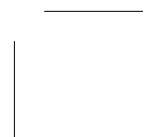
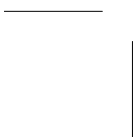
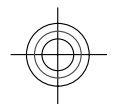
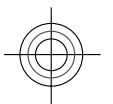




Nokia N950 User Guide



9225011
Issue 1



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Safety

Read these simple guidelines. Not following them may be dangerous or illegal.

SWITCH OFF IN RESTRICTED AREAS

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

QUALIFIED SERVICE

Only qualified personnel may install or repair this product.

KEEP THE DEVICE DRY

The device is not water-resistant. Keep it dry.

BATTERIES, CHARGERS AND OTHER ACCESSORIES

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

GLASS PARTS

The front cover of the device 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 qualified service personnel.

PROTECT YOUR HEARING


Listen to a headset at a moderate level, and do not hold the device near your ear when the loudspeaker is in use.

Welcome, developer!

This device is not commercially available. It is targeted to application developers only and is subject to any agreement made between you and Nokia regarding the device, such as the product loan agreement (PLA).

The hardware and software of this developer device may differ from any final commercial product.

The device contains the following:


- The software development kit (SDK), which is a set of programming tools to be installed on the development host computer. The device contains the SDK for Windows, Mac OS X, and Linux.
- In-device tools, such as a terminal application and Nokia Energy Profiler. Some of the tools have a graphical user interface and can be found with the other applications, others can only be used using a command-line interface. To disable the tools, select  and **Security > Developer mode**, and deactivate **Developer mode**. Do not remove the tools.

Install the software development kit

- 1 Connect the device to the development host computer using a data cable.
- 2 On the device, select **Mass storage**.
- 3 Using the file manager of your computer, browse to the SDK directory on the device.
- 4 Select the correct installation file for your computer's operating system: **SDK-installer-windows.zip**, **SDK-**

installer-os-x.dmg for Mac OS X, or **SDK-installer-linux-32bit.bin** or **SDK-installer-linux-64bit.bin** for Linux.

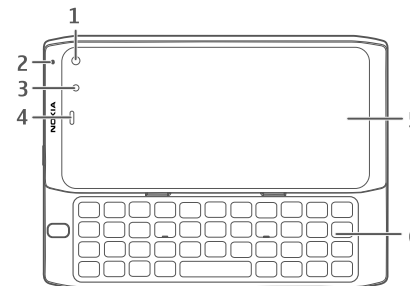
- 5 Copy the file to your computer.
- 6 Double-click the file.
- 7 Follow the displayed instructions.

For more information on a tool, select  and **Security > Developer mode** and the tool.

For support information, go to www.forum.nokia.com/MeeGo.

Get started

Front



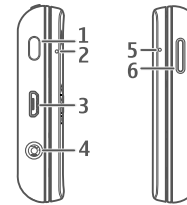
- 1 Front camera lens
- 2 Notification light

Sides

- 3 Light sensor
- 4 Earpiece
- 5 Touch screen
- 6 Physical keyboard

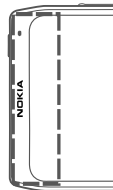
To ensure proper functionality of the touch screen, remove the protective film from the device display.

Do not cover the area left of the touch screen with, for example, protective film or tape.

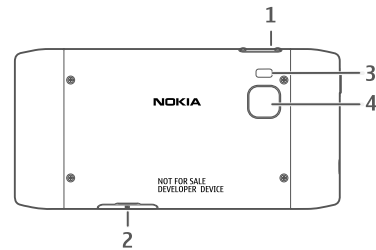


- 1 Power key
- 2 Microphone
- 3 Charger and data cable connector
- 4 Nokia AV connector (3.5 mm)
- 5 Microphone
- 6 Loudspeaker

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



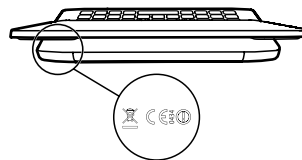
If you slide open the keyboard during a call, the call audio is routed to the loudspeaker or connected compatible headset.

Back

- 1 Volume key
- 2 SIM card slot
- 3 Camera flash
- 4 Camera lens

Labels on the device

The CE mark of the device is located under the touch screen.



The Federal Communications Commission (FCC) identification number is printed on the back of the touch screen.

Insert or remove the SIM card

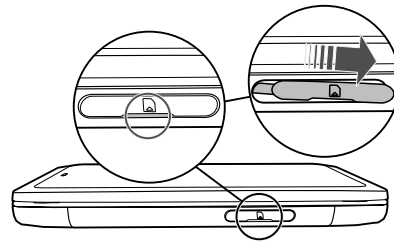
Important: Do not use a mini-UICC SIM card, also known as a micro-SIM card, a micro-SIM card with an adapter, or a SIM card that has a mini-UICC cutout (see figure) in this device. A micro SIM card is smaller than the standard SIM card. This device does not support the use of micro-SIM cards and use of incompatible SIM cards may damage the card or the device, and may corrupt data stored on the card.



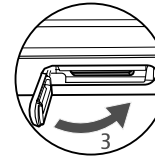
Do not attach any stickers to your SIM card.

Insert the SIM card

- 1 Use your fingernail to open the cover of the SIM card slot.

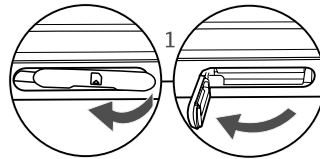


- 3 Close the cover of the SIM card slot.

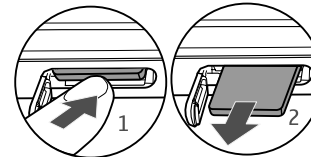
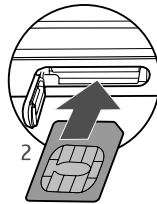


Remove the SIM card

- 1 Use your fingernail to open the cover of the SIM card slot. Push the SIM card in to release it.
- 2 Remove the SIM card.



- 2 Make sure the contact area of the SIM card is facing up, and insert the card into the SIM card slot. Push the card in until it locks into place.

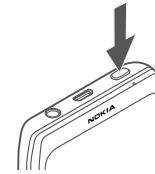
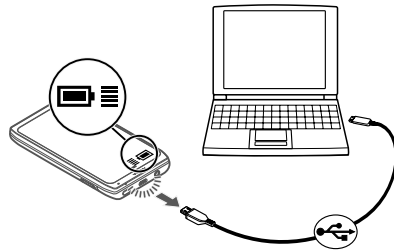


Charge the battery

The battery has been partially charged at the factory, but you may need to recharge it before you can switch on the device for the first time.

If the device indicates a low charge, use a compatible data cable to connect to a compatible device, such as a computer.

To avoid breaking the charger connector, be careful when connecting or disconnecting the charger cable.



Status area indicators

General indicators

| | |
|--|---|
| | The silent profile is activated. |
| | You have set a clock alarm. |
| | You have new notifications (for example, new messages or missed calls). |

Network indicators

| | |
|--|--|
| | Signal strength. |
| | Your current network. |
| | A packet data connection is open. indicates that data is being transferred. |
| | You are connected to a WLAN. |

You do not need to charge the battery for a specific length of time, and you can use the device while it is charging.


Charging over data cable can take longer to start and you may not be able to use the device immediately. Charging may not work if you connect the data cable to a non-powered hub.

If the battery is completely discharged, it may take several minutes before the charging indicator appears on the display or before any calls can be made.









Switch the device on or off

To switch on the device, press and hold the power key until the device vibrates.

To switch off the device, press and hold the power key.

| | |
|---|----------------------------------|
|  | There are no available networks. |
|---|----------------------------------|

Connectivity indicators

| | |
|---|---|
|  | The SIM card is not available. The card is not inserted or the PIN code has not been entered. |
|  | The offline profile is activated. |
|  | Bluetooth is activated.  indicates that data is being transferred. |
|  | GPS is activated. |
|  | The device is transferring content.  indicates that transfer is pending.  indicates that transfer has failed. |

Access codes

| | |
|------------------|---|
| PIN or PIN2 code | <p>These protect your SIM card against unauthorised use or are required to access some features.</p> <p>You can set the device to ask for the PIN code when you switch it on.</p> <p>If not supplied with your SIM card or you forget the codes, contact your service provider.</p> |
|------------------|---|


| | |
|--|--|
| (4-8 digits) | If you enter the code incorrectly three times in a row, you need to unblock the code with the PUK or PUK2 code. |
| PUK or PUK2 code (8 digits) | <p>These are required to unblock a PIN or PIN2 code.</p> <p>If not supplied with your SIM card, contact your service provider.</p> |
| IMEI number (15 digits) | <p>This is used to identify valid devices in the network. The number can also be used to block, for example, stolen devices.</p> <p>To view the IMEI number of the device, dial *#06#.</p> |
| Lock code (security code) (min. 4 digits or characters) | <p>This protects the device against unauthorised use.</p> <p>You can set the device to ask for the lock code that you define.</p> <p>Keep the code secret and in a safe place, separate from the device.</p> |

Keep the device software and applications up to date

About device software and application updates

With device software updates and application updates, you can get new features and enhanced functions for the device. Updating the software may also improve the device performance.

It is recommended that you back up your personal data before updating the device software.

 **Warning:**
If you install a software update, you cannot use the device, even to make emergency calls, until the installation is completed and the device is restarted.

Using the service or downloading content may cause transfer of large amounts of data, which may result in data traffic costs.

Make sure that the device battery has enough power, or connect the charger before starting the update.

After the update, the instructions in the user guide may no longer be up to date.

View your software version

Dial ***#0000#**.

Update device software and applications using the device

You can check if there are updates available for the device software or for individual applications, and then download and install them to the device (network service).

Select  > **Applications** > **Manage applications**.

When an update is available for an installed application, a notification message is displayed. To view and install the available update, select the notification message.

Check for updates manually

Open the  tab, and select  to refresh the view.

You can update individual applications or all available applications.

To prevent any possible loss of data, back up your data before installing operating system updates.


Product and safety information

Feature-specific instructions

The Assisted GPS (A-GPS) network service retrieves location information using the cellular network, and assists GPS in calculating your current location.

The availability and quality of GPS signals may be affected by your location, satellite positions, buildings, natural obstacles, weather conditions and adjustments to GPS satellites made by the United States government. GPS signals may not be available inside buildings or underground.

Do not use GPS for precise location measurement, and never rely solely on the location information provided by GPS and cellular networks.

 **Note:** Using WLAN may be restricted in some countries. For example, in France, you are only allowed to use WLAN indoors. For more information, contact your local authorities.

Use of the Mail for Exchange is limited to over-the-air synchronisation of PIM information between the Nokia device and the authorised Microsoft Exchange server.

Network services and costs

The device is approved for use on the WCDMA 850, 900, 1900, 1700/2100, 2100 and GSM/EDGE 850, 900, 1800, 1900 MHz networks.

Using network services and downloading content to the device requires a network connection and may result in data traffic costs. Some product features require support from the network, and you may need to subscribe to them.

When using this device, obey all laws and respect local customs, privacy and legitimate rights of others, including copyrights. Copyright protection may prevent some images, music, and other content from being copied, modified, or transferred.

Open source software notice

This product includes certain open source software. Nokia offers to provide you with the source code as defined in the applicable licence. Please send an e-mail to sourcecode.request@nokia.com or a written request to:

Source Code Requests

Nokia Corporation

P.O.Box 226

FI-00045 Nokia Group

Finland

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Take care of the device

Handle the device, battery, charger, and accessories with care.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that corrode electronic circuits. If the device gets wet, allow the device to dry.
- Do not use or store the device in dusty or dirty areas. Moving parts and electronic components can be damaged.
- Do not store the device in high temperatures. High temperatures can shorten the life of the device, damage the battery, and warp or melt plastics.
- Do not store the device in cold temperatures. When the device warms to its normal temperature, moisture can form inside the device and damage electronic circuits.
- Do not attempt to open the device other than as instructed in the user guide.
- Unauthorised modifications may damage the device and violate regulations governing radio devices.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and mechanics.
- Only use a soft, clean, dry cloth to clean the surface of the device.
- Do not paint the device. Paint can clog the moving parts and 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 the device, memory card, or computer, or write down important information.

During extended operation, the device may feel warm. In most cases, this condition is normal. If you suspect the device is not working properly, stop using the device.

Batteries and chargers**Battery and charger information**

The device has an internal, non-removable, rechargeable battery. Do not attempt to remove the battery, as you may damage the device.

This device is intended for use when supplied with power from the following chargers: AC-10. The exact Nokia charger model number may vary depending on the plug type, identified by E, X, AR, U, A, C, K, or B. A charger is not provided with the device.

Battery safety

Note: The battery in the device is non-removable, so refer to the battery-related statements as applicable to the device.

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

When your charger is not in use, unplug it from the electrical plug and the device. Do not leave a fully charged battery connected to a charger, as overcharging may shorten the battery's lifetime. If left unused, a fully charged battery will lose its charge over time.

Always keep the battery between 15°C and 25°C (59°F and 77°F). Extreme temperatures reduce the capacity and lifetime of the battery. A device with a hot or cold battery may not work temporarily.

Accidental short-circuiting can happen when a metallic object touches the metal strips on the battery. Short-circuiting may damage the battery or the connecting object.

Do not dispose of batteries in a fire as they may explode. Dispose of batteries according to local regulations. Recycle when possible. Do not dispose as household waste.

Do not dismantle, cut, open, crush, bend, puncture, or shred cells or batteries. If a battery leaks, do not let battery liquid touch skin or eyes. If this happens, immediately flush the affected areas with water, or seek medical help.




Do not modify, remanufacture, 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 batteries or incompatible chargers may present a risk of fire, explosion, or other hazard, and may invalidate any approval. Never use a damaged battery or charger. Only use the charger indoors.



Additional safety information**Make an emergency call**


- 1 Make sure the device is switched on.
- 2 Check for adequate signal strength. You may also need to do the following:

- Insert a SIM card.
- Deactivate call restrictions you have activated for your device, such as call barring, fixed dialling, or closed user group.
- Make sure the offline or flight profile is not activated.
- If the device screen and keys are locked, unlock them.

- 3 Select  and  to open the dialler.
- 4 Enter the official emergency number for your present location.
- 5 Select  to start the call.
- 6 Give the necessary information as accurately as possible. Do not end the call until given permission to do so.

Make an emergency call without entering PIN, PUK, or lock code

- 1 When the device asks for the code, select .
- 2 Enter the emergency number for your present location.
- 3 Select  to start the call. After the emergency call, you need to enter the required PIN, PUK, or lock code to be able to use other device functions.

When you switch your device on for the first time, you are asked to create your Nokia account. To make an emergency call during the account setup, select .



Important: Emergency calls can be made using the cellular phone. It is not possible to make an emergency call using voice calls over the internet (internet calls). Connections in all conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

Small children

The 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 the function of inadequately protected medical devices. Consult a

physician or the manufacturer of the medical device to determine whether they are adequately shielded from external RF energy. Switch off the device when regulations posted instruct you to do so, for example, in hospitals.

Implanted medical devices

Manufacturers of medical devices recommend a minimum separation of 15.3 centimetres (6 inches) between a wireless device and an implanted medical device, such as a pacemaker or implanted cardioverter defibrillator, to avoid potential interference with the medical device. Persons who have such devices should:

- Always keep the wireless device more than 15.3 centimetres (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.
- Turn 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.

French Ministerial Order of 8th October 2003

This section only applies to France.

All Nokia products comply with international and, where adopted, country specific standards and guidelines for limiting human exposure to electromagnetic fields. These standards and guidelines were adopted after thorough reviews of the science. Those reviews do not establish a link between the use of mobile devices and adverse health effects when the device is operating within the standards and guidelines.

If you have concerns about exposure from handsets operating within the standards or guidelines, then, in accordance with French regulatory requirements we are required to include in this User Guide the following guidance on precautionary measures: you can limit exposure to radio frequency energy by either (a) using the device in good reception conditions, or (b) using a hands-free kit to move the device away from the head and body. In the latter situation, pregnant women should keep the device away from their abdomen and adolescents should keep the device away from their lower abdomen.

Hearing



Warning:

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

Some wireless devices may interfere with some hearing aids.

Vehicles

Radio signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection, electronic antilock braking, electronic speed control, and air bag systems. For more information, check with the manufacturer of your vehicle or its equipment.

Only qualified personnel should install the device in a vehicle. Faulty installation or service may be dangerous. Check regularly that all wireless device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or accessories. Remember that air bags inflate with great force. Do not place the device or accessories in the air bag deployment area.

Switch off the device before boarding an aircraft. The use of wireless devices in an aircraft may be dangerous to the operation of the aircraft and may be illegal.

Potentially explosive environments

Switch off the device in any area with a potentially explosive atmosphere. Obey all posted instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or death. Switch off the device at refuelling points such as near gas pumps at service stations. Observe restrictions in fuel depots, storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include areas where you would be advised to turn off your vehicle engine, below deck on boats, chemical transfer or storage facilities and where the air contains chemicals or particles such as grain, dust, or metal powders. You should check with the manufacturers of vehicles using liquefied petroleum gas (such as propane or butane) to determine if this device can be safely used in their vicinity.

Operating environment

This device meets RF exposure guidelines in the normal use position at the ear or at least 1.5 centimetre (5/8 inch) away from the body. Any carry case, belt clip, or holder for body-worn operation should not contain metal and should position the device the above-stated distance from your body.

To send data files or messages requires a quality connection to the network. Data files or messages may be delayed until such a connection is available. Follow the separation distance instructions until the transmission is completed.

Parts of the device are magnetic. Metallic materials may be attracted to the device. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

Certification information (SAR)**This mobile device meets guidelines for exposure to radio waves.**

This mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organisation ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The exposure guidelines for mobile devices employ a unit of measurement known as the Specific Absorption Rate or SAR. The SAR limit stated in the ICNIRP guidelines is 2.0 watts/kilogram (W/kg) averaged over 10 grams of tissue. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. The actual SAR level of an operating device can be below the maximum value because the device is designed to use only the power required to reach the network. That amount changes depending on a number of factors such as how close you are to a network base station.

This cellular device is also designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA) and Industry Canada. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue.

Copyright and other notices

DECLARATION OF CONFORMITY

CE 0434 

Hereby, NOKIA CORPORATION declares that this RM-680 product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the Declaration of Conformity can be found at www.nokia.com/phones/declaration_of_conformity/.

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FCC NOTICE

The device may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility. This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by Nokia could void the user's authority to operate this equipment.

Some operations and features are SIM card and/or network dependent, MMS dependent, or dependent on the compatibility of devices and the content formats supported. Some services are subject to a separate charge.

9225011/Issue 1 EN