Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Use this manual if you encounter any problems, or have any questions about your device.

Software update features

Xperia 1 II features

Photo Pro

Cinema Pro

Game enhancer

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Changes after updating the software to Android 12

In addition to the update of the software to Android 12, some changes are also made to the existing functions. The following are some of the major changes after updating your device to Android 12.
This Help Guide does not describe all Android 12 features and functions. Some features, functions, settings, and elements of the screen design may differ from the content of this Help Guide after updating your device to Android 12.

Taking a screenshot

You can take a screenshot by the following operation.

1. Press the volume down key **(A)** and power key **(B)** at the same time.
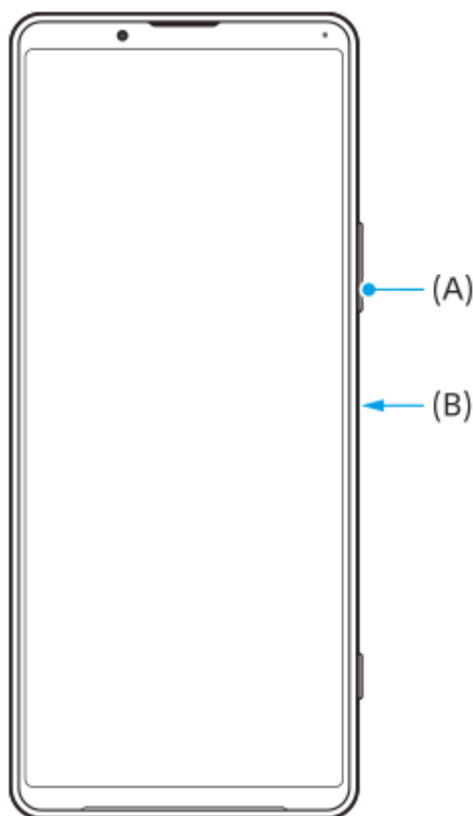
Note

- Screenshots can no longer be taken by long pressing the power key.

Scrolling screenshots

You can take a screenshot of a screen that is scrollable.

Note

- Scrolling screenshots are available if the app supports the feature.

1. Press the volume down key and power key at the same time.

2. Tap [Capture more].

3. Drag the line to adjust the screenshot area, and then tap [Save].

One-handed mode

The method of the one-handed mode has been changed from shrinking the entire screen to lowering it.

1. Find and tap [Settings] > [Display] > [One-handed mode], and then tap the [Use one-handed mode] switch to enable the function.
   To set other options, follow the on-screen instructions.

2. To use the one-handed mode, double-tap ⬤ (Home button).

3. To exit the one-handed mode, double-tap ⬤ (Home button) again or tap anywhere above the app.

Support for the AVIF image format

Android 12 newly supports the AVIF image format. The AVIF image format achieves better compression than other formats with fine image quality.

New features of Photo Pro

[Tips] to access the Photo Pro tips website

[Tips] has been added to the [MENU] items.
Tap [MENU] > [Setup] > [Tips] to go to the Photo Pro tips website.

New features of Cinema Pro

The following menus have been added.
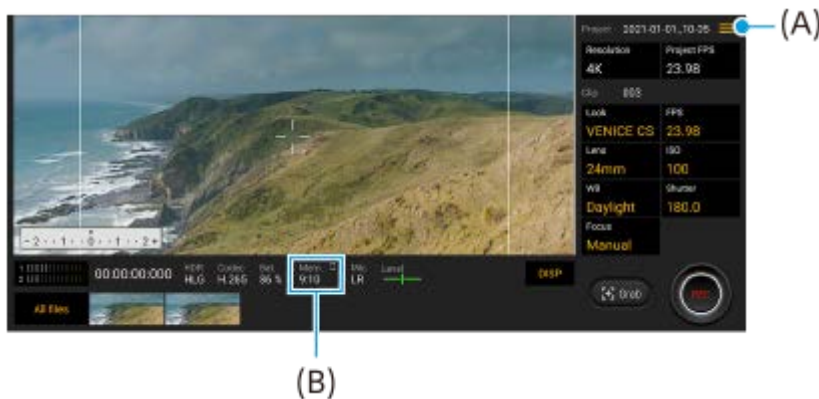
- Switching the unit for displaying the remaining memory **(A)**
  The remaining memory **(B)** can be displayed as the remaining recordable time. Tap ≡ (Menu icon) > [Remaining memory format] to switch the unit for displaying the remaining memory between the remaining recordable time and the remaining memory capacity.

- Accessing the Cinema Pro tips website **(A)**
  Tap ≡ (Menu icon) > [Tips] to access the Cinema Pro tips website.

- Additional [Audio settings] in the menu **(A)**
  You can set [Intelligent wind filter] and [Audio level] in the [Audio settings] menu. Tap ≡ (Menu icon) > [Audio settings].

New features of Game enhancer

Viewing a web site or using other apps while playing a game

1. While playing a game, tap 🎨 (Floating icon) > [Multitasking].
2. Tap [WEB], [YouTube], or [APPS].

   - To go back to the menu, tap ← (Back button).
   - To minimize the [Multitasking] window, tap ⊣⊢ (Minimize button).
   - When you select an app in [APPS], the app opens in the pop-up window.

Tap the pop-up window to display operation icons.
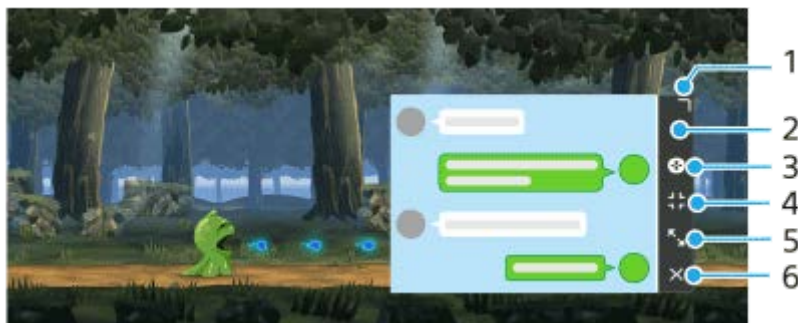
1. Drag to resize the window.
2. Drag to move the window.
3. Display the Game enhancer menu.
4. Tap to minimize the window. To reopen the pop-up window, tap ⬤ (Floating icon) or ▭▬▭ (Pull-down bar).
5. Tap to maximize the window.
6. Tap to close the window.

Assigning actions to the Camera key

You can assign a Game enhancer action used in-game to the camera key. Refer to the appropriate topic listed in "Related Topic" for details.

Other updated features

Turning the screen on with a keypress

You can turn the screen on not only by pressing the power key but also by pressing the camera key or volume key.
To enable the function, tap [Settings] > [System] > [Gestures], and then tap the [Wake up display on keypress] switch.

Related Topic
- Using the camera key as a shortcut key for a Game enhancer actions

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# Changes after updating the software to Android 11

In addition to the update of the software to Android 11, some changes are also made to the existing functions. The following are some of the major changes after updating your device to Android 11.
This Help Guide does not describe all Android 11 features and functions. Some features, functions, settings, and elements of the screen design may differ from the content of this Help Guide after updating your device to Android 11.

Recording your device screen

1. Drag the status bar downwards twice and tap ⦿ (Screen Record icon) in the Quick settings panel.
   If you cannot find ⦿ (Screen Record icon), swipe the Quick settings panel to the left.
   If you cannot find the icon in the Quick settings panel, tap ✎ (Edit icon), and then drag and drop ⦿ (Screen Record icon) into the upper part of the screen.

2. Follow the on-screen instructions to start recording the screen.
   To stop recording, drag the status bar downwards and tap the Screen recorder notification.

Note

- This Screen recorder and similar functions provided by other apps cannot be used at the same time as the [Screenshot] function or the [Record] function of the Game enhancer app.

New features of Photo Pro

Memory recall function

You can register often-used modes or settings in advance and recall them when taking photos.
Tap [MENU] > [Shooting] > [Camera settings memory], and then follow the on-screen instructions.
To use the Memory recall mode, select [MR] in the shooting mode, confirm the settings, and then tap [Set].

Aspect ratio setting

4:3 (Aspect ratio icon) has been added in the Setting icons area on the standby screen.

New features of Cinema Pro
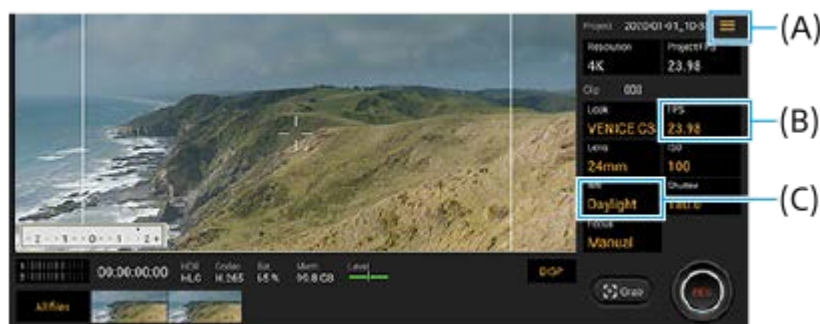
Assigning functions to the camera key or volume keys (A)

You can assign functions to the camera key or the volume keys.
Tap ☰ (Menu icon) and select [Assign camera key] or [Assign volume keys].

Frame rate setting for the 4K images (B)

In addition to while the resolution is set to [2K], [120 (24)] can now be selected for FPS while the resolution is set to [4K].

Resetting the white balance (C)

You can reset the white-balance setting in the clip menus.

Swipe operations for viewing recorded video clips or still images

While playing a video clip or still image, swipe left or right to display the previous or next video clip or still image.

New features of Game enhancer

Storing game icons

You can store and manage all game apps together in My games. Game icons that you store on the Game enhancer app screen will be hidden from the Home screen and the app drawer.
To use this function, tap ⚙ (Settings icon) (A) and turn on the [Store game icons] switch.
Make sure that you have not changed the Home screen from [Xperia Home] and that 🌐 (Game enhancer icon) is located on the Home screen to turn on this function.
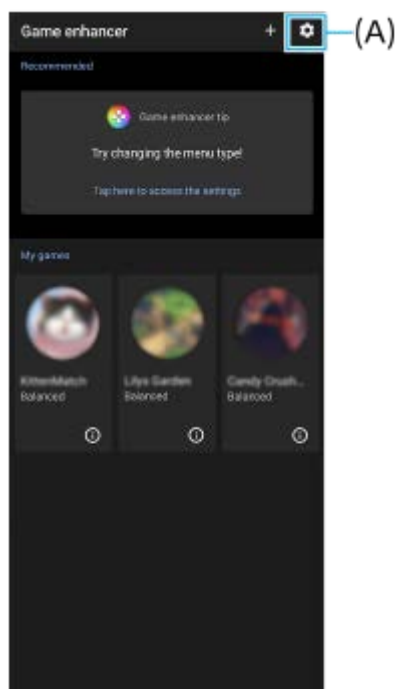
Optimize V.C. microphone

The [Optimize V.C. microphone] function has been added to the [Game mode] menu that appears while gaming.
This function improves the microphone sound quality when voice-chatting while using a headset with a built-in mic connected to the 3.5 mm audio jack of your device, such as a gaming headset.

External monitor app

The External monitor app can help you in the following situations:

- Take advantage of the high-definition display of your Xperia by using it as a camera monitor or a sub-monitor.
- Ensure your subject is in focus by pinching in or out on the smartphone screen to zoom in or out.
- Find the best lighting in various shooting environments using the Brightness adjustment function.

1. Find and tap (External monitor icon) to launch the External monitor app.
   If (External monitor icon) is not in the app tray, find and tap [Settings] > [Device connection] > [Connection preferences], and then tap the [External monitor] switch.

2. Connect a video device.

   - Connect a video device that supports USB Video Class (UVC) output to your Xperia via a USB Type-C cable.
   - Connect a video device that supports HDMI output to your Xperia using an HDMI cable together with an HDMI-UVC conversion adapter.

New features of Side sense

You can move the position of the Side sense bar more easily, and even place it anywhere you want on the screen.
This function can be used when the touch position is set to [Operate on inner edge of screen] in the Side sense settings menu.

- To move the Side sense bar up and down, touch and hold the Side sense bar and drag it.

- To place the touch position anywhere you want on the screen, touch and hold the Side sense bar, and then drag it toward the center of the screen. The shape of the Side sense bar changes to a circle.
  Double-tap the circle to open the Side sense menu.
  Slide your finger up on the circle to display the Multi-window menu and slide your finger down on it to return to the previous screen.
  Drag the circle to the edge of the screen to change the circle back to the Side sense bar.
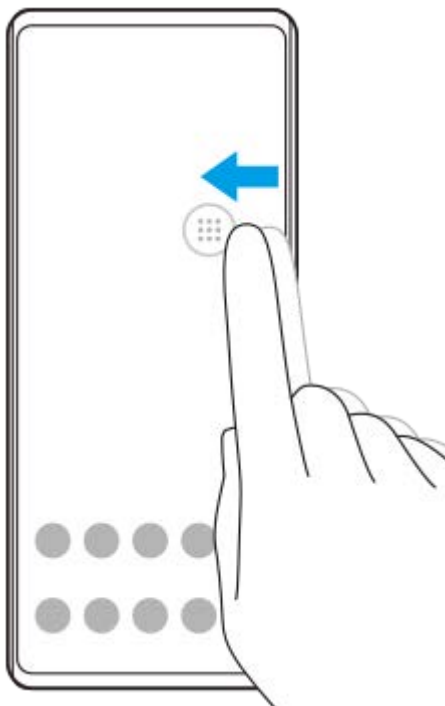
SIM card settings

The menu structures for SIM card settings and mobile network settings have changed.

SIM card setting screen

- When using one SIM card:
  Find and tap [Settings] > [Network & internet] > [Mobile network] to set the SIM card.

- When using two SIM cards:
  Find and tap [Settings] > [Network & internet], and then tap the name of the SIM card whose functions you want to set.
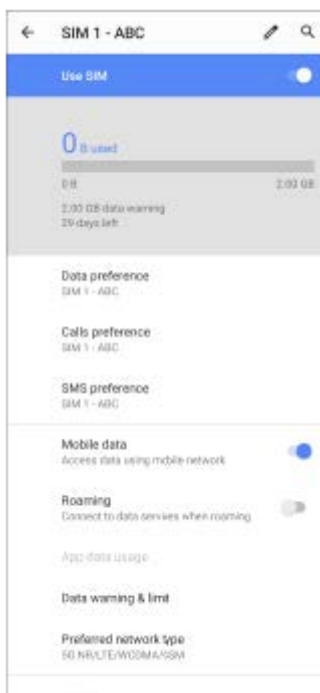
Hint

- If you set one SIM card for calling and the other SIM card for data communications, you may not be able to access the internet while talking on the phone. In this case, turn on the [Data during calls] switch of the SIM card for calling. You will now be able to perform data communications even during calls.

Setting the Dual SIM reachability function (when using two SIM cards only)

Launch the Phone app, and then tap ⋮ (More icon) > [Settings] > [Calling accounts] > [Dual SIM reachability].

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Launching Photo Pro (Photography Pro)

Photo Pro has an interface designed to meet the demands of professional photographers. You can take optimal photos with professional technology.

1 **Find and tap ⊙(Photo Pro icon).**

Photo Pro standby screen

1. **Data storage icon/Amount of free space/Aspect ratio/File format**
   The scene icon or condition icon is also displayed when the AUTO mode is selected.

2. **Battery status**

3. **Dial**

   - Adjust the exposure value when the P mode is selected.
   - Adjust the shutter speed when the S mode or M mode is selected.

4. Tap to lock the focus.
   The button turns orange when the focus is locked. Tap the button again to unlock the focus.

5. Tap to lock the exposure.
   The button turns orange when the exposure is locked. Tap the button again to unlock the exposure.

6. **Setting icons**
   Tap to adjust settings.
   ☐ (Drive mode)/ **AF-C** (Focus mode)/ ⟦⟧ (Focus area)/ ⚡ (Exposure)/**ISO** (ISO)/ ⊡ (Metering mode)/ ⚡ (Flash mode)/**AWB** (White balance)/ 😊AF (Face/Eye AF)/**RAW** (File format)
   The settings depend on the mode or lens selected.
   A feature supporting RAW (File format) will be made available through a software update. Software roll-outs are a phased process; the timing and availability will vary by market and/or operator.

7. Tap to lock the items on the left side of the viewfinder and the settings icons, and prevent accidental operations.

8. **Focus indicator/exposure settings**
   🟢 (Auto focus icon) indicates that the subject is in focus.
   ❋ (AE lock icon) indicates that the exposure is locked.

9. Tap the thumbnail to view, share, or edit photos.
   Tap ◀ (Back button) to return to the Photo Pro standby screen.

10. Tap to switch lenses.
    To use the zoom, tap ❯ (Open zoom dial icon), pinch in or out on the viewfinder, or use the volume key.

11. Tap to show or hide information displayed on the viewfinder.

12. Tap to adjust more detailed settings.

13. Tap to switch the shooting mode.

Related Topic

- Taking a photo using Photo Pro

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Taking a photo using Photo Pro

1 **Launch Photo Pro.**

- Find and tap (Photo Pro icon).
- Press the camera key fully down. While using the Camera app, tap (Settings icon) > [Launch with camera key] > [Launch Photography Pro] to enable this function.
- While using the Camera app, tap [Mode] > (Photo Pro icon).

2 **Select a shooting mode.**

3 **Adjust the settings.**

4 **Press the camera key halfway down to focus.**
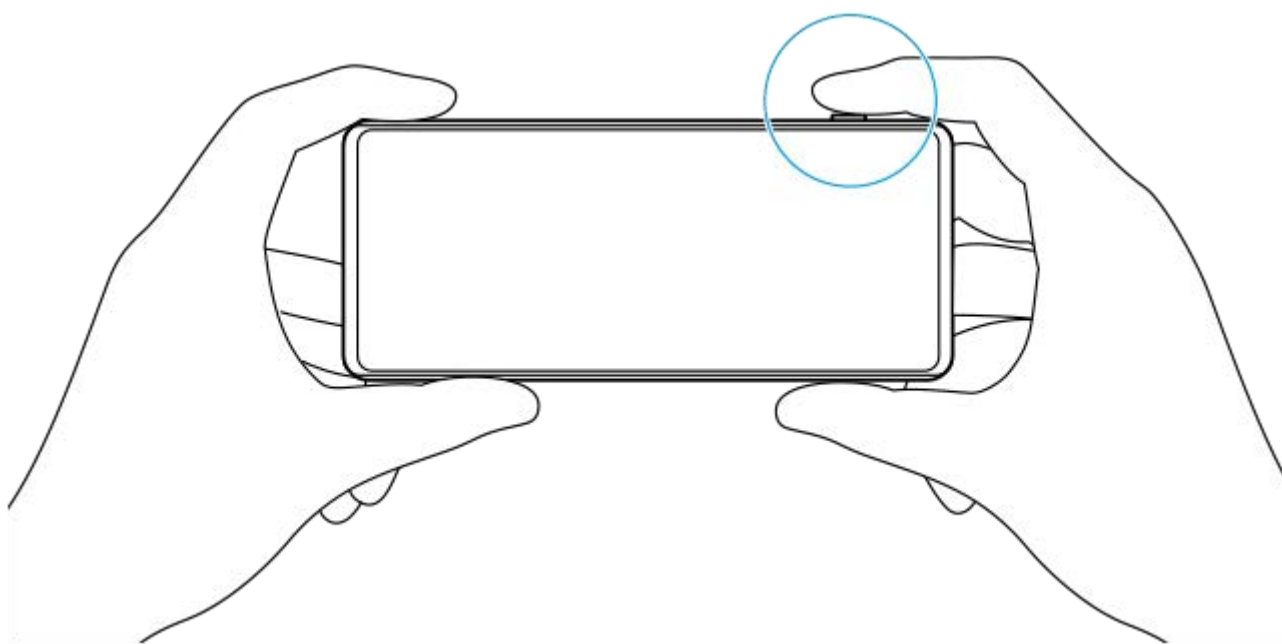
5 **Press the camera key fully down.**

Note

- There is no shutter button on the Photo Pro standby screen. Use the camera key on your device.

Related Topic

- Launching Photo Pro (Photography Pro)

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Launching the Cinema Pro app

Cinema Pro is an application powered by Sony's digital motion picture camera technology. You can create your ideal videos by configuring professional parameters and color settings.

1 Find and tap ![icon] (Cinema Pro icon).

Cinema Pro home screen
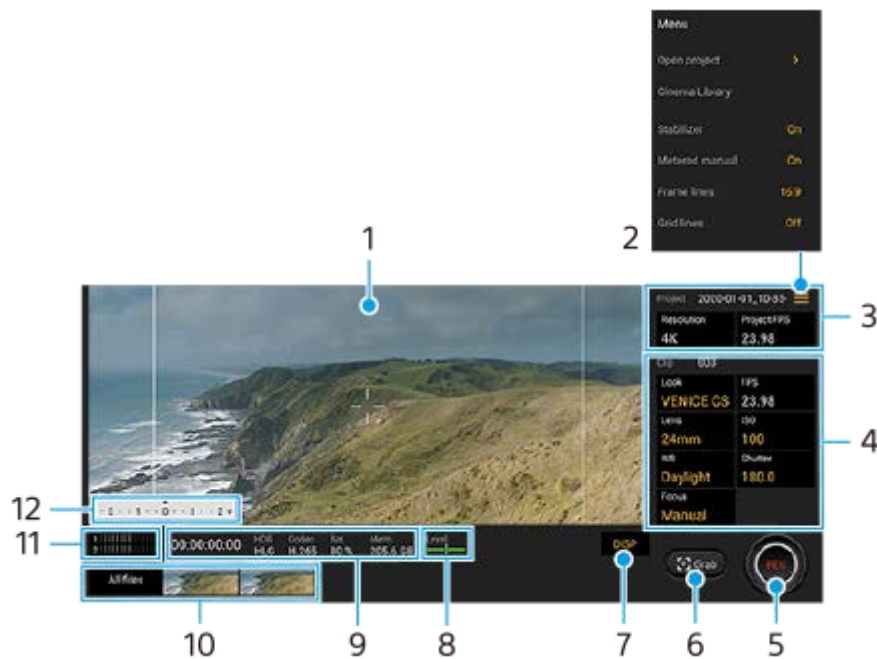
Hint
- Tap orange parameters to change settings.

1. Viewfinder

2. Menu icon – Tap to open the menu.

   - Tap [Open project] to open an existing project or to create a new project.
   - Tap [Cinema Library] to launch the Cinema Library app. You can open an existing project or watch a created film.
   - Tap [Stabilizer] to switch the stabilizer function on or off.
   - Tap [Metered manual] to show or hide the Metered Manual. The Metered Manual is displayed with a metering indicator on the viewfinder.
   - Tap [Frame lines] repeatedly to display and select from various aspect ratios.
   - Tap [Grid lines] to display and balance the composition.
   - Tap [Level] to turn the level meter on or off.
   - Tap [Level calibration] to calibrate the standard for the horizontal plane to fix deviations in the direction of tilt.
   - Tap [Intelligent wind filter] to reduce wind noise.

3. Project settings
   Tap an orange parameter to adjust the resolution and frame rate of the entire project or video clips. The project settings can only be changed before recording the first video clip.

4. Clip settings – Parameters to adjust for each video clip.

- Tap [Look] to adjust the ambience of the video clip.
- Tap [FPS] to adjust the frame rate. Select [120fps] to record a video in slow motion.
  The [FPS] setting is available only when [Resolution] is set to [2K].
- Tap [Lens] to select a lens.
- Tap [ISO] to adjust the ISO value. Tap [Auto] when it is orange to adjust to the appropriate ISO value automatically.
- Tap [WB] to adjust the white balance. You can use the sliders to adjust the white balance.
  To adjust the white balance according to a selected white area, select [Custom], tap [Set], hold your device so that the white area fully covers the frame in the center, and then tap [Set] again.
  If you select [Auto], you can set whether to lock the white balance settings.
- Tap [Shutter] to adjust the shutter speed. Tap [Auto] when it is orange to adjust the appropriate shutter speed automatically.
- Tap [Focus] to adjust the focus. Tap [AF] or [MF] to switch the focus mode to auto or manual. When the focus mode is set to manual, you can adjust the focus markers and speed of focus pulling by tapping ⚙ (Settings icon). When the focus mode is set to auto, you can specify the focus area by tapping the viewfinder.

5. Tap to start or stop recording.

6. Tap to capture the current frame as a still image.

7. Tap to hide or show the frame lines, grid lines, and the Metered Manual.

8. Level meter
   Level meter helps you to measure the angle of the device and keep the picture horizontal. When your device senses that it is level, the level meter turns green.

9. Status indications

10.
- Tap a thumbnail to view a video clip or still image.
- Tap [All files] to view a video clip or still image that is not in the thumbnail view.
- You can capture a still image from the video by tapping 🎬 (Edit video icon) while playing. Tap ◀ (Back button) to return to the Cinema Pro home screen.

11. Tap to change the audio level.

12. Metered manual
    The Metered Manual indicates underexposure/overexposure.

Related Topic

- Combining clips and watching a film

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Combining clips and watching a film

You can combine clips to create a film, and then watch the film using the Cinema Library.

1 **While using the Cinema Pro app, tap [All files] to display a list of clips in a project.**

2 **Tap ⋮ (More icon) > [Create final film].**

3 **Tap the clips in the order in which you want to combine them.**

4 **Tap [Create].**

Note

- Clips with different frame rates cannot be combined.

To watch the created film using the Cinema Library

1. Launch the Cinema Library app.

   - While using the Cinema Pro app, tap [All files] > 🎞 (Cinema Library icon).
   - While using the Cinema Pro app, tap ☰ (Menu icon) > [Cinema Library].
   - Touch and hold 🎬 (Cinema Pro icon), and then tap [Cinema Library] in the menu that opens.

2. Tap [Final films], and then select a film.

Hint

- You can create a shortcut for the Cinema Library app on the Home screen. Touch and hold 🎬 (Cinema Pro icon). From the menu that opens, drag 🎞 (Cinema Library icon) to the desired location.

Related Topic

- Launching the Cinema Pro app

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Launching the Game enhancer app

The **Game enhancer** app makes gameplay much more convenient with various functions. While playing a game, you can prevent notifications from showing up, change the performance settings, and more.
Downloaded games are automatically stored in the **Game enhancer** app, and you can quickly launch the games from My games. You can customize various settings while gaming by tapping 🌈 (Floating icon).

1 Find and tap 🌈 (Game enhancer icon).

Screen overview
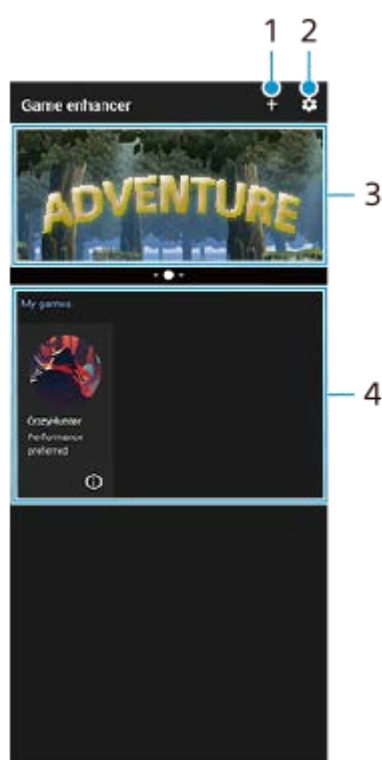
1. Add new games manually.
2. Game enhancer settings
3. Recommended – An introduction to Game enhancer features and recommended games is displayed.
4. My games
   Downloaded games will be automatically listed. Tap a game icon to start the game.
   To view a screenshot or video taken by the Game enhancer app, tap ⓘ (Game profile icon).

Related Topic

- Using Game enhancer while playing

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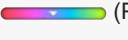
Using Game enhancer while playing

You can customize various settings while playing a game.

1 **While playing a game, tap ⊕ (Floating icon).**

2 **In the menu that opens, tap and configure the desired settings.**
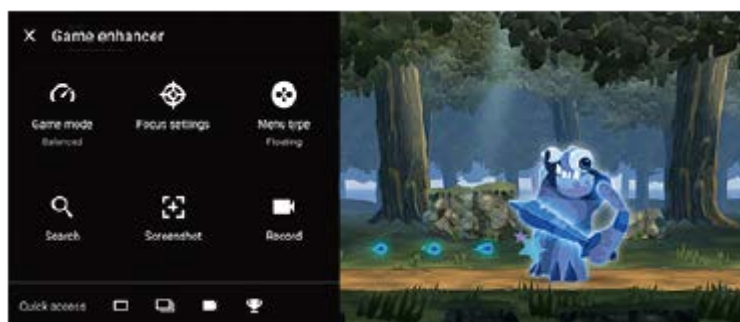
Hint

- You can drag and move ⊕ (Floating icon) to the desired position, such as the edge of the screen. You can also switch ⊕ (Floating icon) to ▬▬ (Pull-down bar). Tap ⊕ (Floating icon) > [Menu type], and then select [Pull-down bar] to switch.

- The STAMINA mode is turned off while you use the Game enhancer app. If you want to give priority to the battery life, set [Game mode] to [Battery life preferred].

- When [Game mode] is set to [Performance preferred], [Motion blur reduction] in [Image quality settings] turns on automatically.

Related Topic

- Launching the Game enhancer app

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Using the camera key as a shortcut key for a Game enhancer actions

You can assign a Game enhancer action used in-game to the camera key. You can change the setting individually for each game.

1 **Tap 🎨 (Floating icon) > [Basic settings] > [Hardware key shortcut] > [Camera key press], and then select an option.**

- [Default (device's settings)]: Apply the device's settings.
- [Open/close Game enhancer]: Open or close the Game enhancer menu.
- [Optimize touch area On/Off]: Turn the [Optimize touch area] function on or off.

Note

- The [Optimize touch area] function is available when [Menu type] is set to [Pull-down bar] and the device is in the landscape mode. If a message appears when you press the camera key, confirm the setting descriptions for the [Optimize touch area] function.

- The [Disable camera key] function in [Focus settings] is turned off when a Game enhancer action is assigned to the camera key.

Hint

- To change the [Hardware key shortcut] setting for all previously added games, on the Game enhancer main screen, tap ⚙ (Game enhancer settings icon) > [Default hardware key shortcut] > [Camera key press], and then select an option and tap [APPLY].

Related Topic

- Launching the Game enhancer app
- Using Game enhancer while playing
- Overview

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Enhancing the sound output using Dolby Atmos®

Using Dolby Atmos makes playback sound more realistic and three dimensional.

1 **Find and tap [Settings] > [Sound] > [Audio settings].**

2 **Enable the Dolby Atmos function by tapping the switch.**

3 **Tap [Dolby Atmos] for more options.**

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Upscaling the quality of compressed music files (DSEE Ultimate)

The DSEE Ultimate function upscales your compressed music accurately using AI technology.

1 **Find and tap [Settings] > [Sound] > [Audio settings].**

2 **Enable the DSEE Ultimate function by tapping the switch.**

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Reducing wind noise when recording

You can remove the noise produced by wind hitting the microphone when recording without losing the original audio quality.

1 **Find and tap [Settings] > [Sound] > [Audio settings] > [Intelligent wind filter].**

2 **Tap the switch to enable the function.**

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Turning Side sense on or off

① **Find and tap [Settings] > [Display] > [Advanced].**

② **Tap [Side sense].**

③ **Tap the switch to enable or disable the function.**

Related Topic

- Using Side sense
- Setting other Side sense options

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Using Side sense

Your device has sensors on the sides that you can tap or slide with one hand in order to use your device more easily. You can display the Side sense menu as a shortcut to applications and settings, or the Multi-window menu to select two applications in the split-screen mode. You can also return to the previous screen by sliding down along the sensor. Make sure to tap or slide your finger within the sensor area. To learn more about Side sense, find and tap [Settings] > [Display] > [Advanced] > [Side sense] > [TRY SIDE SENSE TUTORIAL].
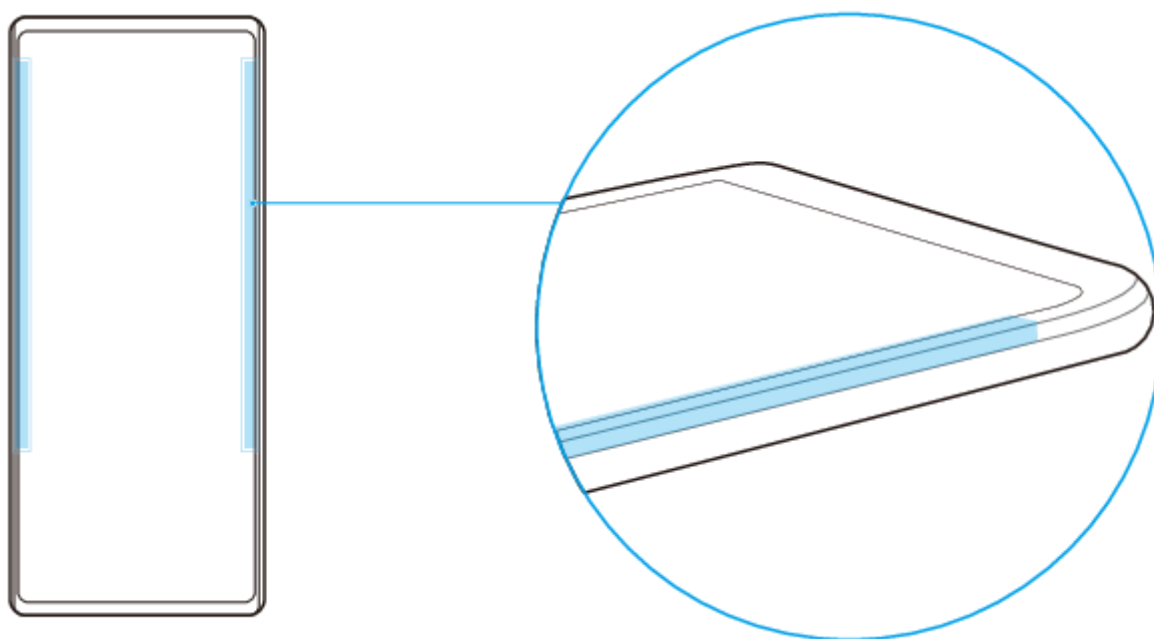
Hint

- You can change the touch position, for example, when the edge of the device is covered by a case. To change the touch position, find and tap [Settings] > [Display] > [Advanced] > [Side sense] > [Configure touch position] > [Manual], and then tap the [Operate on inner edge of screen] switch.

Note

- Side sense is unavailable in certain situations, such as when using a wireless charger or when the screen view is in landscape orientation.

Displaying the Side sense menu

To activate the Side sense menu, double-tap the side of the device.

Displaying the Multi-window menu

Slide your finger up along the side of the device to display the Multi-window menu. Follow the on-screen instructions to add apps to a split-screen.
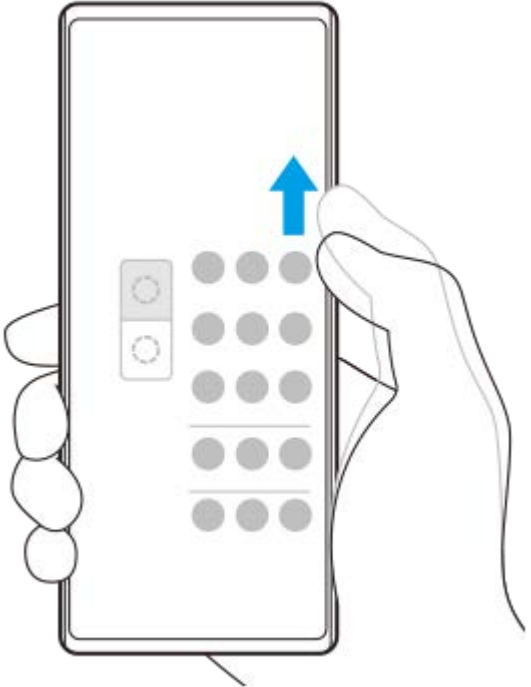
Returning to the previous screen using the side sensor

Slide your finger down along the side of the device to return to the previous screen.
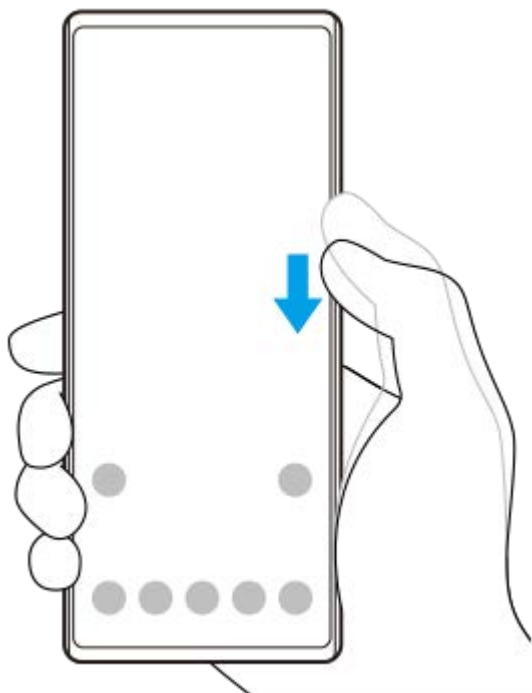
Related Topic

- Turning Side sense on or off
- Setting other Side sense options

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Setting other Side sense options

You can configure how Side sense behaves or customize the menu, etc.
For example, the following options are available for Side sense.

- Whether to use Side sense on one or both sides of your device
- The screen actions for gesture
- Whether to use Side sense on the inner edge of the screen or the side of the device

1 **Find and tap [Settings] > [Display] > [Advanced].**

2 **Tap [Side sense].**

3 **Tap the switch to enable the function.**

4 **Follow the on-screen instructions in the lower part of the screen to edit other Side sense options.**

Related Topic

- Turning Side sense on or off
- Using Side sense

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Charging your device with a wireless charger

You can purchase a wireless charger to charge your device wirelessly.
If you use your device while charging, the charging speed may become slower or even stop to protect the battery. The use of some applications while charging may disable charging or affect the charging function. For example, using the camera during wireless charging may cause static noise on the image.
Be sure to remove any screen or phone covers when using the wireless charging function.
Note the following:

- Do not put any metal parts between the device and the charger, due to risk of heat injury.
- Do not put any credit cards on the charger, since they may get demagnetized or broken.

Note

- If your device is incorrectly placed on the wireless charger, charging time will increase significantly.
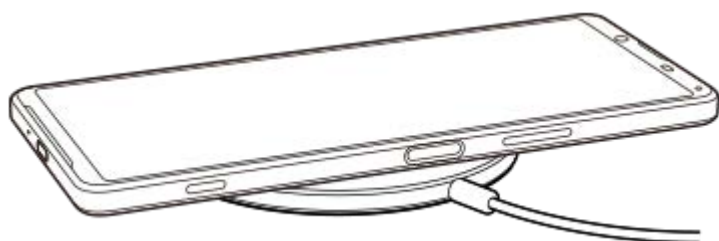
1. **Place your device on the wireless charger according to the charger's instructions.**

   The wireless charging coil on the backside of your device must be in contact with the charger for charging to work.

2. **When charging begins, the notification light illuminates and the charging icon appears on screen.**

3. **Once your device is fully charged, remove it from the wireless charger.**

Related Topic

- Overview

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Using the Split-screen mode

Split-screen mode enables you to view two applications at once, for example, if you want to view your photos and the Calendar at the same time.
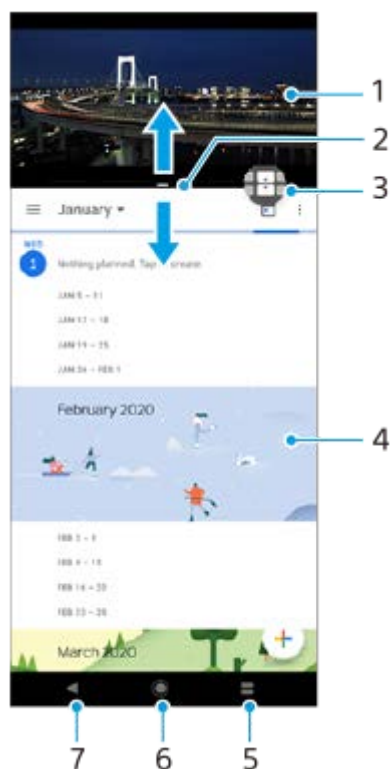
1. **Application 1**
2. **Split-screen border** – Drag to resize windows
3. **Multi-window switch icon** – Tap ⊞ (Multi-window switch icon) to select applications. ⊞ (Multi-window switch icon) appears when you drag the split-screen border.
4. **Application 2**
5. **Split-screen button** – Select a recently used application for the lower window
6. **Home button** – Go back to the Home screen
7. **Back button** – Go back to the previous screen within an application or close the application

Note

- Not all applications support split-screen mode.

To resize the split-screen windows

1. Drag the split-screen border in the center.

To exit the split-screen mode

1. Drag the split-screen border to the top or bottom of the screen.

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Using Dynamic Vibration

The Dynamic Vibration feature enhances your media experience by adding synchronized vibration when you watch videos or listen to music on your device. To learn more about this feature, go to [Settings] > [Sound] > [Dynamic Vibration].
There is no vibration in the following cases:

- The media volume is set to silent.
- The screen is off.
- The device is being charged wirelessly.

Note

- Dynamic Vibration does not work with all media apps.

1 **Find and tap [Settings] > [Sound] > [Dynamic Vibration].**

Related Topic

- Adjusting Dynamic Vibration settings within a media app

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Xperia 1 II XQ-AT51/XQ-AT52

Adjusting Dynamic Vibration settings within a media app

You can adjust the vibration level while playing content using a media app.

1 **Open the desired media app, such as the Music app.**

2 **Start playback of the media contents.**

3 **Press the volume key to open the volume panel.**

4 **Drag the slider for Dynamic Vibration to set the preferred level for this app.**

The Dynamic Vibration setting is saved for the next time you use this app.

Dynamic vibration levels

- **Off**: No vibration
- **Mild**: Less vibration
- **Normal**: Well-balanced vibration
- **Powerful**: More vibration

Note

- There is no vibration if the media volume is set to silent.

Related Topic

- Using Dynamic Vibration

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Setting the Ambient display

The Ambient display lets you view information such as the time, notifications, or music on the screen when the screen is turned off. The Ambient display can also show album art while music is playing.

Adjusting the Ambient display settings

1. Tap [Settings] > [Appearance] > [Ambient display (Always-on display)].
2. Tap [When to show Ambient display], and then select the desired setting.
3. Close the setting menu.
   The setting is saved.

Hint

- The default setting is [Smart activation], which activates the Ambient display when needed, for example, when walking with the device in your hand, or when taking the device out of your pocket or bag.

Displaying an image on the Ambient display

1. Tap [Settings] > [Appearance] > [Ambient display (Always-on display)].
2. Tap [Sticker], and then select your desired sticker or photo.
3. Close the setting menu.
   The setting is saved.

SONY

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Using Smart call handling

You can handle incoming calls without touching the screen by turning on the Smart call handling function. Once activated, you can handle calls in the following way:

- Answer: bring the device to your ear.
- Reject: shake the device.
- Ringer off: place the device face down.

1 **Find and tap [Settings] > [System] > [Gestures] > [Smart call handling].**

2 **Tap the switch to enable or disable the function.**

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

About this Help Guide

This is the Xperia 1 II Help Guide for the Android 10 software version. If you are not sure which software version your device is running, you can check it in the Settings menu.
For information on common Android features and settings (such as Android basic settings, Wi-Fi settings, home screen settings, content transfer, application screen navigation, notifications and other Google application features) please refer to support.google.com/android/.

> **Note**
> - System and application updates can present the features in your device in another way than described in this Help Guide. The Android version might not be affected in an update.

To check the current software version and model number of your device

Find and tap [Settings] > [About phone]. The current software version is displayed under [Build number]. The current model number is displayed under [Model].

Limitations to services and features

Some of the services and features described in this Help Guide may not be supported in all countries or regions, or by all networks or service providers. The GSM International Emergency Number can always be used in all countries, regions, networks and by all service providers, provided that the device is connected to the mobile network. Please contact your network operator or service provider to determine the availability of any specific service or feature and whether additional access or usage fees apply.
The use of certain features and applications described in this guide may require access to the internet. You may incur data connection charges when you connect to the internet with your device. Contact your wireless service provider for more information.

Related Topic

- Before updating your device
- Updating your device wirelessly
- Updating your device using a computer

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Overview
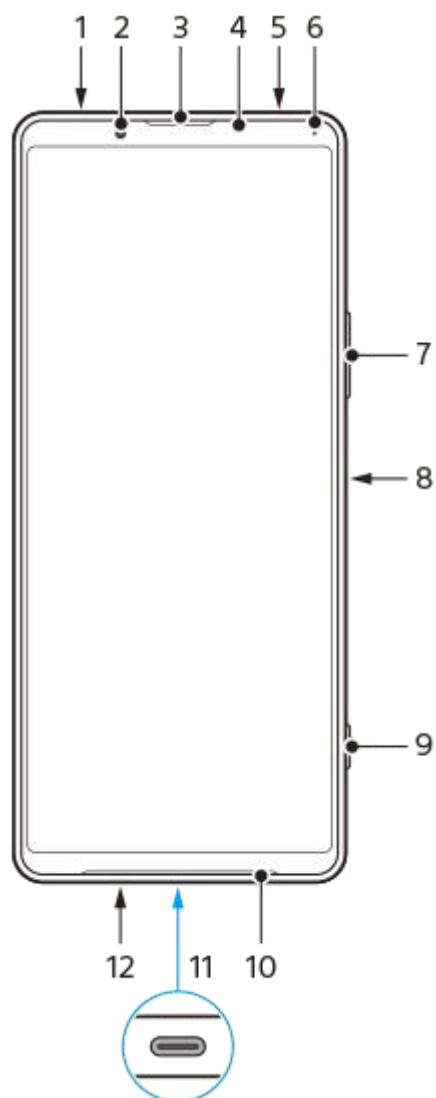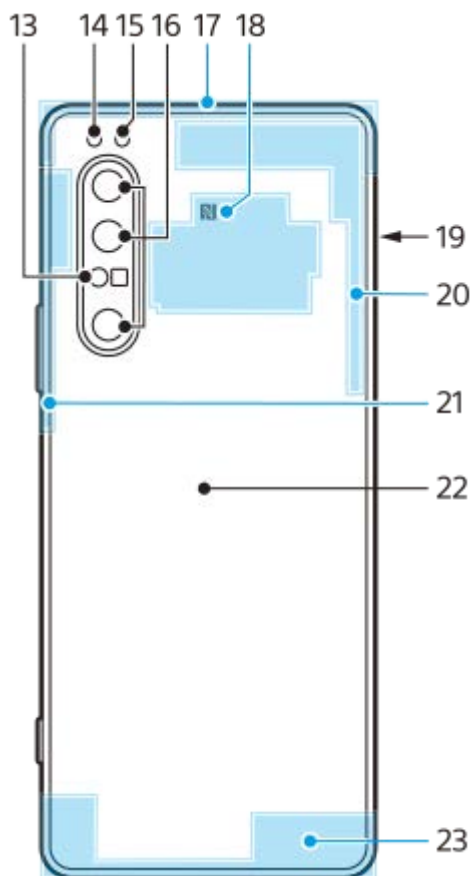
1. Headset jack
2. Front camera
3. Ear speaker/Second loudspeaker
4. Proximity/Light sensor
5. Second microphone
6. Charging/Notification light
7. Volume/Zoom key
8. Power key/Fingerprint sensor
9. Camera key
10. Main loudspeaker
11. USB port/Charger

   You can view the screen of your device on a TV or other large display device using a USB Type-C® cable.

   You can also access the internet via an Ethernet LAN cable by using a commercially available USB-LAN adapter.

   Note

   - When you connect your device to a TV or other large display using a USB Type-C cable, the cable must be compatible with the display port standard. Note that some functions or content on your Xperia device may not be displayable on the TV or display device.

   - Some USB-LAN adapters may not work properly.

12. Main microphone
13. Laser AF sensor
14. Flash LED
15. RGBC IR sensor
16. Main camera
17. Sub cellular antenna
18. NFC detection area
19. Nano SIM/Memory card slot
20. 4th cellular/Wi-Fi/Bluetooth®/GPS antenna
21. 3rd cellular antenna
22. Wireless charging coil

23. Main cellular antenna

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Smartphone
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Assembly - Single SIM

Your device only supports nano SIM cards. Single SIM devices allow you to use one SIM card and a memory card.
The SIM and memory cards go in different parts of the nano SIM and memory card tray. Make sure you do not confuse
the two.

Note

- To prevent data loss, make sure you turn off your device before you drag out the tray to remove the nano SIM card or memory card from the device.
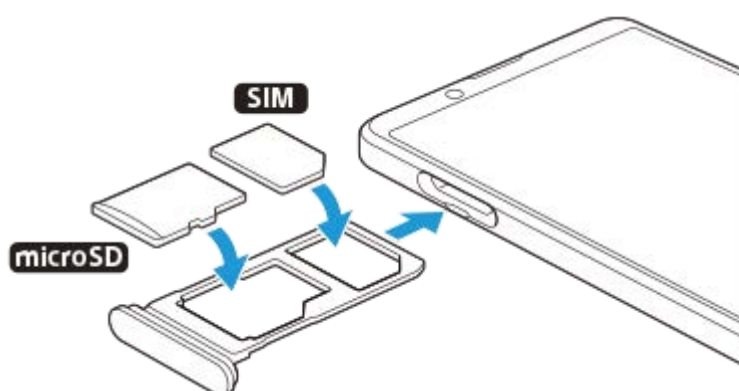
Note

- Do not cut your SIM card, as this may damage your device.

1. **Drag out the SIM card tray.**

2. **Place the SIM card securely in the SIM card tray.**

3. **Place the memory card securely in the memory card tray.**

4. **Gently push the SIM card tray back into the slot until it fits into place.**

Related Topic

- [Finding the IMEI number(s) of your device](#)

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Assembly - Dual SIM

Your device only supports nano SIM cards. Dual SIM devices support the use of either two nano SIM cards or a nano SIM card and a memory card.
Dual SIM devices are not available in all markets or from all operators.

Note

- To prevent data loss, make sure you turn off your device before you drag out the tray to remove the nano SIM card (or cards) or memory card from the device.
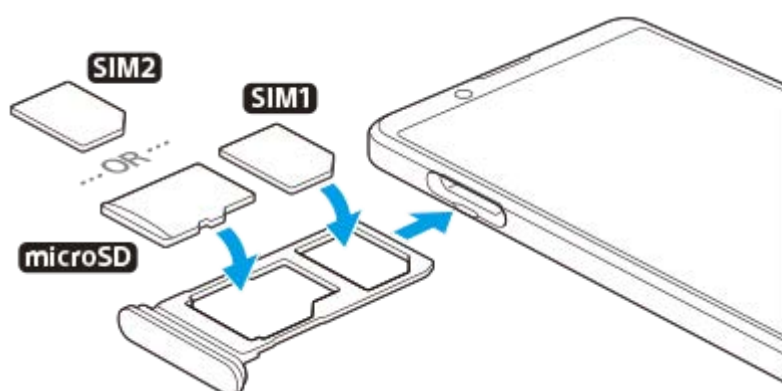
Note

- Do not cut your SIM card, as this may damage your device.

1. **Drag out the SIM card tray.**

2. **Place the main SIM card securely in position for SIM1.**

3. **Place either the second SIM card (SIM2) or the memory card securely in the tray, in the correct orientation.**

4. **Gently push the SIM card tray back into the slot until it fits into place.**

Related Topic

- [Finding the IMEI number(s) of your device](#)

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Using a Dual SIM device

A Dual SIM device enables you to do the following:

- Receive incoming communications via both SIM cards.
- Select the number from which to send outgoing communications, or have the option to select a SIM card each time you place a call.
- Forward calls received via SIM 1 to SIM 2 when SIM 1 is unreachable, and vice versa. This function is called Dual SIM reachability. You must enable it manually.

Before using multiple SIM cards, you need to enable them and select a SIM card which will handle data traffic.

Hint
- A Dual SIM device works with either one or two SIM cards inserted.

Enabling or disabling the use of two SIM cards

1. Find and tap [Settings] > [Network & internet] > [SIM cards].
   You may find the item under [Advanced].

2. Tap the [SIM 1] and [SIM 2] switches to enable or disable the SIM cards.

Renaming a SIM card

1. Find and tap [Settings] > [Network & internet] > [SIM cards].
   You may find the item under [Advanced].

2. Select a SIM card and enter a new name for it.
3. Tap [OK].

Selecting which SIM card handles data traffic

1. Find and tap [Settings] > [Network & internet] > [SIM cards] > [Cellular data].
   You may find the item under [Advanced].

2. Select the SIM card you want to use for data traffic.

Setting the default SIM card for placing a call

1. Find and tap [Settings] > [Network & internet] > [SIM cards] > [Calls].
   You may find the item under [Advanced].

2. Select an option.

Enabling the Dual SIM reachability function

1. Find and tap [Settings] > [Network & internet] > [SIM cards] > [Dual SIM reachability].
   You may find the item under [Advanced].

2. Under [Dual SIM reachability], tap the switch to enable the function.
3. Follow the on-screen instructions to complete the procedure.

Note

- The Dual SIM reachability function may not be available depending on the combination of network operators that provided the SIM cards.

Hint

- If the Dual SIM reachability function does not work after you enable it, check that you have entered the phone numbers correctly for each SIM card. In some cases, the numbers are detected automatically during setup. Otherwise, you are prompted to enter them manually.

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Screen protection

Note

- Before using your device, remove all protection films to enable full functionality.

Screen covers and protectors may help you protect your device against damage. We recommend you use only those screen covers intended for your Xperia device. The use of third-party screen protection accessories may prevent your device from working correctly by covering sensors, lenses, speakers, or microphones and can invalidate the warranty.

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Starting your device for the first time

It is recommended that you charge the battery for at least 30 minutes before starting up your device for the first time. You can still use your device while it is charging.
The first time you start your device, a setup guide helps you to configure basic settings, personalize your device, and sign in to your accounts, for example a Google account.

1 **Long press the power key until your device vibrates.**

To turn off the device

1. Long press the power key until the options menu opens.
2. Tap [Power off].

Note

- It may take a while for the device to shut down.

Related Topic

- Charging your device

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Setting up a Google account on your device

Your device from Sony runs on the Android platform developed by Google. A range of Google applications and services is available on your device when you purchase it, for example, Gmail, Google Maps, YouTube, and the Google Play application. To get the most out of these services, you need a Google account. For example, a Google account enables you to do the following:

- Download and install applications on Google Play.
- Synchronize your email, contacts, and calendar using Gmail.
- You can back up, restore, and transfer your data from an old device to your new device.
- Chat with friends using the Google Duo application.
- Synchronize your browsing history and bookmarks using the Chrome web browser.
- Identify yourself as the authorized user after a software repair using Xperia Companion.
- Remotely find, lock, or clear a lost or stolen device using the Find my device services.

For more information, go to support.google.com/.

1 **Find and tap [Settings] > [Accounts] > [Add account] > [Google].**

2 **Follow the on-screen instructions to create a Google account, or sign in if you already have an account.**

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Transferring content from your old device

There are several ways to transfer your data from an old device to your new device.

- Synchronize data using Google account
- Copy and transfer data using a computer
- Copy and transfer data using an SD card

For more information, go to support.google.com/android/.

Smartphone
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Making sure your device is protected

Your device includes security options, strongly recommended in case of loss or theft.
There are several ways to protect your device, as listed below. Find and tap [Settings], and then search for the settings at the top of the screen.

- Screen lock
- Fingerprint Manager
- SIM card lock

You can register fingerprints to use as a security method for unlocking your device or authenticating purchases. Find and tap [Settings] > [Security] > [Fingerprint Manager], and then follow the on-screen instructions.
For more information, go to support.google.com/android/.

Note

- When using a security option to protect your device, it is crucial to remember the details provided at set up.

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Finding the IMEI number(s) of your device

Your device has one or two unique identification numbers that are referred to as IMEI or Product ID. You should keep a copy of this. You may require it if your device is stolen or when contacting support.

Viewing your IMEI number(s) using the dialpad

1. Find and tap (Phone icon).
2. Tap (Dialpad icon).
3. Enter *#06# into the dialpad. The IMEI number(s) are displayed automatically.

Viewing your IMEI number(s) on the tray
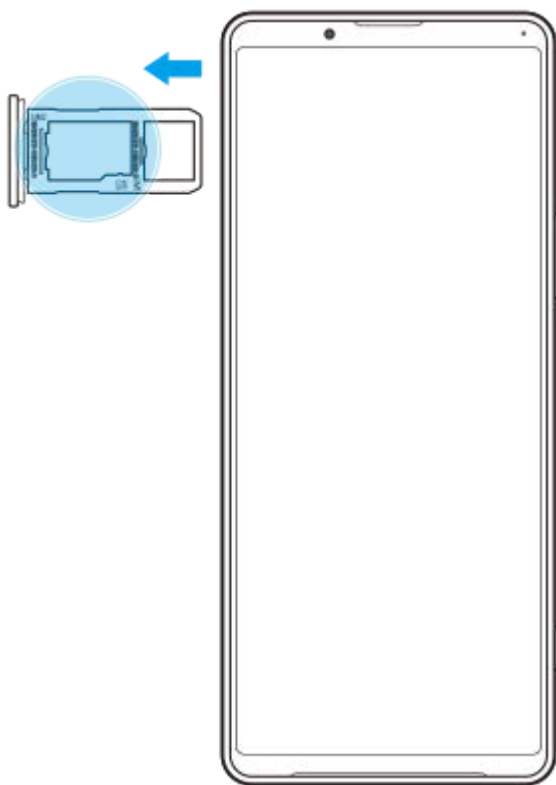
1. Drag out the SIM card tray. The IMEI number(s) is(are) displayed on the tray.

Smartphone
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Finding, locking, or erasing a lost device

Google offers a location and security web service called "Find my device". After you sign in to a Google account, "Find my device" is turned on by default. If you lose your device, you can use "Find my device" to find, lock, or erase it.
For more information, go to support.google.com/android/.

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Turning the screen on or off

When your screen is turned off, your device can be locked or unlocked, depending on your screen lock setting.
The Ambient display feature enables you to view information such as the time and notifications without pressing the power key.

1 **Briefly press the power key.**

Hint

- If the Ambient display is set to [Smart activation] or [Show when device is lifted], the screen is turned on automatically when you pick up your device.

Related Topic

- Setting the Ambient display

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Adjusting the idle time before the screen turns off

When your device is on and left idle for a set period of time, the screen dims and turns off to save battery power. You can change how long your screen stays active before it turns off.

1 **Find and tap [Settings] > [Display] > [Screen timeout].**

2 **Select an option.**

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Smart backlight control

The smart backlight control keeps the screen on as long as the device is held in your hand. Once you put down the device, the screen turns off according to your screen timeout setting.

1 **Find and tap [Settings] > [Display] > [Advanced] > [Smart backlight control].**

2 **Tap the switch to enable or disable the function.**

Related Topic

- Adjusting the idle time before the screen turns off

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Xperia 1 II XQ-AT51/XQ-AT52

One-handed mode

Enable One-handed mode to adjust the display size so you can type with one hand more easily.

1 **Find and tap [Settings] > [Display] > [Advanced] > [One-handed mode].**

2 **Tap the [One-handed mode] switch to enable or disable the function.**

3 **To shrink the screen, double-tap ⦿ (Home button).**

To exit One-handed mode, double-tap ⦿ (Home button) again or tap an empty area on the screen.

To adjust the position of the screen

- **To move the screen to the left side or to the right side**: tap ⟨ (Left arrow icon) or ⟩ (Right arrow icon) accordingly.

- **To move the screen upwards or downwards**: drag the horizontal stripes at the edge of the resized screen.

- **To resize the screen**: drag ⌐ (Resize screen icon) at the edge of the resized screen.

> **Hint**
> - You can shrink the screen by using the Side sense menu.

Related Topic
- Using Side sense

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Taking a screenshot

You can capture still images of any screen on your device as a screenshot. After you take a screenshot, you can view, edit, and share the image. Screenshots you take are automatically saved in your device's internal storage.

1 **Press the volume down key (A) and power key (B) at the same time.**
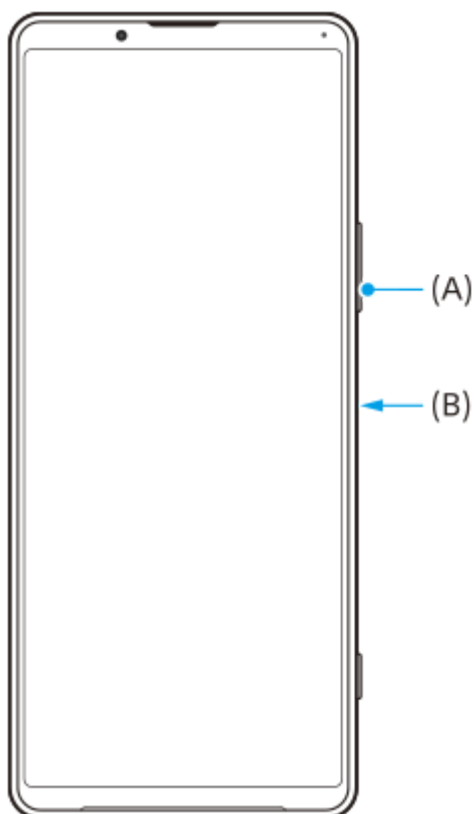
To take a screenshot of a recently used app

1. Tap ▆ (Overview button) in the navigation bar.
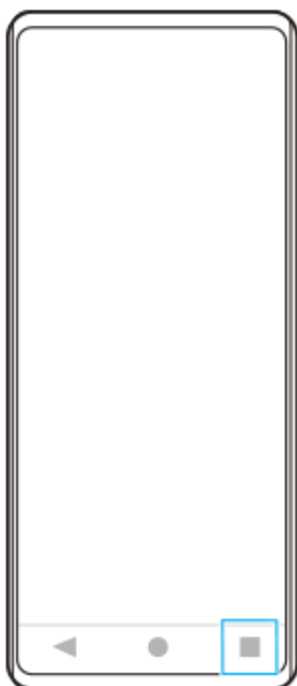
2. Swipe left or right to select the app of which you want to take a screenshot, and then tap [Screenshot].

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Notification light

The notification light informs you about battery status and some other events. The notification light is enabled by default but can be disabled manually.

Note

- When the notification light is disabled, it only lights up when there is a battery status warning, for example, when the battery level goes below 15 percent.

1 **Find and tap [Settings] > [Apps & notifications] > [Configure notifications].**

2 **Tap the [Use LED light to show incoming notifications] switch to enable or disable the function.**

You may find the item under [Advanced].

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Status icons

	(Signal strength icon) The mobile network mode is also displayed when sending and downloading mobile data.
	(No signal icon)
	(Data roaming icon)
	(Wi-Fi signal icon) A Wi-Fi connection is enabled and data is being transmitted. The number displayed to the left of the icon differs according to the Wi-Fi standard of the current connection.
	(Wi-Fi connection error icon) A Wi-Fi connection is enabled but there is no internet connection. This icon also appears when you are trying to connect to a captive portal network. After a successful login, the cross mark disappears. If Google is blocked in your area, the cross mark may appear even when the device is connected to a network and there is a Wi-Fi working internet connection.
	(Battery status icon)
	(Charging battery icon)
	(STAMINA mode icon)
	(Airplane mode icon)
	(Microphone muting icon)
	(Speakerphone icon)
	(Muting icon)
	(Vibrate icon)
	(Alarm icon)
	(GPS icon)

Related Topic

- Notification icons

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Notification icons

	(New SMS icon)
	(Ongoing call icon)
	(Missed call icon)
	(Phone call on hold icon)
	(Call forward icon) Single SIM device: Call forwarding is turned on
	(Call forward icon) Dual SIM device: Call forwarding is turned on
	(Downloading data icon)
	(Uploading data icon)
	(Software setup icon) A basic setup of your device is available
	(Install latest software icon) A software update is available
	(System update icon) System updates are available
	(Downloading system update icon)
	(Installing downloaded system update icon)
	(Battery Care icon)
	(Dynamic Vibration icon)
	(Screenshot icon) Screenshot captured
	(Music playing icon) A song is playing
	(More notifications icon) More undisplayed notifications

Note

- Not all icons that may appear on your device are listed here. This list is for reference purposes only, and changes may be made without notice.

Related Topic

- Status icons

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Charging your device

You can charge your device from a wall socket or computer. You can still use your device while charging.
If the battery is depleted, it may take up to 10 minutes for your device to respond to the charging. During this time, the screen may remain completely dark, not showing the charging icon. It can take couple of hours for a completely drained battery to be fully charged. Charging speed may be affected by ambient temperature.
Always use the original Sony charger and a USB cable intended for your specific Xperia model, since other types of chargers can increase charging time, not charge at all, or may even damage your device.

Note

- Your device has an embedded, rechargeable battery that can only be replaced by an authorized Sony repair center. Never try to open or take apart the device yourself. Doing so can cause damage and void your warranty.

Hint

- A wall socket charger will charge your device faster than charging via computer. You can still use your device while charging.
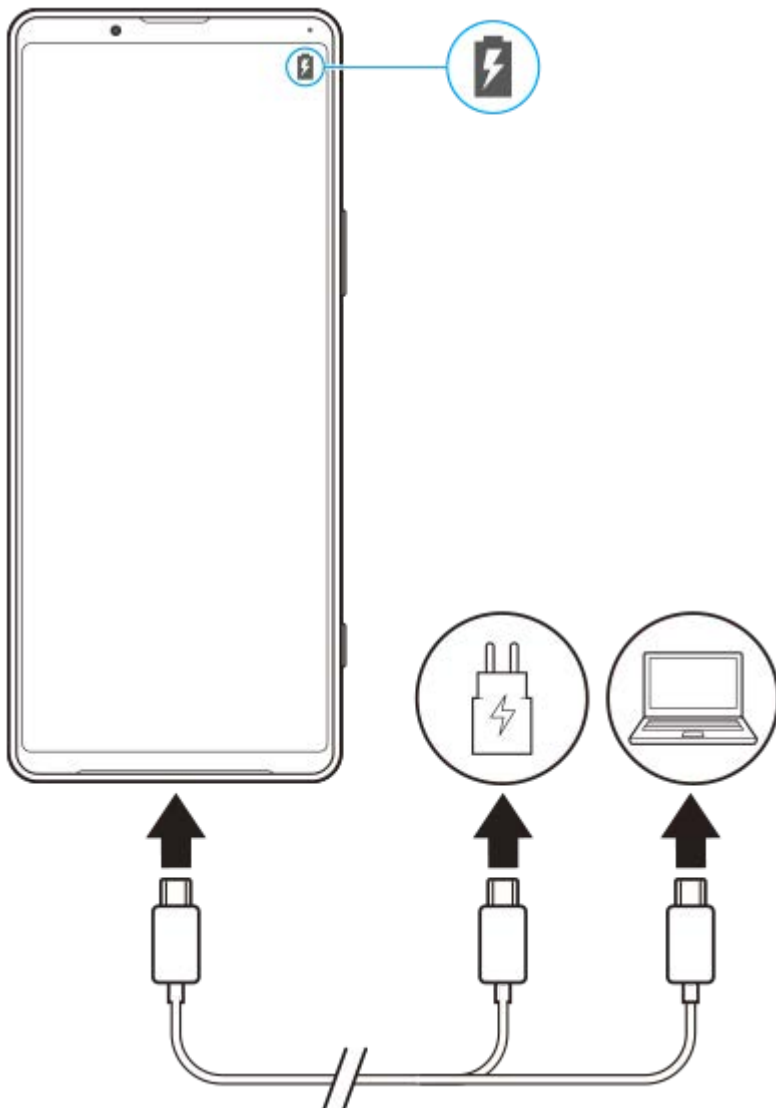
1 **Connect one end of the USB cable to the charger (or to the USB port of a computer).**

2 **Connect the other end of the cable to the USB port on your device.**

The notification light illuminates when charging begins.

3 **When the device is fully charged, disconnect the cable from your device by pulling it straight outwards.**

Make sure not to bend the connector.

Battery notification light status

- Green: Battery is charging, charge level is greater than 90%
- Orange: Battery is charging, charge level is 15–90%
- Red: Battery is charging, charge level is less than 15%

Note

- It is important to use the USB cable that came with your device, as other types of USB cables can damage your device.

Hint

- If the battery is completely depleted, it may take up to 10 minutes before the notification light illuminates and the charging icon appears.

Related Topic

- Battery and power management

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Battery and power management

Your device has an embedded battery. To get the most use from it, keep track of the power consumed by different applications and features.
You can also use Battery Care to increase the battery's lifetime. The Power-saving feature is activated by default to restrict applications from using battery power in the background. If you do not want an application to be affected, you can make it exempt in the Power-saving feature menu. Phone calls and SMS are not affected.

> **Note**
>
> - System updates may change the power-saving features available on your device.

General usage tips to improve battery performance

The following tips can help you improve battery performance:

- Lower the screen brightness level.
- Turn off Bluetooth, Wi-Fi, and location services when you do not need these features.
- Turn off your device or use Airplane mode if you are in an area with no or low network coverage. Otherwise, your device repeatedly scans for available networks, and this consumes power.
- Use a Wi-Fi network instead of roaming when abroad. Roaming is scanning for your home network and puts additional demands on your battery as your device must transmit with a higher output power.
- Change the synchronization settings for your email, calendar, and contacts.
- Check the applications that have a high battery consumption and consider the battery saving tips provided on your device for these applications.
- Change the notification level for an application.
- Turn off the location-sharing permission for an application.
- Uninstall applications that you are not using.
- Use a Sony original handsfree device to listen to music. Handsfree devices consume less battery than your device's loudspeakers.
- Restart your device every now and then.

To review your battery consumption

1. Find and tap [Settings] > [Battery] to view the estimated remaining battery percentage and battery time.
2. Tap ⋮ (More icon) > [Battery usage] to view a list of applications and features that have consumed battery power.

Related Topic

- Charging your device
- Checking battery consumption for applications
- Battery Care
- Making applications exempt from the Power-saving feature
- Screen settings
- Turning the Bluetooth function on or off
- Using location services
- Restarting, resetting, and repairing your device

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Checking battery consumption for applications

You can check battery consumption for applications, and change the settings if necessary.

1 **Find and tap [Settings] > [Apps & notifications].**

2 **Select an application and review its battery consumption under [Battery].**

You may find the item under [Advanced].

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Making applications exempt from the Power-saving feature

1 Find and tap [Settings] > [Apps & notifications] > [Advanced] > [Special app access] > [Power-saving feature].

2 Select [All apps] from the pull-down menu.

3 Select the application listed as [Applied], and then follow the on-screen instructions.

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STAMINA mode

The STAMINA mode prolongs the time until the battery needs charging by disabling some functions of the device. When you turn on the STAMINA mode, the display switches to the Dark theme mode.
Depending on the STAMINA level, different features will be restricted or disabled in order to reduce battery consumption. These include rendering performance, screen brightness, image enhancement, and GPS while the screen is off.
Synchronizing of background app data or streaming may be disabled for some applications.
You can set the STAMINA mode to turn on or off automatically according to the battery level. Follow the on-screen instructions for detailed settings.

1 **Find and tap [Settings] > [Battery] > [STAMINA mode].**

2 **Tap [Turn on now].**

Hint

- You can exempt applications from being optimized by STAMINA mode in the Power-saving feature menu.

Related Topic

- Making applications exempt from the Power-saving feature

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Battery Care

Battery Care increases the lifespan of your battery. This feature detects your charging patterns and estimates the start and end time of your regular charging period. The charging rate is controlled so that your battery reaches 100% just before you disconnect the charger. You can also set a start and end time for the charging period manually.

Note

- Battery Care will not control the charging rate until it detects a regular charging cycle of at least 4 hours over a period of several days.

1 **Find and tap [Settings] > [Battery] > [Battery Care].**

2 **Tap the switch to enable or disable Battery Care.**

[Auto] is selected by default.
To manually set a start and end time for the charging period, tap [Custom], and then set the start and end times.

Hint

- Learned patterns of the regular charging cycle are saved by Battery Care. Even if the function has been disabled, it adopts to the learned patterns after enabling the function again.

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Before updating your device

You should update the software on your device to get the latest functionality, enhancements, and bug fixes in order to ensure optimal performance. When a software update is available, ⓒ (System update icon) appears in the status bar. You can also check for new updates manually.
The easiest way to install a software update is to do it wirelessly from your device. However, some updates are not available for wireless download. You then need to use the Xperia Companion software on a PC or Apple Mac computer to update your device.
Before updating your device, consider the following:

- Ensure you have sufficient storage capacity.
- System and application updates can present the features on your device in another way than described in this Help Guide. The Android version might not be affected after an update.

To check for new software

1. Find and tap [Settings] > [System] > [Advanced] > [Software update].

Related Topic

- Updating your device wirelessly
- Updating your device using a computer

Smartphone
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Updating your device wirelessly

Use the Software update application to update your device software wirelessly. The updates you can download over a mobile network depend on your operator. It is recommended to use a Wi-Fi network instead of a mobile network to download new software so that you can avoid data traffic costs.

1 **Find and tap [Settings] > [System] > [Advanced] > [Software update].**

2 **Follow the on-screen instructions.**

To set up automatic download of system updates

1. Find and tap [Settings] > [System] > [Advanced] > [Software update].
2. Tap ⋮ (More icon) > [Settings] > [Auto update system].
3. Select the preferred option.

To enable or disable automatic updates for applications

1. Find and tap [Settings] > [System] > [Advanced] > [Software update].
2. Tap ⋮ (More icon) > [Settings] > [Auto update apps].
3. Select the preferred option.

Related Topic

- Before updating your device
- Updating your device using a computer

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Updating your device using a computer

1 **Connect your device to the computer using a USB cable.**

2 **Drag down the status bar, and then tap [Android System] next to ⚡ (USB icon).**

3 **Tap [Tap for more options.], and then tap [File Transfer].**

4 **Computer: Open Xperia Companion, if it is not automatically launched.**

Make sure that the computer can access the internet.
If a new software update is detected, a pop-up window appears.

5 **Follow the on-screen instructions to run the relevant software updates.**

Note

- If you do not have the Xperia Companion software installed on the relevant computer, search for Xperia Companion on the Sony customer support website and download it.

Related Topic

- Before updating your device
- Updating your device wirelessly

Smartphone
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Restarting, resetting, and repairing your device

You can force your device to restart or shut down if it stops responding or will not restart normally. No settings or personal data get deleted.
You can also reset your device to its original factory settings. This procedure is sometimes necessary if your device stops functioning properly, but note that you should first back up your data, as resetting your device will erase all your data from your device.
If your device fails to turn on or you want to reset your device's software, you can use Xperia Companion to repair your device. For more information on downloading and using Xperia Companion, search for Xperia Companion on the Sony customer support website.

Restarting your device

Note

- Your device may fail to restart if the battery level is low. Connect your device to a charger and try restarting again.

1. Long press the power key.
2. In the menu that opens, tap [Restart].
   The device restarts automatically.

Forcing the device to restart or shut down

1. Long press the power key and the volume up key at the same time until your device vibrates.
2. Depending on whether you wish to force the device to restart or shut down, proceed as follows.

   - If you wish to force restart the device: Release the keys at this point. The device restarts.
   - If you wish to force shut down the device: Continue pressing the keys. After a few more seconds, the device vibrates three times and turns off.

Performing a factory data reset

Note

- To avoid permanent damage to your device, do not interrupt a factory data reset procedure.

- Back up any data saved to the internal memory of your device. Resetting will erase all your data from your device.

1. Find and tap [Settings] > [System] > [Advanced] > [Reset options].
2. Tap [Erase all data (factory reset)] > [Erase all data].
3. If required, draw your screen unlock pattern or enter your screen unlock password or PIN to continue.
4. To confirm, tap [Erase all data].

Hint

- Your device does not revert to an earlier software version of Android when you perform a factory data reset.

Related Topic

- Repairing the device software using Xperia Companion

Smartphone
Xperia 1 II XQ-AT51/XQ-AT52

Repairing the device software using Xperia Companion

You can use Xperia Companion to repair your device's software. If you forget your screen unlock password, PIN or pattern, you can use the device repair feature in Xperia Companion to erase the security layer. You need to provide your Google account login details to perform this operation. By running the repair feature, you reinstall software for your device and you may lose some personal data in the process.
If your device seems to have frozen, restarts repeatedly, or does not start at all after you update the Xperia software, after you perform a software repair, or after a factory data reset, try forcing the device to shut down and then turning it back on. If the problem persists, force the device to shut down and then perform a software repair.

Note
- Before performing a software repair, make sure you know your Google account username and password. Depending on your security settings, you may need to enter them in order to restart the device after a software repair.

1 **Make sure that Xperia Companion is installed on the computer.**

2 **Open the Xperia Companion software on the computer and click [Software repair] on the main screen.**

3 **Follow the instructions that appear on the screen to reinstall the software and complete the repair.**

Related Topic
- [Restarting, resetting, and repairing your device](#)

Smartphone
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Resetting your applications

You can reset an application or clear application data if your application stops responding or causes issues with your device. Resetting application preferences does not delete any application data from your device.

1 **Find and tap [Settings] > [Apps & notifications].**

2 **Tap the number of apps to see all apps.**

3 **Tap ⋮ (More icon) > [Reset app preferences] > [Reset apps].**

To clear application data

1. Find and tap [Settings] > [Apps & notifications].
2. Select an application or service, and then tap [Storage & cache] > [Clear storage] > [OK].

To clear application cache

1. Find and tap [Settings] > [Apps & notifications].
2. Select an application or service, and then tap [Storage & cache] > [Clear cache].

To clear the application default setting

1. Find and tap [Settings] > [Apps & notifications].
2. Select an application or service, and then tap [Advanced] > [Open by default] > [Clear defaults].

Note

- The option to clear the application data, cache, or default setting is not available for every application or service.

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Viewing the memory status

The internal storage stores downloaded or transferred content along with personal settings and data, and it tends to fill up as a result of normal usage. If the device starts to slow down, or applications suddenly shut down, you should consider the following:

- Close running applications that you are not using.
- Uninstall downloaded applications that you do not use.
- Transfer photos, videos, and music from the internal memory to the removable memory card or Google service.

Note

- You can purchase a memory card separately.

- If your device cannot read content on the memory card, you may need to format the card. Note that when you format the card, all content is erased.

To view the memory status

1. Find and tap [Settings] > [Storage].

Related Topic

- Freeing up space on the internal storage
- Formatting the memory card
- Stopping applications and services from running

Freeing up space on the internal storage

If the device starts to slow down, or applications suddenly shut down, freeing up space on the internal storage may solve the problem.

1 **Find and tap [Settings] > [Storage].**

2 **Tap [FREE UP SPACE].**

If you have a memory card inserted, select [Internal shared storage] > [FREE UP SPACE].

3 **Select infrequently used apps or old files to delete, and then follow the on-screen instructions.**

Related Topic

- Viewing the memory status

Smartphone
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Stopping applications and services from running

If the performance of your device or apps is not optimal, try stopping apps and services from running.

1 Find and tap [Settings] > [Apps & notifications].

2 Select an application or service, then tap [Force stop] > [OK].

Related Topic

- Viewing the memory status

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Formatting the memory card

If your device cannot read content on the memory card, format the memory card on your device.

1 **Find and tap [Settings] > [Storage] > [SD card].**

2 **Tap ⋮ (More icon) > [Storage settings] > [Format], and then perform formatting on the next confirmation dialog.**

Note

- All content on the memory card gets erased when you format it. Make sure you first make backups of all data that you want to save. To back up your content, you can copy it to a computer.

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Mobile data connection

You need the correct internet settings to access the internet with a mobile data connection.

- For most mobile networks and operators, these settings come pre-installed on your device so that you can start using the internet right away.
- You can manually check for updates to your internet settings. If you change or delete an internet setting by mistake, reset the internet settings.
- Find and tap [Settings] > [Network & internet] > [Mobile network] for more mobile network options.

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Increasing Wi-Fi® signal strength

There are a number of things you can do to improve Wi-Fi reception:

- Move your device closer to the Wi-Fi access point.
- Move the Wi-Fi access point away from any potential obstructions or interference.
- Do not cover the Wi-Fi antenna area of your device.

Related Topic

- Overview

Smartphone
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Controlling data usage

You can keep track of the amount of data transferred to and from your device over your mobile data or Wi-Fi connection during a given period. For example, you can view the amount of data used by individual applications. For data transferred over your mobile data connection, you can also set data usage warnings and limits to avoid additional charges.

Helping reduce data usage

1. Find and tap [Settings] > [Network & internet] > [Data Saver].
2. Tap the switch to enable the function.

Setting a data usage warning or a mobile data limit

1. Make sure that mobile data traffic is turned on.
2. Find and tap [Settings] > [Network & internet] > [Mobile network] > [App data usage] > ⚙ (Settings icon).
3. Depending on whether you want to set a data warning or a data limit, proceed as follows.

   - To set a data usage warning, tap the [Set data warning] switch to enable the function, and then tap [Data warning] to change the warning level.
   - To set a mobile data limit, tap the [Set data limit] switch to enable the function, and then tap [Data limit] to change the data usage limit.

Hint

- You can set the date when the usage cycle resets. Under [Data warning & limit], tap [App data usage cycle], and then set the reset date.

Note

- Once your mobile data usage reaches the set limit, mobile data traffic on your device gets turned off automatically.

Checking your data usage

1. Find and tap [Settings] > [Network & internet].
2. Depending on whether you want to check mobile data usage or Wi-Fi data usage, proceed as follows.

   - To check mobile data usage, tap [Mobile network] > [App data usage].
   - To check Wi-Fi data usage, tap [Wi-Fi] > [Wi-Fi data usage].

Controlling the data usage of individual applications

1. Find and tap [Settings] > [Apps & notifications].
2. Tap the application that you want to control, and then tap [Mobile data & Wi-Fi].
3. Edit the options as desired.

Note

- The performance of individual applications may be affected if you change the related data usage settings.

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Settings menu

View and change settings for your device from the Settings menu. The Settings menu is accessible from both the Application screen and the Quick settings panel.

1 **Find and tap [Settings].**

Hint

- To view information about your device, find and tap [Settings] > [About phone].

- To search for a setting, find and tap [Settings], and then enter the name of the setting into the [Search settings] field.

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Volume and vibration

The volume and vibration can be changed either by using the volume keys or by changing a setting.
You can change the ring, media, alarm, and in-call volumes. Additionally, you can set your device to vibrate.

> **Note**
> - App settings can override the selected volume and vibration settings.

Changing the volume

1. Press the volume key up or down to change the media volume.
   To quickly turn the media volume on or off, tap ♪ (Media volume icon).
2. To change the in-call, ring, and notification, or alarm volumes, tap ⬓ (Adjust volume icon).
   Use each slider to adjust the volume. Tap [See more] for more options.

Activating the vibrating mode

1. Press the volume key up or down.
2. Tap the icon displayed above the slider one or more times until ▯ (Vibrate icon) appears.

Activating sound with vibration for incoming calls

1. Find and tap [Settings] > [Sound].
2. Tap the [Vibrate for calls] switch to enable the function.

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Sounds and tones

Setting the ringtone

1. Find and tap [Settings] > [Sound].
2. Dual SIM users, select [Phone ringtone - SIM 1] or [Phone ringtone - SIM 2]. Single SIM users, tap [Phone ringtone].
3. Select a sound from the list.
   To select a music file that is saved on your device, tap [Add ringtone].
4. To confirm, tap [OK].

Setting the notification sound

1. Find and tap [Settings] > [Sound] > [Notification sound].
2. Select a sound from the list.
   To select a music file that is saved on your device, tap [Add notification].
3. To confirm, tap [OK].

Hint

- To turn off all ringtone and/or notification sounds and set your device to vibrate only, select [None] from the list.

- To enable or disable other sounds and tones, find and tap [Settings] > [Sound] > [Advanced], and then tap the switches to enable or disable the various sounds and tones.

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Screen settings

You can change the screen's behavior, brightness, viewing size, and quality. You can also adjust the image quality of photos and videos.

1 **Find and tap [Settings] > [Display].**

2 **Tap the setting you want to change.**

Use the sliders, checkboxes or additional menus to adjust.

Main screen settings

- **Image quality settings**: Adjust the quality of photos and videos as displayed on your device.

- **White balance**: Tap the [Set manually] switch to enable changes to the setting, and then select one of the preset settings. You can also use the sliders to adjust the white balance.

- **Brightness level**: Adjust the brightness level with the slider. You can also enable [Adaptive brightness] to automatically optimize brightness based on surrounding light.

- **Dark theme**: You can display the screen with a dark background.

- **Auto-rotate screen**: Set the screen to rotate automatically when the device is turned, or set it to stay in portrait view.

- **Night Light**: [Night Light] switches the color of the screen to amber. This makes it easier to view the screen in a darker setting, and also makes it easier to fall asleep.

- **Prevent accidental operations with screen off**: You can prevent your device from being activated by mistake while placed in a pocket or a bag.

Note

- When the STAMINA mode is turned on, [Motion blur reduction] cannot be used.

- Avoid displaying very bright or static images for a long period of time. This may cause an afterimage or coloring to remain on the screen.

Hint

- [Video image enhancement] is available only for certain applications.

- Even if the Auto-rotate screen function is disabled, you can rotate the screen manually by tapping ⟳ (Rotate icon) in the navigation bar.

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Application updates

If the automatic update feature is enabled, your applications get updated without you being asked, so you may not realize that large volumes of data are being downloaded. In order to avoid potentially high data transfer costs, you can disable automatic updates or enable automatic updates only over Wi-Fi connection. You have to disable the automatic update feature in the Play Store app to avoid the automatic updating of applications.

1 Find and tap ▶ (Play Store icon).

2 Tap ☰ (Menu icon), and then tap the settings menu.

3 Tap the auto update apps menu.

4 Select the preferred option.

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Using location services

Location services allow applications such as Maps and the camera to use information from your mobile or Wi-Fi network as well as GPS (Global Positioning System) information to determine your approximate location.
In order to use your device to find out where you are, you need to enable location services.
For more information, go to support.google.com/.

1 Find and tap [Settings] > [Location].

2 Tap the switch to enable or disable location services.

To improve GPS accuracy

The first time you use the GPS function in your device, it can take a few minutes for your location to be found. To help the search, make sure you have a clear view of the sky. Stand still and do not cover the GPS antenna. GPS signals can pass through clouds and plastic, but not through most solid objects such as buildings and mountains. If your location is not found after a few minutes, move to another location.

Related Topic

- Overview

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Date and time

You can change the date and time on your device.

1   **Find and tap [Settings] > [System] > [Date & time].**

You may find the item under [Advanced].

2   **To set the date or time manually, tap the [Use network-provided time] switch to disable the function.**

To set the time zone manually, tap the [Use network-provided time zone] switch to disable the function.

3   **Tap the desired item to edit and change the values.**

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Transferring music from a computer to your device

There are two ways to transfer music from a computer to your device:

- Connect your device to a computer using a USB cable. Select [File Transfer] on your device and then copy and paste or drag and drop the files using the computer.
- On the computer, save your media files using Google Drive. Then, synchronize the data on your device by logging in to the Google account.

Note

- The Music app may not support all music file formats.

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Listening to music

Use the Music app to listen to your favorite music.

Music player overview
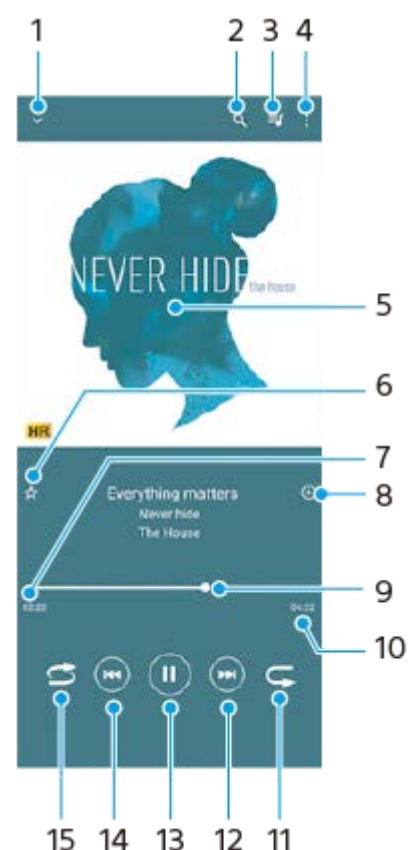
1. Minimize the full screen player
2. Search all songs saved to your device
3. View the play queue
4. View more options
5. Album art (if available)
6. Add or remove a song as a favorite
7. Elapsed time of current song
8. Add a song to a playlist
9. Progress indicator – drag or tap along the line to fast-forward or rewind
10. Length of current song
11. Repeat the current song or all songs in the play queue
12. Tap to go to the next song, touch and hold to fast-forward the current song
13. Play or pause a song
14. Tap or double-tap to go to the beginning of the current song or the previous song, touch and hold to rewind the current song
15. Shuffle songs in the play queue

Hint

- How to use (Previous button) while playing a song.

– During the first 5 seconds of playback, tap the button to go back to the previous song.
– After 5 seconds of playback, tap the button to go back to the beginning of the current song, or double-tap it to go back to the previous song.

Music home screen
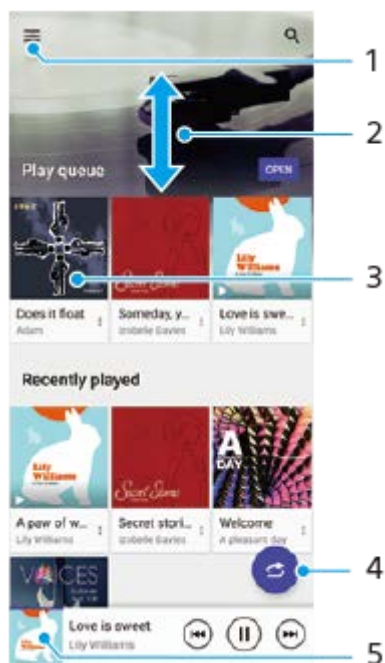
1. Open the Music menu
2. Scroll up or down to view content
3. Tap to start playing a song in the play queue
4. Play all songs in shuffle mode
5. Go to the music player screen

Note

- You might not be able to play copyright-protected items.

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Music app features

This section explains features that are useful when using the Music app.

Editing music information

1. While a song is playing in the Music app, tap the album art in the music player screen and then tap [Edit music info].
2. Edit the information as desired.
3. To set album art, tap 🖉 (Edit icon), then select an option.
4. When you are finished, tap [SAVE].

Playing music in the background

1. When a song is playing, tap ⬤ (Home button) to go to the Home screen.
   The Music app keeps running in the background.
   To open the Music app again, drag the status bar downwards and tap the Music notification. Alternatively, find and tap 🎵 (Music icon).

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Camera overview
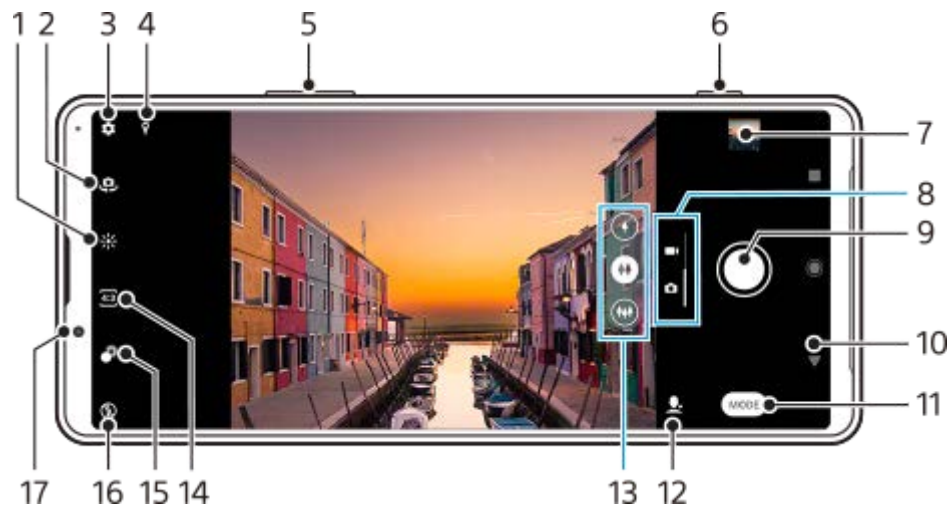
1. Tap to adjust color and brightness
2. Switch between the front and main camera
3. Camera settings
4. Geotagging status
5. Use the volume keys to zoom in or out
6. Use the camera key to activate the camera, take photos or record videos
7. Tap the thumbnail to view, share, or edit photos and videos
8. Switch between taking photos and videos
9. Use the shutter button to take photos or record videos
10. Go back or exit the camera
11. Select a capturing mode
12. Shortcut to the capturing mode last selected
13. Tap one of the angle buttons to switch lenses
14. Select an aspect ratio
15. Tap to adjust the Bokeh effect
16. Select a flash setting. The icon turns orange when the flash or flashlight activates.
17. Front camera lens

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Taking a photo or recording a video

This section explains basic camera operations.

Hint

- Make sure the lens is clean. A fingerprint or a little dirt can diminish photo quality.
- Use the self-timer when you need extra time to prepare, or to avoid blurred photos.
- Check your device's memory status often. High-resolution photos and videos consume more memory.

Note

- Note that some functions may not be available depending on the settings.

1 **Launch the camera.**

- Press the camera key fully down, swipe (Camera icon) from the lock screen, or tap (Camera icon) from the Application screen.
- Press the power key twice. Tap [Settings] > [System] > [Gestures] > [Power key behavior] > [Launch camera] to enable this function.

2 **Swipe the screen to select a photo or video mode.**

3 **Press the camera key or tap the shutter button.**

Shutter button

The shutter button is used differently depending on the capturing mode and activated features.

- (Capture button): Take a photo
- (Start button): Record a video/Resume recording
- (Pause button): Pause a video
- (Stop button): Stop recording a video
- (Self-timer on icon): Self-timer is activated
- (Touch capture on icon): Touch capture is activated
- (Touch capture and Self-timer on icon): Touch capture and Self-timer are activated

Related Topic

- Self-timer
- Various methods to take photos

Basic camera features

Smartphone
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Taking a photo using the flash

Use the flash according to the subject and lighting conditions.

1 While using the camera, tap the flash icon displayed on the screen, for example A⚡ (Auto flash icon).

2 If required, change the flash setting.

3 Press the camera key or tap the shutter button to take a photo or record a video.

Note

- Available settings depend on the capturing mode, photo mode, and video mode.

Hint

- When the background is brighter than the object, use Fill flash to remove unwanted dark shadows.

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Basic camera features

Use basic camera features that help you to take photos or record videos.

Changing the aspect ratio

1. While using the camera, tap ▢ (Aspect ratio icon).
2. Select a setting.

Adjusting the camera settings

1. While using the camera, tap ⚙ (Settings icon).
2. Swipe the list to view the available settings and select a setting.
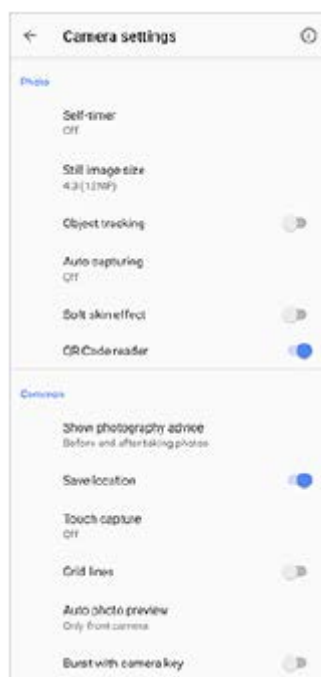
Note

- Available settings depend on the capturing mode selected.

Hint

- Tap ⓘ (Introduction to features icon) to check information on various functions.

Switching between the main and front camera

1. While using the camera, tap ⟲ (Switch camera icon) to switch between the main and front camera.

Hint

- You can also switch between cameras by swiping down on the camera screen (in the portrait orientation) or swiping right on the camera screen (in the landscape orientation).

Switching lenses

1. While using the camera, tap one of the angle buttons.

   - ⊙ (Telephoto button)
   - ⊛ (Wide-angle button)
   - ⊛ (Super-wide-angle button)

Using the zoom

1. While using the main camera, perform one of the following operations.

   - Pinch in or out on the camera screen.
   - Use the volume key.
   - Tap one of the angle buttons to select a lens, and then drag the angle button to the left and right (in the portrait orientation) or up and down (in the landscape orientation).

Note

- Zooming is only available for the main camera.

Reducing wind noise when recording

1. Find and tap [Settings] > [Sound] > [Audio settings] > [Intelligent wind filter].
2. Tap the switch to enable the function.

Related Topic

- Taking a photo or recording a video

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Viewing, sharing, or editing photos and videos

View or share photos and videos in the Google Photos app after taking photos or recording videos. You can also edit photos or videos, such as by adjusting the colors or cropping photos.

1 **While using the camera, tap the thumbnail to open a photo or video.**

2 **Swipe left or right to view your photos and videos.**

3 **Tap** ⬩ **(Share icon) to share a photo or a video, or** ⬌ **(Edit icon) to edit it.**

To hide or show icons, tap the screen.

Related Topic

- Taking a photo or recording a video

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Selecting a capturing mode

You can select a capturing mode according to the subject or your purpose.

1 **While using the camera, tap [Mode], and then select a capturing mode.**

Capturing modes overview

The following are some of the main capturing modes.

- (Slow motion icon): Add a slow-motion effect after recording a video

- (Portrait selfie icon): Take better-looking selfies

- (Creative effect icon): Take photos with effects and color filters

- (Panorama icon): Take wide-angle and panoramic photos

- (Photo Pro icon): Launch Photo Pro

Note

- Available settings depend on the capturing mode selected.

Related Topic

- Slow motion videos
- Portrait selfie
- Creative effect
- Panorama
- Launching Photo Pro (Photography Pro)

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Various methods to take photos

Take photos using the method that suits your situation.

Launching the camera and taking a photo at the same time

1. While using the camera, tap ⚙ (Settings icon), and then tap [Launch with camera key] > [Launch and capture].
2. Close the settings menu and exit the camera.
   The setting is saved for all capturing modes.
3. Long press the camera key to launch the camera and take a photo.

Taking a photo by tapping the screen

1. While using the camera, tap ⚙ (Settings icon), and then tap [Touch capture] > [On] or [Only front camera].
2. Close the settings menu.
   The setting is saved in all capturing modes.
3. Tap anywhere on the screen to take a photo.

   Hint
   - This feature can also be used for videos.

Taking a photo when recording a video

1. When recording a video, tap ◙ (Camera icon).
   The photo is taken as soon as you release the shutter button.

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Self-timer

Use the Self-timer to get more time to prepare for a photo. It also helps to keep your device steady and avoid blurred photos.

1 **While using the main camera, tap ⚙ (Settings icon) > [Self-timer], select the delay time, and then close the settings menu.**

The Self-timer setting is saved.
While using the front camera, tap ⏱ (Self-timer icon), and then select a delay time.

2 **Press the camera key or tap the shutter button to take a photo.**

A series of beeps marks the countdown until the photo is taken.

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Adjusting the exposure, color, and light conditions

Good exposure for your photos requires the right amount of light. Different exposures are required, for example, when taking photos of faces, moving objects or in low light.
You can also record videos in HDR to add brightness and contrast for a more realistic effect.

To optimize light conditions

- Look for light with direction and color that gives a scene shape and depth. This type of light occurs just before sunrise and at sunset. Natural light from a window is also good.
- For higher quality photos in low light, you need to keep the camera steady. You can place the camera on a solid surface and use the self-timer.
- Even if light conditions are poor, try to take photos with and without the flash. Sometimes the quality is better without the flash.

Related Topic

- Color and brightness
- HDR video recording
- Self-timer
- Taking a photo using the flash

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Color and brightness

Your camera automatically adjusts the color and brightness value by detecting the light conditions and estimating the color temperature of ambient light. Digital cameras can only estimate the color temperature, so you may need to adjust the settings to get it correct.
If you experience yellow-colored photos in indoor environments or bluish photos when using the flash, try adjusting the color.

1 **While using the camera, tap ❄ (Color and brightness icon).**

2 **Drag the sliders to adjust the color and brightness.**

Tap ✕ (Cancel icon) to reset and close the color setting.

3 **Press the camera key or tap the shutter button to take a photo or record a video.**

HDR video recording

Enable HDR (High Dynamic Range) to make your videos appear more dramatic and closer to what you see in real life.

1　**While using the camera, swipe the screen to select a video mode.**

2　**Tap HDR (HDR icon) and select [On].**

Note

- This setting is not available when [Video size] is set to [Full HD (60 fps)] or [HD].

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Setting the right focus

The Camera app automatically focuses on and detects people eyes or faces. When a face is in the shot, the camera automatically detects and focuses on one of the eyes with a green frame (eye AF feature). If you tap ⊚ (Eye AF icon) while focusing on an eye, the camera switches its focus to the face(s).

Focusing automatically

1. While using the main camera, tap the area where you want to focus.
   ⟨⟩ (Set focus icon) appears and the camera focuses on the tapped area.
   To change the focus area, tap the screen.
   To lock the focus, press the camera key halfway down. The color of the circular frame changes.
2. Press the camera key or tap the shutter button to take a photo.

Note

- This option depends on the capturing mode selected.

Note

- The eye AF feature is available only when using the main camera.

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Taking photos and videos of people

When a photo mode is selected, the Camera app can detect people faces and eyes. When a face or eye is detected, the detection frame appears. Tap (Eye AF icon) to switch the focus between faces and an eye. When multiple faces are detected, tap any frame to select the face on which you want to focus. When the camera is set to focus on eyes, tap any face to select the eye on which you want to focus.
When a video mode is selected, the Camera app can detect people faces. Faces in focus are indicated with a colored frame.
Use Smile Shutter to automatically take a photo when a person smiles. If you are recording a video, a photo is taken each time a smile is detected.

> **Note**
> - The eye AF feature is not available when taking selfies or recording videos.
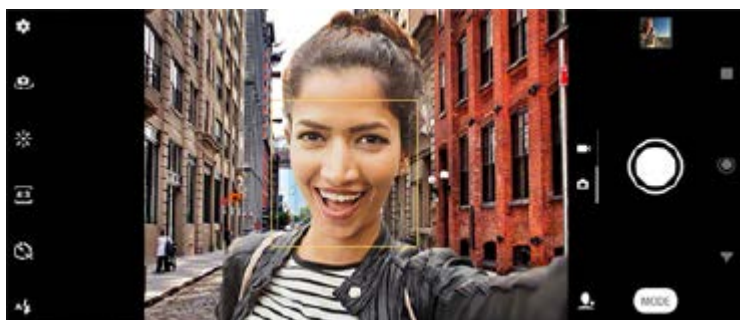
To take photos and videos of people

- Consider the camera orientation. Use portrait for close-up photos, to fill the frame. Use landscape for close-up group photos, or to capture an object in the background.
- Place the camera on a solid surface and use the self-timer to prevent blurred photos.

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Softening the skin tone

You can take photos with softer skin tones.

1 **While using the camera, tap ✿ (Settings icon).**

2 **Tap the [Soft skin effect] switch to enable the effect.**

3 **Close the settings menu.**

The setting is saved.

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Taking a photo when someone smiles

Use Smile Shutter to automatically take a photo when a person smiles.

1 **While using the camera, tap ⚙ (Settings icon).**

2 **Tap [Auto capturing] or [Auto capturing (video)] > [Smile Shutter].**

3 **Close the settings menu.**

The setting is saved for the capturing mode selected.

4 **When a smile is detected, the camera automatically takes a photo.**

Note

- This setting is not available when [Video size] is set to [4K].

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Taking a selfie

Switch to the front camera and take a photo of yourself. You can use the self-timer.

1 **While using the camera, select a photo or video capturing mode for your selfie.**

2 **Tap (Switch camera icon) to activate the front camera.**

3 **Tap (Self-timer icon) if you want to use the self-timer.**

4 **Press the camera key or tap the shutter button to take a selfie.**

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Activating the selfie timer with the palm of your hand

Use Hand Shutter to automatically start the timer and take a photo when the camera detects your hand. The Hand Shutter feature is available only when using the front camera.

1   **While using the camera, tap (Switch camera icon) to activate the front camera.**

2   **Tap (Settings icon).**

3   **Tap [Auto capturing] > [Hand Shutter].**

4   **Close the settings menu.**

   The setting is saved.

5   **Turn your palm with your fingers straight up towards the camera.**

   When the camera detects your hand, the timer starts and a selfie is taken.

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Tracking an object

The camera can detect and track a moving object. A yellow frame indicates faces or moving objects that are in focus.

1 **While using the main camera, tap ✿ (Settings icon).**

2 **Tap the [Object tracking] switch to enable.**

3 **Close the settings menu.**

The setting is saved.

4 **Select an object to track by touching it in the viewfinder.**

5 **Press the camera key or tap the shutter button to take a photo or record a video.**

Note

- This setting is not available when [Video size] is set to [4K].

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Capturing a burst of images

Use the Burst with camera key feature to take a burst of images and find the best shot.

1 **While using the camera, tap ⚙ (Settings icon).**

2 **Tap the [Burst with camera key] switch to enable.**

3 **Close the settings menu.**

The setting is saved.

4 **Long press the camera key or shutter button to take a burst of images.**

The number of pictures taken is indicated in the middle of the viewfinder.

5 **Release the camera key or shutter button to finish the burst.**

All photos are saved.

6 **Tap the thumbnail to view the results.**

7 **Scroll through the pictures taken, and select the photo that you want to save.**

8 **Tap ▯▯ (Burst icon), and then select an option.**

Hint

- This setting is enabled by default when using the shutter button. Touch and hold the shutter button to take a burst of images.

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Recording a steady video

When recording videos, you can use Video stabilization to compensate for camera movements and steady the frame.

1 **While using the camera, swipe the screen to select a video mode.**

2 **Tap ⚙ (Settings icon).**

3 **Tap the [Video stabilization] switch to compensate camera movement.**

4 **Close the settings menu.**

The setting is saved.

5 **Press the camera key or tap the shutter button to record a video.**

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Bokeh effect

You can take pictures with the Bokeh effect when using the main camera on your device. The Bokeh effect decreases focus in the background of a photo to emphasize objects at the foreground, for an artistic effect.

1 **While using the main camera, tap ⬤ (Bokeh icon).**

2 **Drag the slider to adjust.**

3 **Press the camera key or tap the shutter button to take a photo.**

Note

- Zooming is not available while using the Bokeh effect.

Hint

- If you get too close to or too far to an object while using the Bokeh effect, a warning message appears. If this happens, adjust the distance between your camera and the object to take the photo with Bokeh effect.

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Slow motion videos

The Slow motion video mode adds powerful effects to your videos. The Slow motion effect is added after a video is recorded at normal speed.

> **Note**
> - Good lighting conditions are essential when you record slow motion videos.

Adding slow motion effect after recording a video

1. While using the camera, tap [Mode] > (Slow motion icon).
2. Press the camera key or tap the shutter button to record a video.
3. Tap (Stop button) to stop recording.
4. Tap the thumbnail to open the video.
5. Drag the handles on the slow motion timeline to the positions where you want the slow motion effect to appear.
   (A): Handles
   (B): Slow motion timeline
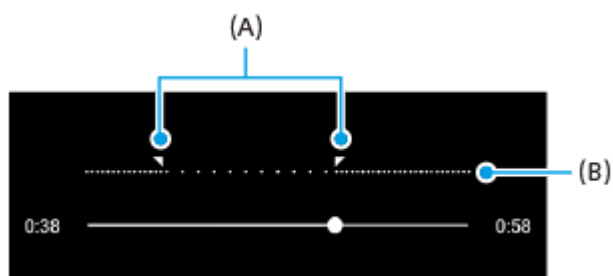
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Portrait selfie

Portrait selfie allows you to take better-looking selfies.

1 **While using the camera, tap [Mode] > 👤 (Portrait selfie icon).**

2 **Tap the icon for the effect you want to apply, and drag the slider to adjust the effect.**

If desired, adjust the other effects in the same way.

3 **Press the camera key or tap the shutter button to take a photo.**

Portrait selfie overview

- (Bokeh icon): Applies a blurring effect around a person

- (Soft skin icon): Softens skin tones

- (Skin brightness icon): Brightens skin tones

- (Eye enlargement icon): Enlarges eyes

- (Slender face icon): Makes your face look slimmer

Hint

- You can save your portrait in the same direction as the preview by tapping (Mirror icon) > [On].

- You can take a photo by tapping anywhere on the screen. Tap (Touch capture icon) > [On].

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Creative effect

With the Creative effect app you can preset effects and color filters before taking a photo or recording a video.

1 **While using the camera, tap [Mode] > ⬤ (Creative effect icon).**

2 **Swipe to browse filters, or tap a filter to preview the effect.**

3 **Tap ⤺ (Apply creative effect icon) to apply the filter and return to the camera screen.**

4 **Press the camera key or tap the shutter button to take a photo or record a video.**

Hint

- Tap ⬤ (Switch filter icon) to switch filters.

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Panorama

Use the Panorama app to take wide-angle and panoramic photos.

1 **While using the camera, tap [Mode] > ▬ (Panorama icon).**

2 **Press the camera key or tap the shutter button.**

3 **Move the camera slowly and steadily in the direction of movement indicated on the screen.**

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Resolution and memory

The number of photos and videos you can store depends on the resolution or MP (megapixel) value used and video length.
High-resolution photos and videos take up more memory, so keep in mind that a lower resolution can be suitable for everyday use.
Check the memory status from time to time. When the memory is full, you can transfer photos and videos to another storage device to free up memory.
Choose whether to store photos and videos on your device's internal storage or on an SD card using the [Data storage] option in the camera settings menu.

1 **While using the camera, tap ✿ (Settings icon).**

2 **Tap [Still image size] or [Video size].**

3 **Select the resolution and close the settings menu.**

The setting is saved for the selected capturing mode.

Note

- Available settings depend on the capturing mode selected.

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Diagnosing your camera

If your camera is not working properly, you can run a diagnostics test to identify if there is a problem with the main camera, front camera, flash, or camera key.
To run a diagnostics test of your camera, make sure you are connected to the internet.

1 **While using the camera, tap ⚙ (Settings icon).**

2 **Tap ⓘ (Introduction to features icon) > [Help] > [Launch the Support app].**

3 **Tap [Xperia Tests], select a category, and then follow the on-screen instructions.**

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Geotagging

You can save your photos and videos with the location where they were taken, this is called geotagging. The option to geotag your photos and videos requires a wireless network and that the GPS function is enabled.

1 **While using the camera, tap ⚙ (Settings icon).**

2 **Tap the [Save location] switch to enable.**

The setting is saved.

Geotagging status icons

- 📍 (Acquired GPS icon): The geographical position is saved.

- 🛰 (GPS not found icon): The geographical position is not found.

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Grid lines

With Grid lines, you can apply the "Rule of Thirds" and place important objects along the grid lines or their intersections. By not always having the object in the middle of the frame, you can make your photos and videos more interesting.

1 **While using the camera, tap ✿ (Settings icon).**

2 **Tap the [Grid lines] switch to enable or disable.**

The setting is saved.

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Photography advice

The camera can display photography advice and help you to take a photo. Before taking photos, the camera will notify you if your finger is covering the lens or the image is out of focus. After taking photos, the camera checks whether there is blurring, and you may get advice for retaking photos.

Note

- This feature is only available when taking photos.

1 **While using the camera, tap ⚙ (Settings icon).**

2 **Tap [Show photography advice] and select an option.**

The setting is saved.

Photography advice settings

- **Before and after taking photos**: Photography advice is displayed both before and after taking photos.
- **After taking photos only**: Photography advice is displayed only after taking photos.
- **Off**: No photography advice is displayed.

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Photo preview settings

You can choose to preview photos as soon as you take them.

1   **While using the camera, tap ✿ (Settings icon).**

2   **Tap [Auto photo preview] and select an option.**

    The setting is saved.

Previewing settings

- **On**: After you take a photo, a preview appears in the lower right corner of the screen for three seconds before it is saved.
- **Only front camera**: After you take a photo with the front camera, a preview appears in the lower right corner of the screen for three seconds before it is saved.
- **Off**: No preview appears. The photo is saved directly.

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Different ways to use the volume key

You can change the way you use the volume key.

1   **While using the camera, tap ⚙ (Settings icon).**

2   **Tap [Use Volume key as] and select an option.**

The setting is saved.

Volume key settings

- **Zoom**: Use the volume key to zoom in or out.
- **Volume**: The volume key is deactivated for the camera.
- **Shutter**: Use the volume key as a shutter button for photos and videos.

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Sound

When Sound is activated, the camera makes a sound when you take a photo or when you start or stop a video recording. Additionally, when you use the self-timer the countdown is indicated by a series of beeps.

1 **While using the camera, tap ⚙ (Settings icon).**

2 **Tap the [Sound] switch to enable or disable.**

The setting is saved.

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QR Code reader

You can scan QR codes.

1 **While using the camera, tap ⚙ (Settings icon).**

2 **Tap the [QR Code reader] switch to enable the function.**

The setting is saved.

To scan a QR code

1. Point the camera at the QR code.
2. Tap the notification that appears.
   If the notification does not appear, drag down the status bar to open the notification panel, and then confirm it.

Hint

- To display the QR code notification on the Camera app screen, find and tap [Settings] > [Apps] > [Camera] > [Notifications] > [QR Code reader], and then tap the [Pop on screen] switch to enable the function with [Default] selected.

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Mirroring the screen of your device wirelessly on a TV

You can use the Screen mirroring feature to show the screen of your device on a TV or other large display without using a cable connection. Wi-Fi Direct® technology creates a wireless connection between the two devices, so you can sit back and enjoy your favorite photos from the comfort of your couch. You can also use this feature to listen to music from your device using the TV's speakers.

1 **TV: Follow the instructions in the User guide of your TV to turn on the Screen mirroring function.**

2 **Your device: Find and tap [Settings] > [Device connection] > [Connection preferences] > [Screen mirroring].**

3 **Tap [START].**

4 **Tap [OK] and select a device.**

To stop screen mirroring between devices

1. Find and tap [Settings] > [Device connection] > [Connection preferences] > [Screen mirroring].
2. Tap [Disconnect], then tap [OK].

Note

- This function can be used with TVs that support the Screen mirroring feature.

- When using Screen mirroring, do not cover the Wi-Fi antenna area of your device.

- When using Screen mirroring, the image quality may sometimes be negatively impacted if there is interference from other Wi-Fi networks.

Hint

- You can also stop screen mirroring by tapping the notification in the status bar of your device. Drag the status bar downwards, tap ∨ (Down arrow icon), and then tap [Disconnect] > [OK].

- Tap ⋮ (More icon) for more options.

Related Topic

- Overview

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Connecting your device to USB accessories

You can use a USB host adapter to connect your device to USB accessories, such as USB mass storage devices, headphones, game controllers, USB keyboards, and USB mice.

1 **Connect a USB cable to your device.**

2 **Drag down the status bar, and then tap [Android System] next to ⇕ (USB icon).**

3 **Tap [Tap for more options.], and then select an option.**

USB Preferences

- **USB controlled by**: You can choose which device controls the other, your device, or the USB-connected device.
- **Use USB for**: You can choose the purpose of the USB connection.

  - **File Transfer**: Manage files or update the device software. This option is used with Microsoft® Windows® computers. Charging is enabled by default.
  - **USB tethering**: Your device can function as a tethering device.
  - **MIDI**: Your device can function as the MIDI input for musical instrument applications.
  - **No data transfer**: Just charge your device when [USB controlled by] is set to [This device]. When [USB controlled by] is set to [Connected device], you can use your device as a power supply and charge the other connected device.

Note

- Sony does not guarantee that all USB accessories are supported by your device.
- This device has a capless USB port. If your device gets exposed to water, ensure that the port is completely dry before connecting a USB cable. If water is detected on the USB connector, a warning notification appears in the Notification panel.

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NFC (Near Field Communication)

NFC is a wireless technology with a maximum range of one centimeter, so the devices sharing data must be held close to each other.
The NFC detection area is located on the back of the device. Hold your device close to another device or an NFC reader so that the N-Marks touch. Make sure that both devices have the NFC function turned on and that the screen of your device is active and unlocked.

Note

- Using certain applications, some NFC functions can be enabled even when the device is switched off. Note that not all devices support this feature.

To scan NFC tags

Your device can scan various kinds of NFC tags to receive additional information, such as a web address. For example, it can scan embedded tags on a poster, on a billboard advertisement, or beside a product in a retail store.

1. Place your device over the tag so that the N-Mark touches it. Your device scans the tag and displays the content collected. Tap the content of the tag to open it.

To connect to an NFC compatible device

You can connect your device to other NFC compatible devices produced by Sony, such as a speaker or a headphone. When establishing this kind of connection, refer to the User guide of the compatible device for more information.

Note

- You may need to have Wi-Fi or Bluetooth activated on both devices for the connection to work.

Related Topic

- Overview
- Turning the Bluetooth function on or off

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Using your device as a wallet

You can use your device to pay for goods without reaching for your real wallet and manage all payment services in one place. When making a payment, remember to turn on the NFC function before you touch your device to a card reader.

1   **Make sure NFC is enabled on your device.**

2   **Find and tap [Settings] > [Apps & notifications] > [Special app access] > [Tap & pay].**

   You may find the item under [Advanced].
   A list of payment services appears.

3   **Manage the payment services as desired.**

   For example, you can change your default payment service.

Note

- Mobile payment services may not be available in your region. For Dual SIM devices, NFC-initiated payments are only supported for an NFC-enabled SIM card inserted in SIM card slot 1.

Related Topic

- NFC (Near Field Communication)

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Turning the Bluetooth function on or off

Use the Bluetooth function to send files to other Bluetooth compatible devices, or to connect to handsfree accessories. Bluetooth connections work better within 10 meters (33 feet), with no solid objects in between. Pairing is necessary to connect to other Bluetooth devices.

1 **Find and tap [Settings] > [Device connection] > [Connection preferences].**

2 **Tap [Bluetooth].**

3 **Tap the switch to enable or disable the function.**

Hint

- You can also turn Bluetooth on or off from the Quick settings panel.

Note

- Your device cannot connect wirelessly to all types of Bluetooth devices. Sony does not guarantee that all Bluetooth devices are compatible with your device.

- To secure Bluetooth communications, your device supports a security function compliant with Bluetooth standards. However, security may be insufficient depending on the settings, etc. Be aware of security risks when using the Bluetooth function.

- Please note that Sony is not responsible for any data leakage that might occur when communicating via the Bluetooth connection.

Related Topic

- Pairing with another Bluetooth device

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Naming your device

You can give your device a name. This name is shown to other devices after you have turned on the Bluetooth function and your device is set to visible.

1 Find and tap [Settings] > [Device connection] > [Pair new device].

2 Tap [Device name].

3 Enter a name for your device.

4 Tap [Rename].

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Pairing with another Bluetooth device

When you pair your device with another device, you can, for example, connect your device to a Bluetooth headset or a Bluetooth car kit, and use these other devices to share music.
Once you pair your device with another Bluetooth device, your device remembers this pairing.
Make sure that the device you want to pair with has the Bluetooth function activated and is visible to other Bluetooth devices.

1 **Find and tap [Settings] > [Device connection] > [Pair new device].**

A list of the available Bluetooth devices appears.

2 **Tap the Bluetooth device that you want to pair with.**

To connect your device to another Bluetooth device

1. Find and tap [Settings] > [Device connection].
2. Under [Previously connected devices], tap the Bluetooth device to which you want to connect.

To unpair a Bluetooth device

1. Find and tap [Settings] > [Device connection].
2. Under [Previously connected devices], tap ⚙ (Settings icon) beside the name of the device that you want to unpair.
3. Tap [Forget] > [Forget device].

Note

- Some Bluetooth devices, for example, most Bluetooth headsets, require you to both pair and connect with the other device.

Related Topic

- Turning the Bluetooth function on or off

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Sending items using Bluetooth technology

Use Bluetooth technology to share items with other Bluetooth compatible devices such as phones or computers. You can send the following kinds of items:

- Photos and videos
- Music and other audio files
- Web pages

Make sure the Bluetooth function is turned on for the receiving device, and that the device is visible to other Bluetooth devices.

1   **Open the app that contains the item you want to send.**

2   **Touch and hold or open the item, and then tap ⌣ (Share icon).**

3   **Select [Bluetooth], and then tap the name of the receiving device.**

Turn on the Bluetooth function if prompted.

4   **On the receiving device, accept the connection if prompted.**

5   **On your device, confirm the transfer to the receiving device, if prompted.**

6   **On the receiving device, accept the incoming item.**

Related Topic

- Turning the Bluetooth function on or off
- Receiving items using Bluetooth technology

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Receiving items using Bluetooth technology

Use Bluetooth technology to share items with other Bluetooth compatible devices such as phones or computers. You can receive the following kinds of items:

- Photos and videos
- Music and other audio files
- Web pages

Make sure that the Bluetooth function is on and is visible to other Bluetooth devices.

1 **On the transmitting device, send the data to your device.**

2 **When you are notified of an incoming file to your device, drag the status bar downwards and tap the notification to accept the file transfer.**

3 **Tap [Accept] to start the file transfer.**

4 **To view the progress of the transfer, drag the status bar downwards.**

5 **To open a received item, drag the status bar downwards and tap the relevant notification.**

To view files you have received using the Bluetooth connection

1. Find and tap [Settings] > [Device connection] > [Connection preferences].
2. Tap [Files received via Bluetooth].

Related Topic
- Turning the Bluetooth function on or off
- Sending items using Bluetooth technology

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Accessibility

Accessibility settings

Android provides many accessibility features such as [Magnification], [Font size], [Color correction], [TalkBack], and more.
You can find accessibility features under [Settings] > [Accessibility].
Visit Google Accessibility Help at support.google.com/accessibility/android for more information.

Real-Time Text

Real-time Text (RTT) is a text service that carriers provide in certain countries/regions. It allows each character in a message to be read as it is typed. Check with your carrier to learn whether RTT is available with your service plan. Please note that in order to contact 911 using RTT in the United States, your phone must have a SIM card installed. For more information about using RTT on your phone, please visit support.google.com/accessibility/android.

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Xperia 1 II XQ-AT51/XQ-AT52

Warranty, SAR, and usage guidelines

For information about warranty, SAR (Specific Absorption Rate), and safety guidelines, please read the Important information provided under [Settings] > [About phone] > [Legal information] on your device.