

SONY[®]

User guide

Xperia™ Tablet Z
SGP321/SGP351

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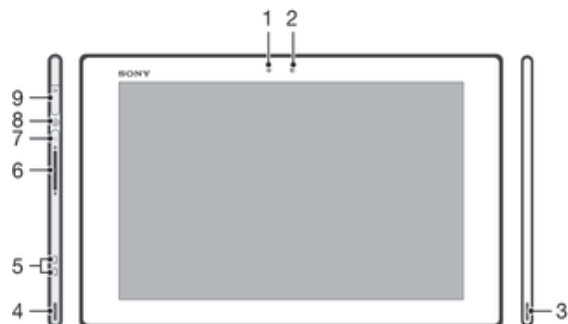
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Xperia™ Tablet Z User guide

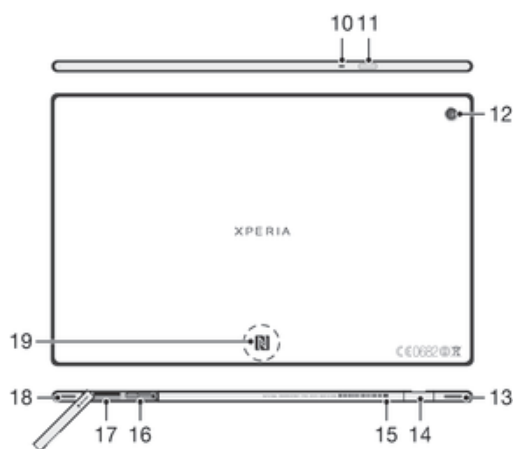


Getting started

Device overview



- 1 Light sensor
- 2 Front camera
- 3 Speaker A
- 4 Speaker B
- 5 Charging dock connector
- 6 Volume key
- 7 Notification light
- 8 Power key
- 9 Headset jack

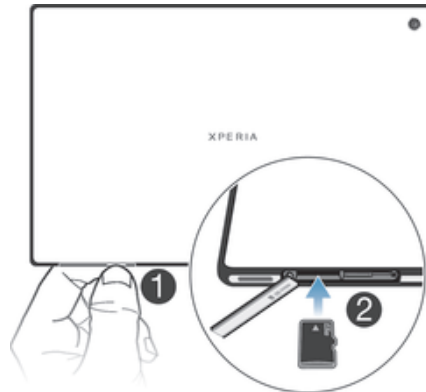


- 10 Microphone
- 11 Infrared sensor
- 12 Main camera
- 13 Speaker B (same as 4)
- 14 Port for charger/USB cable
- 15 Hole for attaching the charger port cover
- 16 SIM card slot
- 17 Memory card slot
- 18 Speaker A (same as 3)
- 19 NFC™ detection area

Assembly

To insert the memory card

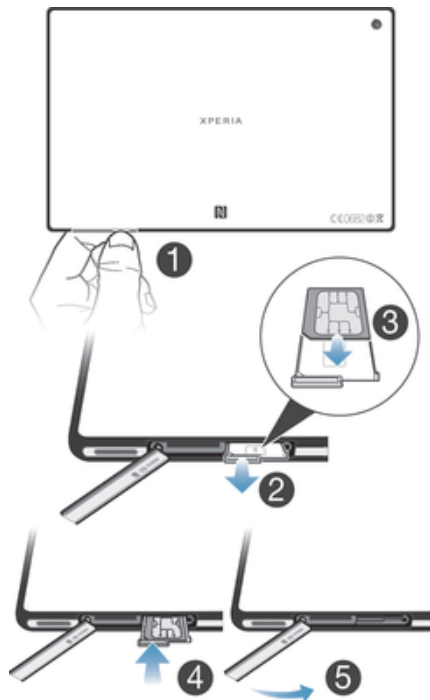
- ! Do not insert a micro SIM card into the memory card slot.



- 1 Insert a fingernail into the gap between the memory card cover and the bottom side of the device, then detach the memory card cover.
 - 2 Place the memory card in the memory card slot, with the gold-colored contacts facing down, then push the memory card all the way into the slot until you hear a locking sound.
 - 3 Reattach the memory card cover.
- ! The memory card may not be included at purchase in all markets.

To insert the micro SIM card

- ! Do not insert the micro SIM card into the memory card slot.

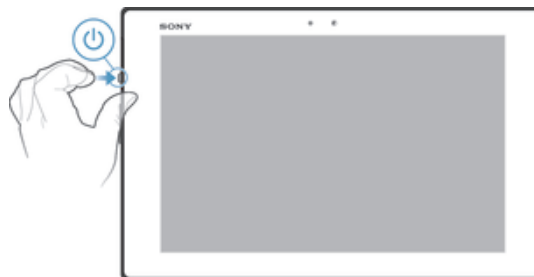







- 1 Insert a fingernail into the gap between the micro SIM card slot cover and the bottom side of the device, then detach the cover.
 - 2 Using a fingernail, pull out the micro SIM card holder.
 - 3 Place the micro SIM card on the holder, with the gold-colored contacts on the micro SIM card facing up.
 - 4 Insert the micro SIM card holder back into the device.
 - 5 Re-attach the micro SIM card slot cover.
- ! Inserting the micro SIM card into the device without the SIM card holder could damage your micro SIM card or your device, and Sony does not warrant and will not be responsible for any damages caused by such action.

Turning the device on and off


To turn on the device

- ! Make sure that the battery is charged for at least 30 minutes before you turn on the device for the first time.



- 1 Press and hold down the power key  until the screen flashes.
 - 2 If your screen goes dark, briefly press the power key  to activate the screen.
 - 3 To unlock the screen, drag  up or drag  down.
 - 4 Enter your SIM card PIN when requested, then select **OK**.
 - 5 Wait a while for the device to start.
- 💡 Your SIM card PIN is initially supplied by your network operator, but you can change it later from the **Settings** menu. To correct a mistake made while entering your SIM card PIN, tap .

To turn off the device

- 1 Press and hold down the power key  until the options menu opens.
- 2 In the options menu, tap **Power off**.
- 3 Tap **OK**.

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

To force the device to shut down

- 1 Press and hold down both the volume up key and the power key for 10 seconds.
- 2 After the notification light flashes three times, release the keys. The device turns off automatically.

Setup guide

The first time you start your device, a setup guide opens to explain basic functions and help you enter essential settings. This is a good time to configure the device to your specific needs. You can also access the setup guide later from the Application screen.



To access the setup guide manually

- 1 From the **Home screen**, tap .
- 2 Tap **Settings** > **Setup guide**.

Screen lock

When your device is on and left idle for a set period of time, the screen darkens to save battery power, and locks automatically. This lock prevents unwanted actions on the touchscreen when you are not using it. On the lockscreen, you can still take photos and play audio tracks.

To activate the screen


- Briefly press the power key .
 - If Tap to wake up mode is enabled, double-tap the screen.
- 💡 To enable Tap to wake up mode, go to the Home screen, then tap  > **Settings** > **Display** > **Tap to wake up**.

To unlock the screen



- Drag  up or drag  down.

To lock the screen manually

- When the screen is active, briefly press the power key .

Accounts and services

Sign in to your online service accounts from your device to get easy access when you're on the move. For example, you can integrate contacts from your Google™ account into your Contacts, so you have everything in one place. You can sign up to new online services from your device as well as from a computer.

Google™ account

Having a Google™ account is key to using a range of applications and services with your Android device. You need a Google™ account, for example, to use the **Gmail™** application in your device, chat with friends using Google Talk™, and synchronize the calendar application on your device with your Google Calendar™. You also need a Google™ account to download applications and games, music, movies, and books from Google Play™.

Microsoft® Exchange ActiveSync® account

Synchronize your device with your corporate Microsoft® Exchange ActiveSync® account. This way, you keep your work email, contacts, and calendar events with you at all times.

Facebook™ account

Facebook™ is a social networking service that connects you with friends, family, and colleagues around the world. Set up Facebook to work on your device so that you can stay in touch from anywhere.

Getting to know your device

Using the keys



Back

- Go back to the previous screen.
- Close the on-screen keypad, a dialog box, an options menu, or the Notification panel.



Home

- Go to the **Home screen**.



Task

- Tap to open a window showing your most recently used applications.



Small apps launcher

- Tap to open a list of all small apps.



Small app shortcut

- Tap to launch a preselected small app.




You can create a shortcut for any small app by touching and holding a small app icon in the small apps launcher.

Battery

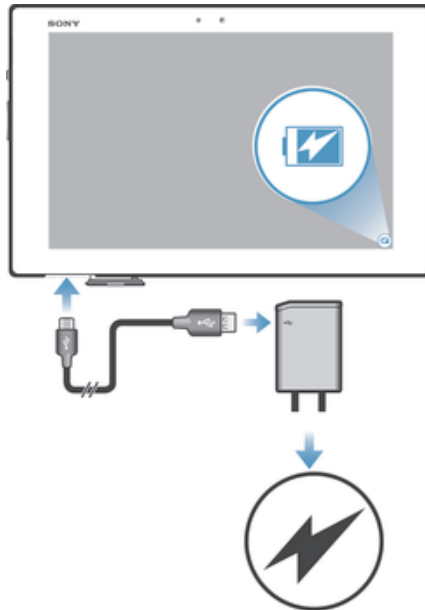
Your device has an embedded battery.

Charging the battery

Your battery is partly charged when you buy the device. It may take a few minutes before the battery icon  appears on the screen when you connect the charger cable to a power source, such as a USB port or a charger. You can still use your device while it is charging. Charging your device over a long period of time, for example, overnight, does not damage the battery or the device.

- ! The battery will start to discharge a little after it is fully charged and then charges again after a certain time when the charger is connected. This is to extend battery life and may result in the charge status showing a level below 100 percent.

To charge your device



- 1 Plug the charger into a power outlet.
 - 2 Plug one end of the USB cable into the charger (or into the USB port of a computer).
 - 3 Plug the other end of the cable into the micro USB port on your device, with the USB symbol facing up. The notification light lights up when charging starts.
 - 4 When the notification light is green, the device is fully charged. Disconnect the USB cable from your device by pulling it straight outward. Make sure not to bend the connector when removing the cable from the device.
- 💡 If the battery is completely discharged, it may take a few minutes before the notification light lights up after you connect the charger cable to a power source.

Battery notification light status

Green	The battery is fully charged
Flashing red	The battery level is low
Orange	The battery is charging. The battery level is between low and full

To check the battery level

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > About tablet > Status > Battery level**.

Improving battery performance

The following tips can help you improve battery performance:

- Charge your device often. This will not affect the lifetime of the battery.
- Downloading data from the Internet is power consuming. When you're not using the Internet, you can save power by disabling all data connections.
- Turn off Bluetooth™ and Wi-Fi® when you don't need these features.
- Use the **STAMINA mode** and **Low battery mode** features to reduce battery consumption. You can select the power saving mode that best suits the way you use your device. You can also customize the settings of each power saving mode.
- Set your synchronization applications (used to synchronize your email, calendar, and contacts) to synchronize manually. You can also synchronize automatically, but increase the synchronization intervals.
- Check the battery usage menu in your device to see which applications use the most power. Your battery consumes more power when you use video and music streaming

applications, such as YouTube™. Some applications downloaded from Google Play™ may also consume more power.

- Close and exit applications that you are not using.
- Lower the screen display brightness level.
- Turn off your device or activate the **Airplane mode** setting if you are in an area with no network coverage. Otherwise, your device repeatedly scans for available networks, and this consumes power.
- Use a Sony original handsfree device to listen to music. Handsfree devices demand less battery power than your device's own loudspeakers.
- Keep your device in standby mode whenever possible. Standby time refers to the time during your device is connected to the network and is not being used.
- Disable any live wallpaper.

To access the battery usage menu

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Power management > Battery usage**.

Using the STAMINA mode feature

Activate the **STAMINA mode** feature to pause your **Wi-Fi®** connection, data traffic, and several power consuming applications when your screen is inactive. You can also set up an application list to allow some applications to keep running when your screen is inactive. Once the screen becomes active again, all paused functions are resumed.

To activate STAMINA mode

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Power management**.
- 3 Tap **⊙** next to **STAMINA mode**, then tap **Activate**.

To deactivate STAMINA mode

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Power management**.
- 3 Tap **ⓘ** next to **STAMINA mode**.

To change the settings for STAMINA mode

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Power management**.
- 3 To open the settings menu, tap **STAMINA mode**.
- 4 Add or remove applications, as desired.
- 5 When you're finished, tap **Done**.

Estimating the standby time of your device

Standby time refers to the amount of time the battery can last when your device is connected to the network but is not in active use. STAMINA mode, when activated, continuously evaluates the remaining standby time, which can vary depending on how you use your device. STAMINA mode is more effective in lengthening the standby time if you keep the screen of your device locked. If you rarely lock the screen, you may not see much improvement in battery performance.

- ! When you use your device for the first time, the estimated standby time may not be accurate since there is no previous usage history to estimate from.

To view the estimated standby time

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Power management**.

Using Low battery mode

You can activate the **Low battery mode** feature when the battery level is low. This feature helps you to adjust the settings for screen brightness and data traffic so that you can reduce battery consumption.

To activate Low battery mode

- 1 From your **Home screen**, tap **☰**.
- 2 Find and tap **Settings > Power management**.
- 3 Tap next to **Low battery mode**, then tap **Activate**.

To deactivate Low battery mode

- 1 From your **Home screen**, tap **☰**.
- 2 Find and tap **Settings > Power management**.
- 3 Tap next to **Low battery mode**.

To change the settings for Low battery mode

- 1 From your **Home screen**, tap **☰**.
- 2 Find and tap **Settings > Power management**.
- 3 To open the settings menu, tap **Low battery mode**.
- 4 Adjust the settings as desired.
- 5 When you're finished, tap **↩**.

Using the touchscreen

A protective plastic sheet is already attached to the screen of your device when you buy it. You should peel off this sheet before using the touchscreen. Otherwise, the touchscreen might not function properly.

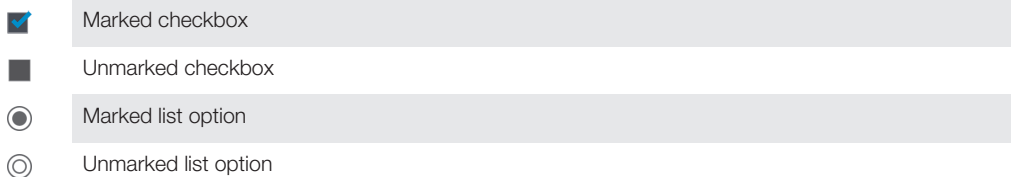
When your device is on and left idle for a set period of time, the screen darkens to save battery power, and locks automatically. This lock prevents unwanted actions on the touchscreen when you are not using it. You can also set personal locks to protect your subscription and make sure only you can access content on your device.

- ! The device screen is made from glass. Do not touch the screen if the glass is cracked or shattered. Avoid trying to repair a damaged screen yourself. Glass screens are sensitive to drops and mechanical shocks. Cases of negligent care are not covered by the Sony warranty service.

To open or highlight an item

- Tap the item.

Marking options



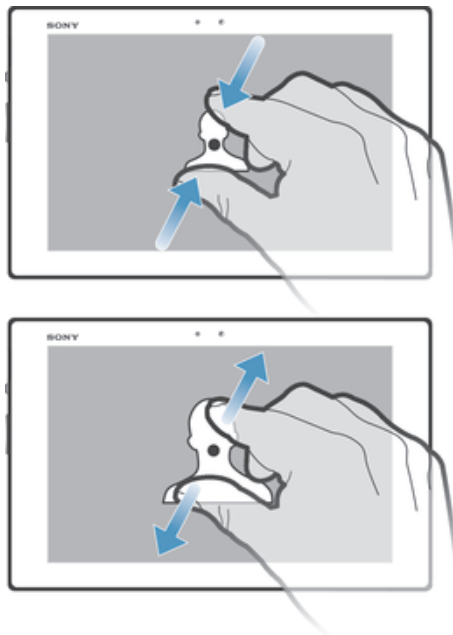
To mark or unmark options

- Tap the relevant checkbox or list option.

Zooming

The zoom options available depend on the application you are using.

To zoom



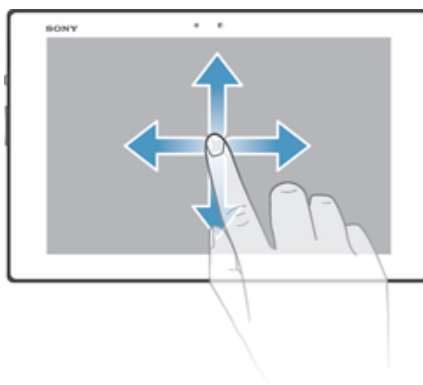
- Place two fingers on the screen at once and pinch them together (to zoom out) or spread them apart (to zoom in).
- 💡 When you use two fingers on the screen to zoom, it is only possible to zoom if both fingers are within the zoomable area. If you, for example, want to zoom in on a photo, make sure that both fingers are within the photo frame area.

Scrolling

Scroll by moving your finger up or down on the screen. On some web pages you can also scroll to the sides.

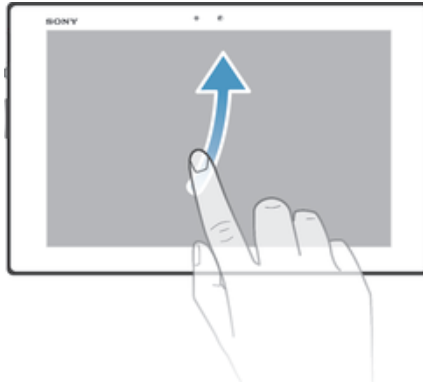
- ! Dragging or flicking will not activate anything on the screen.

To scroll



- Drag or flick your finger in the direction you want to scroll on the screen.
- 💡 To scroll more quickly, flick your finger in the direction you want to go on the screen.

To flick



- To scroll more quickly, flick your finger in the direction you want to go on the screen. You can wait for the scrolling movement to stop by itself, or you can stop it immediately by tapping the screen.

Sensors

Your device has a sensor that detects light. The light sensor detects the ambient light level and adjusts the brightness of the screen accordingly.

Using the lockscreen

On the lockscreen, you can play tracks, take photos and record videos without unlocking the screen.

To take a photo from the lockscreen



- 1 To activate the screen, briefly press the power key (⏻).
- 2 To activate the camera controls, drag 📷 to the left across the screen.
- 3 Tap 📷.

To play an audio track from the lockscreen



- 1 To activate the screen, briefly press the power key (⏻).
- 2 To display the music player controls, drag 🎵 to the right across the screen.
- 3 Tap ▶.

To pause an audio track from the lockscreen

- 1 To activate the screen, briefly press the power key (⏻).
- 2 When the music player controls appear, tap ⏸.

To change the currently playing audio track from the lockscreen

- 1 To activate the screen, briefly press the power key (⏻).
- 2 When the music player controls appear, tap ⏮ or ⏭.

Home screen

You can customize your **Home screen** with widgets, shortcuts, folders, themes, wallpaper, and other items. You can also add more panes to it. You can view content in other panes of the **Home screen** by flicking left or right.

○○○○ shows which part of the **Home screen** you are in. You can set a pane as the main **Home screen**, and add or delete a pane as necessary.



💡 The items in the bar at the top of the screen are always available for quick access.

To go to the Home screen


- Press .

To browse the Home screen


- Flick right or left.

To set a pane as the main Home screen pane




- 1 Touch and hold an empty area on your **Home screen**.
- 2 Flick left or right to browse to the pane that you want to set as your main Home screen pane, then tap .

To add a pane to your Home screen

- 1 Touch and hold an empty area on your **Home screen**.
- 2 Flick left or right to browse the panes, then tap .

To delete a pane from your Home screen

- 1 Touch and hold an empty area on your **Home screen**.
- 2 Flick left or right to browse to the pane that you want to delete, then tap .

Widgets

Widgets are small applications that you can use directly on your **Home screen**. For example, the “WALKMAN” widget allows you to start playing music directly.

Some widgets are resizable, so you can expand them to view more content or shrink them to save space on your **Home screen**.

To add a widget to the Home screen

- 1 Touch and hold an empty area on your **Home screen**, then tap **Widgets**.
- 2 Find and tap the widget that you want to add.

To resize a widget





- 1 Touch and hold a widget until it magnifies, then release the widget. If the widget can be resized, for example, the Calendar widget, then a highlighted frame and resizing dots appear.
- 2 Drag the dots inward or outward to shrink or expand the widget.
- 3 To confirm the new size of the widget, tap anywhere on the **Home screen**.

Rearranging your Home screen

Customize the appearance of your Home screen and change the features you can access from it. Change the screen background, move items around, create folders, and add shortcuts and widgets.

Customization options

When you touch and hold an empty area of your Home screen, the following customization options appear:

-  Add widgets to your Home screen.
-  Add applications and shortcuts.
-  Set a wallpaper for your Home screen.
-  Set a background theme.

To view customization options from the Home screen

- Touch and hold an empty area on your **Home screen** and customization options appear on the screen.

To add a shortcut to your Home screen


- 1 Touch and hold an empty area on your **Home screen**.
- 2 Tap **Apps > Shortcuts**.
- 3 Select a shortcut.

- 💡 You can add an application shortcut directly from the Application screen by touching and holding the application.

To move an item on the Home screen

- Touch and hold the item until it magnifies, then drag the item to the new location.

To delete an item from the Home screen

- Touch and hold an item until it magnifies, then drag the item to .

To create a folder on the Home screen

- 1 Touch and hold an application icon or a shortcut until it magnifies, then drag and drop it on top of another application icon or shortcut.
- 2 Enter a name for the folder and tap **Done**.

To add items to a folder on the Home screen

- Touch and hold an item until it magnifies, then drag the item to the folder.

To rename a folder

- 1 Tap the folder to open it.
- 2 Touch the folder's title bar to show the **Folder name** field.
- 3 Enter the new folder name and tap **Done**.

Changing the background of your Home screen

Adapt the **Home screen** to your own style using wallpapers and different themes.

To change your Home screen wallpaper

- 1 Touch and hold an empty area on your **Home screen**.
- 2 Tap **Wallpapers** and select an option.

To set a theme for your Home screen

- 1 Touch and hold an empty area on your **Home screen**.
 - 2 Tap **Themes**, then select a theme.
- ! When you change a theme, the background also changes in some applications.

Accessing and using applications

Open applications from shortcuts on your **Home screen** or from the Application screen.

Application screen

The Application screen, which you open from your **Home screen**, contains the applications that come pre-installed on your device, as well as the applications you download.

The Application screen extends beyond the regular screen width, so you need to flick left and right to view all content.

To open the Application screen




- From your **Home screen**, tap .




To browse the Application screen

- From the Application screen, flick right or left.

To create a shortcut to an application on the Home screen

- 1 From your **Home screen**, tap .
- 2 Touch and hold an application icon, then drag the icon to the top of the screen. The **Home screen** opens.
- 3 Drag the icon to the desired location on the **Home screen**, then release your finger.

To share an application from your Application screen



- 1 From your **Home screen**, tap .
- 2 Tap , all applications which can be shared are indicated by .
- 3 Tap the application that you want to share, then select an option and confirm, if necessary. A link to a download of the application is sent to the people you have selected.

Opening and closing applications

To open an application

- From your **Home screen** or the Application screen, tap the application.

To close an application

- Press .
- 💡 Some applications are paused when you press  to exit, while other applications may continue to run in the background. In the first case, the next time you open the application, you can continue where you left off. Remember that some applications may cause data connection charges when they are running in the background, for example, social networking services.

Recently used applications window

You can view and access recently used applications from this window.

To open the recently used applications window

- Press .


Using small apps

You can get quick access to several small apps at any time using the small apps bar. A small app only takes up a small area of your screen. So you can interact with a small app and another application at the same time on the same screen.

To open the small apps bar

- Press . The small apps bar appears at the bottom of the screen.

To open a small app

- 1 To make the small apps bar appear, press .
- 2 Tap the small app that you want to open. A small app window appears.

To close a small app

- Tap  on the small app window.




To move a small app

- When the small app is open, touch and hold the top left corner of the small app, then move it to the desired location.




To minimize a small app

- When the small app is open, touch and hold the top left corner of the small app, then drag it to the right edge or to the bottom edge of the screen.

To add a small app

- 1 To make the small apps bar appear, press .
- 2 Tap , then tap .
- 3 Select the widget that you want to add as a small app.


To download a small app

- 1 To make the small apps bar appear, press .
- 2 Tap , then tap .
- 3 Find a small app that you want to download, then follow the instructions to complete the installation.

Application menu

You can open a menu at any time when you are using an application. The menu will look different depending on which application you are using.

To open a menu in an application

- While using the application, press .
- ! A menu is not available in all applications.

Rearranging your Application screen

Move the applications around on the Application screen according to your preferences.

To arrange applications on the Application screen

- 1 From your **Home screen**, tap **⋮** to go to the Application screen.
- 2 Tap the drop-down list on the top left of the screen and select an option.

To move an application on the Application screen

- 1 Open the Application screen.
- 2 Touch and hold an item until it magnifies, then drag the item to the new location.

! You can only move your applications when **Own order** is selected.

To uninstall an application from the Application screen

- 1 From your **Home screen**, tap **⋮**.
- 2 Tap **⊗**, all uninstalleable applications are indicated by **⊗**.
- 3 Tap the application that you want to uninstall, then tap **Uninstall**.

Status and notifications

The status bar in the lower right corner of your screen shows what's going on in your device. To the left, you get notifications when there is something new or ongoing. For example, calendar notifications appear here. The right side shows the signal strength, battery status, and other information.



The status bar allows you to adjust basic settings on your device, for example, Wi-Fi®. You can also open the settings menu from the Notification panel to change other settings.

A notification light also gives you battery status information and some notifications. The notification light might not work when the battery level is low.



Checking notifications and ongoing activities

You can tap the status bar area to open the Notification panel and get more information. For example, you can use the panel to view a calendar event. You can also open some applications that run in the background, such as the music player.

To open the Notification panel

- Tap the status bar.

To close the Notification panel

- Press **↶**.

To open a running application from the Notification panel

- Tap the icon for the running application to open it.

To dismiss a notification from the Notification panel

- Place your finger on a notification and flick left or right.


To clear the Notification panel

- From the Notification panel, tap **Clear**.


Setting your device from the Notification panel

You can open the settings menu from the Notification panel to adjust basic device settings. For example, you can turn on Wi-Fi®.

To open the device settings menu from the Notification panel

- 1 Tap the status bar to open the Notification panel.
- 2 Tap .

To control the Wi-Fi® function from the Notification panel



- 1 Tap the status bar to open the Notification panel.
- 2 Tap .

Settings menu

View and change settings for your device from the Settings menu.

To access your device settings

- 1 From your **Home screen**, tap .
- 2 Find and tap **Settings**.

- 💡 You can also tap the status bar on the Home screen and then tap  >  to access your device settings.

Typing text

You can select from a number of keyboards and input methods to type text containing letters, numbers and other characters.

On-screen keyboard

Tap the keys of the on-screen QWERTY keyboard to enter text conveniently. Some applications open the on-screen keyboard automatically. You can also open this keyboard by touching a text field.

Using the on-screen keyboard



- 1 Delete a character before the cursor.
- 2 Enter a carriage return or confirm text input.
- 3 Change the character case and turn on the caps lock. For some languages, this key is used to access extra characters in the language.
- 4 Shift to the movable small keyboard.
- 5 Enter a space.

6 Personalize your keyboard. This key disappears after the keyboard is personalized.

7 Display numbers and symbols.

- ! All illustrations are for illustration purposes only and may not accurately depict the actual device.


To display the on-screen keyboard to enter text

- Tap a text entry field.

To hide the on-screen keyboard

- When the on-screen keyboard is open, tap .

To personalise the on-screen keyboard

- 1 Open the on-screen keyboard, then tap .
- 2 Follow the instructions to personalise your on-screen keyboard, for example, mark the **Smiley key** checkbox.

- 💡 If you don't mark the **Smiley key** checkbox when you personalise the on-screen keyboard, the smiley icon will not appear.



To use the on-screen keyboard in landscape orientation

- When you enter text, turn the device sideways.
- ! For the keyboard to support this feature, landscape mode must be supported by the application you are using, and your screen orientation settings must be set to automatic.

To enter text using the on-screen keyboard

- To enter a character visible on the keyboard, tap the character.
- To enter a character variant, touch and hold a regular keyboard character to get a list of available options, then select from the list. For example, to enter "é", touch and hold "e" until other options appear, then, while keeping your finger pressed on the keyboard, drag to and select "é".



To shift between upper-case and lower-case letters

- Before you enter a letter, tap  to switch to upper-case , or vice versa.

To turn on the caps lock

- Before you type a word, tap  or  until  appears.

To enter numbers or symbols

- When you enter text, tap . A keyboard with numbers and symbols appears. Tap  to view more options.

To enter common punctuation marks

- 1 When you finish entering a word, tap the space bar.
- 2 Select a punctuation mark from the candidate bar. The selected mark is inserted before the space.

- 💡 To quickly enter a full stop, tap the space bar twice when you finish entering a word.

To delete characters

- Tap to place the cursor after the character you want to delete, then tap .

To enter a carriage return

- When you enter text, tap  to enter a carriage return.

To select text

- 1 Enter some text, then double-tap the text. The word you tap gets highlighted by tabs on both sides.
- 2 Drag the tabs to the left or right to select more text.

To edit text

- 1 Enter some text, then double-tap the entered text to make the application bar appear.
- 2 Select the text that you want to edit, then use the tools in the application bar to make your desired changes.

Application bar



- 1 Close the application bar
- 2 Select all text
- 3 Cut text
- 4 Copy text
- 5 Paste text

! only appears when you have text stored on the clipboard.

Using the Gesture input function to write words

You can input text by sliding your finger from letter to letter on the on-screen keyboard.

To change the Gesture input settings

- 1 When you enter text using the on-screen keyboard, tap in the status bar, then tap next to **International keyboard**.
- 2 Tap **Text input settings**.
- 3 Mark or unmark the **Gesture input** checkbox.
- 4 If you want to automatically add a space between gestures without having to tap the space bar each time, mark the **Space between gestures** checkbox.

To enter text using the Gesture input function

- 1 When you enter text using the on-screen keyboard, slide your finger from letter to letter to trace the word you want to write.
- 2 Lift up your finger when you've finished entering a word. A word is suggested based on the letters you have traced. If necessary, select the correct word in the candidate bar.
- 3 To view more options, scroll right or left in the word candidate bar. If you cannot find the desired word, tap once to delete the entire word. Then try again to trace the word using the Gesture input function, or tap each letter to enter the word.
- 4 If the **Space between gestures** setting is activated, trace the next word that you want to enter. If not, tap the space bar and then trace the next word you want to enter.

💡 To enter joined compound words when the **Space between gestures** setting is activated, you may need to slide to enter the first part of the word, then tap each letter to enter the rest of the word.



Keyboard settings

You can select settings for the on-screen keyboard, such as writing language and automatic correction.

To access the on-screen keyboard settings

- When you enter text using the on-screen keyboard, tap in the status bar, then tap next to **International keyboard**.




To add a writing language for text input

- 1 When you enter text using the on-screen keyboard, tap  in the status bar, then tap  next to **International keyboard**.
- 2 Tap **Languages > Writing languages** and mark the relevant checkboxes.
- 3 Tap **OK** to confirm.

Text input settings

When entering text using the on-screen keyboard, you can access a text input settings menu that helps you set options for text prediction, automatic spacing and quick fixes. For example, you can decide how word options are presented and how words get corrected as you type. You can also set the text input application to remember new words that you write.

To change the text input settings





- 1 When you enter text using the on-screen keyboard, tap  in the status bar, then tap  next to **International keyboard**.
- 2 Tap **Text input settings** and select the relevant settings.
- 3 Tap  to confirm

Entering text using voice input




When you enter text, you can use the voice input function instead of typing the words. Just speak the words that you want to enter. Voice input is an experimental technology from Google™, and is available for a number of languages and regions.

- ! You must have a data connection on a mobile or Wi-Fi® network to use this service. Additional charges may apply.

To enable voice input

- 1 When you enter text using the on-screen keyboard, tap  in the status bar, then tap  next to **International keyboard**.
- 2 Mark the **Google voice typing key** checkbox.
- 3 Tap  to save your settings. A microphone icon  appears on your on-screen keyboard.

To enter text using voice input

- 1 Make sure that the voice input function is enabled and that you have a working data connection.
- 2 Open the on-screen keyboard.
- 3 If  is available, tap it. If not, touch and hold the input language key, for example, **EN**⁹.
- 4 When  appears, speak to enter text. When you're finished, tap  again. The suggested text appears.
- 5 Edit the text manually if necessary.

Customizing your device

You can adjust several device settings to suit your own needs. For example, you can change the language, adjust the volume, or change the screen brightness.

Adjusting the volume

You can adjust the volume for notifications as well as for music and video playback.

To adjust the media playing volume with the volume key

- When playing music or watching video, press the volume key up or down.


Adjusting the sound settings

You can adjust several sound settings. For example, you can set your device to silent mode.


To set your device to silent mode

- 1 Press and hold down the power key  until the options menu opens.
- 2 In the options menu, tap .  appears in the status bar.

To enable touch tones

- 1 From your **Home screen**, tap .
- 2 Find and tap **Settings > Sound**.
- 3 Mark the **Touch sounds** checkbox.


To select the notification sound

- 1 From your **Home screen**, tap .
- 2 Find and tap **Settings > Sound > Default notification sound**.
- 3 Select the sound to be played when notifications arrive.
- 4 Tap **Done**.


Time and date

You can change the time and date on your device.


To set the date manually

- 1 From the **Home screen**, tap .
- 2 Find and tap **Settings > Date & time**.
- 3 Unmark the **Automatic date & time** checkbox, if it is marked.
- 4 Tap **Set date**.
- 5 Adjust the date by scrolling up and down.
- 6 Tap **Done**.

To set the time manually


- 1 From your **Home screen**, tap .
- 2 Find and tap **Settings > Date & time**.
- 3 Unmark the **Automatic date & time** checkbox if it is marked.
- 4 Tap **Set time**.
- 5 Scroll up or down to adjust the hour and minute.
- 6 If applicable, scroll up to change **am** to **pm**, or vice versa.
- 7 Tap **Done**.


To set the time zone

- 1 From your **Home screen**, tap .
- 2 Find and tap **Settings > Date & time**.
- 3 Tap **Select time zone**.
- 4 Select an option.


Screen settings

To adjust the screen brightness

- 1 From your **Home screen**, tap .
- 2 Find and tap **Settings > Display > Brightness**.
- 3 Drag the slider to adjust the brightness.
- 4 Tap **OK**.

 The brightness level affects your battery performance. For tips on how to improve battery performance, see *Improving battery performance*.

To adjust the idle time before the screen turns off

- 1 From your **Home screen**, tap .
- 2 Find and tap **Settings > Display > Sleep**.
- 3 Select an option.

 To turn off the screen quickly, briefly press the power key .

Language settings

You can select a default language for your device and change it again at a later time.

To change the language

- 1 From the **Home screen**, tap **⋮**.
 - 2 Find and tap **Settings > Language & input > Language**.
 - 3 Select an option.
 - 4 Tap **OK**.
- ! If you select the wrong language and cannot read the menu texts, find and tap **✕**. Then select the text beside **🗃️** and select the first entry in the menu that opens. You can then select the language you want.

Airplane mode

In Airplane mode, the network and radio transceivers are turned off to prevent disturbance to sensitive equipment. However, you can still play games, listen to music, watch videos and other content, as long as all this content is saved on your memory card or internal storage. You can also be notified by alarms, if alarms are activated.

- 💡 Turning on Airplane mode reduces battery consumption.

To turn on Airplane mode

- 1 From your **Home screen**, tap **⋮**.
 - 2 Find and tap **Settings > More....**
 - 3 Mark the **Airplane mode** checkbox.
- 💡 You can also press and hold down the power key **⏻** and then select **Airplane mode** in the menu that opens.

Enhancing the sound output

You can enhance the sound output that comes from the speakers in your device using features such as Clear Phase™ and xLOUD™ technology.

Using Clear Phase™ technology

Use Clear Phase™ technology from Sony to automatically adjust the sound quality coming from your device's internal speakers and get a cleaner, more natural sound.

To enhance the speaker sound quality using Clear Phase™

- 1 From your **Home screen**, tap **⋮**.
 - 2 Find and tap **Settings > Sound**.
 - 3 Mark the **Clear Phase™** checkbox.
- ! The activation of the Clear Phase™ feature has no effect on voice communication applications.

Using xLOUD™ technology

Use xLOUD™ audio filter technology from Sony to enhance the speaker volume without sacrificing quality. Get a more dynamic sound as you listen to your favorite songs.

To enhance the speaker volume using xLOUD™

- 1 From your **Home screen**, tap **⋮**.
 - 2 Find and tap **Settings > Sound**.
 - 3 Mark the **xLOUD™** checkbox.
- ! The activation of the xLOUD™ feature has no effect on voice communication applications.

Using S-Force Front Surround 3D

Use S-Force Front Surround 3D technology from Sony to get the best sound from your device for watching movies. This technology creates realistic 3D surround sound using your device's speakers.

To use S-Force Front Surround 3D technology

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Sound**.
- 3 Mark the **S-Force Front Surround 3D** checkbox.

Memory

You can save content to your device's internal storage and to a memory card.

Memory card

Your device supports a microSD™ memory card, which is used for storing content. This type of card can also be used as a portable memory card with other compatible devices.

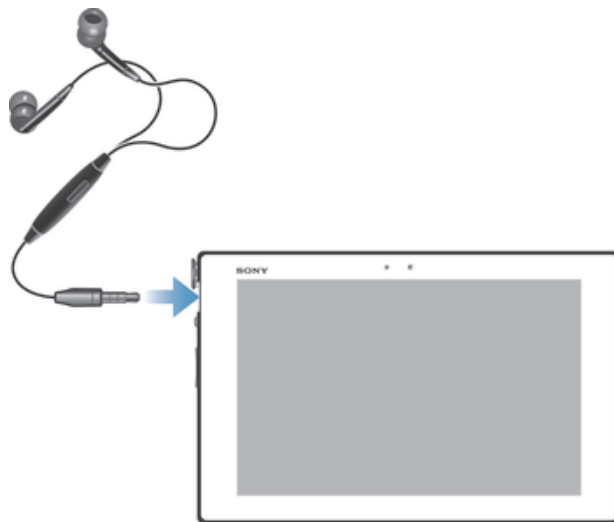
- ! You may have to purchase a memory card separately.

Formatting the memory card

You can format the memory card in your device, for example, to free up memory. This means that you erase all data on the card.

- ! All content on the memory card gets erased when you format it. Make sure you make backups of everything you want to save before formatting the memory card. To back up your content, you can copy it to your computer. For more information, refer to the chapter *Connecting your device to a computer* on page 91.

Using a headset



- ! Use the accessories provided with your device, or other compatible accessories, for optimal performance.

Internet and messaging settings

To send text and multimedia messages and to access the Internet, you must have a mobile data connection and the correct settings. There are different ways to get these settings:

- For most mobile networks and operators, Internet and messaging settings come preinstalled on your device. You can then start using the Internet and send messages right away.
- In some cases, you will get the option to download Internet and messaging settings the first time you turn on your device. It is also possible to download these settings later from the **Settings** menu.
- You can manually add and change Internet and network settings on your device at any time. Contact your network operator for detailed information about Internet and messaging settings.

To download Internet and messaging settings

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Xperia™ > Internet settings**.
- 3 Tap **Accept**.

To reset the default Internet settings

- 1 From the **Home screen**, tap **⋮**.
- 2 Tap **Settings > More... > Mobile networks > Access Point Names**.
- 3 Press **⋮**.
- 4 Tap **Reset to default**.

Access Point Names (APNs)

An APN is used to establish data connections between your device and the Internet. The APN defines which type of IP address to use, which security methods to invoke, and which fixed-end connections to use. Checking the APN is useful when you cannot access the Internet, have no data connection, or cannot send or receive multimedia messages.

To view the current APN

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > More... > Mobile networks**.
- 3 Tap **Access Point Names**.

- ! If you have several available connections, the active network connection is indicated by a marked button.

To add Internet settings manually

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > More... > Mobile networks > Access Point Names**.
- 3 Tap **⋮**.
- 4 Tap **New APN**.
- 5 Tap **Name** and enter the name of the network profile that you want to create.
- 6 Tap **APN** and enter the access point name.
- 7 Enter all other information required by your network operator.
- 8 Tap **⋮**, then tap **Save**.

Usage info

For quality purposes, Sony collects anonymous bug reports and statistics regarding your device. None of the information gathered includes personal data.

To allow the sending of usage info

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Xperia™ > Usage info settings**.
- 3 Mark the **Send usage info** checkbox if it is not already marked.
- 4 Tap **OK**.

Controlling data usage

Keep track of and control the amount of data transferred to and from your device during a given period. For example, you can set data usage warnings and limits for your device to avoid additional charges. You can also limit the amount of data used by individual applications.

- ! Adjusting data usage settings can help you keep greater control over data usage but cannot guarantee the prevention of additional charges.

To access data usage settings

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Data usage**.

To turn data traffic on or off

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Data usage**.
- 3 To turn data traffic on or off, tap the on-off switch beside **Mobile data traffic** accordingly.

- 💡 You can also turn data traffic on or off by marking or unmarking the **Mobile data traffic** checkbox under **Settings > More... > Mobile networks**.

To set a data usage warning

- 1 Make sure that you have turned on data traffic.
- 2 From your **Home screen**, tap **⋮**.
- 3 Find and tap **Settings > Data usage**.
- 4 To set the warning level, drag the lines to the desired values. You receive a warning notification when the amount of data traffic approaches the level you set.

To set a data usage limit

- 1 Make sure that you have turned on data traffic.
- 2 From your **Home screen**, tap **⋮**.
- 3 Find and tap **Settings > Data usage**.
- 4 Mark the **Set mobile data limit** checkbox if it is not marked, then tap **OK**.
- 5 To set the data usage limit, drag the lines to the desired values.

- ! Once your data usage reaches the set limit, data traffic on your device will be turned off automatically.

To control the data usage of individual applications

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Data usage**.
- 3 Find and tap the desired application.
- 4 Make the necessary adjustments to change the data usage limit, restrict background data, or restrict all data traffic for the application.
- 5 To access more specific settings for the application, tap **View app settings** and make the desired changes.

- ! Specific settings for an application may not always be accessible.

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

Mobile network settings

Your device automatically switches between mobile networks depending on what mobile networks are available in different areas. You can also manually set your device to use a particular mobile network mode, for example, WCDMA or GSM.

To select a network mode

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > More... > Mobile networks**.
- 3 Tap **Network Mode**.
- 4 Select a network mode.

To select another network manually

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > More... > Mobile networks > Service providers**.
- 3 Tap **Search mode > Manual**.
- 4 Select a network.

- ! If you select a network manually, your device will not search for other networks, even if you move out of range of the manually selected network.

To activate automatic network selection

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > More... > Mobile networks > Service providers**.
- 3 Tap **Search mode**.
- 4 Tap **Automatic**.

Turning off data traffic

You can disable all data connections over mobile networks to avoid any unwanted data downloads and synchronizations. Contact your network operator if you need detailed information about your subscription plan and data traffic charges.

- 💡 When data traffic is turned off, you can still use Wi-Fi® and Bluetooth™ connections. You can also send and receive multimedia messages.

To turn off all data traffic

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > More... > Mobile networks**.
- 3 Unmark the **Mobile data traffic** checkbox.

Data roaming

Some network operators allow mobile data connections via mobile networks when you are outside of your home network (roaming). Note that data transmission charges may apply. Contact your service provider for more information.

- ! Applications may sometimes use the Internet connection in your home network without any notification, for example, when sending search and synchronization requests. Additional charges may apply when such Internet connections are established while you are roaming. Consult your network operator for more information.

To activate data roaming

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > More... > Mobile networks**.
- 3 Mark the **Data roaming** checkbox.

- ! You can't activate data roaming when data connections have been deactivated.

Google Play™

Getting started with Google Play™

Open Google Play™ and enter a world of applications and games. You can browse these applications and games through different categories. You can also rate an application or game and send feedback on it.

To use Google Play™, you need to have a Google™ account. See *To set up a Google™ account on your device* on page 45.

- ! Google Play™ may not be available in all countries or regions

To open Google Play™

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Play Store**.

Downloading from Google Play™

You can download all kinds of applications from Google Play™, including free applications.

Before you download applications

Before you start downloading from Google Play™, make sure that you have a working Internet connection.

Also, remember that you might incur data traffic charges when you download content to your device. Contact your operator for more information.

To download a free application

- 1 In Google Play™, find an item you wish to download by browsing categories, or by using the search function.
- 2 Tap the item to view its details, and follow the instructions to complete the installation.

To download a paid application

- 1 In Google Play™, find an item you wish to download by browsing categories, or by using the search function.
- 2 Tap the item to view its details, and follow the instructions to complete your purchase.

To open a downloaded application

- 1 In Google Play™, press **⋮**, then tap **My Apps**.
- 2 Tap the downloaded application.

- 💡 You can also access downloaded applications from the Application screen.

Clearing your application data

You may sometimes need to clear data for an application. This might happen if, for example, the application memory becomes full, or you want to clear high scores for a game. You might also want to erase incoming email, text and multimedia messages in some applications.

To clear all cache for an application

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings**.
- 3 Tap **Apps**.
- 4 Tap the application for which you want to clear all cache.
- 5 Tap **Clear cache**.

! It is not possible to clear the cache for some applications.

To delete an installed application

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings**.
- 3 Tap **Apps**.
- 4 Select the application you want to delete.
- 5 Tap **Uninstall**.

! It is not possible to delete some preinstalled applications.

Permissions

Some applications may need to access data, settings, and various functions on your device in order to work properly. If so, then they need the relevant permissions from you. For example, a navigation application needs permissions to send and receive data traffic, and access your location. Some applications might misuse their permissions by stealing or deleting data, or by reporting your location. Make sure you only install and give permissions to applications you trust.

To view permissions of an application

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings**.
- 3 Tap **Apps**.
- 4 Tap the desired application.
- 5 Scroll down to view the relevant details under **Permissions**.

Installing applications not from Google Play™

Installing applications of unknown or unreliable origin can damage your device. By default, your device is set to block such installations. However, you can change this setting and allow installations from unknown sources.

! Sony does not warrant or guarantee the performance of any third-party applications or content transferred via download or other interface to your device. Similarly, Sony is not responsible for any damage or reduced performance of your device attributable to the transfer of third-party content. Only use content from reliable sources. Contact the content provider if you have any questions or concerns.

To allow the installation of applications not from Google Play™

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Security**.
- 3 Mark the **Unknown sources** checkbox.

Contacts

About Contacts

Use the Contacts application to store and manage all your numbers, email addresses, and other contact data in one place. Just tap on a contact to see all communications with that contact in one easy overview.

You can add new contacts in your device and synchronize them with contacts saved in your Google™ account, Microsoft® Exchange ActiveSync® account, or other accounts that support synchronization. The Contacts application automatically creates new entries and also helps you match data such as email addresses with existing entries.

Transferring contacts to your new device

There are several ways to transfer contacts to your new device. Select a transfer method that best suits your situation.

Transferring contacts using a PC

You can use a PC to transfer contacts from several device brands, including iPhone, Samsung, HTC, and Nokia.

You need:

- An Internet-connected PC running Windows®
- A USB cable for your old device
- A USB cable for your new Android™ device
- Your old device
- Your new Android™ device

Using the PC Companion program to transfer contacts

If you are transferring contacts using a PC, use the PC Companion program. It's free, and the installation files are already saved on your new device. PC Companion also offers a range of other features, including help to update your device software.

To install PC Companion

- 1 **New device:** Turn on your new Android™ device and connect it to a PC using a USB cable.
- 2 **New device:** Tap **Install** to install PC Companion on the PC.
- 3 **Computer:** If a popup window appears to notify you about available PC software, select *Run Startme.exe*.
- 4 **Computer:** Click *Install* to start the installation, then follow the instructions to complete the installation.

To transfer contacts to your new device using PC Companion

- 1 Make sure that PC Companion is installed on your PC.
- 2 Open the PC Companion program on the PC, then click *Contacts Setup* and follow the instructions to transfer your contacts.

Transferring contacts using an Apple® Mac® computer





For detailed instructions on how to use an Apple Mac computer to transfer contacts from your old device, go to *Transfer your contacts*.

Transferring contacts using synchronization accounts

Your device works with popular online synchronization accounts such as Google Sync™, Microsoft® Exchange ActiveSync® or Facebook™. If you have synced the contacts in your old device or your computer with an online account, you can transfer your contacts to your new device using that account. For more detailed information about




synchronization, see *Synchronizing your corporate email, calendar, and contacts* on page 96.

To synchronize contacts on your device with a synchronization account

- 1 From your **Home screen**, tap , then tap .
- 2 Tap , then tap **Settings > Accounts & sync**.
- 3 If you have already set up a synchronization account and you want to sync with that account, tap the account, then tap , and tap **Sync now**.




Transferring contacts from a SIM card

To import contacts from a SIM card

- 1 From your **Home screen**, tap , then tap .
- 2 Press , then tap **Import contacts > SIM card**.
- 3 If you have set up a synchronization account, you can choose to add the SIM card contacts under that account. Or you can choose to only use these contacts on your device. Select your desired option.
- 4 To import an individual contact, find and tap the contact. To import all contacts, tap **Import all**.

Transferring contacts from a memory card

To import contacts from a memory card

- 1 From your **Home screen**, tap , then tap .
- 2 Press , then tap **Import contacts > SD card**.
- 3 If you have set up a synchronization account, you can add the imported memory card contacts under that account. Or you can choose to only use the imported contacts on your device. Select your desired option.
- 4 If you have more than one vCard file on the SD card, a list appears showing different batches of contacts saved on your device, with the corresponding dates for when they were created. Select the batch that you want to import.

Receiving contacts from other devices

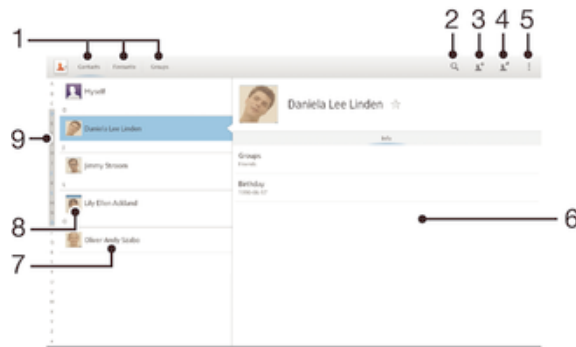
To receive contact data sent using Bluetooth™ technology

- 1 Make sure that you have the Bluetooth™ function turned on and your device set to visible.
- 2 When you are asked to confirm whether you want to receive the file, tap **Accept**.
- 3 To import the contact data, tap the Notification panel and then tap the file that you received.

To receive contacts sent using a messaging service

- 1 When you receive a new text message, multimedia message, or email message, open the message.
- 2 The received contact data appears as a vCard attachment. Tap, or touch and hold the vCard file to open a menu so you can save the contact data.

Contacts screen overview



1	Shortcut tabs
2	Search for contacts
3	Create a contact
4	Edit a contact's details
5	Open more options
6	Contact details display area
7	Tap a contact to view its details
8	Contact's thumbnail
9	Alphabetical index for browsing contacts

Managing your contacts

You can create, edit, and synchronize your contacts in a few simple steps. You can select contacts saved in different accounts and manage how you display them on your device.

If you synchronize your contacts with more than one account, you can join contacts on your device to avoid duplicates.

- ! Some synchronization services, for example, some social networking services, do not allow you to edit contact details.

To view your contacts

- From your **Home screen**, tap **☰**, then tap **👤**. Your contacts are listed here.




To select which contacts to display in the Contacts application

- From your **Home screen**, tap **☰**, then tap **👤**.
- Tap **⌵**, then tap **Filter**.
- In the list that appears, mark and unmark the desired options. If you have synchronized your contacts with a synchronization account, that account appears in the list.
- When you are finished, tap **Done**.





To add a contact

- From your **Home screen**, tap **☰**, then tap **👤**.
- Tap **👤+**.
- If you have synchronized your contacts with one or more accounts, select the account to which you want to add the contact, or tap **Local contact** if you want to keep the contact's information only on your device.
- Enter or select the desired information for the contact.
- When you are finished, tap **Done**.

To edit a contact



- 1 From the **Home screen**, tap , then tap .
- 2 Tap the contact you want to edit, then tap .
- 3 Edit the desired information. When you are finished, tap **Done**.

To associate a picture with a contact




- 1 From your **Home screen**, tap , then tap .
- 2 Tap the contact you want to edit, then tap .
- 3 Tap  and select the desired method for adding the contact picture.
- 4 When you have added the picture, tap **Done**.

-  You can also add a picture to a contact directly from the **Album** application.




To view your communication with a contact

- 1 From the **Home screen**, tap , then tap .
- 2 Tap the contact that you want to view.
- 3 Tap or flick through the filter items under the contact's picture.

To delete contacts

- 1 From your **Home screen**, tap , then tap .
- 2 Touch and hold the contact that you want to delete.
- 3 To delete all contacts, tap the downward arrow to open the drop-down menu, then select **Mark all**.
- 4 Tap , then tap **OK**.




To edit contact information about yourself

- 1 From your **Home screen**, tap , then tap .
- 2 Tap **Myself**, then tap .
- 3 Enter the new information or make the changes you want.
- 4 When you are done, tap **Done**.




Avoiding duplicate entries in the Contacts application

If you synchronize your contacts with a new account or import contact information in other ways, you could end up with duplicate entries in the Contacts application. If this happens, you can join such duplicates to create a single entry. And if you join entries by mistake, you can separate them again later.

To link contacts

- 1 From your **Home screen**, tap , then tap .
- 2 Tap the contact you want to link with another contact.
- 3 Press , then tap **Link contact**.
- 4 Tap the contact whose information you want to join with the first contact, then tap **OK** to confirm. The information from the first contact is merged with the second contact, and the first contact is no longer displayed in the Contacts list.




To separate linked contacts

- 1 From your **Home screen**, tap , then tap .
- 2 Tap the linked contact you want to edit, then tap .
- 3 Tap **Unlink contact**.
- 4 Tap **OK**.



Favorites

You can mark contacts as favorites so that you can get quick access to them from the Contacts application.

To mark or unmark a contact as a favorite

- 1 From the **Home screen**, tap , then tap .
- 2 Tap the contact you want to add to or remove from your favorites.
- 3 Tap .


To view your favorite contacts

- 1 From your **Home screen**, tap , then tap .
- 2 Tap **Favorites**.

Groups




You can assign contacts to groups to get quicker access to them from within the Contacts application.

To assign a contact to a group

- 1 In the Contacts application, tap the contact that you want to assign to a group.
- 2 Tap , then tap the bar directly under **Assign to group**.
- 3 Mark the checkboxes for the groups to which you want to add the contact, then tap **Done**.
- 4 Tap **Done**.




Communicating with your contacts

To search for a contact




- 1 From your **Home screen**, tap , then tap .
- 2 Tap  and enter the first few letters of the contact name in the **Search contacts** field. All contacts beginning with those letters appear.

Sharing your contacts





To send your business card

- 1 From your **Home screen**, tap , then tap .
- 2 Touch and hold **Myself**.
- 3 Tap , then select a transfer method and follow the on-screen instructions.

To send a contact

- 1 From your **Home screen**, tap , then tap .
- 2 Touch and hold the contact whose details you want to send.
- 3 Tap , then select a transfer method and follow the on-screen instructions.




To send several contacts at once

- 1 From your **Home screen**, tap , then tap .
- 2 Press , then tap **Mark several**.
- 3 Mark the contacts you want to send, or select all if you want to send all contacts.
- 4 Tap , then select an available transfer method and follow the on-screen instructions.




Backing up contacts

You can use a memory card, a SIM card or an online synchronization tool such as Microsoft® Exchange ActiveSync® to back up contacts.

To export all contacts to a memory card

- 1 From your **Home screen**, tap , then tap .
- 2 Press , then tap **Back up contacts > SD card**.
- 3 Tap **OK**.

To export contacts to a SIM card

- 1 From your **Home screen**, tap , then tap .
 - 2 Press , then tap **Back up contacts > SIM card**.
 - 3 Mark the contacts you want to export, or tap **Mark all** if you want to export all your contacts.
 - 4 Tap **Back up**.
 - 5 Select **Add contacts** if you want to add the contacts to existing contacts on your SIM card, or select **Replace all contacts** if you want to replace the existing contacts on your SIM card.
- ! When you export contacts to a SIM card, not all information may get exported. This is due to memory limitations on SIM cards.







Messaging

Using text and multimedia messaging

You can send and receive text messages from your device using SMS (Short Message Service). If your subscription includes MMS (Multimedia Messaging Service), you can also send and receive messages that contain media files, for example, pictures and videos. The number of characters you can send in a single text message varies depending on the operator and the language you use. If you exceed the character limit, then all your single messages are linked together and sent as one message. You are charged for each single text message you send. When you view your messages, they appear as conversations, which means that all messages to and from a particular person are grouped together.



- ! To send multimedia messages, you need the correct MMS settings on your device. See *Internet and messaging settings*.


To create and send a message

- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap .
- 3 Tap , then select the desired recipients from the Contacts list. If the recipient is not listed as a contact, enter the contact's number manually and tap .
- 4 When you are finished adding recipients, tap **Done**.
- 5 Tap **Write message** and enter your message text.
- 6 If you want to add a media file, tap  and select an option.
- 7 To send the message, tap **Send**.

- 💡 If you exit a message before sending, it gets saved as a draft. The conversation gets tagged with the word **Draft**.

To read a received message





- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap the desired conversation.
- 3 If the message is not yet downloaded, tap and hold the message, then tap **Download message**.

- 💡 You can also open messages from the status bar when  appears there. Just drag down the bar and tap the message.

To reply to a message



- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap the conversation containing the message.
- 3 Enter your reply and tap **Send**.

To forward a message





- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap the conversation containing the message you want to forward.
- 3 Touch and hold the message you want to forward, then tap **Forward message**.
- 4 Tap , then select a recipient from the Contacts list. If the recipient is not listed as a contact, enter the contact's number manually and tap .
- 5 When you are finished adding recipients, tap **Done**.
- 6 Edit the message, if necessary, and tap **Send**.

- 💡 In step 4, you can also tap **To** and enter the recipient's phone number manually.




To delete a message

- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap the conversation containing the message you want to delete.
- 3 Touch and hold the message you want to delete, then tap **Delete message** > **Delete**.



To delete conversations

- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap , then tap **Delete conversations**.
- 3 Mark the checkboxes for the conversations that you want to delete, then tap  > **Delete**.





To save a sender's number

- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap  > **Save**.
- 3 Select an existing contact, or tap **Create new contact**.
- 4 Edit the contact information and tap **Done**.


To save a file contained in a message you receive

- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap the conversation you want to open.
- 3 If the message has not been downloaded yet, tap and hold the message, then tap **Download message**.
- 4 Touch and hold the file you want to save, then select the desired option.




To star a message

- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap the conversation you want to open.
- 3 In the message you want to star, tap .
- 4 To unstar a message, tap .

To view starred messages




- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap , then tap **Starred messages**.
- 3 All starred messages appear in a list.

To search for messages




- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap .
- 3 Enter your search keywords, then tap the confirm key.

Text and multimedia message options




To change your message notification settings

- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap , then tap **Settings**.
- 3 To set a notification sound, tap **Notification tone** and select an option.
- 4 For other notification settings, check or uncheck the relevant checkboxes.

To activate delivery reporting for outgoing messages

- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap , then tap **Settings** > **Notification settings**.
- 3 Mark the **Delivery report** checkbox.

To view messages saved on the SIM card

- 1 From your **Home screen**, tap , then find and tap .
- 2 Tap , then tap **Settings** > **SIM messages**.


Google Talk™

You can use the Google Talk™ instant messaging application on your device to chat with friends who also use this application.

To start Google Talk™

- 1 From your **Home screen**, tap .
- 2 Find and tap **Talk**.

To reply to an instant message with Google Talk™

- 1 When someone contacts you on Google Talk™,  appears in the status bar.
- 2 Drag the status bar downwards, then tap the message and begin to chat.

Email

Getting started with Email

You can handle several email accounts at the same time using the Email application, including corporate Microsoft Exchange Active Sync accounts. Emails you receive to your Gmail™ account can be accessed on your device from both the Email and the Gmail™ applications.

Using email accounts

To set up an email account on your device

- 1 From your **Home screen**, tap **⋮**.
 - 2 Find and tap **Email**.
 - 3 Follow the instructions that appear on the screen to complete the setup.
- 💡 For some email services, you may need to contact your email service provider for information on detailed settings for the email account.

To set an email account as your default account

- 1 From your **Home screen**, tap **⋮**.
 - 2 Find and tap **Email**.
 - 3 Press **⋮**, then tap **Settings**.
 - 4 Select the account you want to use as the default account for composing and sending emails.
 - 5 Mark the **Default account** checkbox. The inbox of the default account appears every time you open the email application.
- 💡 If you only have one email account, this account is automatically the default account.

To add an extra email account on your device

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Email**.
- 3 Tap **⋮**, then tap **Settings**.
- 4 Tap **Add account**.
- 5 Enter the email address and password, then tap **Next**. If the settings for the email account cannot be downloaded automatically, complete the setup manually.
- 6 When prompted, enter a name for your email account so that it is easily identifiable. The same name shows in the emails you send from this account.
- 7 When you are finished, tap **Next**.

To remove an email account from your device

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Email**.
- 3 Press **⋮**, then tap **Settings**.
- 4 Select the account you want to remove.
- 5 Tap **Delete account** > **OK**.

Gmail™ and other Google™ services

If you have a Google™ account, you can use the Gmail™ application on your device to read, write, and organize email messages. After you set up your Google™ account to work on your device, you can also chat to friends using the Google Talk™ application, synchronize your calendar application with your Google Calendar™, and download applications and games from Google Play™.

- ! The services and features described in this chapter may not be supported in all countries or regions, or by all networks and/or service providers in all areas.

To set up a Google™ account on your device

- 1 From your **Home screen**, tap **⋮**.
 - 2 Find and tap **Settings > Add account > Google**.
 - 3 Follow the registration wizard to create a Google™ account, or sign in if you already have an account.
- 💡 You can also sign in to or create a Google™ account from the setup guide the first time you start your device. Or you can go online and create an account at www.google.com/accounts.

To open the Gmail™ application

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Gmail**.

Using e-mail

To create and send an email message

- 1 From your **Home screen**, tap **⋮**, then find and tap **Email**.
- 2 If you are using several email accounts, tap **▼** at the top of the screen and select the account you want to send the message from, then tap **+**.
- 3 Tap **To** and start typing the recipient's address. Matches are displayed in a dynamic list. Tap the relevant match or continue typing the complete email address. To add more recipients, enter a comma (,) or a semicolon (;) and start typing another name. To delete a recipient, tap **✕**.
- 4 To select an email address saved in your contacts, tap **+**, then find and mark the checkbox next to a recipient field. To add more than one recipient, mark the checkboxes for the desired recipients. When you are finished, tap **Done**.
- 5 Tap **Subject** and enter the email subject.
- 6 To attach a file, tap **📎**. Select the type of file, then tap the file you want to attach from the list that appears.
- 7 In the message area, enter your message text.
- 8 To set a priority level, press **⏏**, then tap **Set priority** and select an option.
- 9 To send the email, tap **✉**.

To receive email messages

- 1 From your **Home screen**, tap **⋮**.
 - 2 Find and tap **Email**.
 - 3 If you are using several email accounts, tap **▼** at the top of the screen and select the account that you want to check. If you want to check all your email accounts at once, tap **Combined view**.
 - 4 To download new messages, tap **🔄**.
- 💡 If you have set up a corporate email account, you can set the check frequency to **Automatic (Push)**.


To read your email messages

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Email**.
- 3 If you are using several email accounts, tap **▼** at the top of the screen and select the account you want to check. If you want to check all your email accounts at once, tap **Combined view**.
- 4 In the email inbox, scroll up or down and tap the email you want to read.



To view an email message attachment

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Email**.
- 3 Find and tap the email message containing the attachment that you want to view. Emails with attachments are indicated by **📎**.
- 4 After the email message opens, tap **📎**, then tap **View**.




To save a sender's email address to your contacts

- 1 From your **Home screen**, tap .
- 2 Find and tap **Email**.
- 3 Find and tap a message in your email inbox.
- 4 Tap the name of the sender, then tap **OK**.
- 5 Select an existing contact, or tap **Create new contact**.
- 6 Edit the contact information, if desired, then tap **Done**.



To reply to an email message

- 1 From your **Home screen**, tap .
- 2 Find and tap **Email**.
- 3 In your email inbox, find and tap the message you want to reply to, then tap **Reply** or **Reply all**.
- 4 Enter your reply, then tap .





To forward an email message

- 1 From your **Home screen**, tap .
- 2 Find and tap **Email**.
- 3 In your email inbox, find and tap the message you want to forward, then tap **Forward**.
- 4 Tap **To** and enter the recipient's email address manually, or tap + to select a recipient from your contacts.
- 5 Enter your message text, then tap .

To delete an email message



- 1 From your **Home screen**, tap .
- 2 Find and tap **Email**.
- 3 In your email inbox, find and tap the message you want to delete, then tap .
- 4 Tap **Delete**.

To search for emails






- 1 From your **Home screen**, tap , then find and tap **Email**.
- 2 Tap  at the top of the screen and select the account that you want to search.
- 3 Tap .
- 4 Enter your search text, then tap  on your keyboard.
- 5 The search result appears in a list sorted by date. Tap the email that you want to open.

-  To change search options, tap  and select a different option.

To change the inbox check frequency

- 1 From your **Home screen**, tap .
- 2 Find and tap **Email**.
- 3 Press , then tap **Settings**.
- 4 Select the account for which you want to change the inbox check frequency.
- 5 Tap **Inbox check frequency** and select an option.

To set an Out of Office auto-reply in an Exchange Active Sync account

- 1 From your **Home screen**, tap , then find and tap **Email**.
- 2 Press , then tap **Settings**.
- 3 Select the EAS (Exchange Active Sync) account for which you want to set an Out of Office auto-reply.
- 4 Tap **Out of office**.
- 5 Tap  beside **Out of office** so that  changes to .
- 6 If needed, mark the **Set time range** checkbox and set the time range for the auto reply.
- 7 Enter your Out of Office message in the body text field.
- 8 Tap **OK** to confirm.

Socialife™

Using the Socialife™ application

Use the Socialife™ application from Sony to get your favorite news, videos and social networking feeds in one place. The Socialife™ home screen gives a clear overview of friends' Facebook and Twitter activity, plus news feeds that you have subscribed to. It color codes and sizes articles for easy reading, adding photos and cropping images of your friends' faces to illustrate each story.

- ! The Socialife™ application is not available in all markets.

To open the Socialife™ application

- 1 From your **Home screen**, tap .
- 2 Find and tap .

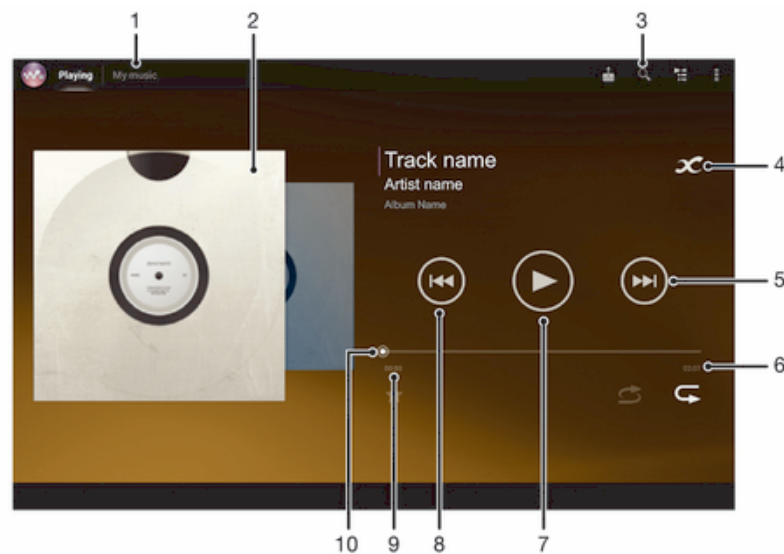
"WALKMAN" application

About the "WALKMAN" application

Get the most out of your "WALKMAN" application. Listen to and organize music and audio books that you have transferred to your device from a computer, or purchased and downloaded from online stores.

To make content easily available to the "WALKMAN" application, you can use the Media Go™ application. Media Go™ helps transfer music content between a computer and your device.

"WALKMAN" application overview



- 1 Browse the music
- 2 Album art (if available)
- 3 Search all tracks saved on your device
- 4 Tap the infinite button to find related information online and plug-ins on Google Play™
- 5 Go to the next track in the current play queue, or fast forward
- 6 Total time length of the track
- 7 Play/Pause button
- 8 Go to the previous track in the current play queue, or rewind
- 9 Elapsed time of current track
- 10 Progress indicator – drag the indicator or tap along the line to fast forward or rewind



Transferring media files to your device

Before using the "WALKMAN" application, it's a good idea to transfer all your favorite media content from a computer to your device and then play or view this content on your device. Media content can include music, photos, and videos. The easiest way to transfer files is with a USB cable. After you connect your device and the computer using the USB cable, you can use the file manager application on the computer or the Media Go™ application to transfer the files.



See *Connecting your device to a computer* on page 91 for more general information about connecting your device to a computer and transferring files.

Using the "WALKMAN" application

To play audio content

- 1 From your **Home screen**, tap , then find and tap .
 - 2 In **My music**, select a music category and browse to the track that you want to open.
 - 3 Tap a track to play it.
- ! You might not be able to play copyright-protected items. Please verify that you have necessary rights in material that you intend to share.


To change tracks

- When a track is playing, tap  or .
- When a track is playing, swipe the album art left or right.

To pause a track

- Tap .



To fast forward and rewind music

- Touch and hold  or .
- 💡 You can also drag the progress indicator marker right or left.


To adjust the audio volume

- Press the volume key.

To improve the sound quality using the equalizer

- 1 When the "WALKMAN" application is open, tap .
- 2 Tap **Settings > Sound enhancements**.
- 3 To adjust the sound manually, drag the frequency band buttons up or down. To adjust the sound automatically, tap  and select a style.



To turn on the surround sound feature

- 1 When the "WALKMAN" application is open, tap .
- 2 Tap **Settings > Sound enhancements > Surround sound (VPT)**.
- 3 Select a setting, then tap **OK** to confirm.


To view the current play queue

- While a track is playing in the "WALKMAN" application, tap .

To minimize the "WALKMAN" application

- When the "WALKMAN" application is playing, tap  to go to the previous screen, or tap  to go to the **Home screen**. The "WALKMAN" application stays playing in the background.

To open the "WALKMAN" application when it is playing in the background

- 1 While a track is playing in the background, tap the  to open the recently used applications window.
- 2 Tap the track title to open the "WALKMAN" application.

To delete a track

- 1 In **My music**, browse to the track that you want to delete.
- 2 Touch and hold the track title, then tap **Delete**.

- 💡 You can also delete albums this way.

To send a track

- 1 In **My music**, when browsing your tracks, touch and hold a track title.
- 2 Tap **Send**.
- 3 Select an application from the list, and follow the on-screen instructions.

💡 You can also send albums and playlists in the same way.


To "Like" a track on Facebook™

- 1 While the track is playing in the "WALKMAN" application, tap the album art.
- 2 Tap  to show that you "Like" the track on **Facebook™**. If desired, add a comment in the comments field.
- 3 Tap **Share** to send the track to **Facebook™**. If the track is received successfully, you will get a confirmation message from **Facebook™**.

Visualizer



The Visualizer adds visual effects to your music tracks as you play them. The effects for each track are based on the characteristics of the music. They change, for example, in response to changes in the music's loudness, rhythm, and frequency level. You can also change the background theme.

To turn on the Visualizer


- 1 In the "WALKMAN" application, tap .
- 2 Tap **Visualizer**.


💡 Tap  to switch to full screen view.

To change the background theme

- 1 In the "WALKMAN" application, tap .
- 2 Tap **Visualizer**.
- 3 Tap  > **Theme** and select a theme.

Getting more information about a track or artist

In the "WALKMAN" application, you can get more information about the artist you are listening to by tapping the infinite button .

You can tap the infinite button  in the "WALKMAN" application to get more information about a track's artist and related content. Such information includes:

- Music videos on YouTube™
- Artist info on Wikipedia
- Lyrics on Google
- Karaoke videos on YouTube™
- Extension searches on the web

! Accuracy of search results may vary.

To get more information about an artist or track

- When a track is playing in the "WALKMAN" application, tap .

Using My music to organize your tracks

My music gets an overview of all the tracks that are available from your device. In My music, you can manage your albums and playlists, create shortcuts, and arrange your music by mood and tempo.

Overview of My music



- 1 Browse audio by track
- 2 Go back to the current track
- 3 Browse by album
- 4 Browse your music by artist
- 5 Browse all playlists
- 6 Picture of the currently playing artist (if available)
- 7 Collect links to music and related content that you and friends have shared using online services
- 8 Categorize your music using SensMe™ channels
- 9 Browse your favorite playlists

To add a shortcut to a track

- 1 In **My music**, tap , , or , then browse to the track for which you want to create a shortcut.
- 2 Touch and hold the track title.
- 3 Tap **Add as shortcut**. The shortcut now appears in the My music main view.

To rearrange shortcuts

- In **My music**, touch and hold a shortcut until it magnifies, then drag the item to a new location.

To delete a shortcut

- In **My music**, touch and hold a shortcut until it magnifies, then drag the item to .
- ! You can't delete the following tabs: **Songs**, **Albums**, **Artists**, **Playlists**, **Music Unlimited**, **Friends' music** and **SensMe™ channels**.


To update your music with the latest information

- 1 In **My music**, tap .
 - 2 Tap **Download music info** > **Start**. Your device searches online and downloads the latest available album art and track information for your music.
- The SensMe™ channels application is activated when you download music information.

Categorizing your music using SensMe™ channels

The SensMe™ channels application helps you arrange your music by mood and tempo. SensMe™ groups all your tracks into several categories, or channels, so you can select music that matches your mood or suits the time of day.


To enable the SensMe™ channels application

- In **My music**, tap , then tap **Download music info**.
- ! This application requires a Wi-Fi® network connection.

Using the Friends' music function to share music

The Friends' music function collects links to music and music-related content that you and your friends have shared using Facebook™.

To manage music from your friends

- 1 In **My music**, tap **Friends' music > Recent**.
- 2 Tap an item to open it, then work on it as desired.
- 3 Tap  to show that you "Like" the track on **Facebook™**. If desired, add a comment in the comments field.




To view your shared music

- 1 In **My music**, tap **Friends' music > My shares**.
- 2 Scroll to an item you want to open, then tap it. All comments about the item, if any, are displayed.

Playing music in random order

You can play tracks in playlists in random order. A playlist can be, for example, a playlist you have created yourself, or an album.

To play tracks in random order

- 1 In **My music**, tap  and navigate to an album, or tap  and browse to a playlist.
- 2 Tap the album art, then tap  to turn on **Shuffle mode**.

To turn off shuffle mode

- When tracks are playing in random order, tap the album art > .

Managing playlists

In **My music**, you can create your own playlists from the music that is saved on your device.

In addition, you can install the Media Go™ application on a computer and use it to copy playlists from the computer to your device. For more information, see *Connecting your device to a computer* on page 91.


To create your own playlists

- 1 In **My music**, to add an artist, album or a track to a playlist, touch and hold the name of the artist or the title of the album or track.
- 2 In the menu that opens, tap **Add to playlist > Create new playlist**.
- 3 Enter a name for the playlist and tap **OK**.

To add tracks to a playlist

- 1 In **My music**, when browsing your tracks, touch and hold the name of the artist or the title of the album or track that you want to add.
- 2 Tap **Add to playlist**.
- 3 Tap the name of the playlist to which you want to add the artist, album or track. The artist, album or track is added to the playlist.

To play your own playlists

- 1 In **My music**, tap .
- 2 Under **Playlists**, tap a playlist.
- 3 Tap a track to play it.

To remove a track from a playlist

- 1 In a playlist, touch and hold the title of the track you want to delete.
- 2 Tap **Delete from playlist** from the list that appears.

To delete a playlist

- 1 In **My music**, then select **Playlists**.
- 2 Touch and hold the playlist you want to delete.
- 3 Tap **Delete**.
- 4 Tap **Delete** again to confirm.

! You cannot delete default playlists.

"WALKMAN" application widget

The "WALKMAN" application widget is a miniature application that gives you direct access to the "WALKMAN" application from your **Home screen**. You need to add this widget to your **Home screen** before you can use it.


To add the "WALKMAN" application widget to your Home screen

- 1 Tap an empty area on your **Home screen**, then tap **Widgets**.
- 2 Find and tap **WALKMAN**.

Protecting your hearing

Listening to the "WALKMAN" application or other media players at excessive volume or for a prolonged period of time can damage your hearing, even when the volume is at a moderate level. To alert you to such risks, a volume level warning appears when the volume is too high, and after the "WALKMAN" application is used for over 20 hours.

To turn off the volume level warning

- When  appears, tap **OK** to dismiss the warning.
- 💡 Every time you restart your device, the media volume is automatically set to a moderate level.

Music services


TrackID technology

Identifying music using TrackID technology



Use the TrackID™ music recognition service to identify a music track you hear playing in your surroundings. Just record a short sample of the song and you'll get artist, title and album info within seconds. You can purchase tracks identified by TrackID™ and you can view TrackID charts to see what TrackID users around the globe are searching for. For best results, use TrackID™ technology in a quiet area.

- ! The TrackID™ application and the TrackID™ service are not supported in all countries/regions, or by all networks and/or service providers in all areas.


To open the TrackID™ application

- 1 From your **Home screen**, tap .
 - 2 Find and tap **TrackID™**.
- 💡 You can also use the TrackID™ widget to open the **TrackID™** application.

To search for track information using TrackID™

- 1 When the **TrackID™** application is open, hold your device toward the music source.
 - 2 Tap . If the track is recognized by the TrackID™ service, the results appear on the screen.
- 💡 To return to the **TrackID™** start screen, press .


To view TrackID™ charts

- 1 When the **TrackID™** application is open, tap **Charts**. The first time you view a chart, it is set to your own region.
- 2 To see charts of the most popular searches in other regions, tap  > **Regions**.
- 3 Select a country or region.


Using TrackID™ technology results

Track information appears when the TrackID™ application recognizes a track. You can select to purchase the track or share it using email, or a social networking service. You can also get more information about the track's artist.

To buy a track using TrackID™ technology

- 1 When the **TrackID™** application is open, tap a track title.
 - 2 In the track information screen, tap .
 - 3 Follow the instructions on your device to complete your purchase.
- ! The track purchase feature may not be supported in all countries/regions, or by all networks and/or service providers in all areas.


To share a track

- 1 When the **TrackID™** application is open, tap a track title.
- 2 Tap , then select a sharing method.
- 3 Follow the instructions on your device to complete the procedure.

To view the artist information for a track

- 1 When the **TrackID™** application is open, tap a track title.
- 2 Tap **Artist Info**.

To delete a track from the track history

- 1 When the **TrackID™** application is open, tap **History**, then tap a track title.
- 2 In the track information screen, tap , then tap **Delete**.
- 3 Tap **Yes**.

Music Unlimited™

Using Music Unlimited™

Music Unlimited™ is a subscription-based service that offers access to millions of songs over a mobile network or Wi-Fi® connection. You can manage and edit your personal music library in the cloud from a variety of devices, or sync your playlists and music using a PC that runs the Windows® operating system. Go to www.sonyentertainmentnetwork.com for more information.

- ! Music Unlimited™ might not be available in all countries or regions.

To open Music Unlimited™

- 1 From your **Home screen**, tap .
- 2 Find and tap .

About the PlayNow™ service

You can use the PlayNow™ service to download applications, music, games, ringtones, and wallpapers. The PlayNow™ service offers both free and non-free downloads. Note that payment options for non-free applications may vary per country.



- 💡 The PlayNow™ service is not available in all countries.

Before you download content

Before you download, make sure that you have an Internet connection. Also, you may need to have a memory card inserted in your device to download content.

- ! When you download content to your device, you might be charged for the amount of data transferred. Contact your operator for information about data transfer rates in your country.


To start PlayNow™

- 1 From the **Home screen**, tap .
- 2 Find and tap .

Downloading from the PlayNow™ service

Download a range of content from the PlayNow™ service direct to your device. Choose from a variety of applications, games, music, ringtones, and other content. Note that payment options for non-free applications may vary per country.

To download a PlayNow item to your device

- 1 From your **Home screen**, tap .
- 2 Find and tap **PlayNow™**.
- 3 Find an item you want to download by browsing categories, or by using the search function.
- 4 Tap the item to view its details.
- 5 Click “Buy now!” to start the purchase process. After your purchase has been validated, you can start to download your content.


FM radio

About the FM radio

The FM radio in your device works like any FM radio. For example, you can browse and listen to FM radio stations and save them as favorites. You must connect a wired headset or headphones to your device before you can use the radio. This is because the headset or headphones act as an antenna. After one of these devices is connected, you can then switch the radio sound to the speaker, if desired.

- 💡 When you open the FM radio, available channels appear automatically. If a channel has RDS information, it appears a few seconds after you start listening to the channel.

To start the FM radio

- 1 Connect a headset or a set of headphones to your device.
- 2 From your **Home screen**, tap **⋮**.
- 3 Find and tap **FM radio** . The available channels appear as you scroll through the frequency band.

- ! When you start the FM radio, available channels appear automatically. If a channel has RDS information, it appears a few seconds after you start listening to the channel.

To move between radio channels

- Flick your finger left or right along the frequency band.
- Drag the tuning dial right or left.

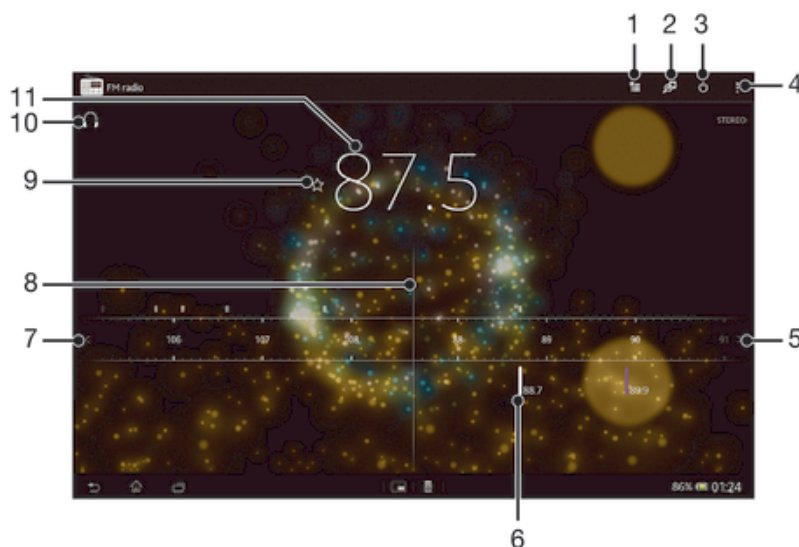
To select the radio region

- 1 When the radio is open, press **⋮**.
- 2 Tap **Set radio region**.
- 3 Select an option.

To adjust the visualizer

- 1 When the radio is open, tap **⋮**.
- 2 Tap **Visualizer**.
- 3 Select an option.

FM radio overview



- 1 Favorites list
- 2 Launch the TrackID™ music recognition application
- 3 Radio on/off button
- 4 View menu options
- 5 Move up the frequency band to search for a channel
- 6 A saved favorite channel
- 7 Move down the frequency band to search for a channel
- 8 Tuning dial
- 9 Save or remove a channel as a favorite
- 10 Tuned frequency
- 11 Switch between speaker or headphone mode

Using your favorite radio channels

You can save the radio channels you most frequently listen to as favorites. By using favorites you can quickly return to a radio channel.

To save a channel as a favorite

- 1 When the radio is open, navigate to the channel that you want to save as a favorite.
- 2 Tap ★.
- 3 Enter a name and select a color for the channel, then press **Save**.

To remove a channel as a favorite

- 1 When the radio is open, navigate to the channel that you want to remove.
- 2 Tap ☆, then tap **Delete**.

Making a new search for radio channels

If you have moved to a new location or the reception has improved in your current location, you can start a new scan for radio channels.

- ! Any favorites you have saved are not affected by a new scan.

To start a new search for radio channels

- 1 When the radio is open, press ⏸.
- 2 Tap **Search for channels**. The radio scans the whole frequency band, and all available channels are displayed.

Sound settings

Switching the radio sound between devices

You can listen to the radio through a wired headset or through wired headphones. Once either device is connected, you can switch the sound to the speaker, if desired.



To switch the radio sound to the speaker

- 1 When the radio is open, press ⏸.
 - 2 Tap **Play in speaker**.
- 💡 To switch the sound back to the wired headset or headphones, press ⏸ and tap **Play in headphones**.

Switching between mono and stereo sound mode

You can listen to your FM radio in either mono or stereo mode. In some situations, switching to mono mode can reduce noise and improve sound quality.



To switch between mono and stereo sound mode

- 1 When the radio is open, press .
- 2 Tap **Enable stereo sound**.
- 3 To listen to the radio in mono sound mode again, press  and tap **Force mono sound**.

Identifying radio tracks using TrackID™

Use **TrackID™** technology to identify music tracks as they play on your device's FM radio.

To identify a song on the FM radio using TrackID™

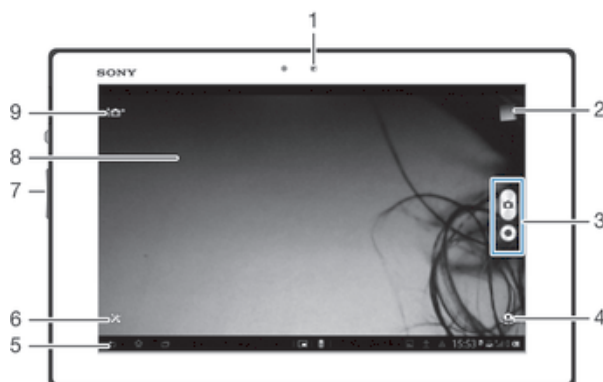
- 1 While the song is playing on your device's FM radio, tap .
 - 2 A progress indicator appears while the TrackID™ application samples the song. If successful, you are presented with a track result, or a list of possible tracks.
 - 3 Press  to return the FM Radio.
- ! The TrackID™ application and the TrackID™ service are not supported in all countries/regions, or by all networks and/or service providers in all areas.

Camera

About the camera



The camera in your device is equipped with the highly sensitive Exmor R sensor, which helps you capture sharp photos and videos even in low lighting conditions. From the camera, you can, for example, send your photos and videos to friends as messages, or upload them to a web service. Your device also has a front camera, which is useful for self-portraits.

Camera controls overview



- 1 Front camera
- 2 View photos and videos
- 3 Take photos or record video clips
- 4 Switch between front and main camera
- 5 Go back a step or exit the camera
- 6 Display all settings
- 7 Zoom in or out
- 8 Main camera screen
- 9 Camera setting icons

To open the camera

- From your Home screen, tap , then find and tap .


To close the camera

- Press  from the main camera screen.


Using the still camera

There are three ways to take photos with the still camera. You can press the camera key, tap the on-screen camera button, or touch a spot on the screen.


To take a photo by touching the screen

- 1 Activate the camera.
- 2 To display all settings, tap .
- 3 Tap **Touch capture** and select **On** if it is not already selected.
- 4 Point the camera toward the subject.
- 5 To activate auto focus, touch and hold a spot on the screen. When the focus frame turns blue, lift your finger to take the photo.

To take a photo by tapping the on-screen camera button

- 1 Activate the camera.
- 2 Point the camera toward the subject.
- 3 Tap the on-screen camera button . The photo is taken as soon as you release your finger.


To take a self-portrait using the front camera

- 1 Activate the camera.
- 2 Tap the icon on the top left of the screen, then find and select **Front camera**.
- 3 To take the photo, tap the on-screen camera button . The photo is taken as soon as you release your finger.



To use the zoom function

- When the camera is open, press the volume key up or down to zoom in or out.

To view your photos and videos

- 1 Open the camera, then tap a thumbnail at the top right of the screen to open a photo or video.
- 2 Flick left or right to view your photos and videos. Videos are identified by .


To delete a photo

- 1 Open the photo that you want to delete.
- 2 Tap an empty area of the screen to make  appear.
- 3 Tap .
- 4 Tap **Delete** to confirm.

Face detection

You can use face detection to bring an off-center face into focus. The camera automatically detects up to five faces, indicated by white frames. A yellow frame shows which face has been selected for focus. Focus is set to the face closest to the camera. You can also tap one of the frames to select which face should be in focus.

To turn on face detection

- 1 Activate the camera.
- 2 Tap the icon on the top left of the screen, then select **Normal**.
- 3 To display all settings, tap .
- 4 Tap **Focus mode** > **Face detection**.


To take a photo using face detection

- 1 When the camera is open and **Face detection** turned on, point the camera at your subject. Up to five faces can be detected, and each detected face is framed.
- 2 Tap the frame you want to select for focus. Do not tap if you want the camera to select focus automatically.
- 3 A yellow frame shows which face is in focus. Tap the screen to take the photo.

Using Smile Shutter™ to capture smiling faces

Use Smile Shutter™ technology to photograph a face just as it smiles. The camera detects up to five faces and selects one face for smile detection and auto focus. When the selected face smiles, the camera automatically takes a photo.

To turn on Smile Shutter™

- 1 Activate the camera.
- 2 To display all settings, tap .
- 3 Tap **Smile Shutter** and select a smile level.

To take a photo using Smile Shutter™

- 1 When the camera is open and Smile Shutter is turned on, point the camera at your subject. The camera selects which face to focus on.
- 2 The face selected appears inside a green frame and the photo is taken automatically.
- 3 If no smile is detected, tap the screen to take the photo manually.

Adding the geographical position to your photos

Turn on geotagging to add the approximate geographical location (a geotag) to photos when you take them. The geographical location is determined either by wireless networks (mobile or Wi-Fi® networks) or GPS technology.

When 📍 appears on the camera screen, geotagging is turned on but the geographical position has not been found. When 📍 appears, geotagging is turned on and the geographical location is available, so your photo can get geotagged. When neither of these two symbols appear, geotagging is turned off.

To turn on geotagging

- 1 Activate the camera.
- 2 Tap ⚙️, then tap **Geotagging > On**.
- 3 Tap **OK** to agree to enable GPS and/or wireless networks.
- 4 Check the options that you want to select under **Location services**.
- 5 After you confirm your settings, press ↶ to return to the camera screen.
- 6 If 📍 appears on the camera screen, your location is available and your photo can get geotagged. If not, check your GPS and/or wireless network connection.

Using still camera settings

To adjust the still camera settings

- 1 Activate the camera.
- 2 To display all settings, tap ⚙️.
- 3 Select the setting that you want to adjust, then edit as desired.

To customize the still camera settings panel

- 1 When the camera is open, tap ⚙️ to display all settings.
 - 2 Touch and hold the setting you want to move and drag it to the desired position.
- 💡 If you drag the setting outside of the settings panel, the change is canceled.

Still camera settings overview



Superior auto

Optimize your settings to suit any scene.



Burst

Use the Burst speed shooting mode to capture several photos in quick succession by keeping your finger pressed on the shutter button. You can choose between three burst speeds, which come with different resolution levels, that is, different picture sizes.



Normal



Front camera

Select the front camera if you want to take self-portrait photos.



Picture effect

Apply effects to photos.



Scene selection

Use a preprogrammed scene type to quickly set the camera for common situations.









Sweep Panorama

Use this setting to take wide-angle, panoramic photos. Just tap the screen and move the camera steadily from one side to the other.

Resolution




Choose between several picture sizes and aspect ratios before taking a photo. A photo with a higher resolution requires more memory.

-  **3264×2448(4:3)**
8 megapixel picture size with 4:3 aspect ratio. Suitable for photos that you want to view on non-widescreen displays or print in high resolution.
-  **3104×2328(4:3)**
7 megapixel picture size with 4:3 aspect ratio. Suitable for photos that you want to view on non-widescreen displays or print in high resolution.
-  **3104×1746(16:9)**
5 megapixel picture size with 4:3 aspect ratio. Suitable for photos that you want to view on non-widescreen displays or print in high resolution.
-  **1632×1224(4:3)**
2 megapixel picture size with 4:3 aspect ratio. Suitable for photos that you want to view on non-widescreen displays.
-  **1920×1080(16:9)**
2 megapixel picture size with 16:9 aspect ratio. Suitable for photos that you want to view on widescreen displays.
-  **640×480(4:3)**
VGA format with 4:3 aspect ratio.

- ! 7MP is the maximum resolution available when photos are taken using **Superior auto mode**, when HDR is turned on in **Normal mode**, or when **Scenes** is selected in **Backlight correction HDR) mode**.
- ! The 8MP resolution is only available when **Normal capturing mode** is selected and HDR is turned off, and when **Scenes mode** is selected (except in **Backlight correction HDR mode**).

Self-timer.

With the self-timer you can take a photo without holding the device. Use this function to take self-portraits, or group photos where everyone can be in the photo. You can also use the self-timer to avoid shaking the camera when taking photos.










-  **On (10 sec.)**
Set a 10-second delay from when you tap the camera screen until the photo is taken.
-  **On (2 sec.)**
Set a 2-second delay from when you tap the camera screen until the photo is taken.
-  **Off**
The photo is taken as soon as you tap the camera screen.

Smile Shutter™

Use the smile shutter function to determine what kind of smile the camera reacts to before taking a photo.

Quick launch

Use quick launch settings to launch the camera from the lock screen.

-  **Launch and capture**
After you drag  inward, the still camera is launched from sleep mode and a photo is captured.
-  **Launch only (still camera)**
After you drag  inward, the still camera is launched from sleep mode.
-  **Launch and record video**
After you drag  inward, the video camera is launched from sleep mode and starts recording.
-  **Launch only (video camera)**
After you drag  inward, the video camera is launched from sleep mode.
-  **Off**

Focus mode

The focus function controls which part of a photo should be sharp. When continuous autofocus is on, the camera keeps adjusting focus so that the area within the yellow focus frame stays sharp.



Single autofocus

The camera automatically focuses on the selected subject. Continuous autofocus is on. Touch and hold the camera screen until the yellow focus frame turns blue, indicating that the focus is set. The photo is taken when you release your finger.



Multi autofocus

The focus is automatically set on several areas of the image. Touch and hold the camera screen until the yellow focus frame turns blue, indicating that the focus is set. The photo is taken when you release your finger. Continuous autofocus is off.



Face detection

The camera automatically detects up to five human faces, indicated by frames on the screen. The camera automatically focuses on the nearest face. You can also select which face to focus on by tapping it on the screen. When you tap the camera screen, a blue frame shows which face is selected and in focus. Face detection cannot be used for all scene types. Continuous autofocus is on.



Touch focus

Touch a specific area on the camera screen to set the area of focus. Continuous autofocus is off. Touch and hold the camera screen until the yellow focus frame turns blue, indicating that the focus is set. The photo is taken when you release your finger.



Object tracking

When you select an object by touching it in the viewfinder, the camera tracks it for you.

! This setting is only available in **Normal** capturing mode.

Exposure value



Determine the amount of light in the photo you want to take. A higher value indicates an increased amount of light.

! This setting is only available in **Normal** capturing mode.

HDR

Use the HDR (High Dynamic Range) setting to take a photo against strong back light or in conditions where the contrast is sharp. HDR compensates for the loss of detail and produces a picture that is representative of both dark and bright areas.

! This setting is only available in **Normal** capturing mode.

White balance

The white balance setting adjusts the color balance according to the lighting conditions.



Auto

Adjusts the color balance automatically to suit the lighting conditions.



Incandescent

Adjusts the color balance for warm lighting conditions, such as under light bulbs.



Fluorescent

Adjusts the color balance for fluorescent lighting.



Daylight

Adjusts the color balance for sunny outdoor conditions.









Cloudy

Adjusts the color balance for a cloudy sky.

! This setting is only available in **Normal** capturing mode.

ISO




You can reduce image blurring caused by dark conditions or moving subjects by increasing the ISO sensitivity.

	Auto Sets the ISO sensitivity automatically.
	100 Sets the ISO sensitivity to 100.
	200 Sets the ISO sensitivity to 200.
	400 Sets the ISO sensitivity to 400.
	800 Sets the ISO sensitivity to 800.
	1600 Sets the ISO sensitivity to 1600.

! This setting is only available in **Normal** capturing mode.

Metering

This function automatically determines a well-balanced exposure by measuring the amount of light striking the image you want to capture.

-  **Center**
Adjusts the exposure to the center of the image.
-  **Average**
Calculates the exposure based on the amount of light striking the whole image.
-  **Spot**
Adjusts the exposure in a very small part of image you want to capture.





! This setting is only available in **Normal** capturing mode.

Image stabilizer

When taking a photo, it can be difficult to hold the device steady. The stabilizer helps you by compensating for small movements of the hand.



Geotagging

Tag photos with details of where you took them.

-  **On**
When geotagging is turned on, the approximate geographical location is added to photos when you take them. To use geotagging, you must enable location features from the **Settings** menu. For geotags to be added to a photo, the location must be determined before you take the photo. Your location is determined when  appears on the camera screen. When your device is searching for your position,  appears.
-  **Off**
When geotagging is turned off, you cannot view the location where you took a photo.

Preview

You can choose to preview the photo just after you have taken or the video you have recorded.

-  **Unlimited**
The preview of the photo or video appears after you have taken.
-  **5 seconds**
The preview of the photo or video appears for 5 seconds after you have taken.

 **3 seconds**
The preview of the photo or video appears for 3 seconds after you have taken.

 **Off**
The photo or video has been saved after you have taken, no preview appears.

! This setting is only available in **Normal** capturing mode.

Touch capture

Identify a particular focus area by touching the camera screen with your finger. The photo is taken as soon as you release your finger. This setting is only available when focus mode is set to touch focus.

 **On**


 **Off**


Shutter sound

Choose whether to turn on or turn off the shutter sound when you record a video.

Data storage



You can choose to save your data either to a removable SD card or to your device's internal storage.

 **Internal storage**
Photos or videos are saved on the device memory.





 **SD card**
Photos or videos are saved on the SD card.

Using the video camera



To record a video by tapping the screen

- 1 Activate the camera.
 - 2 Point the camera toward the subject.
 - 3 Tap  to start recording.
 - 4 Tap  to stop recording.
- 💡 Shoot your videos in landscape orientation to get the best results.

To play recorded videos

- 1 Activate the camera.
- 2 Tap the thumbnails at the top right of the screen.
- 3 Flick left or right to browse all photo and video files. Videos are identified by .
- 4 Tap  to play a video.
- 5 To stop playing the video, tap  or .

To delete a recorded video

- 1 Browse to the video that you want to delete.
- 2 Tap an empty area of the screen to make  appear.
- 3 Tap .
- 4 Tap **Delete** to confirm.

Using the video camera settings

To adjust the video camera settings

- 1 Activate the camera.
- 2 Tap one of the settings icons on the screen.
- 3 To display all settings, tap ✕.
- 4 Select the setting that you want to adjust, then make your changes.









To customize the video camera settings panel

- 1 When the video camera is open, tap ✕ to display all settings.
 - 2 Touch and hold the setting that you want to move, then drag it to the desired position.
- 💡 If you drag the setting outside of the settings panel, the change is canceled.

Video camera settings overview





Scenes

The Scenes feature helps you to quickly set up the camera for common situations using preprogrammed scenes. The camera determines a number of settings for you to fit the selected scene, ensuring the best possible video.

-  **Off**
The Scenes feature is off and you can shoot videos manually.
-  **Soft snap**
Use for shooting videos against soft backgrounds.
-  **Landscape**
Use for videos of landscapes. The camera focuses on distant objects.
-  **Night**
When turned on, light sensitivity is increased. Use in poorly lit environments. Videos of fast-moving objects may get blurred. Hold your hand steady, or use a support. Turn off night mode when lighting conditions are good, to improve the video quality.
-  **Beach**
Use in bright environments to avoid overexposed videos.
-  **Snow**
Use in bright environments to avoid overexposed videos.
-  **Sports**
Use for videos of fast-moving objects. Short exposure time minimizes motion blurring.
-  **Party**
Use for indoor videos in poorly lit environments. This scene picks up indoor background lighting or candlelight. Videos of fast-moving objects may get blurred. Hold your hand steady, or use a support.




Video resolution

Adjust the video resolution for different formats.

-  **Full HD**
Full HD (Full High Definition) format with 16:9 aspect ratio. 1920×1080 pixels.
-  **HD 720p**
HD (High Definition) format with 16:9 aspect ratio. 1280×720 pixels.
-  **VGA**
VGA format with 4:3 aspect ratio. 640×480 pixels.
-  **MMS**
Record videos suitable for sending in multimedia messages. The recording time of this video format is limited to fit in a multimedia message.










Self-timer

With the self-timer you can record a video without holding the device. Use it to record group videos where everyone can be in the video. You can also use the self-timer to avoid shaking the camera when recording videos.

-  **On (10 sec.)**
Set a 10-second delay from when you tap the camera screen until the video begins to record.
-  **On (2 sec.)**
Set a 2-second delay from when you tap the camera screen until the video begins to record.
-  **Off**
The video begins to record as soon as you tap the camera screen.




Quick launch

Use quick launch settings to launch the camera from the lock screen.


-  **Launch and capture**
After you drag  inward, the still camera is launched from sleep mode and a photo is captured.
-  **Launch only (still camera)**
After you drag  inward, the still camera is launched from sleep mode.
-  **Launch and record video**
After you drag  inward, the video camera is launched from sleep mode and starts recording.
-  **Launch only (video camera)**
After you drag  inward, the video camera is launched from sleep mode.
-  **Off**

Focus mode

The focus setting controls which part of a video should be sharp. When continuous autofocus is on, the camera keeps adjusting focus so that the area within the white focus frame stays sharp.

-  **Single autofocus**
The camera automatically focuses on the selected subject. Continuous autofocus is on.
-  **Face detection**
The camera automatically detects up to five human faces, indicated by frames on the screen. The camera automatically focuses on the nearest face. You can also select which face to focus on by tapping it on the screen. When you tap the camera screen, a yellow frame shows which face is selected and in focus. Face detection cannot be used for all scene types. Continuous autofocus is on.
-  **Object tracking**
When you select an object by touching it in the viewfinder, the camera tracks it for you.

Exposure value



-  This setting allows you to determine the amount of light in the image you capture. A higher value indicates an increased amount of light.

Video HDR

Use the video HDR (High-Dynamic Range) setting to record a video against strong back light or in conditions where the contrast is sharp. Video HDR compensates for the loss of detail and produces a picture that is representative of both dark and bright areas.

White balance

The white balance setting adjusts the color balance according to the lighting conditions.

-  **Auto**
Adjust the color balance automatically to the lighting conditions.
-  **Incandescent**

Adjusts the color balance for warm lighting conditions, such as under light bulbs.



Fluorescent

Adjust the color balance for fluorescent lighting.



Daylight

Adjust the color balance for sunny outdoor conditions.



Cloudy

Adjust the color balance for a cloudy sky.

Metering

This function automatically determines a well-balanced exposure by measuring the amount of light striking the image that you want to capture.



Center

Adjust the exposure to the center of the image.



Average

Calculate the exposure based on the amount of light striking the whole image.



Spot

Adjust the exposure in a very small part of the image that you want to capture.

Image stabilizer



When recording a video, it can be difficult to hold the device steady. The stabilizer helps you by compensating for small movements of the hand.

Geotagging

Tag videos with details of where you took them.



On

When geotagging is turned on, the approximate geographical location is added to videos when you take them. To use geotagging, you must enable location features from the **Settings** menu. For geotags to be added to a video, the location must be determined before you take the video. Your location is determined when  appears on the camera screen. When your device is searching for your position,  appears.



Off

When geotagging is turned off, you cannot view the location where you took a video.

Microphone

Select whether to pick up the surrounding sound when recording videos.

Touch capture

Identify a particular focus area by touching the camera screen with your finger. The photo is taken as soon as you release your finger. This setting is only available when focus mode is set to touch focus.



On



Off

Shutter sound

Choose whether to turn on or turn off the shutter sound when you record a video.

Data storage

You can choose to save your data either to a removable SD card or to your device's internal storage.



Internal storage

Photos or videos are saved on the device memory.

**SD card**

Photos or videos are saved on the SD card.

Album

About Album

Use Album to view photos and play videos that you've taken with your camera, or to view similar content that you've saved to your device. You can add geotags to your photos and videos, and then view them on a world map. In Album, you can also view photos and videos that you've uploaded to an online service, for example, to a Picasa™ web album, or to Facebook™.

From Album, you can share your favorite photos and videos with friends via Bluetooth™ wireless technology, email, messaging, and various online services. You can also perform basic editing tasks on photos, and set them as wallpaper or contact pictures. For more information, see *Connecting your device to a computer* on page 91.

Album tab overview

The following tabs are available in Album:

- **Pictures** – view all photos and videos saved on your device.
- **My albums** – view your online albums, and your geotagged photos and video clips on a world map.

To open Album

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Album**.

Mobile BRAVIA® Engine

Sony's Mobile BRAVIA® Engine technology improves the viewing quality of photos and videos after you take them, giving you clearer, sharper, and more natural images. Mobile BRAVIA Engine is turned on by default, but you can turn it off if you want to reduce battery consumption.

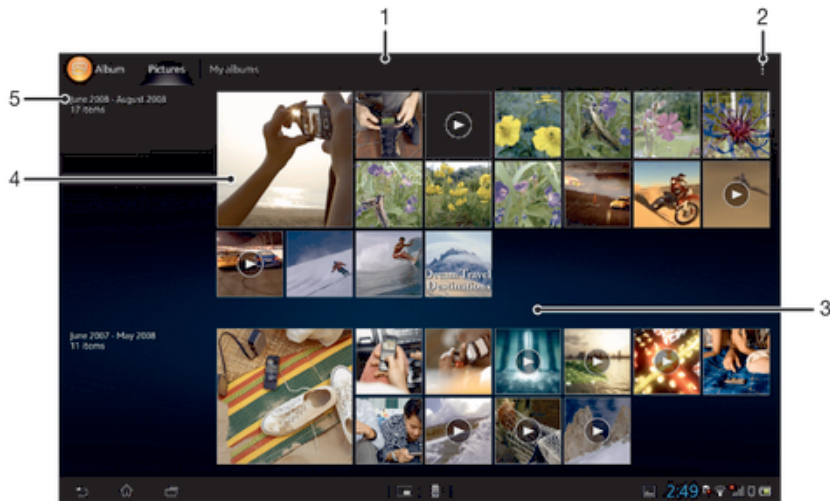
To turn on Mobile BRAVIA® Engine

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Display**.
- 3 Mark the **Mobile BRAVIA Engine 2** checkbox if it is not marked.

Viewing photos and videos in the Pictures tab

In the **Pictures** tab in Album, you can view your photos and videos in thumbnails in a grid view.

Overview of Pictures tab



- 1 Grid view of photos and videos.
- 2 View menu options.
- 3 Scroll up or down to view content.
- 4 Tap a photo or video to view it.
- 5 The date and number of items in the group below.

To view photos and videos in grid view

- 1 From your **Home screen**, tap **≡**.
- 2 Find and tap **Album**. All photos and videos are displayed in a chronologically ordered grid. Videos are indicated by **▶**.
- 3 Tap a photo or video to view it.
- 4 Flick left to view the next photo or video. Flick right to view the previous photo or video.

To change the size of the thumbnails in Album

- When viewing thumbnails of photos and videos in Album, spread two fingers apart to zoom in, or pinch two fingers together to zoom out.

To work with batches of photos or videos in Album

- 1 When viewing thumbnails of photos and videos in Album, tap **≡**, then tap **Select items**.
- 2 Tap the items you want to work with. Selected items are indicated by a blue frame.
- 3 Use the tools in the toolbar at the top of the screen to work with your selected items.

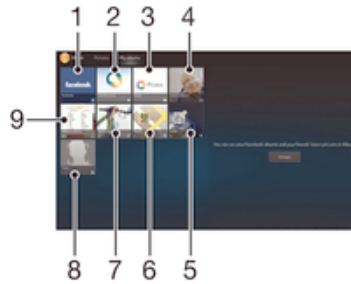
- 💡 To activate selection mode, you can also touch and hold an item until its frame turns blue. Then you can tap other items to select them.

Viewing photos and videos in the My albums tab

The following tiles are available in My albums:

- **Camera albums** – view all photos and videos taken with your device's camera.
- **Internal memory** – view all photos and videos saved to your device's internal storage.
- **My SD card** – view all photos and videos saved to a removable memory card in your device.

Overview of My albums tab



- 1 View photos and videos on Facebook™.
- 2 View photos and videos using the PlayMemories online service.
- 3 View photos and videos in Picasa™.
- 4 View all photos and videos taken with your device's camera.
- 5 View your photos in globe mode.
- 6 View your photos on a map.
- 7 View all photos and videos saved to the removable memory card.
- 8 View all photos with faces.
- 9 View all photos and videos saved to your device's internal storage.

To view content in list view in the Camera albums tile

- 1 From your **Home screen**, tap **☰**.
- 2 Find and tap **Album > My albums > Camera albums**.
- 3 Tap a folder that you want to open. The folder's content appears in a chronologically ordered grid. Videos are indicated by **▶**.
- 4 Tap a photo or video to view it.
- 5 Flick left to view the next photo or video. Flick right to view the previous photo or video.

To view content in list view in the Internal memory tile

- 1 From your **Home screen**, tap **☰**.
- 2 Find and tap **Album > My albums > Internal memory**.
- 3 Tap a folder that you want to open. The folder's content appears in a chronologically ordered grid. Videos are indicated by **▶**.
- 4 Tap a photo or video to view it.
- 5 Flick left to view the next photo or video. Flick right to view the previous photo or video.

To view content in list view in the My SD card tile

- 1 From your **Home screen**, tap **☰**.
- 2 Find and tap **Album > My albums > My SD card**.
- 3 Tap a folder that you want to open. The folder's content appears in a chronologically ordered grid. Videos are indicated by **▶**.
- 4 Tap a photo or video to view it.
- 5 Flick left to view the next photo or video. Flick right to view the previous photo or video.

Working with photos in Album


You can edit photos in Album. For example, you can crop photos, associate them with contacts, or use them as wallpaper.

To zoom a photo




- When you are viewing a photo, double-tap the screen to zoom in. Double-tap again to zoom out.

- When you are viewing a photo, spread two fingers apart to zoom in, or pinch two fingers together to zoom out.

To watch a slideshow of your photos


- 1 When you are viewing a photo, tap the screen to display the toolbars, then tap  > **Slideshow** to start playing all the photos in an album.
- 2 Tap a photo to end the slideshow.

To watch a slideshow of your photos with music



- 1 When you are viewing a photo, tap the screen to display the toolbars, then tap  > **SensMe™ slideshow**.
- 2 Select the music and theme that you want to use for the slideshow, then tap . The Album application analyses your photos and uses SensMe™ music data to play a slideshow.
- 3 To pause playing, tap the screen to display the controls, then tap .

- 💡 For more information about SensMe™, see *Categorizing your music using SensMe™ channels* on page 52.


To rotate a photo

- 1 When you are viewing a photo, tap the screen to display the toolbars, then tap .
- 2 Select **Rotate left** or **Rotate right**. The photo is saved in the new orientation.


To crop a photo

- 1 When you are viewing a photo, tap the screen to display the toolbars, then tap  > **Edit photo** >  > **Crop**.
- 2 To adjust the crop frame, touch and hold the edge of the crop frame. When the squares at the edges disappear, drag inward or outward to resize the frame.
- 3 To resize all sides of the crop frame at the same time, touch and hold one of the four corners to make the squares at the edges disappear, then drag the corner accordingly.
- 4 To move the crop frame to another area of the photo, touch and hold inside the frame, then drag it to the desired position.
- 5 To save a copy of the photo as you cropped it, tap **Save**. The original uncropped version remains on your device.


To use a photo

- 1 When you are viewing a photo, tap the screen to display the toolbars, then tap  > **Use as**.
- 2 Select an option from the list that appears.
- 3 Follow the relevant steps to use the photo.


To edit a photo


- When you are viewing a photo, tap the screen to display the toolbars, then tap  > **Edit photo**.

To share a photo

- 1 When you are viewing a photo, tap the screen to display the toolbars, then tap .
- 2 In the menu that opens, tap the application that you want to use to share the photo, then follow the steps to send it.

To add a geotag to a photo

- 1 When you are viewing a photo, tap the screen to display the toolbars, then tap  to open the map screen.
- 2 Find and tap the desired location to put the photo on the map.
- 3 To adjust the location of the photo, tap the location on the map to where you want to move the photo.
- 4 When you are done, tap **OK** to save the geotag and return to the photo viewer.

- 💡 When a photo is geotagged,  appears along with location information. You can tap this icon to view the photo on a map.

To delete a photo

- 1 When you are viewing a photo, tap the screen to display the toolbars, then tap **Delete**.
- 2 Tap **OK**.

Working with videos in Album

Use Album to watch videos that you've taken with the camera, downloaded, or copied to your device. You can also share your videos with friends, for example, by uploading them to online services.

To play a video

- 1 Open the **Pictures** tab or the **My albums** tab in Album.
- 2 Using grid view or list view, locate the video that you want to open.
- 3 Tap the video to play it.
- 4 If the playback controls are not displayed, tap the screen to display them. To hide the controls, tap the screen again.

To pause a video

- 1 When a video is playing, tap the screen to display the controls.
- 2 Tap **⏸**.

To fast forward and rewind a video

- 1 When a video is playing, tap the screen to display the controls.
- 2 Drag the progress bar marker left to rewind, or right to fast forward.

To adjust the volume of a video

- Press the volume key.

To share a video

- 1 When a video is playing, tap the screen to display the toolbars, then tap **⋮** > **Share**.
 - 2 In the menu that opens, tap the application that you want to use to share the selected video, then follow the relevant steps to send it.
- ! You might not be able to copy, send or transfer copyright-protected items. Also, some items may not send if the file size is too large.

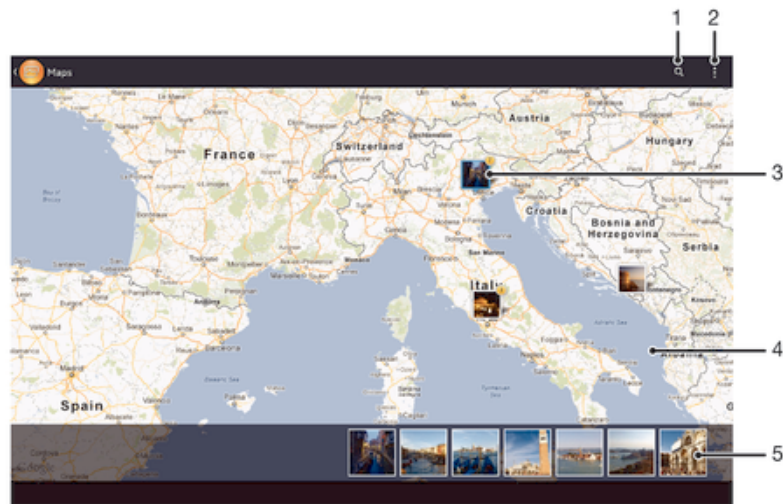
To delete a video

- 1 In Album, find the video you want to delete.
- 2 Touch and hold the video to activate selection mode. The frame of the video thumbnail turns blue when it is selected.
- 3 Tap **⋮** > **Delete**, then tap **OK**.

Viewing your photos on a map

If you download or copy geotagged photos to your device, you can view these photos on a map that shows the location where they were taken. Geotagged photos are photos that contain location-specific information. If photos are not already geotagged, you can geotag them manually in Album.

Overview of Maps tab



- 1 Search a location on the map.
- 2 View menu options.
- 3 A group of photos and/or videos geotagged with the same location.
- 4 Double tap to zoom in. Pinch to zoom out. Drag to view different parts of the map.
- 5 Thumbnails of the selected group of photos and/or videos. Tap an item to view it in full screen.

To enable location detection

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Location services**.
- 3 Mark the **GPS satellites** and/or **Google's location service** checkboxes.

To view geotagged photos on a map in Album

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Album > My albums > Maps**.
- 3 Tap a photo to view it in full screen.
- 4 If several photos were taken at the same location, only one of them appears on the map. The total number of photos appears in the top right corner, for example, . To view these photos, tap the cover photo and then tap one of the thumbnails at the bottom of the screen.


💡 When viewing a geotagged photo in the photo viewer, you can touch the screen to display the toolbars, then tap to view the photo on the map.

To view geotagged photos on a globe in Album

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Album > My albums > Globe**.
- 3 Tap a photo to view it in full screen.
- 4 If several photos were taken at the same location, only one of them appears on the map. The total number of photos appears in the top right corner, for example, . To view these photos, tap the cover photo and then tap one of the thumbnails at the bottom of the screen.

💡 When viewing a geotagged photo from the camera application, you can touch the screen to display the toolbars, then tap to view the photo on the map.

To add a geotag when viewing the map in Album

- 1 When viewing the map in Album, tap , then tap **Add geotag**.
- 2 Find and tap the photo to which you want to add the geotag.
- 3 Tap the desired location on the map to set the geotag, then tap **OK**.

To edit the geotag of a photo in Album

- 1 When viewing a photo on the map in Album, touch and hold the photo until its frame turns blue.
 - 2 Drag the photo to the new location.
- 💡 You can also tap the desired location on the map instead of dragging.

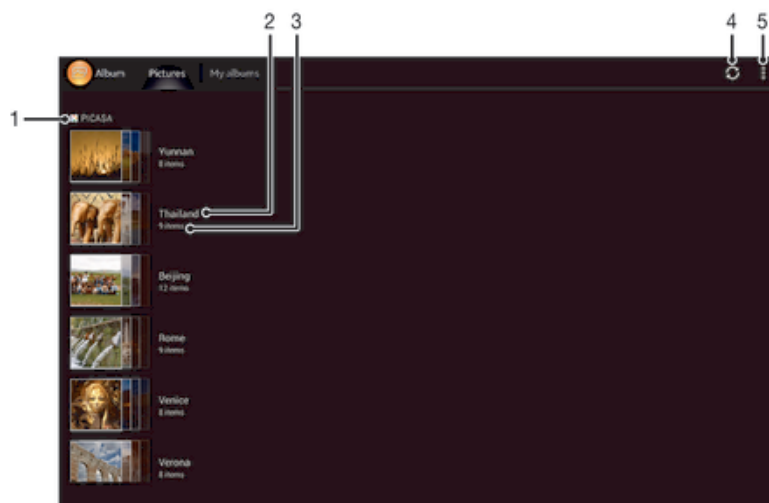
To change the map view in Album

- When viewing the map in Album, tap , then select **Classic view** or **Satellite view**.

Viewing online albums

In Album, view the photos and videos that you and your friends have uploaded to online services, such as Picasa™ and Facebook™. You can view comments from your friends and add your own comments as well.

Overview of online services



- 1 Active online service.
- 2 Name of online album.
- 3 Number of items in the online album.
- 4 Refresh.
- 5 View menu options.

To view photos from online services in Album

- 1 Make sure you are signed in to the online service that you want to use, for example, Facebook™.
- 2 From your **Home screen**, tap **☰**.
- 3 Find and tap **Album > My albums**.
- 4 Tap the desired online service.
- 5 Tap **Connect**. All available online albums that you have uploaded to the service are displayed.
- 6 Tap any album to view its content, then tap a photo in the album.
- 7 Flick left to view the next photo or video. Flick right to view the previous photo or video.

To view and add comments to online album content

- 1 When viewing a photo from an online album, tap the screen to display the toolbars, then tap **💬** to view the comments.
- 2 To view more comments, scroll down the screen.
- 3 To add your own comments, enter your comments at the bottom of the screen, then tap **Post**.

To "Like" a photo or video on Facebook™

- While viewing a photo or video from one of your Facebook™ albums, tap the screen to display the toolbars, then tap **👍** to show that you "Like" the item on Facebook™.

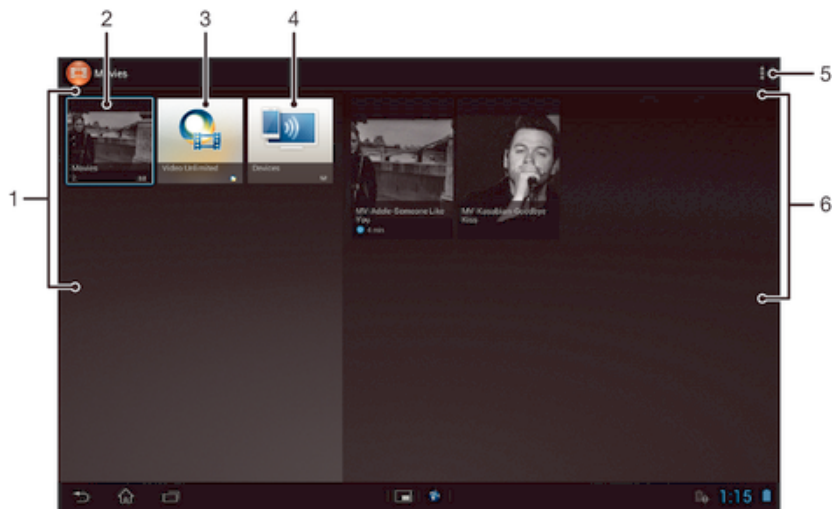
Movies

About Movies

Use the Movies application to play movies and other video content that you've downloaded to your device. The Movies application also helps you get poster art, plot summaries, genre info, and director details for each movie. You can also play your movies on other devices that are connected to the same network.

- ! Videos taken with your device's camera are displayed in Album, not in Movies. .

Overview of Movies



- 1 All video categories available on your device.
- 2 Browse all movies.
- 3 Open the Video Unlimited™ application.
- 4 Browse content on other connected DLNA Certified™ devices.
- 5 View menu options.
- 6 View the content for a selected video category.

Using Movies

To play a video in Movies

- 1 From your **Home screen**, tap **⋮**, then find and tap **Movies**.
- 2 Select a video category and browse to the video that you want to play.
- 3 Tap the video you want to select, then tap **▶** to play it.
- 4 To display or hide the controls, tap the screen.
- 5 To pause playing, tap **⏸**.
- 6 To rewind, drag the progress bar marker left. To fast forward, drag the progress bar marker right.

To share a video

- 1 When a video is playing, tap **⋮**, then tap **Share**.
- 2 In the menu that opens, tap the application that you want to use to share the selected video, then follow the relevant steps to send it.

To get movie information manually

- 1 Make sure that your device has an active data connection.
 - 2 From your **Home screen**, tap **⋮**, then find and tap **Movies**.
 - 3 Tap **⋮**, then make sure that the **Get video details** checkbox is marked.
 - 4 Open the Movies or TV shows tab and browse to the thumbnail of a file that you want to get information about.
 - 5 Touch and hold the thumbnail for the video, then tap **Search for info**.
 - 6 In the search field, enter keywords for the video, then tap the confirm key on the keyboard. All matches are displayed in a list.
 - 7 Select a search result, then tap **Done**. The download of the information begins.
- ! You also get information about newly added videos automatically when the Movies application is opened and the **Get video details** checkbox is marked. Data transmission charges may apply.
- 💡 If the downloaded information is not correct, tap **🔄** and search again using different keywords.

To clear information about a video

- 1 From your **Home screen**, tap **⋮**, then find and tap **Movies**.
- 2 Select a video category and browse to the video that you want to edit.
- 3 Touch and hold the video thumbnail, then tap **Clear info**.

To play a video on an external device

- 1 Make sure the devices that you want to share files with are connected to the same **Wi-Fi®** network as your device.
- 2 From your **Home screen**, tap **⋮**, then find and tap **Movies > ⋮**.
- 3 Tap **Throw**, then select a device from the list.
- 4 Select the video that you want to play.

To change the sound settings while a video is playing

- 1 While a video is playing, tap the screen to display the controls.
- 2 Tap **⋮**, then tap **Sound settings**.
- 3 Mark the checkboxes for the sound settings that you want to activate.
- 4 When you're finished, tap **OK**.

To delete a video

- 1 From your Home screen, tap **⋮**, then find and tap **Movies**.
- 2 Select a video category and browse to the video that you want to delete.
- 3 Touch and hold the video thumbnail, then tap **Delete** from the list that appears.
- 4 Tap **Delete** again to confirm.

Video Unlimited™

About Video Unlimited™










Use the Video Unlimited™ service to rent and purchase videos that you can view not only on your Android device, but also on a PC, PlayStation® Portable (PSP®), or PlayStation® 3. Select your pick from the latest Hollywood releases, action movies, comedies, classics, and a range of other categories.

- ! Video Unlimited™ might not be available in all countries or regions.

To open Video Unlimited™

- 1 From your **Home screen**, tap .
- 2 Find and tap .

Video Unlimited™ menu overview

	View your account information
	Search for a video
	View the download status for all your items
	View and change settings for your account, purchases, and downloads
	Add the current video to a wish list
	Delete all items in your wish list
	Delete the video you're currently viewing from the wish list
	Share information about the current video via a social network, email, Bluetooth, or other method
	View legal information

- ! The Video Unlimited™ menu is dynamic, which means that all options are not always available. For example, the option to delete all items in your wish list is only available when you are viewing the list.

To open the Video Unlimited™ menu

- Open **Video Unlimited**, then tap .

Creating a Video Unlimited™ account

You need to create a Video Unlimited™ account if you want to buy or rent movies through the Video Unlimited™ service.

Exploring the Video Unlimited™ selection







Browse videos by category, or enter text to search for a particular item. You can also choose to preview videos you're interested in.

Renting or buying a video

When you rent a video, you have a fixed amount of time in which to view it. This time period varies from market to market. You can also choose to download a purchased video to most Sony™ devices that are connected to your Video Unlimited™ account.

Video Unlimited™ notifications overview

When you buy or rent videos, the following notifications may appear:





-  Downloading of video is completed
-  Downloading has failed. You need to check that, for example, your device is connected to a Wi-Fi® network, and that you have enough free space on your memory card.
-  Downloading of video is ongoing
-  Downloading is paused
-  Confirmation of successful purchase
-  Rental countdown period has started

Watching a video from Video Unlimited™

You can watch your rented or purchased videos on most Sony™ device that are connected to your Video Unlimited™ account.

Video menu overview

When you watch a video from Video Unlimited™, you can open a menu to get the following options:

-  Delete the current video
-  View information about the current video
-  Change the audio language
-  Change the language of subtitles, or remove subtitles

Web browser

About the web browser

The Google Chrome™ web browser for Android™ devices comes preinstalled in most markets. Go to <http://support.google.com/chrome> and click the "Chrome for Mobile" link to get more detailed information about how to use this web browser.

- ! Google Chrome™ is not available in all markets.

To open the web browser

- 1 From your **Home screen**, tap .
- 2 Find and tap .

Connectivity

Connecting to wireless networks

You can access the Internet wirelessly from your device using **Wi-Fi®** technology. This way you can browse the web and share media files over the same **Wi-Fi®** network with other DLNA Certified™ devices, for example, TVs and computers.

If your company or organization has a virtual private network (VPN), you can connect to this network using your device. You can use a VPN to access intranets and other internal services at your company.

Before using Wi-Fi®




To browse the Internet using a **Wi-Fi®** connection, you need to search for and connect to an available **Wi-Fi®** network, and then open the Internet browser. The signal strength of the **Wi-Fi®** network may differ depending on your device's location. Move closer to the **Wi-Fi®** access point to increase the signal strength.

To turn on Wi-Fi®

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings**.
- 3 Drag the slider beside **Wi-Fi®** to the right to turn on the **Wi-Fi®** function.

! It may take a few seconds before **Wi-Fi®** is enabled.

To connect to a Wi-Fi® network

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Settings**.
- 3 Make sure that the **Wi-Fi®** function is on. Tap **Wi-Fi**.
- 4 Available **Wi-Fi®** networks are displayed. The available networks may be open or secured. Open networks are indicated by  and secured networks are indicated by  next to the **Wi-Fi®** network name.
- 5 Tap a **Wi-Fi®** network to connect to it. If you are trying to connect to a secure network, you are asked to enter a password.  is displayed in the status bar once you are connected.

! Your device remembers **Wi-Fi®** networks you connect to. The next time you come within reach of a previously connected **Wi-Fi®** network, your device automatically connects to it.

💡 In some locations, open **Wi-Fi®** networks require you to log in to a web page before you can get access to the network. Contact the relevant **Wi-Fi®** network administrator for more information.

To connect to another Wi-Fi® network

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Wi-Fi**. Detected **Wi-Fi®** networks are displayed.
- 3 Tap another **Wi-Fi®** network to connect to it.

To scan for Wi-Fi® networks manually

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Wi-Fi**.
- 3 Press , then tap **Scan**.
- 4 To connect to a **Wi-Fi®** network, tap the network name.

To add a Wi-Fi® network manually

- 1 Make sure that **Wi-Fi®** is turned on.
- 2 From the **Home screen**, tap **⋮**.
- 3 Find and tap **Settings > Wi-Fi**.
- 4 Tap **+**.
- 5 Enter the **Network SSID** for the network.
- 6 Tap the **Security** field to select a security type.
- 7 If required, enter a password.
- 8 Tap **Save**.

! The **Wi-Fi®** network name may be indicated as SSID, ESSID or Access Point. Contact your **Wi-Fi®** network administrator to get the Network SSID and password.

Advanced Wi-Fi® settings

Wi-Fi® network status

When you are connected to a **Wi-Fi®** network or when there are **Wi-Fi®** networks available in your vicinity, it is possible to see the status of these **Wi-Fi®** networks. You can also enable your device to notify you whenever an open **Wi-Fi®** network is detected.

To enable Wi-Fi® network notifications

- 1 Turn on **Wi-Fi®**, if it is not already on.
- 2 From your **Home screen**, tap **⋮**.
- 3 Find and tap **Settings > Wi-Fi**.
- 4 Press **⋮**.
- 5 Tap **Advanced**.
- 6 Mark the **Network notification** checkbox.

To view detailed information about a connected Wi-Fi® network

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Wi-Fi**.
- 3 Tap the **Wi-Fi®** network that you are currently connected to. Detailed network information is displayed.

Virtual private networks (VPNs)

Use your device to connect to virtual private networks (VPNs), which allow you to access resources inside a secured local network from outside the actual network. For example, VPN connections are commonly used by corporations and educational institutions for users who need to access intranets and other internal services when they are outside of the internal network, for example, when they are traveling.

VPN connections can be set up in many ways, depending on the network. Some networks may require you to transfer and install a security certificate in your device. For detailed information on how to set up a connection to your virtual private network, please contact the network administrator of your company or organization.

To add a VPN

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > More... > VPN**.
- 3 Tap **Add VPN profile**.
- 4 Select the type of VPN to add.
- 5 Enter your VPN settings.
- 6 Tap **Save**.

To connect to a virtual private network

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > More... > VPN**.
- 3 In the list of available networks, tap the VPN you want to connect to.
- 4 Enter the required information.
- 5 Tap **Connect**.

To disconnect from a VPN

- 1 Tap the status bar to open the Notification panel.
- 2 Tap the notification for the VPN connection to turn it off.

Sharing content with DLNA Certified™ devices

You can view or play media content saved to your device on other devices such as, for example, a TV, or a computer. Such devices must be DLNA Certified™ by the Digital Living Network Alliance and all devices must be connected to the same **Wi-Fi®** network in order for content to be shared. You can also view or play content from other DLNA Certified™ devices on your device.

After you set up the sharing of content between devices, you can, for example, listen to music files stored on your home computer from your device, or view photos taken with your device's camera on a large-screen TV.

Playing files from DLNA Certified™ devices on your device

When you play files from another DLNA Certified™ device on your device, this other device acts as a server. In other words, it shares content over a network. The server device must have its content sharing function enabled and give access permission to your device. It also must be connected to the same **Wi-Fi®** network as your device.

To play a shared track on your device

- 1 Make sure the devices that you want to share files with are connected to the same **Wi-Fi®** network as your device.
- 2 From your **Home screen**, tap **⋮**, then find and tap **WALKMAN**.
- 3 Tap **My music** to open the music library.
- 4 Select a device from the list of connected devices.
- 5 Browse the folders of the connected device and select the track that you want to play. The track starts playing automatically.

To play a shared video on your device

- 1 Make sure the devices that you want to share files with are connected to the same **Wi-Fi®** network as your device.
- 2 From your **Home screen**, tap **⋮**, then find and tap **Movies > Devices**.
- 3 Select a device from the list of connected devices.
- 4 Browse the folders of the connected device and select the video that you want to play.

To view a shared photo on your device

- 1 Make sure the devices that you want to share files with are connected to the same **Wi-Fi®** network as your device.
- 2 From your **Home screen**, tap **⋮**.
- 3 Find and tap **Album > My albums**. All your available online albums and connected devices are displayed.
- 4 Select a device from the list of connected devices.
- 5 Browse the folders of the connected device and select a photo to view it.

Preparing to play content from your device on DLNA Certified™ devices

Before you can view or play media files from your device on other DLNA Certified™ devices, you must set up file sharing on your device. The devices that you share content with are called client devices. For example, a TV, computer or tablet can act as client devices. Your device works as a media server when it makes content available to client devices. When you set up file sharing on your device, you must also give access permission to client devices. After you do so, such devices appear as registered devices. Devices that are waiting for access permission are listed as pending devices.

To set up file sharing with other DLNA Certified™ devices

- 1 Connect your device to a **Wi-Fi®** network.
 - 2 From your **Home screen**, tap **⋮**, then find and tap **📶**.
 - 3 Tap **My music** to open the music library.
 - 4 Press **⋮**, then tap **Media server**.
 - 5 To turn on the **Share content** function, drag the slider. **🔒** appears in the status bar. Your device can now work as a media server.
 - 6 Connect your computer or other devices to the same **Wi-Fi®** network as your device.
 - 7 A notification appears in the status bar of your device. Open the notification and set the relevant access permissions for other devices.
- ! The instructions described above may differ depending on the client devices used. Refer to your client device User guide for more information. If the device cannot connect, check that your **Wi-Fi®** network is working.
- 💡 You can also access the **Media server** menu under **Settings > More... > Media server settings**. If you close the **Media server** view, the function stays running in the background.

To stop sharing files with other DLNA Certified™ devices

- 1 From your **Home screen**, tap **⋮**, then find and tap **📶**.
- 2 Tap **My music** to open the music library.
- 3 Press **⋮**, then tap **Media server**.
- 4 Drag the slider to turn off the **Share content** function.

To set access permissions for a pending device

- 1 From your **Home screen**, tap **⋮**, then find and tap **📶**.
- 2 Tap **My music** to open the music library.
- 3 Press **⋮**, then tap **Media server**.
- 4 Select a device from the **Pending devices** list.
- 5 Select an access permission level.

To change the name of a registered device

- 1 From your **Home screen**, tap **⋮**, then find and tap **📶**.
- 2 Tap **My music** to open the music library.
- 3 Press **⋮**, then tap **Media server**.
- 4 Select a device from the **Registered devices** list, then select **Change name**.
- 5 Enter a new name for the device.

To change the access level of a registered device

- 1 From your **Home screen**, tap **⋮**, then find and tap **📶**.
- 2 Tap **My music** to open the music library.
- 3 Press **⋮**, then tap **Media server**.
- 4 Select a device from the **Registered devices** list.
- 5 Tap **Change access level** and select an option.

To get help about sharing content with other DLNA Certified™ devices





- 1 From your **Home screen**, tap **⋮**, then find and tap **📶**.
- 2 Tap **My music** to open the music library.
- 3 Press **⋮**, then tap **Media server**.
- 4 Tap **?**.

Playing files on a Digital Media Renderer device



Using DLNA™ technology, you can push media content saved on your device to another device connected to the same **Wi-Fi®** network. The other device must be able to function as a Digital Media Renderer (DMR) device, which means that it can render, or play, content received from your device. A DMR device can be, for example, a TV with DLNA function, or a PC running Windows® 7 or higher.

- ! The settings for enabling the Digital Media Renderer may vary depending on the device used. Refer to the user guide for the respective device for more detailed information.

To view photos or videos from your device on a DMR device

- 1 Ensure you have correctly set up the DMR device and that it is connected to the same **Wi-Fi®** network as your device.
 - 2 From your **Home screen**, tap **⋮**.
 - 3 Find and tap **Album**.
 - 4 Browse to and open the file that you want to view.
 - 5 Tap the screen to display the toolbars, then tap  and select a DMR device to share your content with. The selected files start playing in chronological order on the device that you select.
 - 6 To disconnect from the DMR device, tap  and select your device. The file stops playing on the DMR device but continues playing on your device.
-  You can also share a video from the Movies application on your device by tapping the video and then tapping .

To play a music track from your device on a DMR device

- 1 Make sure that you have correctly set up the DMR device and that it is connected to the same **Wi-Fi®** network as your device.
- 2 From your **Home screen**, tap **⋮**, then find and tap **WALKMAN**.
- 3 Tap **My music** to open the music library.
- 4 Select a music category and browse to the track that you want to share, then tap the track.
- 5 Tap  and select a DMR device to share your content with. The track plays automatically on the device that you select.
- 6 To disconnect from the DMR device, tap  and select your device. The track stops playing on the DMR device but continues playing on your device.


Using your device as a remote control

Use the Remote control application to control other devices from a distance. For example, you can use your device to control a TV, a Set-Top Box (STB), a DVD player/recorder, or a Blu-ray™ player/recorder. The Remote control application in your device uses infrared wireless technology. Because this technology has a short range, you need to hold your device close to the device that you want to control remotely.


Before using the Remote control application

Before you can use your device to control other devices remotely, you must first add such devices in the Remote control application.

To add a device

- 1 Make sure the infrared beam transmitter on your device is pointing at the infrared beam receiver on the device that you want to control. Also make sure that both devices are close to each other.
- 2 From your **Home screen**, tap **⋮**, then find and tap .
- 3 Tap **Add device**.
- 4 Select the device type and manufacturer, then tap **Next**. If the device type and manufacturer are not listed, tap **Manual setup**, then select the desired option manually and tap **Next**.
- 5 When you are finished, tap **Finish**.

To edit the information for a device

- 1 From your **Home screen**, tap **⋮**, then find and tap .
- 2 Touch and hold the name of the device that you want to edit, then tap **Edit device information**.
- 3 Edit the desired information.
- 4 When you are finished, tap **Done**.

NFC

Use Near Field Communications (NFC) to share data with other devices, such as a video, photo, web page address, music file, or contact. You can also use NFC to scan tags

that give you more information about a product or service as well as tags that activate certain functions on your device.

NFC is a wireless technology with a maximum range of one centimeter, so the devices sharing data must be held close to each other. Before you can use NFC, you must first turn on the NFC function, and the device's screen must be active.

- ! NFC may not be available in all countries and/or regions.

To turn on the NFC function

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > More....**
- 3 Mark the **NFC** checkbox.

NFC detection area



- ! The location of the NFC detection area is not the same on all devices. When sharing data with another device using NFC, refer to the User guide of the other device for more information.

To share a contact with another device using NFC

- 1 Make sure that both devices have the NFC function turned on, and that both screens are active.
- 2 To view contacts, go to your **Home screen**, tap **⋮**, then tap **👤**.
- 3 Tap the contact that you want to share.
- 4 Hold your device and the receiving device back to back so that the NFC detection areas of each device touch each other. When the devices connect, they play a short sound. A thumbnail of the contact appears.
- 5 Tap the thumbnail to start the transfer.
- 6 When the transfer is done, the contact information is displayed on the screen of the receiving device and is also saved on the receiving device.

To share a music file with another device using NFC


- 1 Make sure that both your device and the receiving device have the NFC function turned on, and that both screens are active.
- 2 To open the "WALKMAN" application, tap **⋮**, then find and tap **🎵**.
- 3 Tap the **My music** tab to open the music library.
- 4 Select a music category and browse to the track you want to share.
- 5 Tap the track to play it. You can then tap **⏸** to pause the track. The transfer works whether the track is playing or paused.
- 6 Hold your device and the receiving device back to back so that the NFC detection areas of each device touch each other. When the devices connect, they play a short sound. A thumbnail of the track appears.
- 7 Tap the thumbnail to start the transfer.
- 8 When the transfer is done, the music file plays immediately on the receiving device. At the same time, the file is saved on the receiving device.

- ! You might not be able to copy, send or transfer copyright-protected items.

To share a photo or video with another device using NFC

- 1 Make sure that both devices have the NFC function turned on, and that both screens are active.
 - 2 To view photos and videos in your device, go to your **Home screen**, tap **⋮**, then find and tap **Album**.
 - 3 Tap the photo or video that you want to share.
 - 4 Hold your device and the receiving device back to back so that the NFC detection areas touch each other. When the devices connect, they play a short sound. A thumbnail of the photo or video appears.
 - 5 Tap the thumbnail to start the transfer.
 - 6 When the transfer is done, the photo or video is displayed on the screen of the receiving device. At the same time, the item is saved on the receiving device.
- 💡 You can also use NFC to share a video from the **Movies** application.

To share a web address with another device using NFC

- 1 Make sure that both devices have the NFC function turned on, and that both screens are active.
- 2 From your **Home screen**, tap **⋮**.
- 3 To open the web browser, find and tap .
- 4 Load the web page that you want to share.
- 5 Hold your device and the receiving device back to back so that the NFC detection areas touch each other. When the devices connect, they play a short sound. A thumbnail of the web page appears.
- 6 Tap the thumbnail to start the transfer.
- 7 When the transfer is done, the web page is displayed on the screen of the receiving device.

Bluetooth™ wireless technology

Use the Bluetooth™ function to send files to other Bluetooth™ compatible devices, or to connect to handsfree accessories. Turn on the Bluetooth™ function in your device and create wireless connections to other Bluetooth™ compatible devices such as computers, handsfree accessories, phones, and tablets. Bluetooth™ connections work better when the connecting devices are within a range of 10 meters (33 feet), with no solid objects in between. In some cases, you have to manually pair your device with other Bluetooth™ devices.

- ! Interoperability and compatibility among Bluetooth™ devices can vary.

To turn on the Bluetooth™ function and make your device visible

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings**.
- 3 Tap the on-off switch beside **Bluetooth** to turn on the Bluetooth™ function.
- 4 Tap **Bluetooth**. Your device and a list of available Bluetooth™ devices appear.
- 5 Tap your device name to make your device visible to other Bluetooth™ devices.

To adjust your device's visibility time to other Bluetooth™ devices

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Bluetooth**.
- 3 Press **⋮** and select **Visibility timeout**.
- 4 Select an option.

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.

To give your device a name

- 1 Make sure that the Bluetooth™ function is turned on.
- 2 From your **Home screen**, tap **⋮**.
- 3 Find and tap **Settings > Bluetooth**.
- 4 Tap **i** and select **Rename tablet**.
- 5 Enter a name for your device.
- 6 Tap **Rename**.

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. When pairing your device with a Bluetooth™ device, you may need to enter a passcode. Your device will automatically try the generic passcode 0000. If this does not work, refer to the user guide for your Bluetooth™ device to get the device passcode. You do not need to re-enter the passcode the next time you connect to a previously paired Bluetooth™ device.

- ! Some Bluetooth™ devices, for example, most Bluetooth™ headsets, require you to both pair and connect with the other device.
- ! You can pair your device with several Bluetooth™ devices, but you can only connect to one Bluetooth™ profile at the same time.

To pair your device with another Bluetooth™ device

- 1 Make sure that the device you want to pair your device with has the Bluetooth™ function activated and is visible to other Bluetooth™ devices.
- 2 From the **Home screen**, tap **⋮**.
- 3 Find and tap **Settings > Bluetooth**. All available Bluetooth™ devices appear in a list.
- 4 Tap the Bluetooth™ device that you want to pair with your device.
- 5 Enter a passcode, if required, or confirm the same passcode on both devices. Your device and the Bluetooth™ device are now paired.

To connect your device to another Bluetooth™ device

- 1 If you are connecting to a Bluetooth device that requires you to first pair your device before connecting, follow the relevant steps to pair your device with that device.
- 2 From your **Home screen**, tap **⋮**.
- 3 Find and tap **Settings > Bluetooth**.
- 4 Tap the Bluetooth™ device to which you want to connect your device.

To unpair a Bluetooth™ device


- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Bluetooth**.
- 3 Under **Paired devices**, tap **⋮** beside the name of the device you want to unpair.
- 4 Tap **Unpair**.

Sending and receiving items using Bluetooth™ technology

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

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



To send items using Bluetooth™

- 1 **Receiving device:** Make sure the Bluetooth™ function is turned on and that the device is visible to other Bluetooth™ devices.
- 2 **Sending device:** Open the application which contains the item that you want to send, and scroll to the item.
- 3 Depending on the application and on the item that you want to send, you may need to, for example, touch and hold the item, open the item, and press . Other ways to send an item may exist.
- 4 Select **Bluetooth**.
- 5 Turn on Bluetooth™, if you are asked to do so.
- 6 Tap the name of the receiving device.
- 7 **Receiving device:** If asked, accept the connection.
- 8 **Sending device:** If asked, confirm the transfer to the receiving device.
- 9 **Receiving device:** Accept the incoming item.

To receive items using Bluetooth™

- 1 Make sure that the Bluetooth™ function is on and that your device is visible to other Bluetooth™ devices. The sending device can now start sending data to your device.
- 2 If prompted, enter the same passcode on both devices, or confirm the suggested passcode.
- 3 When you are notified of an incoming file to your device, drag the status bar upward and tap the notification to accept the file transfer.
- 4 Tap **Accept** to start the file transfer.
- 5 To view the progress of the transfer, drag the status bar upwards.
- 6 To open a received item, drag the status bar upward and tap the relevant notification.

To view files you have received using Bluetooth™

- 1 From your **Home screen**, tap .
- 2 Find and tap **Settings > Bluetooth**.
- 3 Press  and select **Show received files**.

Connecting your device to a computer

Connect your device to a computer and start transferring pictures, music, and other file types. The easiest ways to connect are using a USB cable or Bluetooth wireless technology.

When you connect your device to the computer using a USB cable, you are prompted to install the PC Companion application on your computer. PC Companion helps you access additional computer applications to transfer and organize media files, update your device, synchronize device content, and more.

- ! You might not be able to transfer some copyright-protected material between your device and a computer.

Transferring and handling content using a USB cable

Use a USB cable connection between a computer and your device for easy transfer and management of your files. Once the two devices are connected, you can drag and drop content between your device and the computer, or between your device's internal storage and SD card, using the computer's file explorer.

If you're transferring music, video, pictures or other media files to your device, it's best to use the Media Go™ application on your computer. Media Go™ converts media files so that you can use them on your device.

To transfer content between your device and computer using a USB cable

- 1 Connect your device to a computer using a USB cable. **Internal storage & SD card connected** appears in the status bar on the screen of your device.
- 2 **Computer:** Open Microsoft® Windows® Explorer from the desktop and wait until your device's internal storage and your SD card appear as external disks in Microsoft® Windows® Explorer.
- 3 **Computer:** Drag and drop the desired files between your device and the computer.

To transfer content between internal storage and an SD card via USB

- 1 Connect your device to a computer using a USB cable. **Internal storage & SD card connected** appears in the status bar on the screen of your device.
- 2 **Computer:** Open Microsoft® Windows® Explorer from the desktop and wait until your device's internal storage and your SD card appear as external disks in Microsoft® Windows® Explorer.
- 3 **Computer:** Drag and drop the desired files between the device's internal storage and the SD card.

To transfer files directly from internal storage to an SD card in the device

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Storage > Transfer data to SD card**.
- 3 Mark the file types you want to transfer to the SD card.
- 4 Tap **Transfer**.

- 💡 The direct transfer method means that a USB cable connection to a computer is not necessary.

Transferring files using Media transfer mode via Wi-Fi®

You can transfer files between your device and other MTP compatible devices, such as a computer, using a Wi-Fi® connection. Before connecting, you first need to pair the two devices. If you're transferring music, video, pictures or other media files between your device and a computer, it's best to use the Media Go™ application on the computer. Media Go™ converts media files so that you can use them on your device.

- 💡 In order to use this feature, you need a Wi-Fi® enabled device that supports Media transfer, for example, a computer running Microsoft® Windows Vista® or Windows® 7.

To pair your device wirelessly with a computer using Media transfer mode

- 1 Make sure Media transfer mode is enabled on your device. It is normally enabled by default.
- 2 Connect your device to the computer using a USB cable.
- 3 **Computer:** Once the name of your device appears on the screen, click *Network configuration* and follow the instructions to pair the computer.
- 4 When you are finished pairing, disconnect the USB cable from both devices.

- ! The above instructions only work if Windows® 7 is installed on your computer and the computer is connected to a Wi-Fi® Access Point via a network cable.

To connect paired devices wirelessly in Media transfer mode

- 1 Make sure Media transfer mode is enabled on your device. It is normally enabled by default.
- 2 From your **Home screen**, tap **⋮**.
- 3 Find and tap **Settings > Xperia™ > USB Connectivity**.
- 4 Tap the paired device that you want to connect to under **Trusted devices**.
- 5 Tap **Connect**.

- ! Make sure the Wi-Fi® function is turned on.

To disconnect a wirelessly paired device in Media transfer mode

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Xperia™ > USB Connectivity**.
- 3 Tap the paired device that you want to disconnect from under **Trusted devices**.
- 4 Tap **Disconnect**.

To remove a pairing with another device

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Xperia™ > USB Connectivity**.
- 3 Tap the paired device that you want to remove.
- 4 Tap **Forget**.

PC Companion

PC Companion is a computer application that gives you access to additional features and services which help you transfer music, video and pictures to and from your device. You can also use PC Companion to update your device and get the latest software version available. The installation files for PC Companion are saved on your device and the installation is launched from the device when you connect it to a computer via USB cable.

You need an internet-connected computer running one of the following operating systems to use the PC Companion application:

- Microsoft® Windows® 7
- Microsoft® Windows Vista®
- Microsoft® Windows® XP (Service Pack 3 or higher)

To start PC Companion

- 1 Make sure that PC Companion is installed on your PC.
- 2 Open the PC Companion application on the PC, then click **Start** to open one of the features you want to use.

Media Go™

The Media Go™ computer application helps you transfer and manage media content in your device and computer. You can install and access Media Go™ from within the PC Companion application.

You need one of these operating systems to use the Media Go™ application:

- Microsoft® Windows® 7
- Microsoft® Windows Vista®
- Microsoft® Windows® XP, Service Pack 3 or higher

To transfer content using the Media Go™ application

- 1 Connect your device to a computer using a supported USB cable.
- 2 **Device:** In the status bar, **Internal storage connected** appears.
- 3 **Computer:** Open the PC Companion application on the PC first. In PC Companion, click *Media Go* to start the Media Go™ application. In some cases, you may have to wait for Media Go™ to install.
- 4 Using Media Go™, drag and drop files between your computer and device.

Connecting your device to a TV set

Connect your device to a TV set and start viewing content saved in your device on a larger screen. When you connect your device to the TV set, the TV launcher application opens. This application helps you to play media files from your device on TVs and other devices.

- 💡 You may have to purchase an MHL cable separately.

To view content from your device on a TV which supports MHL input

- 1 Connect your device to the TV using an MHL cable. **MHL** appears in your device's status bar after a connection is established.
- 2 The **TV launcher** application starts automatically. Follow the instructions to view your media files on the TV.

To view content from your device on a TV which supports HDMI™ input

- 1 Connect your device to an MHL-HDMI adaptor, and connect the adaptor to a USB power supply.
- 2 Connect the adaptor to a TV using a HDMI™ cable. **MHL** appears in your device's status bar after a connection is established.
- 3 The **TV launcher** application starts automatically. Follow the instructions to view your media files on the TV.

To view help about using the TV remote control

- 1 While your device is connected to the TV set, drag the status bar downward to open the Notification panel.
 - 2 Tap **MHL connected**.
- 💡 You can also press the yellow button on the TV remote control to open the Notification panel.

To disconnect your device from the TV set

- Disconnect the MHL™ cable or the MHL-HDMI adaptor from your device.

Screen mirroring

Use Screen mirroring 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 via the TV's speakers.

- ! Your TV must support screen mirroring based on Wi-Fi CERTIFIED Miracast™ for the functionality described above to work. If your TV does not support screen mirroring, you need to purchase a wireless display adapter separately.
- ! When using screen mirroring, the image quality may sometimes be negatively impacted if there is interference from other **Wi-Fi®** networks.

To mirror the screen of your device on a TV screen

- 1 Follow the instructions in the User guide for your TV to turn on the screen mirroring function.
 - 2 From your **Home screen**, tap **⋮**.
 - 3 Find and tap **Settings > Xperia™ > Screen mirroring**.
 - 4 Tap **Turn on Screen mirroring** and select a device.
- ! When using screen mirroring, do not cover the Wi-Fi antenna area of your device.

Smart Connect

About Smart Connect

Use the Smart Connect application to set what happens in your device when you connect or disconnect an accessory. You can also use it to set a specific action or a group of actions to launch on your device at certain times of the day.

For example, when you connect your headset or headphones, you can set an event so that the following actions are launched on your device:

- Between 7am and 9am, when you commute to work, the "WALKMAN" application starts, and the web browser opens the morning paper.

- On the way back from work, the FM radio starts, and a notes app with your shopping list opens.

To start the Smart Connect application

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Smart Connect**.

To create a Smart Connect event

- 1 Start the Smart Connect application. If you are opening Smart Connect for the first time, tap **OK** to close the introduction screen.
- 2 On the **Events** tab, tap **+**.
- 3 Give the event a name, then tap **Create**.
- 4 Under **When**, add either an accessory or a time interval, or both.
- 5 Under **Do this**, add what you want to happen in your device.
- 6 Under **At the end**, add what you want to happen when you disconnect the accessory or when the time interval comes to an end. If both these conditions are set, the actions start either when you disconnect the accessory, or when the time interval comes to an end.
- 7 To save the event, press **↩**.

- 💡 To add a Bluetooth™ accessory, you have to first pair it with your device.

To edit a Smart Connect event

- 1 Start the Smart Connect application.
- 2 On the **Events** tab, tap an event.
- 3 If the event is switched off, tap **⊙**.
- 4 Adjust the settings as desired.
- 5 To save the event, press **↩**.

- 💡 To delete an incorrect entry, touch and hold the entry and then tap **Delete**.

Synchronizing data on your device

About synchronizing data on your device

You can sync contacts, email, calendar events, and other information with your device from multiple email accounts, synchronization services, and other kinds of accounts, depending on the applications installed on your device. Synchronizing your device with other information sources is an easy and practical way to stay up to date.

You can:

- access your **Gmail™**, Google Calendar™, Google™ contacts, Google™ Chrome™ bookmarks, and other Google services you use.
- access your corporate email, contacts, and calendar applications.
- access your Facebook™ contacts, calendar, albums, and other services you use.

Synchronizing with Google™

Synchronize your device with different Google™ services to keep your information up to date, regardless of which device you're using your Google™ account from. For example, you can synchronize your contacts, Gmail™, calendar, and web browser data.

To set up a Google™ account for synchronization

- 1 From your **Home screen**, tap **⋮**.
- 2 Tap **Settings > Add account > Google**.
- 3 Follow the registration wizard to create a Google™ account, or sign in if you already have an account.
- 4 Tap your newly created Google™ account, then tap the items that you want to synchronize.

To synchronize manually with your Google™ account

- 1 From the **Home screen**, tap **⋮**.
- 2 Tap **Settings > Google**.
- 3 Tap the Google™ account that you want to synchronize.
- 4 Press **⋮**, then tap **Sync now**.

To remove a Google™ account

- 1 From your **Home screen**, tap **⋮**.
- 2 Tap **Settings > Google**.
- 3 Tap the Google™ account you want to remove from the accounts list.
- 4 Press **⋮**, then tap **Remove account**.
- 5 Tap **Remove account** again to confirm.

Synchronizing your corporate email, calendar, and contacts

Access your corporate email messages, calendar appointments, and contacts directly from your device. View and manage them just as easily as you would from a computer. After setup, you can find your information in the **Email**, **Calendar** and **Contacts** applications.

- ! For you to access the functionality described above, your corporate information must be stored on a Microsoft® Exchange server.

To set up corporate email, calendar and contacts

- 1 From your **Home screen**, tap **⋮**.
- 2 Tap **Settings > Add account > Exchange ActiveSync**.
- 3 Enter your corporate email address and password.
- 4 Tap **Next**. Your device begins to retrieve your account information. If a failure occurs, contact your corporate network administrator for more information.
- 5 Tap **OK** to allow your corporate server to control your device.
- 6 Select what data you want to sync with your device, such as contacts and calendar entries.
- 7 If desired, activate the device administrator to allow your corporate server to control certain security features on your device. For example, you can allow your corporate server to set password rules and set storage encryption.
- 8 When the setup is done, enter a name for the corporate account.

To edit the setup of corporate email, calendar, and contacts

- 1 From your **Home screen**, tap **⋮**.
- 2 Tap **Email**, then tap **⋮**.
- 3 Tap **Settings** and select a corporate account.
- 4 Change the desired settings.

To set a synchronization interval for a corporate account

- 1 From your **Home screen**, tap **⋮**.
- 2 Tap **Email**, then tap **⋮**.
- 3 Tap **Settings** and select a corporate account.
- 4 Tap **Check frequency** and select an interval option.

To remove a corporate account

- 1 From your **Home screen**, tap **⋮**.
- 2 Tap **Settings > Exchange ActiveSync**, then select the corporate account.
- 3 Tap **⋮**, then tap **Remove account**.
- 4 Tap **Remove account** again to confirm.

Synchronizing with Facebook™

There are two ways to use Facebook™ on your device. You can use the standard Facebook application to access your online Facebook account, or you can synchronize your Facebook account with your device and share content between Facebook™ and a range of other applications. For example, you can share music in the "WALKMAN" application on your device via Facebook. To synchronize your device with Facebook, you must first set up an "Xperia™ with Facebook" account — a solution developed by Sony to enable easy integration.

To set up an "Xperia™ with Facebook" account on your device

- 1 From your **Home screen**, tap **⋮**.
- 2 Tap **Settings > Add account > Xperia™ with Facebook**.
- 3 Follow the on-screen instructions to sign in to your Facebook™ account, or create a new account.

To synchronize manually with an "Xperia™ with Facebook" account

- 1 From your **Home screen**, tap **⋮**.
- 2 Tap **Settings > Xperia™ with Facebook**.
- 3 Select the account that you want to synchronize.
- 4 Press **⋮**, then tap **Sync now**.

To remove an "Xperia™ with Facebook" account

- ! When you remove an "Xperia™ with Facebook" account from your device, the associated online Facebook account is not deleted and you can still access it from a computer.
- 1 From your **Home screen**, tap **⋮**.
- 2 Tap **Settings > Xperia™ with Facebook**.
- 3 Select the account that you want to remove.
- 4 Press **⋮**, then tap **Remove account**.
- 5 Tap **Remove account** again to confirm.

Maps and locations

About location services

Use your device to find out where you are. There are two methods: GPS and wireless networks. Enable the wireless networks option if you only need your approximate location, and want it fast. If you want a more exact position, and have a clear view of the sky, enable the GPS option. In situations where the wireless network connection is weak, you should enable both options to ensure that your location is found.

- ! Sony does not warrant the accuracy of any location services including but not limited to navigational services.

Using GPS

Your device has a global positioning system (GPS) receiver that uses satellite signals to calculate your location.

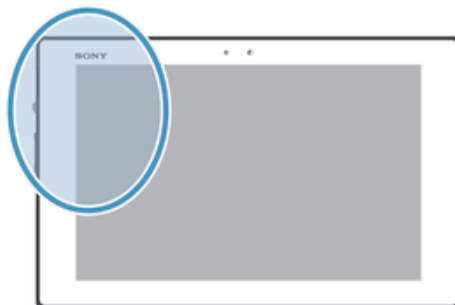
- ! When you use features that require the GPS receiver to find your location, make sure you have a clear view of the sky.

To enable GPS

- 1 From your Home screen, tap **⋮**.
- 2 Tap **Settings > Location services**.
- 3 Mark the **GPS satellites** checkbox.

Getting the best performance

The first time you use the GPS it can take 5 to 10 minutes for your location to be found. To help the search, make sure you have a clear view of the sky. Stand still and don't cover the GPS antenna (the highlighted area in the image). The GPS signals can pass through clouds and plastic, but not through most solid objects such as buildings and mountains. If your location isn't found after a few minutes, move to another location.



Google Maps™

Track your current location, view real-time traffic situations and receive detailed directions to your destination. Before taking trips, you can download and save maps to your memory card to avoid high roaming costs.

- ! The Google Maps™ application requires the use of an Internet connection. You may incur data connection charges when you connect to the Internet from your device. Contact your network operator for more information. The Google Maps™ application may not be available in every market, country, or region.

To use Google Maps™

- 1 From your **Home screen**, tap **⋮**.
 - 2 Find and tap **Maps**.
- ! If you want to use Google Maps™, you have to enable one of the location methods available under **Settings > Location services**.

To learn more about Google Maps™

- When you use Google Maps™, tap **⋮**, then tap **Help**.

Viewing your friends' locations with Google Latitude™

Join Google Latitude™ to view your friends' locations on maps and share your location and other information with them.

Using Google Maps™ to get directions

Use the Google Maps™ application to get directions when you travel by foot, public transportation, or car. You can add a shortcut to a destination on your Home screen to get quick directions from wherever you are.

When you view a map, you make an Internet connection, and data is transferred to your device. So it's a good idea to download and save maps to your device before you take a trip. This way, you can avoid high roaming costs.

- ! Sony does not warrant the accuracy of any directional services.

Using the Navigation application

Use the Navigation application in your device to get turn-by-turn instructions on how to get places. The directions are both spoken and displayed on the screen.

- ! The Navigation application may not be available in every market.

To start Navigation

- 1 From your Home screen, tap **⋮**.
- 2 Find and tap **Navigation**.

Using the Wisepilot™ application

Get turn-by-turn voice instructions on how to get places. You can also manage your trips and share routes and locations with friends via SMS, Twitter™, or Facebook™.

- ! Wisepilot™ may not be available in every market.

To start Wisepilot™

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Wisepilot for XPERIA™**.

Calendar and alarm clock

Calendar

Your device has a calendar application for managing your time schedule. If you have a Google™ account, you can also synchronize the calendar application on your device with your web calendar.


To set the calendar view

- 1 From your **Home screen**, tap **⋮**, then find and tap **Calendar**.
- 2 Select an option.

To view multiple calendars

- 1 From your **Home screen**, tap **⋮**, then find and tap **Calendar**.
- 2 Mark the relevant checkboxes to select the calendars that you want to view.

To create a calendar event

- 1 From your **Home screen**, tap **⋮**, then tap **Calendar**.
 - 2 Tap **+**.
 - 3 Enter the name, time, location, and description for the event.
 - 4 Tap **More options** and select a reminder for the event. To add a new reminder for the event, tap **+**.
 - 5 If desired, select another option under **Repetition**.
 - 6 Tap **Done**.
-  When the appointment time approaches, your device plays a short sound to remind you. Also, **⌚** appears in the status bar.

To view a calendar event

- 1 From your **Home screen**, tap **⋮**, then tap **Calendar**.
- 2 Tap the event you want to view.

To change the calendar settings

- 1 From your **Home screen**, tap **⋮**, then tap **Calendar**.
- 2 Press **⋮**, then tap **Settings**.
- 3 Tap the setting you want to change, then edit as desired.

Alarm clock

Use your device as an alarm clock and select any sound saved on your device as your alarm signal. The alarm does not sound if your device is turned off. But it does sound when the device is set to silent mode.

To open the alarm clock

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Alarm & clock**.

To set a new alarm


- 1 From your Home screen, tap **⋮**.
- 2 Find and tap **Alarm & clock**.
- 3 Tap **+**.
- 4 Tap **Set time** and adjust the time by scrolling up or down.
- 5 Tap **Done**.
- 6 If desired, edit other alarm settings.
- 7 Tap **Done**.

To edit an existing alarm


- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Alarm & clock**.
- 3 Tap the alarm that you want to edit.
- 4 Tap **Set time** and adjust the time by scrolling up or down.
- 5 Tap **Done**.
- 6 If desired, edit other alarm settings.
- 7 Tap **Done**.

! The alarm time format displayed is the same as the format you select for your general time settings, for example, 12-hour or 24-hour.


To deactivate an alarm

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Alarm & clock**.
- 3 Tap  next to the alarm you want to deactivate.

To activate an existing alarm

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Alarm & clock**.
- 3 Tap  next to the alarm you want to activate.

To delete an alarm

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Alarm & clock**.
- 3 Tap , then tap **Delete**.
- 4 Mark the checkbox next to the alarm that you want to delete.
- 5 Tap **Delete**, then tap **Yes**.

To set the ringtone for an alarm

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Alarm & clock**.
- 3 Tap the alarm you want to edit.
- 4 Tap **Advanced alarm settings** and unmark the **Style settings** checkbox.
- 5 Tap **Alarm sound** and select an option.
- 6 Tap **Done**, then tap **Done**.

To set a recurring alarm

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Alarm & clock**.
- 3 Tap the alarm you want to edit.
- 4 Tap **Repeat**.
- 5 Mark the checkboxes for the desired days, then tap **OK**.
- 6 Tap **Done**.

To set the title for an alarm

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Alarm & clock**.
- 3 Tap the alarm you want to edit.
- 4 Tap **Advanced alarm settings**, then tap the **Alarm text** field and enter a name for the alarm.
- 5 Tap **Done**.

To set alarms to sound when the device is in silent mode

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Alarm & clock**, then tap to select an alarm.
- 3 Tap **Advanced alarm settings**, then mark the **Alarm in silent mode** checkbox.
- 4 Tap **Done**.

To snooze an alarm when it sounds

- Tap **Snooze - min**.

To turn off an alarm when it sounds

- Slide  to the right.

Support and maintenance

Updating your device

Update your device to the most recent software version to get optimal performance and the latest enhancements.

You can use the Update center application on your device to run a wireless update or you can use the PC Companion application on a computer to run an update using a USB cable connection. If you update wirelessly, then you can use either a mobile network or a Wi-Fi® network connection. Just make sure you back up and save all data stored on your device before you update.

- ! When you run an update using the Update center application, a data connection is established and related charges may be incurred. Also, the availability of updates over a mobile network depends on your operator. Contact your network operator for more information.

Updating your device wirelessly

Use the Update center application to update your device wirelessly. You can download software updates manually, or you can allow Update service to update your device automatically whenever downloads become available. When the automatic update feature is activated, a notification appears in the status bar every time an update becomes available.

To download software updates manually from Update center

- 1 From your Home screen, tap **⋮**.
- 2 Find and tap **Update Center**.
- 3 Select the desired application or system update and tap **Download**, or tap **Update all** to download all application updates.

- ! Application updates launch automatically after download. With system updates, wait for your device to restart, then install the update manually. You may incur data connection charges when downloading updates over 3G/mobile networks.

To activate automatic software updates using the Update Center application

- 1 From your Home screen, tap **⋮**.
- 2 Find and tap **Update Center**.
- 3 Tap **⋮**, then tap **Settings**.
- 4 Tap **Allow automatic downloads**, then tap **Agree**. Updates are now downloaded automatically as soon as they become available.

- ! You may incur data connection charges when downloading updates over 3G/mobile networks.

To install system updates

- 1 From your Home screen, tap **⋮**.
- 2 Find and tap **Update Center**.
- 3 Select a system update you want to install, then tap **Install**.

Updating your device using a USB cable connection

Some updates are not available for wireless download. Notifications appear in the status bar to inform you of such updates. To download and run the updates, you need a USB cable and a computer running the PC Companion application. You can install PC Companion on the computer using installation files saved on your device, or you can download the application directly from *PC Companion*.

To download the PC Companion application from your device

- 1 Connect your device to a computer using a USB cable.
 - 2 When prompted, follow the instructions in your device to launch the installation of PC Companion on the computer.
- 💡 PC Companion can also be downloaded from *PC Companion*.

To download software updates using a USB cable connection

- 1 Install the PC Companion application on the computer you are using, if it is not already installed.
- 2 Connect your device to the computer using a USB cable.
- 3 **Computer:** Launch the PC Companion application. After a few moments, PC Companion detects your device and searches for new software for it.
- 4 **Device:** When notifications appear in the status bar, follow the on-screen instructions to carry out the relevant software updates.

To update your device using an Apple® Mac® computer

- 1 Install Sony™ Bridge for Mac application on the Apple® Mac® computer you are using, if it is not already installed.
 - 2 Using a USB cable, connect your device to the Apple® Mac® computer.
 - 3 **Computer:** Launch Sony™ Bridge for Mac application. After a few moments, Sony™ Bridge for Mac application detects your device and searches for new software for it.
 - 4 **Computer:** If a new software update is detected, a popup window appears. Follow the on-screen instructions to carry out the relevant software updates.
- ! Sony™ Bridge for Mac application is downloadable from *Bridge for mac*.

Resetting your device

About resetting your device

You can reset your device to its original settings, with or without deleting all of your personal data. It is possible to reset your device to the state it was in before you first turned it on. But before you perform a reset, make sure to back up any important data saved on your device.

To perform a factory data reset

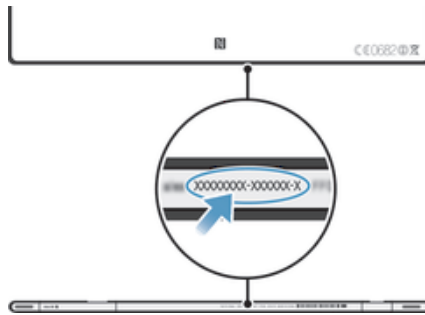
- ⚠️ To avoid permanent damage to your device, do not restart your device while a reset procedure is underway.
- 1 From your **Home screen**, tap **⋮**.
 - 2 Find and tap **Settings > Backup & reset**.
 - 3 Tap **Factory data reset**.
 - 4 If you also want to erase data such as pictures and music, which is saved to your device's internal storage, mark the **Erase internal storage** checkbox.
 - 5 Tap **Reset tablet**.
 - 6 To confirm, tap **Erase everything**.

Locking and protecting your device

IMEI number

Every device has a unique IMEI (International Mobile Equipment Identity) number. You should keep a copy of this number. If your device is stolen, your network provider can use your IMEI number to stop the device from accessing the network in your country.

To view your IMEI number



SIM card protection

The SIM card lock only protects your subscription. Your device will still work with a new SIM card. If the SIM card lock is on, you have to enter a PIN (Personal Identity Number). If you enter your PIN incorrectly more times than the maximum number of attempts allowed, your SIM card will become blocked. You need to enter your PUK (Personal Unblocking Key) and then a new PIN. Your PIN, PIN2 and PUK are supplied by your network operator.

To enable the SIM card PIN lock

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Security > Set up SIM card lock > Lock SIM card**.
- 3 Enter the SIM card PIN and tap **OK**.

To change the SIM card PIN

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Security > Set up SIM card lock > Change SIM PIN**.
- 3 Enter the old SIM card PIN and tap **OK**.
- 4 Enter the new SIM card PIN and tap **OK**.
- 5 Retype the new SIM card PIN and tap **OK**.

To change the SIM card PIN2

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Settings > Call settings > Fixed dialing numbers > Change PIN2**.
- 3 Enter the old SIM card PIN2 and tap **OK**.
- 4 Enter the new SIM card PIN2 and tap **OK**.
- 5 Confirm the new PIN2 and tap **OK**.

To unblock a locked SIM card

- 1 When **Enter PUK and new PIN code** appears, enter the PUK code.
 - 2 Enter a new PIN code and tap **OK**.
- ! If you enter an incorrect PUK code too many times, the SIM card becomes blocked. If this happens, contact your service provider to get a new SIM card.

Setting a screen lock

There are several ways to lock your device screen. For example, you can use the Face Unlock feature, which uses a picture of your face to unlock the screen. You can also set a screen unlock pattern, a number-based PIN lock, or a text-based password.

To set a screen lock

- 1 From your **Home screen**, tap **⋮ > Settings > Security > Screen lock**.
- 2 Select an option.

- 💡 It is very important that you remember your screen unlock pattern, PIN or password. If you forget this information, it may not be possible to restore important data such as contacts and messages. Refer to Sony Customer support for more information.

To set up the Face Unlock feature

- 1 From your **Home screen**, tap **⋮** > **Settings** > **Security** > **Screen lock**.
 - 2 Tap **Face Unlock**, then follow the instructions on your device to capture your face.
 - 3 After your face is successfully captured, tap **Continue**.
 - 4 Select a backup lock method and follow the instructions in the device to complete the setup.
- ! The Face Unlock feature is less secure than a screen lock pattern, PIN, or password. Someone who looks similar to you could unlock your device.
- 💡 For best results, capture your face in an indoor area that is well lit but not too bright, and hold the device at eye level.

To unlock the screen using the Face Unlock feature

- 1 Activate the screen.
 - 2 Look at your device from the same angle you used to capture your Face Unlock photo.
- 💡 If the Face Unlock feature fails to recognize your face, you need to draw the backup pattern or enter the PIN to unlock the screen.

To disable the Face Unlock feature

- 1 From your **Home screen**, tap **⋮** > **Settings** > **Security** > **Screen lock**.
- 2 Draw your backup screen unlock pattern or enter your PIN.
- 3 Tap **Slide**.

To create a screen unlock pattern

- 1 From the **Home screen**, tap **⋮**.
- 2 Find and tap **Settings** > **Security** > **Screen lock** > **Pattern**.
- 3 Follow the instructions in your device. You are asked to select a security question that will be used to unlock the device if you forget your screen unlock pattern.

To unlock the screen using a screen unlock pattern

- 1 Activate the screen.
 - 2 Draw your screen unlock pattern.
- ! If the unlock pattern you draw on the screen is rejected five times in a row, you can select to either wait 30 seconds and then try again, or to answer the security question you have selected.

To change the screen unlock pattern

- 1 From your **Home screen**, tap **⋮**.
- 2 Find and tap **Settings** > **Security** > **Screen lock**.
- 3 Draw your screen unlock pattern.
- 4 Tap **Pattern**.
- 5 Follow the instructions in your device.

To disable the screen unlock pattern

- 1 From your **Home screen**, tap **⋮** > **Settings** > **Security** > **Screen lock**.
- 2 Draw the screen unlock pattern.
- 3 Tap **Slide**.

To create a screen unlock PIN

- 1 From your **Home screen**, tap **⋮** > **Settings** > **Security** > **Screen lock** > **PIN**.
- 2 Enter a numeric PIN.
- 3 If necessary, tap **∨** to minimize the keyboard.
- 4 Tap **Continue**.
- 5 Re-enter and confirm your PIN.
- 6 If necessary, tap **∨** to minimize the keyboard.
- 7 Tap **OK**.

To disable the screen unlock PIN

- 1 From your **Home screen**, tap **⋮** > **Settings** > **Security** > **Screen lock**.
- 2 Enter your PIN, then tap **Next**.
- 3 Tap **Slide**.

To create a screen lock password

- 1 From your **Home screen**, tap **⋮** > **Settings** > **Security** > **Screen lock** > **Password**.
- 2 Enter a password.
- 3 If necessary, tap **∨** to minimize the keyboard.
- 4 Tap **Continue**.
- 5 Re-enter and confirm your password.
- 6 If necessary, tap **∨** to minimize the keyboard.
- 7 Tap **OK**.

To disable the screen unlock password

- 1 From your **Home screen**, tap **⋮** > **Settings** > **Security** > **Screen lock**.
- 2 Enter your password and tap **Continue**.
- 3 Tap **Slide**.

Support application

To access the support application

- 1 From your Application screen, find and tap **?**.
- 2 Find and tap the required support item.

Recycling your device

Got an old device lying around the house? Why not recycle it? By doing so, you will help us reuse its materials and components, and you'll protect the environment, too! Find out more about the recycling options in your region at blogs.sonymobile.com/about-us/sustainability/commitment/overview/.

Reference

Settings overview

Get to know the settings in your device so that you can personalize them to your own requirements.


Wi-Fi	Turn Wi-Fi® on or off, scan available Wi-Fi® networks, or connect to the Wi-Fi® network.
Bluetooth	Turn Bluetooth™ on or off; search for available Bluetooth™ devices; make your device visible or invisible to other Bluetooth™ devices; and pair your device to other Bluetooth™ devices.
Data usage	Keep track of your data usage details over a specified period of time. You can also turn on the auto-sync data function from the options menu.
More...	Turn Airplane mode on or off, configure settings for VPN and Media server, and enable or disable the NFC function.
Sound	Configure how your device alerts you when you receive communications. You can also use these settings to set the volume level for music, video, games, or other media with audio, and to make related adjustments.
Display	Set the brightness, font size, wallpaper and screen timeout. You can also change the theme in your device or change the wallpaper for the lockscreen.
Storage	Check out the available space on the internal storage and on the SD card. You can also unmount the SD card for safe removal.
Power management	View your battery status.
Apps	Manage running applications, downloaded applications and applications on the SD card.
Xperia™	Configure the USB connection mode, Internet settings and Throw settings. And if you ever lose your device, you can locate, lock, and/or erase your data with MyXperia™. You can also use Screen mirroring to show the screen of your device on a TV.
Location services	Enable or disable Google's location service and GPS satellites.
Security	Protect your device by setting up different locks and passwords. You can also allow the installation of applications not from Google Play™.
Language & input	Select the device language, adjust text input options, add words to the personal dictionary, and configure speech settings.
Backup & reset	Back up your data and reset your device.
Setup guide	Get help setting up your device.
Add account	Add an account to your device, for example, an email account, or a Google™ account.
Date & time	Set the time and date, or choose the network-provided values. Select your preferred date and hour format.
Accessibility	Enable your installed accessibility services and adjust related settings.

Developer options	Set options for application development. For example, you can display CPU usage on the Home screen or set your device to enter debug mode when USB connections are active.
About phone	View information about your device, such as the model number. You can also update your software to the latest version.

Status and notification icons overview




Status icons









The following status icons may appear on your screen:

	Signal strength
	No signal
	Roaming
	GPRS is available
	EDGE is available
	NFC is activated
	3G is available
	Sending and downloading GPRS data
	Sending and downloading EDGE data
	Sending and downloading 3G data
	Battery status
	The battery is charging
	GPS is activated
	Airplane mode is activated
	The Bluetooth™ function is activated
	The SIM card is not inserted
	The microphone is muted
	The speakerphone is on
	Silent mode
	An alarm is set
	Synchronization is ongoing
	Problem with sign-in or synchronization
	A Wi-Fi® connection is enabled and wireless networks are available

Notification icons

The following notification icons may appear on your screen:

	New email message
	New text message or multimedia message
	An upcoming calendar event

	A song is playing
	The device is connected to a computer via a USB cable
	Warning message
	Error message
	Software updates available
	Downloading data
	Uploading data
	More (undisplayed) notifications

Application overview

	Use the Alarm and clock application to set various kinds of alarms.
	Use your web browser to navigate and view web pages, manage bookmarks, and manage text and images.
	Use the Calculator application to perform basic calculations.
	Use the Calendar application to keep track of your events and manage your appointments.
	Use the camera to take photos and record video clips.
	Access your downloaded applications.
	Use the Email application to send and receive emails through both private and corporate accounts.
	Use the Facebook application to engage in social networking with friends, family members, and colleagues around the world.
	Browse and listen to FM radio stations.
	Use the Album application to view and to work with your photos and videos.
	Use the Gmail™ application to read, write, and organize email messages.
	Search for information in your device and on the web.
	View your current location, find other locations, and calculate routes using Google Maps™.
	Go to Google Play™ to download free and paid applications for your device.
	Use the Movies application to play videos in your device, and share videos with your friends or on other devices using DLNA™.
	Use the “WALKMAN” application to organize and play music, audio books, and podcasts.
	Navigate your way using spoken, turn-by-turn instructions.
	View news stories and weather forecasts.
	Search for places, for example, restaurants and cafés.
	Use the Video Unlimited™ application to rent and purchase videos.
	Use the subscription-based Music Unlimited™ application to access millions of songs over Wi-Fi® connection.



Optimize settings to suit your own requirements.



Use the Google Talk™ application to chat with friends online.



Identify music tracks that you hear playing in your surroundings, and get artist, album, and other info.



Use the Support application to access user support in the device. For example, you can access a User guide, troubleshooting information, plus tips and tricks.



Use YouTube™ to share and view videos from around the world.



Download and install new applications and updates.

! Some applications are not supported by all networks and/or service providers in all areas.

Important information

Important information leaflet

Before you use your device, please read the *Important information* leaflet provided in the Setup guide in your device or in the box.

To access the setup guide manually

- 1 From the **Home screen**, tap **⋮**.
- 2 Tap **Settings > Setup guide**.

Limitations to services and features

- ! Some of the services and features described in this user guide are not supported in all countries/regions or by all networks and/or service providers in all areas. Without limitation, this applies to the GSM International Emergency Number, 112. Please contact your network operator or service provider to determine availability of any specific service or feature and whether additional access or usage fees apply.

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 from your phone. Contact your wireless service provider for more information.

Water resistance

In order for your device to be water resistant, the covers for the micro USB port, the microSD card, the micro SIM card and the headset connector must be firmly closed.

Avoid exposing your device to environments with excessive dust or moisture. Normal wear and tear along with damage to your device can reduce its ability to resist dust or moisture. Do not use your device in the following conditions:



Ocean water



Swimming pool



Diving



Hot water



Sand/mud



Other liquid
chemicals

Never submerge the device, the micro USB port, the microSD card, the micro SIM card or the headset connector in water, expose the device to any liquid chemicals, or expose your device to moist environments with extreme high or low temperatures. If water or liquid gets on the micro USB port, the microSD card, the micro SIM card and the headset connector, wipe it off with a dry cloth. The water resistance of the micro USB port, the microSD card, the micro SIM card and the headset connector is not guaranteed in all environments or conditions.

If water gets on the speaker, dry the speaker for approximately three hours before using it again.

All compatible accessories, including batteries, chargers, handsfree devices, micro USB cables, micro SIM cards and microSD™ cards are not dust and water resistant on their own.

Your warranty does not cover damage or defects caused by abuse or improper use of your device. If you have any further questions about the use of your products, refer to our Customer support service for help.

IP (Ingress Protection) rating

Your device has an IP rating, which means it has undergone certified tests to measure its resistance levels to both dust and water. The first digit in the two-digit IP rating indicates the level of protection against solid objects, including dust. The second digit indicates how resistant the device is to water. The higher the numbers, the higher the respective protection.

The IP ratings of your device are IPX5, IPX7, and IP5X. This means that your device is dust protected and is protected against the effects of immersion and low pressure water stream. So you can use the device in extreme weather conditions, for example, when it's snowing or raining, or when humidity levels are high. You can also use the device in dusty or sandy environments, and when your fingers are wet. See the table for more details.

Resistance to solid objects and dust	Resistance to water
IP0X. No special protection	IPX0. No special protection
IP1X. Protected against solid objects > 50 mm in diameter	IPX1. Protected against dripping water
IP2X. Protected against solid objects > 12.5 mm in diameter	IPX2. Protected against dripping water when tilted up to 15 degrees from normal position
IP3X. Protected against solid objects > 2.5 mm in diameter	IPX3. Protected against spraying water
IP4X. Protected against solid objects > 1 mm in diameter	IPX4. Protected against splashing water
IP5X. Protected against dust; limited ingress (no harmful deposit)	IPX5. Protected against water jet spray
IP6X. Dust tight	IPX6. Protected against heavy jet spray
	IPX7. Protected against the effects of immersion
	IPX8. Protected against submersion

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Sony SGP321/SGP351

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