



Raven

User Guide

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1 About this user guide



Important: For important information on the safe use of your device and battery, read “Product and safety information” before you take the device into use. To find out how to get started with your new device, read the user guide.

2 Get started

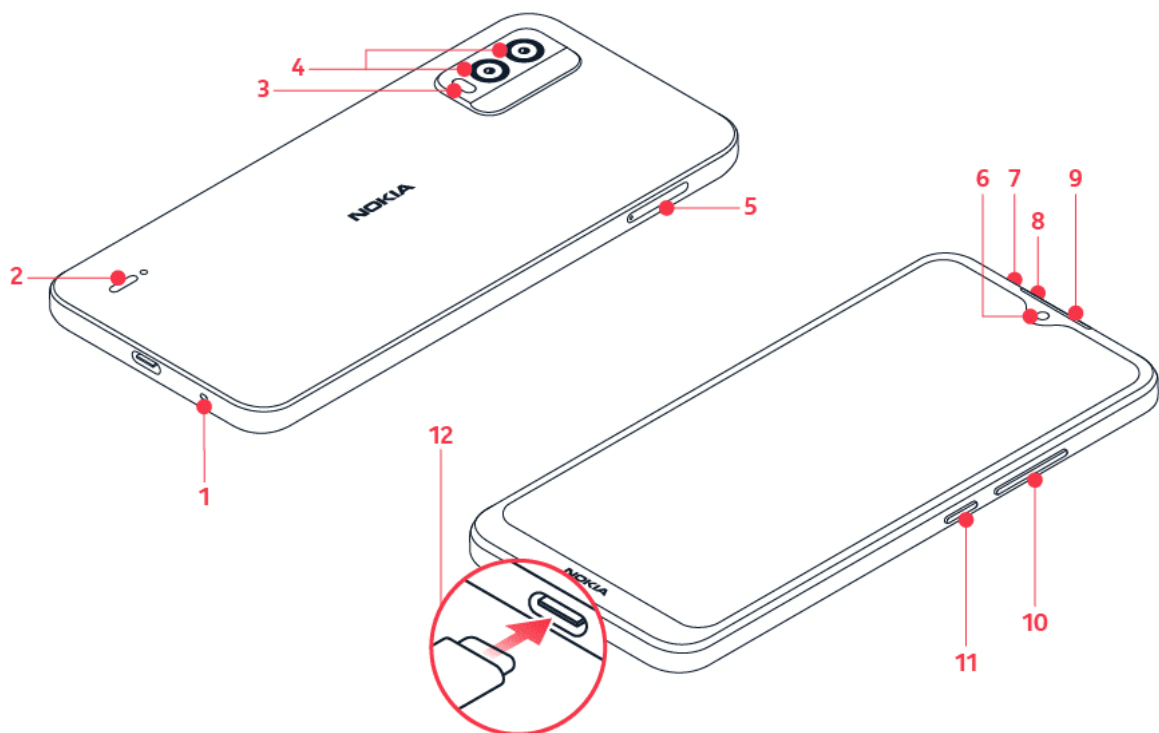
KEEP YOUR PHONE UP TO DATE

Your phone software

Keep your phone up to date and accept available software updates to get new and enhanced features for your phone. Updating the software may also improve your phone's performance.

KEYS AND PARTS

Your phone



This user guide applies to the following model: TA-1584.

- | | |
|-----------------------------|----------------------|
| 1. Microphone | 7. Microphone |
| 2. Loudspeaker | 8. Headset connector |
| 3. Flash | 9. Earpiece |
| 4. Camera | 10. Volume keys |
| 5. SIM and memory card slot | 11. Power/Lock key |
| 6. Front camera | 12. USB connector |

Some of the accessories mentioned in this user guide, such as charger, headset, or data cable, may be sold separately.

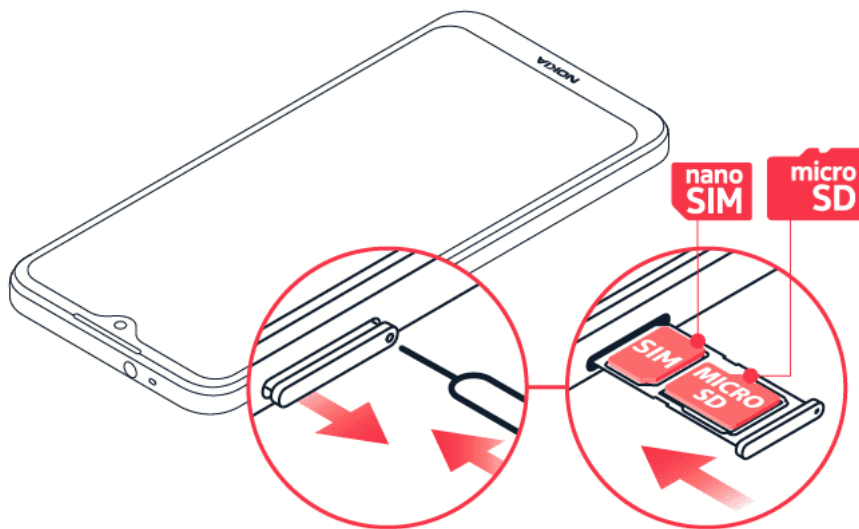
Parts and connectors, magnetism

Do not connect to products that create an output signal, as this may damage the device. Do not connect any voltage source to the audio connector. If you connect an external device or headset, other than those approved for use with this device, to the audio connector, pay special attention to volume levels.

Parts of the device are magnetic. Metallic materials may be attracted to the device. Do not place credit cards or other magnetic stripe cards near the device for extended periods of time, since the cards may be damaged.

INSERT THE SIM AND MEMORY CARDS

Insert the cards



1. Open the SIM and memory card tray: push the tray opener pin in the tray hole and slide the tray out.
2. Put a nano-SIM card in the SIM slot on the tray with the contact area face down.
3. If you have a memory card, put it in the memory card slot.
4. Slide the tray back in.

Use only original nano-SIM cards. Use of incompatible SIM cards may damage the card or the device, and may corrupt data stored on the card.

Use only compatible memory cards approved for use with this device. Incompatible cards may damage the card and the device and corrupt data stored on the card.



Important: Do not remove the memory card when an app is using it. Doing so may damage the memory card and the device and corrupt data stored on the card.



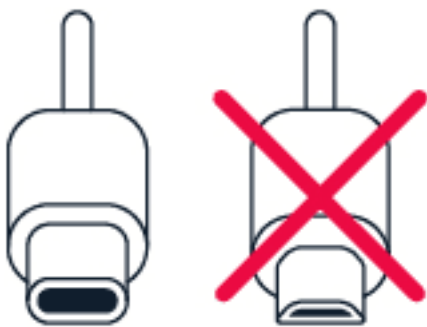
Tip: Use a fast, up to 512 GB microSD memory card from a well-known manufacturer.



Note: Pre-installed system software and apps use a significant part of memory space.

CHARGE YOUR PHONE

Charge the battery



1. Plug a compatible charger into a wall outlet.
2. Connect the cable to your phone.

Your phone supports the USB-C cable. You can also charge your phone from a computer with a USB cable, but it may take a longer time.

If the battery is completely discharged, it may take several minutes before the charging indicator is displayed.

SWITCH ON AND SET UP YOUR PHONE

Switch on your phone

When you switch your phone on for the first time, your phone guides you to set up your network connections and phone settings.

1. Press and hold the power key.
2. Choose your language and region.
3. Follow the instructions shown on your phone.

Transfer data from your previous phone

You can transfer data from an old phone to your new phone using your Google account.

To back up data on your old phone to your Google account, refer to your old phone's user guide.

Restore app settings from your previous Android™ phone

If your previous phone was an Android, and you had set it to back up data to your Google account, you can restore your app settings and passwords.

1. Tap **Settings** > **Passwords & accounts** > **Add account** > **Google**.
2. Select which data you want to restore on your new phone. The sync starts automatically once your phone is connected to the internet.

Switch off your phone

To switch off your phone, press the power key and the volume up key at the same time, and select **Power off**.



Tip: If you want to switch off your phone by pressing and holding the power key, tap **Settings** > **System** > **Gestures** > **Press and hold power button** and switch off **Hold for Assistant**.

USE THE TOUCH SCREEN

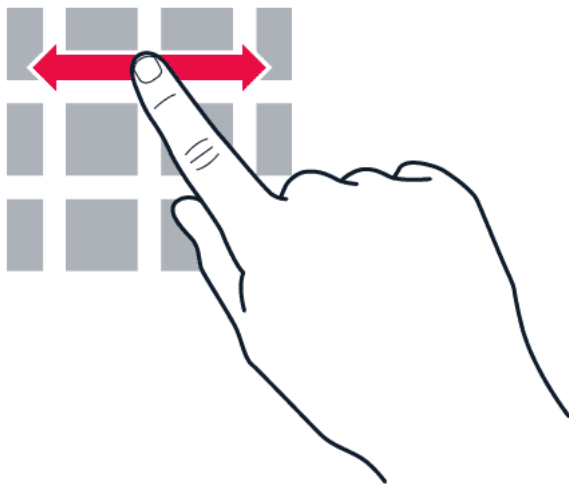
Important: Avoid scratching the touch screen. Never use an actual pen, pencil, or other sharp object on the touch screen.

Tap and hold to drag an item



Place your finger on the item for a couple of seconds, and slide your finger across the screen.

Swipe



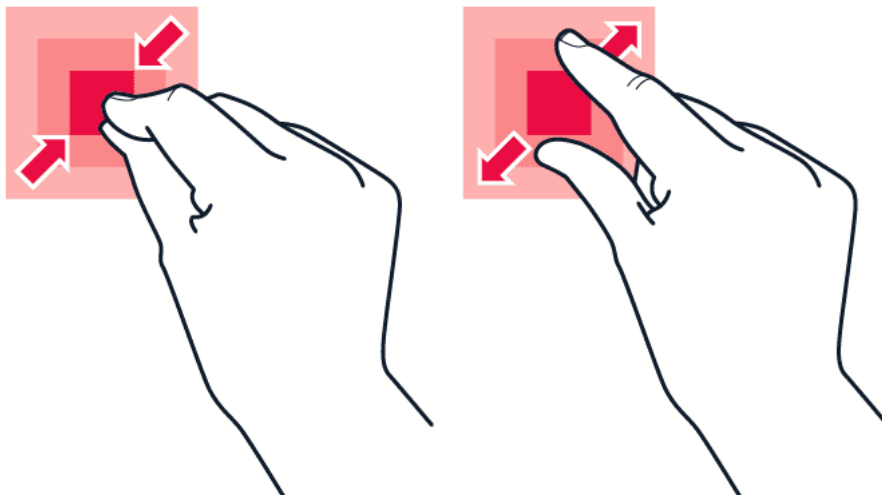
Place your finger on the screen, and slide your finger in the direction you want.

Scroll through a long list or menu



Slide your finger quickly in a flicking motion up or down the screen, and lift your finger. To stop the scrolling, tap the screen.

Zoom in or out



Place 2 fingers on an item, such as a map, photo, or web page, and slide your fingers apart or together.

Lock the screen orientation

The screen rotates automatically when you turn the phone 90 degrees.

To lock the screen in portrait mode, swipe down from the top of the screen, and tap **Auto-rotate** > **Off**.

Navigate with gestures

To switch on using gesture navigation, tap **Settings** > **System** > **Gestures** > **System navigation** > **Gesture navigation**.

- To see all your apps, on the home screen, swipe up on the screen.
- To go to the home screen, swipe up from the bottom of the screen. The app you were in stays open in the background.
- To see which apps you have open, swipe up from the bottom of the screen without releasing your finger until you see the apps, and then release your finger. To switch to another open app, tap the app. To close all the open apps, swipe right through all the apps and tap **CLEAR ALL**.
- To go back to the previous screen you were in, swipe from the right or left edge of the screen. Your phone remembers all the apps and websites you've visited since the last time your screen was locked.

Navigate with keys

To switch on the navigation keys, tap **Settings** > **System** > **Gestures** > **System navigation** > **3-button navigation**.

- To see all your apps, on the home screen, swipe up from the bottom of the screen.
- To go to the home screen, tap . The app you were in stays open in the background.
- To see which apps you have open, tap . To switch to another open app, swipe right and tap the app. To close all the open apps, swipe right through all the apps and tap **CLEAR ALL**.
- To go back to the previous screen you were in, tap . Your phone remembers all the apps and websites you've visited since the last time your screen was locked.

3 Protect your phone

LOCK OR UNLOCK YOUR PHONE

Lock your phone

If you want to avoid accidentally making a call when your phone is in your pocket or bag, you can lock your keys and screen.

To lock your keys and screen, press the power key.

Unlock the keys and screen

Press the power key, and swipe up across the screen. If asked, provide additional credentials.

PROTECT YOUR PHONE WITH A SCREEN LOCK

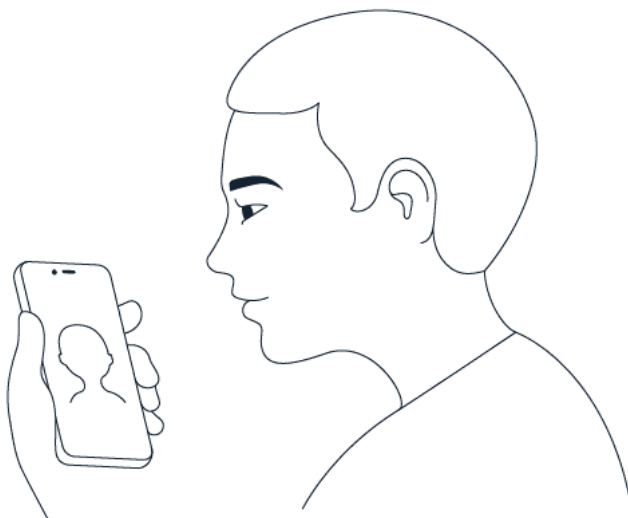
You can set your phone to require authentication when unlocking the screen.

Set a screen lock

1. Tap **Settings** > **Security** > **Screen lock**.
2. Choose the type of lock and follow the instructions on your phone.

PROTECT YOUR PHONE WITH YOUR FACE

Set up face authentication



1. Tap **Settings** > **Security** > **Face unlock**.
2. Select what backup unlocking method you want to use for the lock screen and follow the instructions shown on your phone.

Keep your eyes open and make sure your face is fully visible and not covered by any object, such as a hat or sunglasses.

Note: Using your face to unlock your phone is less secure than using a pattern or a password. Your phone may be unlocked by someone or something with similar appearance. Face unlock may not work properly in backlight or too dark or bright environment.

Unlock your phone with your face

To unlock your phone, just turn your screen on and look at the front camera.

If there is a facial recognition error, and you cannot use alternative sign-in methods to recover or reset the phone in any way, your phone will require service. Additional charges may apply, and all the personal data on your phone may be deleted. For more info, contact the nearest authorized service facility for your phone, or your phone dealer.

FIND YOUR LOST PHONE

Locate or lock your phone

If you lose your phone, you may be able to find, lock, or erase it remotely if you have signed in to a Google Account. Find My Device is on by default for phones associated with a Google Account.

To use Find My Device, your lost phone must be:

- Turned on
- Signed in to a Google Account
- Connected to mobile data or Wi-Fi
- Visible on Google Play
- Location turned on
- Find My Device turned on

When Find My Device connects with your phone, you see the phone's location, and the phone gets a notification.

1. Open android.com/find on a computer, tablet or phone connected to the internet and sign in to your Google Account.
2. If you have more than one phone, click the lost phone at the top of the screen.
3. On the map, see about where the phone is. The location is approximate and may not be accurate.

If your device can't be found, Find My Device will show its last known location, if available. To lock or erase your phone, follow the instructions on the web site.

4 Basics

PERSONALIZE YOUR PHONE

Change your wallpaper

Tap **Settings** > **Wallpaper**.

Change your phone ringtone

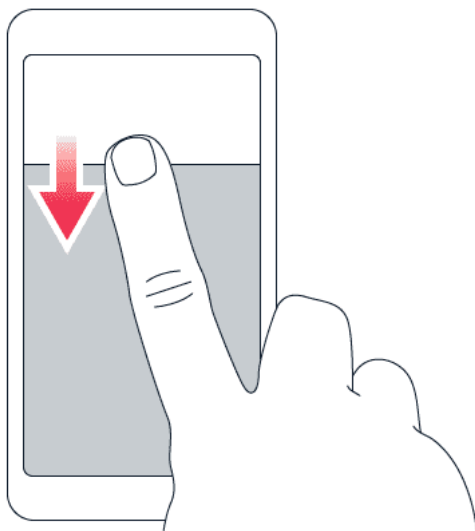
Tap **Settings** > **Sound & vibration** > **Phone ringtone SIM1** or **Phone ringtone SIM2**, and select the tone.

Change your message notification sound

Tap **Settings** > **Sound & vibration** > **Default notification sound**.

NOTIFICATIONS

Use the notification panel

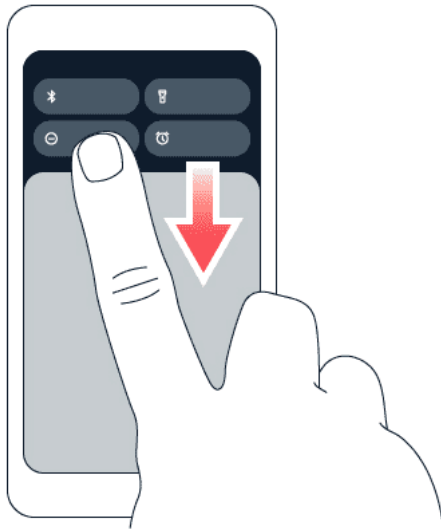


When you receive new notifications, such as messages or missed calls, icons appear at the top of the screen.

To see more information about the notifications, swipe down from the top of the screen. To close the view, swipe up on the screen.

To change the notification settings of an app, tap **Settings** > **Notifications** > **App settings** > **Most recent** > **All apps**, and switch the app's notifications on or off.

Use the quick access items



To activate features, tap the corresponding quick access item on the notification panel. To see more items, drag the menu down. To rearrange or add new items, tap , tap and hold an item, and then drag it to another location.

CONTROL VOLUME

Change the volume

If you have trouble hearing your phone ringing in noisy environments, or calls are too loud, you can change the volume to your liking by using the volume keys on the side of your phone.

Do not connect to products that create an output signal, as this may damage the device. Do not connect any voltage source to the audio connector. If you connect an external device or headset, other than those approved for use with this device, to the audio connector, pay special attention to volume levels.

Change the volume for media and apps

1. Press a volume key to see the volume level bar.
2. Tap .
3. Drag the slider on the volume level bars left or right.
4. Tap **DONE**.

Set the phone to silent

1. Press a volume key.
2. Tap .
3. Tap  to set your phone to vibrate only, or tap  to set it to silent.

AUTOMATIC TEXT CORRECTION

Use keyboard word suggestions

Your phone suggests words as you write, to help you write quickly and more accurately. Word suggestions may not be available in all languages.

When you start writing a word, your phone suggests possible words. When the word you want is shown in the suggestion bar, select the word. To see more suggestions, tap and hold the suggestion.



Tip: If the suggested word is marked in bold, your phone automatically uses it to replace the word you wrote. If the word is wrong, tap and hold it to see a few other suggestions. If you do not want the keyboard to suggest words while typing, turn off the text corrections. Tap **Settings** > **System** > **Languages & input** > **On-screen keyboard**. Select the keyboard you normally use. Tap **Text correction** and switch off the text correction methods you do not want to use.

Correct a word

If you notice that you have misspelled a word, tap it to see suggestions for correcting the word.

Switch spell checker off

Tap **Settings** > **System** > **Languages & input** > **Spell checker**, and switch **Use spell checker** off.

BATTERY LIFE

Extend battery life

To save power:

1. Always charge the battery fully.
2. Mute unnecessary sounds, such as touch sounds. Tap **Settings** > **Sound & vibration**, and select which sounds to keep.
3. Use wired headphones, rather than the

loudspeaker.

4. Set the phone screen to switch off after a short time. Tap **Settings** > **Display** > **Screen timeout** and select the time.
5. Tap **Settings** > **Display** > **Brightness level**. To adjust the brightness, drag the brightness level slider. Make sure that **Adaptive brightness** is switched off.
6. Stop apps from running in the background.
7. Use location services selectively: switch location services off when you don't need them. Tap **Settings** > **Location**, and switch off **Use location**.
8. Use network connections selectively: Switch Bluetooth on only when needed. Use a Wi-Fi connection to connect to the internet, rather than a mobile data connection. Stop your phone scanning for available wireless networks. Tap **Settings** > **Network & internet** > **Internet**, and switch off **Wi-Fi**. If you're listening to music or otherwise using your phone, but don't want to make or receive calls, switch the airplane mode on. Tap **Settings** > **Network & internet**, and switch on **Airplane mode**. Airplane mode closes connections to the mobile network and switches your device's wireless features off.

ACCESSIBILITY

Make the text and items on the screen larger

1. Tap **Settings** > **Accessibility** > **Display size and text**.
2. Tap the font size slider until the text size is to your liking.
3. Tap the display size slider until the size is to your liking.

5 Connect with your friends and family

CALLS

Make a call

1. Tap .
2. Tap  and type in a number, or tap  and select a contact you want to call.
3. Tap .

Answer a call

If your phone rings when the screen is unlocked, tap **ANSWER**. If your phone rings when the screen is locked, swipe up to answer.

Reject a call

If your phone rings when the screen is unlocked, tap **DECLINE**. If your phone rings when the screen is locked, swipe down to reject the call.

CONTACTS

Add a contact

1. Tap **Contacts** > **+**.
2. Fill out the information.
3. Tap **SAVE**.

Save a contact from call history

1. Tap  >  to see your call history.
2. Tap the number you want to save.
3. If this is a new contact, tap **Create new contact**, type in the contact information, and tap **SAVE**. If this contact is already in your contacts list, tap **Add to a contact**, select the contact, and tap **SAVE**.

SEND MESSAGES

Send a message

1. Tap **Messages**.
2. Tap **Start chat**.
3. To add a recipient, tap , type in their number, and tap . To add a recipient from your contacts list, start typing their name and tap the contact.
4. To add more recipients, tap . After choosing all the recipients, tap **Next**.
5. Write your message in the text box.
6. Tap .

MAIL

You can send mail with your phone when you're on the go.

Add a mail account

When you use the Gmail app for the first time, you are asked to set up your email account.

1. Tap **Gmail**.
2. You can select the address connected with your Google account or tap **Add an email address**.
3. After adding all the accounts, tap **TAKE ME TO GMAIL**.

Send mail

1. Tap **Gmail**.
2. Tap .
3. In the **To** box, type in an address, or tap  > **Add from Contacts**.
4. Type in the message subject and the mail.
5. Tap .

6 Camera

CAMERA BASICS

Take a photo

Shoot sharp and vibrant photos – capture the best moments in your photo album.

1. Tap **Camera**.
2. Take aim and focus.
3. Tap .



Keep a safe distance when using the flash. Do not use the flash on people or animals at close range. Do not cover the flash while taking a photo.

Take a selfie

1. Tap **Camera** >  to switch to the front camera.
2. Tap .

Record a video

1. Tap **Camera**.
2. To switch to the video recording mode, tap **Video**.
3. Tap  to start recording.
4. To stop recording, tap .
5. To go back to camera mode, tap **Photo**.

YOUR PHOTOS AND VIDEOS

View photos and videos on your phone

Tap **Photos**.

Share your photos and videos

1. Tap **Photos**, tap the photo you want to share and tap .
2. Select how you want to share the photo or video.

Copy your photos and videos to your computer

Connect your phone to your computer with a compatible USB cable. Use your computer's file manager to copy or move your photos and videos to the computer.

7 Internet and connections

ACTIVATE WI-FI

Switch on Wi-Fi

1. Tap **Settings** > **Network & internet** > **Internet**.
2. Switch **Wi-Fi** on.
3. Select the network you want to use.

Your Wi-Fi connection is active when  is shown at the top of the screen. If both Wi-Fi and mobile data connections are available, your phone uses the Wi-Fi connection.

Important: Use encryption to increase the security of your Wi-Fi connection. Using encryption reduces the risk of others accessing your data.

BROWSE THE WEB

Search the web

1. Tap **Chrome**.
2. Write a search word or a web address to the search field.
3. Tap , or select from the proposed matches.



Tip: If your network service provider doesn't charge you a fixed fee for data transfer, to save on data costs, use a Wi-Fi network to connect to the internet.

Use your phone to connect your computer to the web

Use your mobile data connection to access the internet with your laptop or other device.

1. Tap **Settings** > **Network & internet** > **Hotspot & tethering**.
2. Switch on **Wi-Fi hotspot** to share your mobile data connection over Wi-Fi, **USB tethering** to use a USB connection, **Bluetooth tethering** to use Bluetooth, or **Ethernet tethering** to use a USB Ethernet cable connection.

The other device uses data from your data plan, which may result in data traffic costs. For info on availability and costs, contact your network service provider.

BLUETOOTH®

Connect to a Bluetooth device

1. Tap **Settings** > **Connected devices** > **Connection preferences** > **Bluetooth**.
2. Switch **Use Bluetooth** on.
3. Make sure the other device is switched on. You may need to start the pairing process from the other device. For details, see the user guide for the other device.
4. Tap **Pair new device** and tap the device you want to pair with from the list of discovered Bluetooth devices.
5. You may need to type in a passcode. For details, see the user guide for the other device.

Since devices with Bluetooth wireless technology communicate using radio waves, they do not need to be in direct line-of-sight. Bluetooth devices must, however, be within 10 meters (33 feet) of each other, although the connection may be subject to interference from obstructions such as walls or from other electronic devices.

Paired devices can connect to your phone when Bluetooth is switched on. Other devices can detect your phone only if the Bluetooth settings view is open.

Do not pair with or accept connection requests from an unknown device. This helps to protect your phone from harmful content.

Share your content using Bluetooth

If you want to share your photos or other content with a friend, send them to your friend's phone using Bluetooth.

You can use more than one Bluetooth connection at a time. For example, while using a Bluetooth headset, you can still send things to another phone.

1. Tap **Settings** > **Connected devices** > **Connection preferences** > **Bluetooth**.
2. Make sure Bluetooth is switched on in both phones and the phones are visible to each other.
3. Go to the content you want to send, and tap  > **Bluetooth**.
4. On the list of found Bluetooth devices, tap your friend's phone.
5. If the other phone needs a passcode, type in or accept the passcode, and tap **PAIR**.

The passcode is only used when you connect to something for the first time.

Remove a pairing

If you no longer have the device with which you paired your phone, you can remove the pairing.

1. Tap **Settings** > **Connected devices** > **Previously connected devices**.
2. Tap  next to a device name.
3. Tap **FORGET**.

VPN

You may need a virtual private network (VPN) connection to access your company resources, such as intranet or corporate mail, or you may use a VPN service for personal purposes.

Contact your company IT administrator for details of your VPN configuration, or check your VPN service's website for additional info.

Use a secure VPN connection

1. Tap **Settings** > **Network & internet** > **VPN**.
2. To add a VPN profile, tap **+**.
3. Type in the profile info as instructed by your company IT administrator or VPN service.

Edit a VPN profile

1. Tap  next to a profile name.
2. Change the info as required.

Delete a VPN profile

1. Tap  next to a profile name.
2. Tap **FORGET**.

8 Organize your day

DATE AND TIME

Set date and time

Tap **Settings** > **System** > **Date & time**.

Update the time and date automatically

You can set your phone to update the time, date, and time zone automatically. Automatic update is a network service and may not be available depending on your region or network service provider.

1. Tap **Settings** > **System** > **Date & time**.
2. Switch on **Set time automatically**.
3. Switch on **Set time zone automatically**.

Change the clock to the 24-hour format

Tap **Settings** > **System** > **Date & time**, and switch **Use 24-hour format** on.

ALARM CLOCK

Set an alarm

1. Tap **Clock** > **Alarm**.
2. To add an alarm, tap **+**.
3. Select the hour and the minutes, and tap **OK**.
4. To set the alarm to repeat on specific days, tap the corresponding weekdays.

Switch an alarm off

When the alarm sounds, swipe the alarm right.

CALENDAR

Select the calendar type

Tap **Calendar** > ≡, and select what type of calendar you want to see.

If you have signed into an account, such as your Google account, your calendar is shown on the phone.

Add an event

1. Tap **Calendar** > +.
2. Add the needed details.
3. To make the event repeat on certain days, tap **Does not repeat**, and select how often the event should repeat.
4. To set a reminder, tap **Add notification** and set the time.
5. Tap **Save**.



Tip: To edit an event, tap the event and ✎, and edit the details.

Delete an appointment

1. Tap the event.
2. Tap ⋮ > **Delete**.

9 Maps

FIND PLACES AND GET DIRECTIONS

Find a spot

Google Maps helps you find specific locations and businesses.

1. Tap **Maps**.
2. Write search words, such as a street address or place name, in the search bar.
3. Select an item from the list of proposed matches as you write, or tap 🔍 to search.

The location is shown on the map. If no search results are found, make sure the spelling of your search words is correct.

See your current location

Tap **Maps** > 📍.

Get directions to a place

1. Tap **Maps** and enter your destination in the search bar.
2. Tap **Directions**. The highlighted icon shows the mode of transportation, for example 🚗. To change the mode, select the new mode under the search bar.
3. If you don't want the starting point to be your current location, tap **Your location**, and search for a new starting point.
4. Tap **Start** to start the navigation.

The route is shown on the map, along with an estimate of how long it takes to get there. To see detailed directions, tap **Steps**.

10 Apps, updates, and backups

GET APPS FROM GOOGLE PLAY

Add a payment method

To use Google Play services, you need to have a Google account added to your phone. Charges may apply to some of the content available in Google Play. To add a payment method, tap **Play Store**, tap your Google logo in the search field, and then tap **Payments & subscriptions**. Always be sure to have a permission from the payment method owner when buying content from Google Play.

Download apps

1. Tap **Play Store**.
2. Tap the search bar to look for apps, or select apps from your recommendations.
3. In the app description, tap **Install** to download and install the app.

To see your apps, go to the home screen and swipe up from the bottom of the screen.

UPDATE YOUR PHONE SOFTWARE

Install available updates

Tap **Settings** > **System** > **System update** > **Check for update** to check if updates are available.

When your phone notifies you that an update is available, just follow the instructions shown on your phone. If your phone is low on memory, you may need to move your photos and other stuff to the memory card.

Before starting the update, connect a charger or make sure the device battery has enough power, and connect to Wi-Fi, as the update packages may use up a lot of mobile data.

BACK UP YOUR DATA

To ensure your data is safe, use the backup feature in your phone. Your device data (such as Wi-Fi passwords and call history) and app data (such as settings and files stored by apps) will be backed up remotely.

Switch on automatic backup

Tap **Settings** > **System** > **Backup**, and switch back up on.

RESTORE ORIGINAL SETTINGS AND REMOVE PRIVATE CONTENT FROM YOUR PHONE

Reset your phone

1. Tap **Settings** > **System** > **Reset options** > **Erase all data (factory reset)**.
2. Follow the instructions shown on your phone.

11 Product and safety information

FOR YOUR SAFETY

Read these simple guidelines. Not following them may be dangerous or against local laws and regulations. For further info, read the complete user guide.

SWITCH OFF IN RESTRICTED AREAS



Switch the device off when mobile device use is not allowed or when it may cause interference or danger, for example, in aircraft, in hospitals or near medical equipment, fuel, chemicals, or blasting areas. Obey all instructions in restricted areas.

ROAD SAFETY COMES FIRST



Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.

INTERFERENCE



All wireless devices may be susceptible to interference, which could affect performance.

AUTHORIZED SERVICE



Only authorized personnel may install or repair this product.

BATTERIES, CHARGERS, AND OTHER ACCESSORIES



Use only batteries, chargers, and other accessories approved by HMD Global Oy for use with this device. Do not connect incompatible products.

KEEP YOUR DEVICE DRY



If your device is water-resistant, see its IP rating in the device's technical specifications for more detailed guidance.

GLASS PARTS



The device and/or its screen is made of glass. This glass can break if the device is dropped on a hard surface or receives a substantial impact. If the glass breaks, do not touch the glass parts of the device or attempt to remove the broken glass from the device. Stop using the device until the glass is replaced by authorized service personnel.

PROTECT YOUR HEARING



To prevent possible hearing damage, do not listen at high volume levels for long periods. Exercise caution when holding your device near your ear while the loudspeaker is in use.

NETWORK SERVICES AND COSTS

Using some features and services, or downloading content, including free items, require a network connection. This may cause the transfer of large amounts of data, which may result in data costs. You may also need to subscribe to some features.



Important: 4G/LTE might not be supported by your network service provider or by the service provider you are using when traveling. In these cases, you may not be able to make or receive calls, send or receive messages or use mobile data connections. To make sure your device works seamlessly when full 4G/LTE service is not available, it is recommended that you change the highest connection speed from 4G to 3G. To do this, on the home screen, tap **Settings** > **Network & Internet** > **SIMs**, and switch **Preferred network type** to **3G**. For more info, contact your network service provider.

EMERGENCY CALLS



Important: Connections in all conditions cannot be guaranteed. Never rely solely on any wireless phone for essential communications like medical emergencies.

Before making the call:

- Switch the phone on.
- If the phone screen and keys are locked, unlock them.
- Move to a place with adequate signal strength.

On the home screen, tap .

1. Type in the official emergency number for your present location. Emergency call numbers vary by location.
2. Tap .
3. Give the necessary info as accurately as possible. Do not end the call until given permission to do so.

You may also need to do the following:

- Put a SIM card in the phone. If you don't have a SIM card, on the lock screen, tap **Emergency call**.
- If your phone asks for a PIN code, tap **Emergency call**.
- Switch the call restrictions off in your phone, such as call barring, fixed dialling, or closed user group.
- If the mobile network is not available, you may also try making an internet call, if you can access the internet.

TAKE CARE OF YOUR DEVICE

Handle your device, battery, charger and accessories with care. The following suggestions help you keep your device operational.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that corrode electronic circuits.
- Do not use or store the device in dusty or dirty areas.
- Do not store the device in high temperatures. High temperatures may damage the device or battery.

- Do not store the device in cold temperatures. When the device warms to its normal temperature, moisture can form inside the device and damage it.
- Do not open the device other than as instructed in the user guide.
- Unauthorized modifications may damage the device and violate regulations governing radio devices.
- Do not drop, knock, or shake the device or the battery. Rough handling can break it.
- Only use a soft, clean, dry cloth to clean the surface of the device.
- Do not paint the device. Paint can prevent proper operation.
- Keep the device away from magnets or magnetic fields.
- To keep your important data safe, store it in at least two separate places, such as your device, memory card, or computer, or write down important info.

During extended operation, the device may feel warm. In most cases, this is normal. To avoid getting too warm, the device may automatically slow down, dim display during a video call, close apps, switch off charging, and if necessary, switch itself off. If the device is not working properly, take it to the nearest authorized service facility.

RECYCLE



Always return your used electronic products, batteries, and packaging materials to dedicated collection points. This way you help prevent uncontrolled waste disposal and promote the recycling of materials. Electrical and electronic products contain a lot of valuable materials, including metals (such as copper, aluminum, steel, and magnesium) and precious metals (such as gold, silver, and palladium). All materials of the device can be recovered as materials and energy.

CROSSED-OUT WHEELIE BIN SYMBOL

Crossed-out wheelie bin symbol



The crossed-out wheelie-bin symbol on your product, battery, literature, or packaging reminds you that all electrical and electronic products and batteries must be taken to separate collection at the end of their working life. Remember to remove personal data from the device first. Do not dispose of these products as unsorted municipal waste: take them for recycling. For info on your nearest recycling point, check with your local waste authority, or read about HMD's take-back program and its availability in your country at www.nokia.com/phones/support/topics/recycle.

BATTERY AND CHARGER INFORMATION

Battery and charger info

To check if your phone has a removable or non-removable battery, see the printed guide.

Devices with a removable battery Use your device only with an original rechargeable battery. The battery can be charged and discharged hundreds of times, but it will eventually wear out. When the talk and standby times are noticeably shorter than normal, replace the battery.

Devices with a non-removable battery Do not attempt to remove the battery, as you may damage the device. The battery can be charged and discharged hundreds of times, but it will eventually wear out. When the talk and standby times are noticeably shorter than normal, to replace the battery, take the device to the nearest authorized service facility.

Charge your device with a compatible charger. Charger plug type may vary. Charging time can vary depending on device capability.

Battery and charger safety info

Once charging of your device is complete, unplug the charger from the device and electrical outlet. Please note that continuous charging should not exceed 12 hours. If left unused, a fully charged battery will lose its charge over time.

Extreme temperatures reduce the capacity and lifetime of the battery. Always keep the battery between 15°C and 25°C (59°F and 77°F) for optimal performance. A device with a

hot or cold battery may not work temporarily. Note that the battery may drain quickly in cold temperatures and lose enough power to switch off the phone within minutes. When you are outdoors in cold temperatures, keep your phone warm.

Obey local regulations. Recycle when possible. Do not dispose as household waste.

Do not expose the battery to extremely low air pressure or leave it to extremely high temperature, for example dispose it in a fire, as that may cause the battery to explode or leak flammable liquid or gas.

Do not dismantle, cut, crush, bend, puncture, or otherwise damage the battery in any way. If a battery leaks, do not let liquid touch skin or eyes. If this happens, immediately flush the affected areas with water, or seek medical help. Do not modify, attempt to insert foreign objects into the battery, or immerse or expose it to water or other liquids. Batteries may explode if damaged.

Use the battery and charger for their intended purposes only. Improper use, or use of unapproved or incompatible batteries or chargers may present a risk of fire, explosion, or other hazard, and may invalidate any approval or warranty. If you believe the battery or charger is damaged, take it to a service centre or your phone dealer before continuing to use it. Never use a damaged battery or charger. Only use the charger indoors. Do not charge your device during a lightning storm. When charger is not included in the sales pack, charge your device using the data cable (included) and a USB power adaptor (may be sold separately). You can charge your device with third-party cables and power adaptors that are compliant with USB 2.0 or later and with applicable country regulations and international and regional safety standards. Other adaptors may not meet applicable safety standards, and charging with such adaptors could pose a risk of property loss or personal injury.

To unplug a charger or an accessory, hold and pull the plug, not the cord.

Additionally, the following applies if your device has a removable battery:

- Always switch the device off and unplug the charger before removing the battery.
- Accidental short-circuiting can happen when a metallic object touches the metal strips on the battery. This may damage the battery or the other object.

SMALL CHILDREN

Your device and its accessories are not toys. They may contain small parts. Keep them out of the reach of small children.

MEDICAL DEVICES

Operation of radio transmitting equipment, including wireless phones, may interfere with inadequately shielded medical devices' function. Consult a physician or the medical device's manufacturer to determine if it is adequately shielded from external radio energy.

IMPLANTED MEDICAL DEVICES

To avoid potential interference, manufacturers of implanted medical devices (such as cardiac pacemakers, insulin pumps, and neurostimulators) recommend a minimum separation of 15.3 centimeters (6 inches) between a wireless device and the medical device. Persons who have such devices should:

- Always keep the wireless device more than 15.3 centimeters (6 inches) from the medical device.
- Not carry the wireless device in a breast pocket.
- Hold the wireless device to the ear opposite the medical device.
- Switch the wireless device off if there is any reason to suspect that interference is taking place.
- Follow the manufacturer directions for the implanted medical device.

If you have any questions about using your wireless device with an implanted medical device, consult your health care provider.

HEARING



Warning: When you use the headset, your ability to hear outside sounds may be affected. Do not use the headset where it can endanger your safety.

Some wireless devices may interfere with some hearing aids.

PROTECT YOUR DEVICE FROM HARMFUL CONTENT

Your device may be exposed to viruses and other harmful content. Take the following precautions:

- Be cautious when opening messages. They may contain malicious software or otherwise be harmful to your device or computer.
- Be cautious when accepting connectivity requests, browsing the internet, or downloading content. Do not accept Bluetooth connections from sources you do not trust.
- Only install and use services and software from sources that you trust and that offer adequate security and protection.
- Install antivirus and other security software on your device and any connected computer. Only use one antivirus app at a time. Using more may affect performance and operation of the device and/or computer.
- If you access preinstalled bookmarks and links to third party internet sites, take the appropriate precautions. HMD Global does not endorse or assume liability for such sites.

VEHICLES

Radio signals may affect improperly installed or inadequately shielded electronic systems in vehicles. For more info, check with the manufacturer of your vehicle or its equipment. Only authorized personnel should install the device in a vehicle. Faulty installation may be dangerous and invalidate your warranty. Check regularly that all wireless device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable or explosive materials in the same compartment as the device, its parts, or accessories. Do not place your device or accessories in the air bag deployment area.

POTENTIALLY EXPLOSIVE ENVIRONMENTS

Switch your device off in potentially explosive environments, such as near gasoline pumps. Sparks may cause an explosion or fire resulting in injury or death. Note restrictions in areas with fuel; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive environment may not be clearly marked. These usually are areas where you are advised to switch your engine off, below deck on boats, chemical transfer or storage facilities, and where the air contains chemicals or particles. Check with the manufacturers of vehicles using liquefied petroleum gas (such as propane or butane) if this device can be safely used in their vicinity.

CERTIFICATION INFORMATION

FCC RF Exposure Information

This mobile device meets guidelines for exposure to radio waves as set forth by the Federal Communications Commission (FCC). Refer to the following.

Your handset is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. The guidelines are based on standards that were developed by independent scientific organization through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless handsets employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. The tests are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC for each model. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided. The FCC has granted an Equipment Authorization for this handset model with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. Additional information on Specific Absorption Rates (SAR) can be found on the FCC website at www.fcc.gov/general/radio-frequency-safety-0. To send data or messages, a good connection to the network is needed. Sending may be delayed until such a connection is available. Follow the separation distance instructions until

the sending is finished. During general use, the SAR values are usually well below the values stated above. This is because, for purposes of system efficiency and to minimise interference on the network, the operating power of your mobile is automatically decreased when full power is not needed for the call. The lower the power output, the lower the SAR value. Device models may have different versions and more than one value. Component and design changes may occur over time and some changes could affect SAR values. For more info, go to www.sar-tick.com. Note that mobile devices may be transmitting even if you are not making a voice call. Your mobile device is also designed to meet the United States Federal Communications Commission (FCC) guidelines. FCC ratings for your device and more information on SAR can be found at <http://transition.fcc.gov/oet/rfsafety/sar.html>. The World Health Organization (WHO) has stated that current scientific information does not indicate the need for any special precautions when using mobile devices. If you are interested in reducing your exposure, they recommend you limit your usage or use a hands-free kit to keep the device away from your head and body. For more information and explanations and discussions on RF exposure, go to the WHO website at https://www.who.int/health-topics/electromagnetic-fields#tab=tab_1.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. For more info, go to www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety. Any changes or modifications not expressly approved by HMD Global could void the user's authority to operate this equipment. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This mobile device meets guidelines for exposure to radio waves.

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves (radio frequency electromagnetic fields), recommended by international guidelines from the independent scientific organization ICNIRP. These guidelines

incorporate substantial safety margins that are intended to assure the protection of all persons regardless of age and health. The exposure guidelines are based on the Specific Absorption Rate (SAR), which is an expression of the amount of radio frequency (RF) power deposited in the head or body when the device is transmitting. The ICNIRP SAR limit for mobile devices is 2.0 W/kg averaged over 10 grams of tissue.

SAR tests are carried out with the device in standard operating positions, transmitting at its highest certified power level, in all its frequency bands.

This device meets RF exposure guidelines when used against the head or when positioned at least 5/8 inch (1.5 centimetres) away from the body. When a carry case, belt clip or other form of device holder is used for body-worn operation, it should not contain metal and should provide at least the above stated separation distance from the body.

To send data or messages, a good connection to the network is needed. Sending may be delayed until such a connection is available. Follow the separation distance instructions until the sending is finished.

During general use, the SAR values are usually well below the values stated above. This is because, for purposes of system efficiency and to minimize interference on the network, the operating power of your mobile device is automatically decreased when full power is not needed for the call. The lower the power output, the lower the SAR value.

Device models may have different versions and more than one value. Component and design changes may occur over time and some changes could affect SAR values.

For more info, go to www.sar-tick.com. Note that mobile devices may be transmitting even if you are not making a voice call.

The World Health Organization (WHO) has stated that current scientific information does not indicate the need for any special precautions when using mobile devices. If you are interested in reducing your exposure, they recommend you limit your usage or use a hands-free kit to keep the device away from your head and body. For more information and explanations and discussions on RF exposure, go to the WHO website at www.who.int/health-topics/electromagnetic-fields#tab=tab_1.

Please refer to www.nokia.com/phones/sar for the maximum SAR value of the device.

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Copyrights and other notices

The availability of some products, features, applications and services described in this guide may vary by region and require activation, sign up, network and/or internet connectivity and

an appropriate service plan. For more info, contact your dealer or your service provider. This device may contain commodities, technology or software subject to export laws and regulations from the US and other countries. Diversion contrary to law is prohibited.

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