured.
 - **Maximum:** Record a video and save the video at 5-minute intervals until the memory card is full. The beginning of the previously recorded content will be overwritten to allow new footage to be captured.



The saving time of videos may differ depending on the memory card's capacity.

Using the mobile device

1 Launch the **Samsung Gear 360** app on the mobile device.

2 Tap **360 Camera**.

The viewfinder will appear.

3 Tap **MODE** → **Video looping**.

4 Tap  to record a video.

5 Tap  to finish recording the video.

The video will be saved in the Gear **360**'s memory card.

Using the Gear **360**

1 Press the Menu key until **Video looping** appears on the camera status screen, and then press the OK key to select it.

The recording cycle will appear on the camera status screen.



To change the recording cycle, tap  on the connected mobile device's viewfinder.

2 Press the OK key to record a video.

3 Press the OK key to finish recording the video.

The video will be saved in the Gear **360**'s memory card.

Landscape HDR

Take photos with rich colours and reproduce details even in bright and dark areas.

Using the mobile device

1 Launch the **Samsung Gear 360** app on the mobile device.

2 Tap **360 Camera**.

The viewfinder will appear.

3 Tap **MODE** → **Landscape HDR**.

4 Tap  to record a video.

The video will be saved in the Gear 360's memory card.



The saving time of videos may differ depending on the memory card's capacity.

Using the Gear 360

1 Press the Menu key until **Landscape HDR** appears on the camera status screen, and then press the OK key to select it.

2 Press the OK key to record a video.

The video will be saved in the Gear 360's memory card.



- The saving time of videos may differ depending on the memory card's capacity.
- The total number of remaining photos may not appear to decrease after taking photos, depending on the Samsung Gear 360's settings

Live broadcast

Invite your family and friends to watch the videos you record with the Gear 360 in real time.



- This feature may not be available depending on the region or service provider.
- You may incur additional charges for broadcasting via the mobile network.

Starting your broadcast

- 1 Launch the **Samsung Gear 360** app on the mobile device.
- 2 Tap **360 Live Broadcast**, select the service you want to use, and then sign in to the account.
- 3 To set your broadcast as public or private, tap **Access via link only**.
- 4 Tap  to invite contacts.
When the broadcast starts, the video link will be sent to the selected contacts via message. The invited contacts can watch the broadcast by tapping the link.
- 5 Tap  to start broadcasting.
- 6 Tap  to end your broadcast. You can upload the live video or share it with others.

Watching a live broadcast

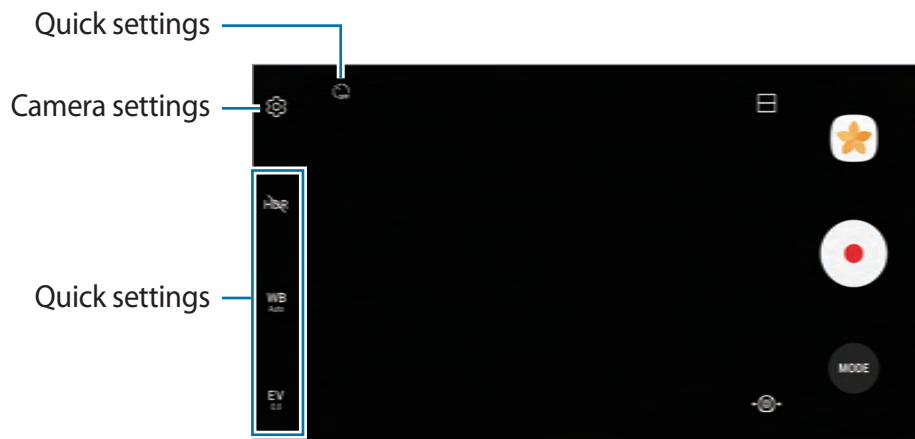
Invited contacts can watch the broadcast by tapping the video link they received. For public broadcasts, viewers can search for your channel name on the service they use.

During your broadcast, viewers can evaluate the broadcast.

Configuring camera settings

Configuring settings on your mobile device

You can configure camera settings from the viewfinder of the connected mobile device. On the mobile device, tap **Samsung Gear 360 app** → **360 Camera**.



Quick settings

You can use the following options on the connected mobile device's viewfinder.



The available options may vary depending on the shooting mode and which camera is being used.

- **HDR**: Take photos with rich colours and reproduce details even in areas with different exposure values.
- **WB**: Select an appropriate white balance, so images have a true-to-life colour range.
- **EV**: Change the exposure value. This determines how much light the camera's sensor receives. For low-light situations, use a higher exposure.
- : Select the length of the delay before the Gear 360 automatically takes a photo.
- : Set recording intervals while recording time lapse videos. Short intervals are suitable when recording a video of a fast-moving object and long intervals are suitable when recording a video of a slow-moving object, such as the setting sun or clouds.
- : Set the recording cycle while recording a video looping.

Camera settings

Tap  on the viewfinder.



The available options may vary depending on the shooting mode and which camera is being used.

- **Photo size:** Select a resolution for photos. Using a higher resolution will result in higher quality videos, but they will take up more memory.
- **Video size:** Select a resolution for videos. Using a higher resolution will result in higher quality videos, but they will take up more memory.
- **Main lens in preview:** Select the preview mode when using the dual lenses.
- **Timer:** Select the length of the delay before the camera automatically takes a photo.
- **ISO sensitivity limit:** Set a limit for the ISO value. This controls camera light sensitivity. Low values are for stationary or brightly lit objects. Higher values are for fast-moving or poorly lit objects. However, higher ISO settings can result in noise in photos.
- **Sharpness:** Set the sharpness of your photos.
- **Windcut:** Reduce the permitted range of background noise during recording to improve sound quality.
- **Location tags:** Attach a GPS location tag to the photo.



- GPS signal strength may decrease in locations where the signal is obstructed, such as between buildings or in low-lying areas, or in poor weather conditions.
- Your location may appear on your photos when you upload them to the Internet. To avoid this, deactivate the location tag setting.

Configuring settings on the Gear 360

Press the Menu key until **Settings** appears on the camera status screen, and then press the OK key to select it. Press the Menu key until the settings option you want to change appears, and then press the OK key to select it.



On the Gear 360, you can configure settings, such as the photo size, video size, timer, and the auto power off option.

Viewing videos or images

Viewing videos

View the recorded videos on the remotely connected mobile device.

- 1 Launch the **Samsung Gear 360** app on the mobile device.
- 2 Tap **360 Gallery** and then select a video.
 -  : Videos recorded by a single lens
 -  : 360-degree videos recorded by dual lenses
- 3 Tap the play icon.

The video will start playing.
- 4 During playback, spread two fingers apart on the screen to zoom in, and pinch them together to zoom out.

To rewind or fast-forward the video, drag the play bar. Tap the point on the play bar that you want to skip to view that section of the video.

To adjust the volume, tap  and drag the bar.

Viewing 360-degree videos

You can use additional features when viewing 360-degree videos recorded by both the front and rear cameras.

Viewing videos from different angles

During playback, drag your finger across the screen in any direction you want. You can change the viewing angle vertically and horizontally in a 360-degree range.

Using the motion view feature

You can also view the video from different angles using the motion feature. During playback, tap **Motion view** and tilt or lightly shake the device.

To deactivate the motion feature, tap **Motion view**.

Changing view mode

During playback, tap **360° view**, **Round view**, **Stretched view**, **Dual view** or **Panoramic view**.

-  **360° view**: Display the image spherically. Drag your finger across the screen in any direction you want to view the image from different angles.
-  **Round view**: Display the image as an inverted panorama. Drag your finger across the screen in any direction you want to view the image from different angles.
-  **Stretched view**: Display the image with a stretched view. Drag your finger across the screen in any direction you want to view the image from different angles.
-  **Dual view**: Split the screen to display each of the front and rear cameras' screens.
-  **Panoramic view**: Display the image with a wide view.

Viewing photos

View the taken images on the remotely connected mobile device.

- 1 Launch the **Samsung Gear 360** app on the mobile device.
- 2 Tap **360 Gallery** and then select an image. If the image was taken by dual lenses, the  icon will appear on the preview screen.
- 3 If the image was taken by dual lenses, tap .
One image taken by the front camera and another from the rear camera will be stitched together and converted into a 360-degree image.

Viewing 360-degree images

You can use additional features when viewing 360-degree images taken by both the front and rear cameras.

Viewing images from different angles

Drag your finger across the screen in any direction you want. You can change the viewing angle vertically and horizontally in a 360-degree range.

Using the motion view feature

You can also view the image from different angles using the motion feature. While viewing the image, tap **Motion view** and tilt or lightly shake the device.

To deactivate the motion feature, tap **Motion lock**.

Changing view mode

While viewing an image, tap **360° view**, **Round view**, **Stretched view**, **Dual view** or **Panoramic view**.

-  **360° view**: Display the image spherically. Drag your finger across the screen in any direction you want to view the image from different angles.
-  **Round view**: Display the image as an inverted panorama. Drag your finger across the screen in any direction you want to view the image from different angles.
-  **Stretched view**: Display the image with a stretched view. Drag your finger across the screen in any direction you want to view the image from different angles.
-  **Dual view**: Split the screen to display each of the front and rear cameras' screens.
-  **Panoramic view**: Display the image with a wide view.

Deleting videos or images

On the Samsung Gear 360 app's screen, tap **360 Gallery**, select the videos or photos you want to delete, and then tap **Delete**.

To delete multiple videos or images, tap and hold a video or an image to delete, select multiple videos or images, and then tap **DELETE**.

Saving videos and images to the mobile device

You can save videos and images captured by the Gear 360 to your mobile device.

On the Samsung Gear 360 app's screen, tap **360 Gallery**, select videos and images to save, and then tap **Save**. The videos and images will be saved in the mobile device. You can view the saved files in **MY PHONE**.



- The resolution of 360-degree videos may be reduced depending on whether your mobile device supports high resolutions.
- When you save 360-degree videos to your mobile device, the file size will be larger due to the use of a different video compression method.

Sharing videos or images

On the Samsung Gear 360 app's screen, tap **360 Gallery** → **MY PHONE**, select the videos or photos you want to share, tap **Share**, and then select a sharing method.



You can only share videos and images saved in **MY PHONE**.

Editing videos

Trimming videos

Select a video from the list and tap **Trim**.

Drag the start bracket and the end bracket to the desired points to set the duration of the video to be played, and then tap **SAVE**.



You can only edit videos saved in **MY PHONE**.

Capturing images from 360-degree videos

While viewing a 360-degree video, tap  → **Frame capture**. The  icon will appear on the screen. Tap  to capture the current image.

Alternatively, you can capture images after selecting the frame you want to capture. Tap  or  until the frame you want to capture appears, and then tap .



- You can view your captured images in **MY PHONE**.
- You can only capture videos saved in **MY PHONE**.

Viewing videos and images using the Gear VR

You can enjoy a 360-degree panoramic view when viewing 360-degree videos and images using the Gear VR.

Installing and signing in to the Oculus app

To view videos and images captured by the Gear **360** on the Gear VR, install the Oculus app on the connected mobile device, and then sign in to your Oculus account.

- 1 Connect your mobile device to the Gear VR.
- 2 When a voice prompt requests you to separate the mobile device from the Gear VR, remove the mobile device.

3 Follow the on-screen instructions on the mobile device to complete the installation.

4 When the sign-in screen appears, sign in to your Oculus account.



- Refer to the Gear VR's manual for more information about connecting the mobile device to the Gear VR and the installation process.
- This content is based on the Gear VR (SM-R324) but some content may differ from the Gear VR's manual.

Viewing 360-degree videos and photos on the Gear VR

You can only view the Gear 360's content saved in the connected mobile device.

1 Save videos and images captured by the Gear 360 to the mobile device.

- **Method 1:** On the mobile device, tap **Samsung Gear 360** app → **360 Gallery** → **GEAR 360**, select files to save, and then tap **Save**.
- **Method 2:** On the mobile device, tap **Tools** → **My Files** → **Internal storage** → **DCIM** → **Gear 360**, and then save files.

2 On the mobile device, sign in to your Oculus account.

3 On the mobile device, tap **Samsung Gear 360** app → **360 Gallery**.

4 Select videos or photos and tap **VIEW ON GEAR VR**.

5 Connect the mobile device to the Gear VR.

The list of content saved in the mobile device will appear on the Gear VR screen.

6 Select content to view using the touchpad on the Gear VR.

You can enjoy the videos and images in a 360-degree view.

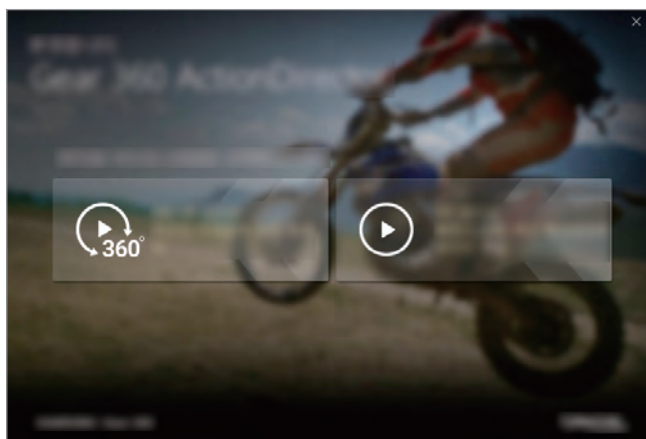


Refer to the Gear VR's manual for more information about viewing content using the touchpad.

Connecting the Gear 360 and a computer

You can edit videos or make a video from images taken with the Gear 360 on your computer. You can also start live broadcasts.

Windows OS supports the Gear 360 ActionDirector program and Mac OS supports the Gear 360 program. You can download these programs from www.samsung.com. For more information, refer to the program's help menu.



Transferring files to a computer

You can transfer files from the Gear 360 to a computer using the Gear 360 as a removable disk for data transfer.



Do not disconnect the USB cable from the device when you are transferring files. Doing so may cause data loss or device damage.



The devices may not connect properly if they are connected via a USB hub. Directly connect the device to the computer's USB port.

- 1 Connect the Gear 360 to the computer using the USB cable.
The Gear 360 will be recognised as a removable disk.
- 2 Transfer files between your Gear 360 and the computer.

Settings

You can configure settings for the Gear 360 and Samsung Gear 360 app.

On the mobile device, tap **Samsung Gear 360** app → **Settings**.

GEAR 360

- **Sound and LED:** Change the notification sound and the light settings.
 - **Volume:** Adjust the notification sound volume or mute the sound.
 - **LED indicator:** Set the indicator light and camera status light to turn on or off.



Even when **LED indicator** is deactivated, the indicator light will turn on in the following situations:

- Battery power is low
 - Charging
 - Fully charged
 - Overheating
- **Auto power off after:** Set the length of time the Gear 360 waits before turning off.
 - **Battery status:** View the battery charging status.
 - **Storage:** Check the memory card's used and available memory capacity.
 - **Reset and format:** Format a memory card or reset the Gear 360.



Format Gear 360 SD card does not appear when a memory card is not inserted or a memory card error occurs.

- **Gear 360 firmware version:** View the software version of the Gear 360 and update the software.

GEAR 360 MANAGER

- **360 Camera settings:** Configure the camera settings.
- **360 Gallery settings:** Change the save settings.
 - **Auto correct angle:** Adjust the angle of videos when saving them on your mobile device.



This feature automatically straightens recorded videos when you save them on your mobile device, so playback may differ from your intended purpose. If you want to record videos without straightening them or move the Samsung Gear 360 while recording a video, you should deactivate this feature.

- **Storage location:** Select the storage location for photos and videos.
- **360 Live Broadcast settings:** Change the 360 Live Broadcast settings.
- **About Samsung Gear 360 app:** View the Samsung Gear 360 app's information or update the software.

Updating the software

The Gear 360 and the Samsung Gear 360 app can be updated to the latest software.

Updating the Gear 360

You can remotely update the Gear 360's software using the Samsung Gear 360 app.

On the mobile device, tap **Samsung Gear 360** → **Settings** → **Gear 360 firmware version** → **CHECK FOR UPDATES**.



- Ensure that the Gear 360 and the mobile device are fully charged.
- Ensure that the Gear 360 and the mobile device are connected.
- Do not turn off the Gear 360 or mobile device while updating the software.

Updating the Samsung Gear 360 app

On the mobile device, tap **Samsung Gear 360** → **Settings** → **About Samsung Gear 360 app** → **UPDATE NOW**.

Appendix

Troubleshooting

Before contacting a Samsung Service Centre, please attempt the following solutions. Some situations may not apply to your Gear 360.

Your Gear 360 does not turn on

When the battery is completely discharged, your Gear 360 will not turn on. Charge the battery completely before turning on the Gear 360.

Another Bluetooth or Wi-Fi device cannot locate your Gear 360

- Ensure that your Gear 360 enters Bluetooth or Wi-Fi pairing mode. Press and hold the Menu key. Then, when **Android OS Gear360App**, or **iOS Gear360App** appears on the camera status screen, press the OK key to enter Bluetooth or Wi-Fi pairing mode.
- Ensure that your Gear 360 and the mobile device to connect with are within the Bluetooth connection range (10 m) or the Wi-Fi connection range (5 m).

If the tips above do not solve the problem, contact a Samsung Service Centre.

A Bluetooth connection is not established or your Gear 360 and the mobile device are disconnected

- Ensure there are no obstacles, such as walls or electrical equipment, between the devices.
- Ensure that the latest version of the Samsung Gear 360 app is installed on the mobile device. Update the Samsung Gear 360 app if it is not up to date.
- Ensure that your Gear 360 and the other Bluetooth device are within the Bluetooth connection range (10 m). The distance may vary depending on the environment the devices are used in.
- Restart both devices and launch the Samsung Gear 360 app on the mobile device again.

The battery icon is empty

Your battery is low. Charge the battery.

The battery does not charge properly (For Samsung-approved chargers)

- Ensure that the charger is connected properly.
- Visit a Samsung Service Centre and have the battery replaced.

The battery depletes faster than when first purchased

- When you expose the Gear 360 or the battery to very cold or very hot temperatures, the useful charge may be reduced.
- The battery is consumable and the useful charge will get shorter over time.

The time on the Gear 360 has been reset

The time will be reset when you update the Gear 360. You can set the time by connecting it to the mobile device via Bluetooth.

Your Gear 360 is hot to the touch

When using the Gear 360 for an extended period, the Gear 360 and its battery may heat up. If the temperature rises above a certain level, the Gear 360 will stop recording and turn off automatically to prevent damage. If the Gear 360 is turned off due to overheating, wait for it to cool down before resuming use.

The memory card icon appears on the camera status screen

- Ensure that a memory card is inserted.
- Ensure that your memory card is not damaged.

Data stored in the Gear 360 has been lost

Always make backup copies of all important data stored in the Gear 360. Otherwise, you cannot restore data if it is corrupted or lost. Samsung is not responsible for the loss of data stored in the Gear 360.

A small gap appears around the outside of the Gear 360 case

- This gap is a necessary manufacturing feature and some minor rocking or vibration of parts may occur.
- Over time, friction between parts may cause this gap to expand slightly.

The lens is dirty

Wipe the lens with a clean, soft cloth.

FCC Warning Statement (FCC ID : A3LSMR210)

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.

Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may 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.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

This equipment complies with FCC RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 5 mm between the radiator and your body.

IC Warning Statement (IC : 649E-SMR210) CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 5 mm between the radiator and your body.

Cet équipement est conforme à l'exposition de la IC rayonnements RF limites établies pour un environnement non contrôlé. L'antenne pour ce transmetteur ne doit pas être même endroit avec d'autres émetteur sauf conformément à la IC procédures de produits Multi-émetteur.

Cet équipement doit être installé et utilisé avec une distance minimale de 5 mm entre le radiateur et votre corps.

Operation in the band 5150–5250 MHz is only for indoor use.

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Le fonctionnement dans la bande 5150-5250 MHz est uniquement destiné à un usage intérieur.

Les utilisateurs doivent également être informés que les radars à puissance élevée sont attribués en tant qu'utilisateurs principaux (c'est-à-dire les utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer des interférences et / ou endommager les dispositifs LE-LAN.

Copyright

Copyright © 2017 Samsung Electronics

This manual is protected under international copyright laws.

No part of this manual may be reproduced, distributed, translated, or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or storing in any information storage and retrieval system, without the prior written permission of Samsung Electronics.

Trademarks

- SAMSUNG and the SAMSUNG logo are registered trademarks of Samsung Electronics.
- Bluetooth® is a registered trademark of Bluetooth SIG, Inc. worldwide.
- Wi-Fi®, Wi-Fi Protected Setup™, Wi-Fi Direct™, Wi-Fi CERTIFIED™, and the Wi-Fi logo are registered trademarks of the Wi-Fi Alliance.
- All other trademarks and copyrights are the property of their respective owners.