Nokia N86 8MP User Guide

Issue 1

Cyan Magenta Yellow Black

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Your device may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada 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.

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Safety

Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user guide for further information.

SWITCH ON SAFELY

Do not switch the device on when wireless phone use is prohibited or when it may cause interference or danger.

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.

SWITCH OFF IN RESTRICTED AREAS

Follow any restrictions. Switch the device off in aircraft, near medical equipment, fuel, chemicals, or blasting areas.

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.

QUALIFIED SERVICE

Only qualified personnel may install or repair this product.

ACCESSORIES AND BATTERIES

Use only approved accessories and batteries. Do not connect incompatible products.

WATER-RESISTANCE

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

Note: The surface of this device does not contain nickel in the platings. The surface of this device contains stainless steel.

About your device

The wireless device described in this guide is approved for use on the (E)GSM 850, 900, 1800, 1900, and UMTS 850,

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1900, 2100 networks. Contact your service provider for more information about networks.

When using the features in 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.

Your device supports several methods of connectivity. Like computers, your device may be exposed to viruses and other harmful content. Exercise caution with messages, connectivity requests, browsing, and downloads. Only install and use services and other software from trustworthy sources that offer adequate security and protection against harmful software, such as applications that are Symbian Signed or have passed the Java Verified™ testing. Consider installing antivirus and other security software on your device and any connected computer.

Important: Your device can only support one antivirus application. Having more than one application with antivirus functionality could affect performance and operation or cause the device to stop functioning.

Your device may have preinstalled bookmarks and links for third-party internet sites. You may also access other third-party sites through your device. Third-party sites are not affiliated with Nokia, and Nokia does not endorse or assume liability for them. If you choose to access such sites, you should take precautions for security or content.

Warning: To use any features in this device, other than the alarm clock, the device must be switched on. Do not switch the device on when wireless device use may cause interference or danger.

Remember to make back-up copies or keep a written record of all important information stored in your device.

When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.

The images in this guide may differ from your device display.

Network services

To use the device you must have service from a wireless service provider. Some features are not available on all networks; other features may require that you make specific arrangements with your service provider to use them. Network services involve transmission of data. Check with your service provider for details about fees in your home network and when roaming on other networks. Your service provider can explain what charges will apply. Some networks may have limitations that affect how you can use some features of this device requiring network support such as support for specific technologies like WAP 2.0 protocols (HTTP and SSL) that run on TCP/IP protocols and language-dependent characters.

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Your service provider may have requested that certain features be disabled or not activated in your device. If so, these features will not appear on your device menu. Your device may also have customized items such as menu names, menu order, and icons.

Shared memory

The following features in this device may share memory: multimedia messaging (MMS), e-mail application, instant messaging. Use of one or more of these features may reduce the memory available for the remaining features. If your device displays a message that the memory is full, delete some of the information stored in the shared memory.

During extended operation such as an active video call and high speed data connection, the device may feel warm. In most cases, this condition is normal. If you suspect the device is not working properly, take it to the nearest authorised service facility.

ActiveSync

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.

Digital rights management

Content owners may use different types of digital rights management (DRM) technologies to protect their intellectual property, including copyrights. This device uses various types of DRM software to access DRM-protected content. With this device you can access content protected with WMDRM 10 and OMA DRM 2.0. If certain DRM software fails to protect the content, content owners may ask that such DRM software's ability to access new DRM-protected content be revoked. Revocation may also prevent renewal of such DRM-protected content already in your device. Revocation of such DRM software does not affect the use of content protected with other types of DRM or the use of non-DRM-protected content.

Magnets and magnetic fields

Keep your device away from magnets or magnetic fields.

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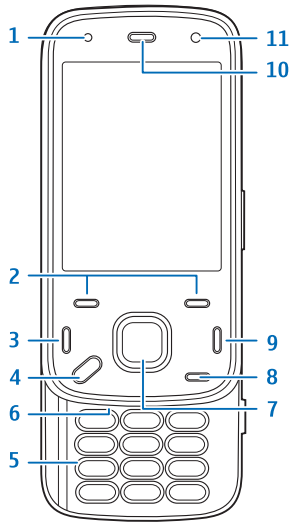
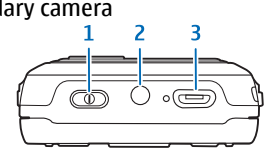
Get started

Keys and parts (front and top)



1 — Light sensor
2 — Selection keys
3 — Call key
4 — Menu key
5 — Numeric keypad
6 — Microphone
7 — Scroll and selection key
8 — Clear key **C**
9 — End key
10 — Earpiece
11 — Secondary camera



1 — Power key
2 — Nokia AV Connector (3.5 mm)
3 — Micro USB connector

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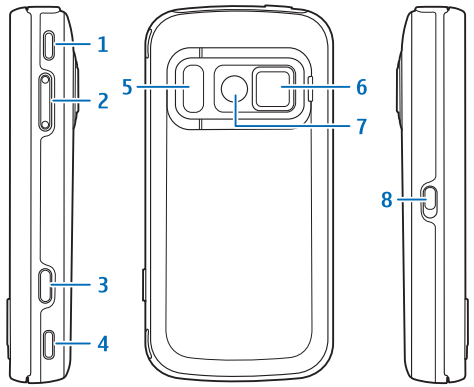
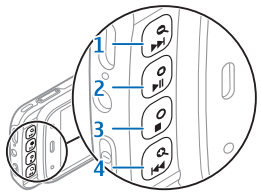
Keys and parts (back and sides)



1 — Stereo speaker
2 — Volume/Zoom key
3 — Capture key
4 — Stereo speaker
5 — Flash and video light
6 — Lens cover
7 — Main camera
8 — Key lock switch

Short slide keys

Short slide keys act as media, zoom, or gaming keys depending on the application. Short slide keys also enable multitasking, for example, if you are browsing the internet with the Music player application in the background, you can control the player with the Play/Pause key.



1 — Forward/Zoom in key
2 — Play/Pause key and gaming key
3 — Stop key and gaming key
4 — Rewind/Zoom out key

Kickstand

You can use the kickstand, for example, when you view images or video clips.

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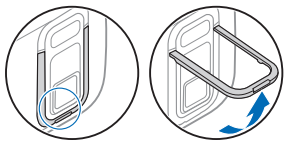
Open the kickstand at the back of the device, and place the device on a level surface. When you open the kickstand, the Photos application is opened automatically.



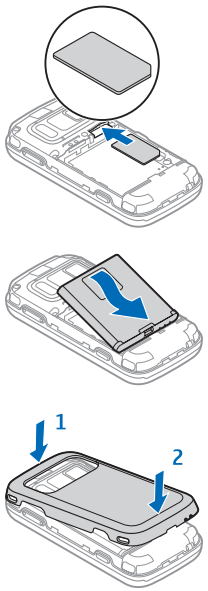
To modify the kickstand settings, select **Menu** > **Tools** > **Settings** and **General** > **Personalisation** > **Kickstand**.

Insert SIM card and battery

Safe removal. Always switch the device off and disconnect the charger before removing the battery.

1. With the back of the device facing you, remove the back cover by lifting it from the bottom end of the device.

2. Insert the SIM card into the card holder. Ensure that the bevelled corner on the card is facing right, and that the contact area on the card is facing down.
3. Insert the battery.
4. To replace the cover, press the cover down until the cover locks into place.



Memory card

Use only compatible microSD cards approved by Nokia for use with this device. Nokia uses approved industry standards for memory cards, but some brands may not be fully compatible with this device. Incompatible cards may

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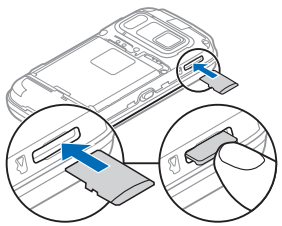
damage the card and the device and corrupt data stored on the card.

Insert the memory card

A memory card may be already inserted in the device. If not, do the following:

1. With the back of the device facing you, lift up the cover.
2. Insert a compatible memory card in the slot. Ensure that the contact area on the card is facing down and towards the slot.
3. Push the card in. You can hear a click when the card locks into place.
4. Close the back cover. Ensure that the cover is properly closed.



Remove the memory card

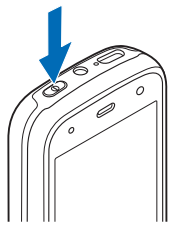
Important: Do not remove the memory card during an operation when the card is being accessed. Doing so may damage the memory card and the device, and corrupt data stored on the card.

1. Before you remove the card, press the power key, and select **Remove memory card**. All applications are closed.
2. When **Removing memory card will close all open applications. Remove anyway?** is displayed, select **Yes**.
3. When **Remove memory card and press 'OK'** is displayed, remove the back cover of the device.
4. Press the memory card to release it from the slot.
5. Pull out the memory card. If the device is switched on, select **OK**.
6. Replace the back cover. Ensure that the cover is properly closed.

Switch the device on and off

To switch on the device:

1. Press and hold the power key.
2. If the device asks for a PIN code or lock code, enter it, and select **OK**. The preset lock code is **12345**. If you forget the code and your device is locked, your device will require service and additional charges may apply. For more information, contact a Nokia Care point or your device dealer.



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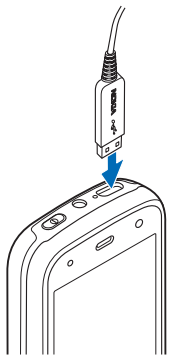
To switch off the device, press the power key briefly, and select Switch off!.

Charge the battery

Your battery has been partially charged at the factory. There may not be a need to charge the battery in advance. If the device indicates a low charge, do the following:

Regular charging

1. Connect the charger to a wall outlet.
2. Connect the charger to the device. The charging indicator light next to the USB connector is lit when the battery is being charged.
3. When the device indicates a full charge, disconnect the charger from the device, then from the wall outlet.



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

Tip: Disconnect the charger from the wall outlet when the charger is not in use. A charger that is connected to the outlet consumes power even when it is not connected to the device.

USB charging

You can use USB charging when a wall outlet is not available. With USB charging, you can also transfer data while charging the device.

1. Connect a compatible USB device to your device using a compatible USB cable.

   The efficiency of USB charging varies significantly. In some cases, it may take a very long time for charging to start and the device to start functioning.
2. If your device is switched on, you can select from the available USB mode options on the display of the device.

During extended operation such as an active video call and high speed data connection, the device may feel warm. In most cases, this condition is normal. If you suspect the device is not working properly, take it to the nearest authorised service facility.

Headset

You can connect a compatible headset or compatible headphones to your device. You may need to select the cable mode.

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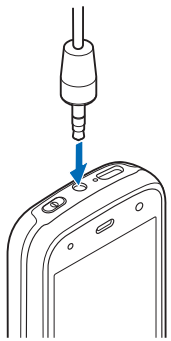
Some headsets come in two parts, a remote control unit and headphones. A remote control unit has a microphone and keys to answer or end a phone call, adjust the volume, and play music or video files. To use the headphones with a remote control unit, connect the unit to the Nokia AV Connector in the device, then connect the headphones to the unit.

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.

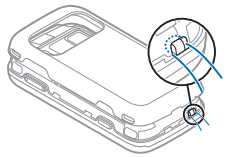


Do not connect products that create an output signal as this may cause damage to the device. Do not connect any voltage source to the Nokia AV Connector.

When connecting any external device or any headset, other than those approved by Nokia for use with this device, to the Nokia AV Connector, pay special attention to volume levels.

Attach wrist strap

1. Open the back cover.
2. Thread a wrist strap, and tighten it.
3. Close the back cover.



Antenna locations

Your device may have internal and external antennas. Avoid touching the antenna area unnecessarily while the antenna is transmitting or receiving. Contact with antennas affects the communication quality and may cause a higher power level during operation and may reduce the battery life.

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Find help

For more information on access codes, saving battery power, and freeing memory, see the extended user guide on the product support pages of the Nokia website.

In-device help

Your device contains instructions to help to use the applications in your device.

To open help texts from the main menu, select **Menu** > **Applications** > **Help** and the application for which you want to read instructions.

When an application is open, to access the help text for the current view, select **Options** > **Help**.

When you are reading the instructions, to change the size of the help text, select **Options** > **Decrease font size** or **Increase font size**.

You can find links to related topics at the end of the help text. If you select an underlined word, a short explanation is displayed. Help texts use the following indicators: shows a link to a related help topic. shows a link to the application being discussed.

When you are reading the instructions, to switch between help texts and the application that is open in the background, press and hold the menu key, and select from the list of open applications.

Support

When you want to learn more about how to use your product or you are unsure how your device should function, see the support pages at www.nokia.com/support or your local Nokia website, www.nokia.mobi/support (with a mobile device), the Help application in the device, or the user guide.

If this does not resolve your issue, do the following:

- Restart the device: switch off the device, and remove the battery. After about a minute, replace the battery, and switch on the device.
- Restore the original factory settings as explained in the user guide. Your documents and files are not deleted in the reset.

If the issue remains unsolved, contact Nokia for repair options. See www.nokia.com.cn/repair. Before sending your device for repair, always back up the data in your device.

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Extended user guide

An extended version of this user guide is available on the product support pages of the Nokia website. Some applications or functions are explained only in the extended user guide. This is explained in the relevant sections. The extended user guide also contains a troubleshooting section.

Additional applications

There are various applications provided by Nokia and different third-party software developers that help you do more with your device. These applications are explained in the guides that are available on the product support pages of the Nokia website.

Update device software

Software updates using your PC

Software updates may include new features and enhanced functions that were not available at the time of purchase of your device. Updating the software may also improve the device performance.

Nokia Software Updater is a PC application that enables you to update your device software. To update your device software, you need a compatible PC, broadband internet access, and a compatible USB data cable to connect your device to the PC.

To get more information, to check the release notes for the latest software versions, and to download the Nokia Software Updater application, see www.nokia.com.cn/softwareupdate or your local Nokia website.

To update the device software, do the following:

1. Download and install the Nokia Software Updater application to your PC.
2. Connect your device to the PC using a USB data cable, and open the Nokia Software Updater application. The Nokia Software Updater application guides you to back up your files, update the software, and restore your files.

Software updates over the air

Select **Menu** > **Settings** > **SW update**.

With Software update (network service), you can check if there are updates available for your device software or applications, and download them to your device.

Warning: If you install a software update, you cannot use the device, until the installation is completed and the device is restarted. Be sure to back up data before accepting installation of an update.

After updating your device software or applications using Software update, the instructions related to the

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updated applications in the user guide or the helps may no longer be up to date.

Select **Options** and from the following:

- **Start update** — Download the available updates. To unmark specific updates that you do not want to download, select the updates from the list.
- **Update via PC** — Update your device using a PC. This option replaces the Start update option when updates are only available using the Nokia Software Updater PC application.
- **View details** — View information on an update.
- **View update history** — View the status of previous updates.
- **Settings** — Change the settings, such as the default access point used for downloading updates.
- **Disclaimer** — View the Nokia licence agreement.

Settings

Your device normally has MMS, GPRS, streaming, and mobile internet settings automatically configured, based on your network service provider information. You may have settings from your service providers already installed in your device, or you may receive or request the settings from the network service providers as a special message.

You can change the general settings in your device, such as language, standby mode, display, and keypad lock settings.

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Your device

Transfer content

You can use the Switch application to copy content such as phone numbers, addresses, calendar items, and images from your previous Nokia device to your device.

The type of content that can be transferred depends on the model of the device from which you want to transfer content. If that device supports synchronisation, you can also synchronise data between the devices. Your device notifies you if the other device is not compatible.

If the other device cannot be switched on without a SIM card, you can insert your SIM card in it. When your device is switched on without a SIM card, the Offline profile is automatically activated, and transfer can be done.

Transfer content for the first time

1. To retrieve data from the other device for the first time, on your device, select **Phone switch** in the Welcome application, or select **Menu** > **Settings** > **Switch**.
2. Select the connection type you want to use to transfer the data. Both devices must support the selected connection type.
3. If you select Bluetooth connectivity as the connection type, connect the two devices. To have your device search for devices with Bluetooth connectivity, select **Continue**. Select the device from which you want to transfer content. You are asked to enter a code on your device. Enter a code (1-16 digits), and select **OK**. Enter the same code on the other device, and select **OK**. The devices are now paired.

   Some earlier Nokia devices may not have the Switch application. In this case, the Switch application is sent to the other device as a message. To install the Switch application on the other device, open the message, and follow the instructions on the display.
4. On your device, select the content you want to transfer from the other device.

   When the transfer has started, you can cancel it and continue later.

Content is transferred from the memory of the other device to the corresponding location in your device.

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The transfer time depends on the amount of data to be transferred.

Lock the keypad

To lock or unlock the keys, use the lock switch on the right side of the device, or close or open the 2-way slide.

To set the keypad to lock automatically after a time-out, select **Menu** > **Tools** > **Settings** and **General** > **Security** > **Phone and SIM card** > **Keypad autolock period**.

To select whether to lock the keypad when the 2-way slide is closed, select **Menu** > **Tools** > **Settings** and **General** > **Slide handling** > **Keyguard activation**.

Find items

When a search field is available in the application, you can use the search field to search for a name, file, or application.

1. To search for an item, enter text in the search field. The device will immediately start to search and filter the entries matching to the text you input. The more texts you input, the more accurate the search result will be. When entering text, use the input methods included in your device. The current input method indicator will be shown in the search field near the magnifier icon.
2. After finding your needed item, press the scroll key to open it.

Offline profile

To activate the offline profile, press the power key briefly, and select **Offline**.

The offline profile lets you use the device without connecting to the wireless cellular network. When you activate the offline profile, the connection to the cellular network is turned off, as indicated by ✕ in the signal strength indicator area. All radio frequency (RF) signals to and from the device to the cellular network are prevented. If you try to send messages using the cellular network, they are placed in the Outbox folder to be sent later.

When the offline profile is active, you can use your device without a SIM card.

If the SIM card is not properly in place, the device starts in the offline profile.

Important: In the Offline profile you cannot make or receive any calls, or use other features that require cellular network coverage. To make calls, you must first activate the phone function by changing

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profiles. If the device has been locked, enter the lock code.

To switch to another profile, press the power key briefly, and select another profile. The device re-enables wireless transmissions (providing there is sufficient signal strength).

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Camera

For more information on the camera and camera settings, see the extended user guide on the product support pages of the Nokia website.

About the camera

Your Nokia N86 8MP has two cameras. The main, high-resolution camera, is on the back of the device. The secondary, lower resolution camera is on the front. You can use both cameras to capture images and record videos.

Your device supports an image capture resolution of 3264x2448 pixels (8 megapixels). The image resolution in this guide may appear different.

The images and video clips are saved in Photos.

The produced images are in the JPEG format. Video clips are recorded in the MPEG-4 file format with the .mp4 file extension, or in the 3GPP file format with the .3gp file extension (sharing quality).

To free memory for new images and video clips, transfer files to a compatible PC using a compatible USB data cable, for example, and remove the files from your device. The device informs you when the memory is full. You can then free up memory in the current storage or change the memory in use.

Activate the camera

To activate the main camera, open the lens cover. To activate the main camera when the lens cover is already open and the camera is active in the background, press and hold the capture key.

To close the main camera, close the lens cover.

Image capture

Still image camera indicators

The still image camera viewfinder displays the following:

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1 — Capture mode indicator

2 — Active toolbar (not displayed during image capture).

3 — Battery charge level indicator

4 — Image resolution indicator

5 — Image counter (the estimated number of images you can capture using the current image quality setting and memory)

6 — The device memory ( ), mass memory , and memory card ( ) indicators, which show where images are saved

7 — GPS signal indicator

Active toolbar

The active toolbar provides you with shortcuts to different items and settings before and after capturing an image or recording a video clip. To select a toolbar item, scroll to the item, and press the scroll key. You can also define when the active toolbar is displayed.

The settings in the active toolbar return to the default settings after you close the camera.

To view the active toolbar before and after capturing an image or recording a video clip, select **Options** > **Show toolbar**. To view the active toolbar only when you need it, select **Options** > **Hide toolbar**. To display the toolbar when it is hidden, press the scroll key. The toolbar is displayed for 5 seconds.

By default, not all shortcuts are available. To add or remove shortcuts from the toolbar, select **Options** > **Customise toolbar**.

From the active toolbar, select from the following:

- Switch to video mode.
- Switch to image mode.
- Select the scene.
- Turn the video light off (video mode only).
- Turn the video light on (video mode only).
- Select the flash mode (images only).
- Activate the self-timer (images only).
- Activate sequence mode (images only).
- Select a colour effect.
- Adjust the white balance.

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Adjust the exposure compensation (images only).

Adjust sharpness (images only).

Adjust contrast (images only).

Adjust light sensitivity (images only).

Activate panorama mode.

The icons change to reflect the current setting.

Saving the captured image may take longer if you change the zoom, lighting, or colour settings.

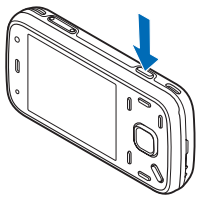
Capture images

When capturing an image, note the following:

- Use both hands to keep the camera still.
- The quality of a digitally zoomed image is lower than that of a nonzoomed image.
- The camera goes into the battery saving mode if there are no keypresses for a moment. To continue capturing images, press the capture key.

To capture an image, do the following:

1. If the camera is in the video mode, select the image mode from the active toolbar.
2. To lock the focus on an object, press the capture key halfway down (main camera only, not available in landscape or sport scene.). A green locked focus indicator appears on the display. If the focus was not locked, a red focus indicator appears. Release the capture key, and press it halfway down again. You can also capture an image without locking the focus.
3. To capture an image, press the capture key. Do not move the device before the image is saved and the final image appears on the screen.



To zoom in or out when capturing an image, use the zoom key in your device.

To leave the camera open in the background and use other applications, press the menu key. To return to the camera, press and hold the capture key.

Location information

You can automatically add capture location information to the file details of the captured material. For example, in the Photos application, you can then view the location where an image was captured.

Select **Menu** > **Applications** > **Camera**.

To add location information to all captured material, select **Options** > **Settings** > **Record location** > **On**. The location information is available only for images captured with the main camera.

The availability and quality of GPS signals may be affected by your location, buildings, natural obstacles,

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and weather conditions. If you share a file that includes location information, also the location information is shared, and your location may be visible to third parties viewing the file. The device requires network services to acquire location information.

Location information indicators:

- — Location information unavailable. GPS stays on in the background for several minutes. If a satellite connection is found and the indicator changes to within that time, all the images captured and video clips recorded during that time are tagged based on the received GPS positioning information.
- — Location information is available. Location information is added to the file details.

Files with location information are indicated with in the Photos application.

Panorama mode

Select **Menu** > **Applications** > **Camera**.

Select panorama mode from the toolbar.

1. To capture the first image in the panorama, press the capture key.
2. Slowly turn the device left or right as shown by the arrows.

   A panorama preview is displayed and the camera captures the image as you turn. The green arrow indicates that you can slowly proceed to turn. The red pause mark indicates that you should stop moving until the green arrow is displayed again. You can predict when the next key frame is captured when the red rectangle moves to the centre of the preview area.
3. To complete the capture, select **Stop**. The panoramic capture stops automatically when the maximum image width has been reached. Note that it may take some time for the device to process the captured image.

Flash

The flash is available only in the main camera.

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 picture.

The camera of your device has a dual LED flash for low light conditions.

Select the desired flash mode from the active toolbar: **Automatic** (), **Red-eye** (), **On** (), and **Off** ().

Video light

To increase light levels when recording video in low light, select .

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Camera flash

- Text
- Text
- Text
- Text
- Text

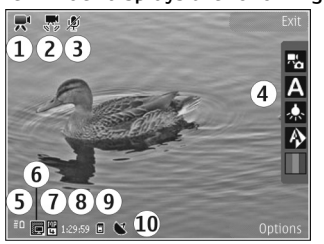
Note: Text

Title: Text

Video recording

Video capture indicators

The video viewfinder displays the following:



1 — Capture mode indicator

2 — Video stabilisation on indicator

3 — Audio mute on indicator

4 — Active toolbar (not displayed during recording)

5 — Battery charge level indicator

6 — Video quality indicator. To change this setting, select **Options** > **Settings** > **Video quality**.

7 — Video clip file type

8 — Available recording time. When you are recording, the current video length indicator also shows the elapsed and remaining time.

9 — The location to which the video clip is saved.

10 — GPS signal indicator

Record videos

1. If the camera is in the image mode, select the video mode from the active toolbar.
2. To start recording, press the capture key. The red record icon (●) is displayed and a tone sounds.
3. To pause recording at any time, press **Pause**. Select **Continue** to resume. If you pause recording and do not press any key within one minute, the recording stops.

   To zoom in or out of the subject, use the zoom key in your device.
4. To stop recording, press the capture key. The video clip is automatically saved in Photos. The maximum length of a video clip is approximately 30 seconds

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with sharing quality and 90 minutes with other quality settings.

To activate the front camera, select **Options** > **Use secondary camera**. To start recording a video, press the scroll key. To zoom in or out, scroll up or down.

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Photos

About Photos

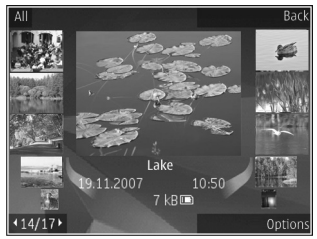
Select **Menu** > **Photos** and from the following:

- **Captured** — View all the images and videos you have captured.
- **Months** — View images and videos categorised by the month they where captured.
- **Albums** — View the default albums and the ones you have created.
- **Tags** — View the tags you have created for each item.
- **Downloads** — View items and videos downloaded from the web or received as a multimedia or e-mail message.
- **All** — View all items.
- **Share online** — Post your images or videos to the web.

View images and videos

Select **Menu** > **Photos** and from the following:

- **All** — View all images and videos.
- **Captured** — View images captured and video clips recorded with the camera of your device.
- **Downloads** — View downloaded video clips.



Images and video clips can also be sent to you from a compatible device. To be able to view a received image or video clip in Photos, you must first save it.

The images and video clip files are in a loop and ordered by date and time. The number of files is displayed. To browse the files one by one, scroll left or right. To browse files in groups, scroll up or down.

To open a file, select the file. When an image opens, to zoom in the image, use the zoom keys. The zooming ratio is not stored permanently.

To edit an image or a video clip, select **Options** > **Edit**.

To see where an image marked with was captured, select **Options** > **Show on map**.

To print your images on a compatible printer, select **Options** > **Print**.

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To move images to an album for later printing, select **Options** > **Add to album** > **Print later**.

Active toolbar

The active toolbar is available only when you have selected an image or a video clip in a view.

In the active toolbar, go to different items, and select the desired option. The available options vary depending on the view you are in and whether you have selected an image or a video clip.

To hide the toolbar, select **Options** > **Hide icons**. To activate the active toolbar when it is hidden, press the scroll key.

Select an image or a video clip and from the following:

- Play the video clip.
- Send the image or video clip.
- Upload the image or video clip to a compatible online album (only available if you have set up an account for a compatible online album).
- Add the item to an album.
- Manage tags and other properties of the item.

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Connectivity

At Nokia, we understand how important it is that your mobile phone or device operates reliably and that your personal content is saved safely.

Any information from an unknown or unreliable source, via Bluetooth connectivity, multimedia message, or cable, may harm your PC, mobile phone, or device. You may protect your mobile phone or device from damage and keep it secured by following simple measures:

- Always keep Bluetooth connectivity closed unless you want your phone or device to be visible to others.
- Always be alert when receiving information from an unknown or untrustworthy source.
- Do not download or install any applications that may include software harmful to your phone or device.
- Always download and install applications or content from trusted or well-known sources, such as Nokia Software Market, where good protection is provided against viruses and other harmful software.

Your device offers several options to connect to the internet or to another compatible device or PC.

For more information on different connection methods and applications, such as Bluetooth, data cable, and sync, see the extended user guide on the product support pages of the Nokia website.

Bluetooth

Select **Menu** > **Settings** > **Connectivity** > **Bluetooth**.

About Bluetooth

Bluetooth technology in your device enables wireless connections between electronic devices within a range of 10 metres (33 feet). A Bluetooth connection can be used to send images, videos, text, business cards, calendar notes, or to connect wirelessly to devices that use Bluetooth technology.

Since devices using Bluetooth technology communicate using radio waves, your device and the other devices do not need to be in direct line-of-sight. The two devices only need to be within a maximum of 10 metres of each other, although the connection can be subject to interference from obstructions such as walls or other electronic devices.

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Several Bluetooth connections can be active at a time. For example, if your device is connected to a headset, you can also transfer files to another compatible device at the same time.

This device is compliant with Bluetooth Specification 2.0 + EDR supporting the following profiles: Dial-Up Networking (DUN), Object Push Profile (OPP), File Transfer Profile (FTP), Hands Free Profile (HFP), Headset Profile (HSP), Basic Imaging Profile (BIP), Remote SIM Access Profile (SimAP), Device Identification Profile (DI), Phonebook Access Profile (PBAP), Generic Audio/Video Distribution Profile (GAVDP), Audio/Video Remote Control Profile (AVRCP), Advanced Audio Distribution Profile (A2DP). To ensure interoperability between other devices supporting Bluetooth technology, use Nokia approved accessories for this model. Check with the manufacturers of other devices to determine their compatibility with this device.

Features using Bluetooth technology increase the demand on battery power and reduce the battery life.

Send and receive data with Bluetooth

Select **Menu** > **Settings** > **Connectivity** > **Bluetooth**.

1. When you activate Bluetooth connectivity for the first time, you are asked to name your device. Give your device a unique name to make it easy to recognise if there are several Bluetooth devices nearby.
2. Select **Bluetooth** > **On**.
3. Select **My phone's visibility** > **Shown to all** or **Define period**. If you select **Define period**, you need to define the time during which your device is visible to others. Your device and the name you entered can now be seen by other users with devices using Bluetooth technology.
4. Open the application where the item you want to send is stored.
5. Select the item and **Options** > **Send** > **Via Bluetooth**. The device searches for other devices using Bluetooth technology within range and lists them.

   Tip: If you have sent data using Bluetooth connectivity before, a list of the previous search results is displayed. To search for more Bluetooth devices, select **More devices**.
6. Select the device with which you want to connect. If the other device requires pairing before data can be transmitted, you are asked to enter a passcode.

When the connection has been established, **Sending data** is displayed.

The Sent folder in the Messaging application does not store messages sent using Bluetooth connectivity.

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To receive data using Bluetooth connectivity, select **Bluetooth** > **On** and **My phone's visibility** > **Shown to all** to receive data from a non-paired device or **Hidden** to receive data from a paired device only. When you receive data through Bluetooth connectivity, depending on the settings of an active profile, a tone sounds, and you are asked if you want to accept the message in which the data is included. If you accept, the message is placed in the Inbox folder in the Messaging application.

Tip: You can access the files in the device or on the memory card using a compatible accessory that supports the File Transfer Profile Client service (for example, a laptop computer).

A Bluetooth connection is disconnected automatically after sending or receiving data. Only Nokia Ovi Suite and some accessories such as headsets may maintain a connection even if not actively used.

Security tips

When you are not using Bluetooth connectivity, select **Bluetooth** > **Off** or **My phone's visibility** > **Hidden**.

Do not pair with an unknown device.

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Browser

About Browser

Select **Menu** > **Web**.

With the Browser application, you can view hypertext markup language (HTML) web pages on the internet as originally designed. You can also browse web pages that are designed specifically for mobile devices, and use extensible hypertext markup language (XHTML), or the wireless markup language (WML).

The XHTML browser in this device supports the Unicode encoding format.

If the web page displays unreadable characters while browsing, select **Menu** > **Web** and **Options** > **Settings** > **Page** > **Default encoding**, and a corresponding encoding.

To browse the web, you need to have an internet access point configured in your device. The browser requires network service.

Browse the web

Select **Menu** > **Web**.

Shortcut: To start the browser, press and hold **0** in the home screen.

To browse the web, in the bookmarks view, select a bookmark, or start to enter a web address (the field opens automatically), and select **Go to**.

Some web pages may contain material, such as graphics and sounds, that requires a large amount of memory to view. If your device runs out of memory while loading such a web page, the graphics on the page are not shown.

To browse web pages with graphics disabled, to save memory and increase the page loading speed, select **Options** > **Settings** > **Page** > **Load content** > **Text only**.

To enter a web address, select **Options** > **Go to** > **New web page**.

To refresh the content of the web page, select **Options** > **Web page options** > **Reload**.

To save the current web page as a bookmark, select **Options** > **Web page options** > **Save as bookmark**.

To view snapshots of the web pages you have visited during the current browsing session, select **Back** (available if **History list** is activated in the browser

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settings and the current web page is not the first web page you visit).

To prevent or allow the automatic opening of multiple windows, select **Options** > **Web page options** > **Block pop-ups** or **Allow pop-ups**.

To view the shortcut key map, select **Options** > **Keypad shortcuts**. To edit the shortcut keys, select **Edit**.

Tip: To minimise the browser without exiting the application or connection, press the end key once.

Browser toolbar

The browser toolbar helps you select frequently used functions of the browser.

To open the toolbar, press and hold the scroll key on a blank spot on a web page. To move within the toolbar, scroll left or right. To select a feature, press the scroll key.

From the toolbar, select from the following:

- **Recently visited pages** — View a list of the web addresses you visit frequently.
- **Overview** — View an overview of the current web page.
- **Search by keyword** — Search on the current web page.
- **Reload** — Refresh the web page.
- **Subscribe to web feeds** (if available) — View a list of available web feeds on the current web page, and subscribe to a web feed.

Empty the cache

The information or services you have accessed are stored in the cache memory of the device.

A cache is a memory location that is used to store data temporarily. If you have tried to access or have accessed confidential information requiring passwords, empty the cache after each use.

To empty the cache, select **Options** > **Clear privacy data** > **Cache**.

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Music

Warning: Continuous exposure to high volume may damage your hearing. Listen to music at a moderate level, and do not hold the device near your ear when the loudspeaker is in use.

Digital rights management (DRM) protected content comes with an associated licence that defines your rights to use the content.

If your device has OMA DRM-protected content, to back up both the licence and the content, use the backup feature of Nokia Ovi Suite.

Other transfer methods may not transfer the licence which need to be restored with the content for you to be able to continue the use of OMA DRM-protected content after the device memory is formatted. You may also need to restore the licence in case the files on your device get corrupted.

If your device has WMDRM-protected content, both the licence and the content will be lost if the device memory is formatted. You may also lose the licence and the content if the files on your device get corrupted. Losing the licence or the content may limit your ability to use the same content on your device again. For more information, contact your service provider.

Some licence may be connected to a specific SIM card, and the protected content can be accessed only if the SIM card is inserted in the device.

For more information on music player, FM radio, internet radio, and Nokia Podcasting, see the extended user guide on the product support pages of the Nokia website.

FM radio

The FM radio depends on an antenna other than the wireless device antenna. A compatible headset or accessory needs to be attached to the device for the FM radio to function properly.

To open the radio, select **Menu** > **Music** > **FM radio**.

When you open the radio for the first time, a wizard helps you to save local radio stations (network service). To check availability and costs of the visual service and station directory services, contact your service provider.

Listen to the radio

Select **Menu** > **Music** > **FM radio**.

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The quality of the radio broadcast depends on the coverage of the radio station in that particular area.

You can make a call or answer an incoming call while listening to the radio. The radio is muted when there is an active call.

To start a station search, select ▲ or ▼.

If you have saved radio stations in your device, to go to the next or previous saved station, select ⏭ or ⏮.

Select **Options** and from the following:

- **Activate loudspeaker** — Listen to the radio using the loudspeaker.
- **Manual tuning** — Change the frequency manually.
- **Station directory** — View available stations based on location (network service).
- **Save station** — Save the station to which you are currently tuned to your station list.
- **Stations** — Open the list of your saved stations.
- **Play in background** — Return to the standby mode while listening to the FM radio in the background.

Nokia Music Store

Select **Menu** > **Music** > **Music store**.

In the Nokia Music Store (network service) you can search, browse, and purchase music to download to your device. To purchase music, you first need to register for the service.

To access the Nokia Music Store, you must have a valid internet access point defined in the device.

Nokia Music Store is not available for all countries or regions.

To find more music in the different categories, select **Options** > **Find in Music store**.

To select the access point to use with the Nokia Music Store, select **Default access point**.

Music player

Music player supports files formats such as AAC, AAC+, eAAC+, MP3, and WMA. Music player does not necessarily support all features of a file format or all the variations of file formats.

You can also use Music player to listen to podcast episodes. Podcasting is the method for delivering audio or video content over the internet using either RSS or Atom technologies for playback on mobile devices and PCs.

Play a song or a podcast episode

To open Music player, select **Menu** > **Music** > **Music player**.

You may have to refresh the music and podcast libraries after you have updated the song or podcast selection in your device. To add all available items to

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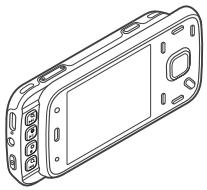
the library, in the Music player main view, select **Options** > **Refresh library**.

To play a song or a podcast episode, do the following:

1. Select categories to navigate to the song or podcast episode you want to hear.
2. To play the selected files, press ▶ ❚❚.



To pause playback, press ▶ ❚❚; to resume, press ▶ ❚❚ again. To stop playback, press ■.

To fast forward or rewind, press and hold ▶▶| or |◀◀.

To go to the next item, press ▶▶|. To return to the beginning of the item, press |◀◀. To skip to the previous item, press |◀◀ again within 2 seconds after a song or podcast has started.

To switch random play (🔀) on or off, select **Options** > **Shuffle play**.

To repeat the current item (🔂), all items (🔁), or to switch repeat off, select **Options** > **Repeat**.

If you play podcasts, shuffle and repeat are automatically switched off.

To adjust the volume, press the volume key.

To modify the tone of the music playback, select **Options** > **Equaliser**.

To modify the balance and stereo image or to enhance bass, select **Options** > **Settings**.

To view a visualisation during playback, select **Options** > **Show visualisation**.

To return to the standby mode and leave the player playing in the background, press the end key, or to switch to another open application, press and hold the menu key.

To close the player, select **Options** > **Exit**.

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Positioning (GPS)

You can use applications such as GPS data to determine your location, or measure distances and coordinates. These applications require a GPS connection.

About GPS

The Global Positioning System (GPS) is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. The accuracy of location data can be affected by adjustments to GPS satellites made by the United States government and is subject to change with the United States Department of Defense civil GPS policy and the Federal Radionavigation Plan. Accuracy can also be affected by poor satellite geometry. Availability and quality of GPS signals may be affected by your location, buildings, natural obstacles, and weather conditions. GPS signals may not be available inside buildings or underground and may be impaired by materials such as concrete and metal.

GPS should not be used for precise location measurement, and you should never rely solely on location data from the GPS receiver and cellular radio networks for positioning or navigation.

The trip meter has limited accuracy, and rounding errors may occur. Accuracy can also be affected by availability and quality of GPS signals.

Different positioning methods can be enabled or disabled in positioning settings.

Assisted GPS (A-GPS)

Your device also supports assisted GPS (A-GPS).

A-GPS is requires network support.

Assisted GPS (A-GPS) is used to retrieve assistance data over a packet data connection, which assists in calculating the coordinates of your current location when your device is receiving signals from satellites.

When you activate A-GPS, your device receives useful satellite information from an assistance data server over the cellular network. With the help of assisted data, your device can obtain the GPS position faster.

Your device is preconfigured to use the Nokia A-GPS service, if no service provider-specific A-GPS settings are available. The assistance data is retrieved from the Nokia A-GPS service server only when needed.

To disable the A-GPS service, select **Menu** > **Applications** > **GPS data** and **Options** >

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Positioning settings > Positioning methods > Assisted GPS > Disable.

You must have an internet access point defined in the device to retrieve assistance data from the Nokia A-GPS service over a packet data connection. The access point for A-GPS can be defined in positioning settings. Only a packet data internet access point can be used. Your device asks you to select the internet access point when GPS is used for the first time.

Hold your device correctly

When using the GPS receiver, ensure you do not cover the antenna with your hand.

Establishing a GPS connection may take from a couple of seconds to tens of minutes. Establishing a GPS connection in the car, in bad weather conditions, or in a challenging geographical environment may take longer.

The GPS receiver draws its power from the device battery. Using the GPS receiver may drain the battery faster.

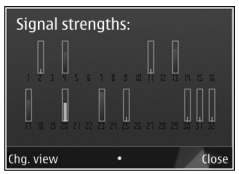
Tips on creating a GPS connection

If your device cannot find the satellite signal, consider the following:

- If you are indoors, go outdoors to receive a better signal.
- If you are outdoors, move to a more open space.
- Ensure that your hand does not cover the GPS antenna of your device.
- If the weather conditions are bad, the signal strength may be affected.
- Some vehicles have tinted (athermic) windows, which may block the satellite signals.

Check satellite signal status

To check how many satellites your device has found, and whether your device is receiving satellite signals, select Menu > Applications > GPS data and Options > Satellite status.



If your device has found satellites, a bar for each satellite is displayed in the satellite information view. The longer the bar, the stronger the satellite signal is. When your device has received enough data from the satellite signal to

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calculate the coordinates of your location, the bar colour changes.

Initially, your device must receive signals from at least four satellites to be able to calculate the coordinates of your location. When the initial calculation has been made, it may be possible to continue calculating the coordinates of your location with three satellites. However, the accuracy is generally better when more satellites are found.

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Nokia Maps

For more information on Maps, see the extended user guide on the product support pages of the Nokia website.

About Maps

With Maps, you can see your current location on the map, browse maps of different cities and countries, search for places, plan routes from one location to another, save locations, and send them to compatible devices. You can also purchase licences for traffic information and navigation services, if available for your country or region.

When you use Maps for the first time, you may need to select an internet access point for downloading maps.

If you browse to an area which is not covered by maps already downloaded in your device, a map for the area is automatically downloaded through the internet. Some maps may be available in your device or on a memory card. You can also use the Nokia Map Loader PC software to download maps. To install Nokia Map Loader to a compatible PC, see www.nokia.com/maps.

Tip: To avoid data transfer costs, you can also use Maps without an internet connection, and browse the maps that are saved in your device or memory card.

Note: Downloading content such as maps, satellite images, voice files, guides or traffic information may involve transmission of large amounts of data (network service).

Almost all digital cartography is inaccurate and incomplete to some extent. Never rely solely on the cartography that you download for use in this device.

Network positioning

Select **Menu** > **Maps**.

You can use the mobile network to find your current location, even indoors. This is faster but less accurate than with GPS, and you cannot use the location as a starting point for navigation.

To use the mobile network for positioning, select the network-based positioning method from the device settings. When you start the Maps application and your

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GPS connection is ready, GPS replaces mobile network as the positioning method.

Compass

Select **Menu** > **Maps**.

Your device has an internal compass. When the compass is enabled, the circle around the compass is green, and the map view rotates automatically according to the direction to which the top of the device is pointing.

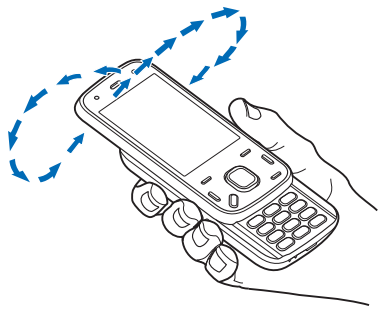
The compass has limited accuracy. Electromagnetic fields, metal objects, or other external circumstances may also affect the accuracy of the compass. The compass should always be properly calibrated.

The compass is active by default. To turn off the compass, in the Maps main view, select **Options** > **Tools** > **Turn compass off**. When the compass is not turned on, the circle around the compass is white, and the map view does not rotate automatically. Turning off the compass is only valid for the current session. When you open Maps the next time, it will be turned on automatically.

Before you can calibrate the compass you should check the following:

- GPS connection is active.
- The device sensors are on. Select **Menu** > **Settings** > **Phone** > **Sensor settings** > **Sensors** > **On**.
- The map is zoomed to your GPS position. Otherwise the compass icon is not shown.

To calibrate the compass:



Rotate the device around all axes in a continuous movement until the calibration indicator changes its colour to green . If the indicator is yellow , the accuracy of the compass is low. If the indicator is red, the compass is not calibrated.

Move on a map

When the GPS connection is active, shows your current location on the map.

To view your current or last known location, select **Options** > **My position**.

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To move on the map, scroll up, down, left, or right with the scroll key. The map is oriented towards north by default.

When you have an active data connection and browse the map on the display, a new map is automatically downloaded if you scroll to an area not covered by the maps that have already been downloaded. The maps are automatically saved in the device memory or on a compatible memory card, if inserted.

To zoom in and out on the map, press * and #.

To change the map type, select **Options** > **Map mode**.

Display indicators

The GPS indicator shows the availability of the satellite signals. One bar is one satellite. When the device tries to find satellite signals, the bar is yellow. When the device receives enough data from the satellites for GPS to calculate your location, the bar turns green. The more green bars, the more reliable the location calculation.

Initially, your device must receive signals from at least four satellites to calculate your location. After the initial calculation, signals from three satellites may be enough.

The data transfer indicator shows the internet connection used, and the amount of data transferred since the application started.

Plan a route

To plan a route, scroll to your start point on the map, press the scroll key, and select **Add to route**. To add the destination and more locations to the route, select **Add new route point**. If you want to use your current position as the starting point, add the destination to the route.

To change the order of the locations in the route, scroll to a location, press the scroll key, and select **Move**. Scroll to the place where you want to move the location, and select **Select**.

To edit the route, press the scroll key, and select **Edit route**.

To show the route on the map, select **Show route**.

To navigate to the destination by car or on foot, if you have purchased a licence for these services, select **Show route** > **Options** > **Start driving** or **Start walking**.

To save the route, select **Show route** > **Options** > **Save route**.

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Traffic and safety

The real-time traffic information service provides information about traffic events that may affect your travel. You can purchase and download the traffic information service to your device, if available in your country or region.

Note: Downloading content such as maps, satellite images, voice files, guides or traffic information may involve transmission of large amounts of data (network service).

Content such as satellite images, guides, weather and traffic information and related services are generated by third parties independent of Nokia. The content may be inaccurate and incomplete to some extent and is subject to availability. Never rely solely on the aforementioned content and related services.

To purchase a licence for the traffic information service, select **Options** > **Shop & Licenses** > **Shop** > **Traffic & Safety %s**.

When you purchase the licence, you also get the notification service for speed cameras, if available for your country or region.

The location of speed cameras can be shown on your route during navigation and tracking, if this feature is enabled. Some jurisdictions prohibit or regulate the use of speed camera location data. Nokia is not responsible for the accuracy, or the consequences of use of speed camera location data.

To view information about traffic events, select **Options** > **Traffic info**. The events are shown on the map as triangles and lines.

To view the details of an event, including possible rerouting options, select **Options** > **Open**.

To update the traffic information, select **Update traffic info**.

To set your device to plan a new route automatically to avoid traffic events, in the main view, select **Options** > **Tools** > **Settings** > **Navigation** > **Reroute due to traffic**.

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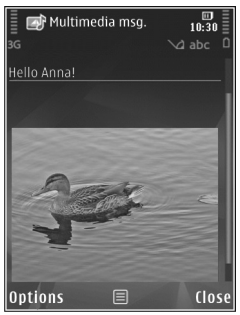
Write and send messages

Select **Menu** > **Messaging**.

Important: Exercise caution when opening messages. Messages may contain malicious software or otherwise be harmful to your device or PC.

Before you can create a multimedia message or write an e-mail, you must have the correct connection settings defined.



The wireless network may limit the size of MMS messages. If the inserted picture exceeds this limit, the device may make it smaller so that it can be sent by MMS.

Only devices that have compatible features can receive and display multimedia messages. The appearance of a message may vary depending on the receiving device.

Check the size limit of e-mail messages with your service provider. If you attempt to send an e-mail message that exceeds the size limit of the e-mail server, the message is left in the Outbox folder, and the device attempts to resend it periodically. Sending an e-mail requires a data connection, and continuous attempts to resend the e-mail may incur charges from your service provider. In the Outbox folder, you can delete such a message or move it to the Drafts folder.

Messaging requires network services.

1. To send a text or a multimedia message, select **New message**.

   To send an audio or e-mail message, select **Options** > **Create message**, and the relevant option.
2. To select recipients or groups from the contacts list, select **To**. To enter the recipient's phone number or e-mail address manually, select the To field. To add a semicolon (;) that separates the recipients, press *.
3. In the Subject field, enter the subject of the e-mail or multimedia message. If the Subject field is not visible, select **Options** > **Message header fields** to change the fields that are visible.
4. In the message field, write the message.
5. To add an object to a message or e-mail, select and the relevant type of content.

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The message type may change to multimedia message based on the inserted content.

6. To send the message or e-mail, select , or press the call key.

Your device supports text messages beyond the limit for a single message. Longer messages are sent as two or more messages. Your service provider may charge accordingly. Characters with accents, other marks, or some language options take more space, and limit the number of characters that can be sent in a single message.

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Make calls

For more information on different call types, options during calls, speed dialling, voice dialling, call waiting, and log, see the extended user guide on the product support pages of the Nokia website.

Calls

1. In the standby mode, enter the phone number, including the area code. To remove a number, press **C**.

   For international calls, press * twice for the + character (which replaces the international access code), and enter the country code, area code (omit the leading zero if necessary), and phone number.
2. To make the call, press the call key.
3. To end the call (or to cancel the call attempt), press the end key.

   Pressing the end key always ends a call, even if another application is active.

To make a call from Contacts, select **Menu** > **Contacts**. Scroll to the desired name, or enter the first letters of the name to the search field. To call the contact, press the call key. If you have saved several numbers for a contact, select the desired number from the list, and press the call key.

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Write text

The input methods provided in the device may vary according to different sales markets.

Input method indicators

The input method indicator is shown in the navigating field or on the upper right corner of the inputting frame. Please note that not all input methods are available under all circumstances. Press * to view other available input methods.

Default input method

Please notice that aiming for different requirements for various characters' input positions, the device has preset the relevant default input methods and usable input methods. For the input positions where the default input method is Pinyin, you could change into other input method as default when necessary.

Select **Menu** > **Tools** > **Settings** and **General** > **Personalisation** > **Language** > **Default input**. This selection is only visible when you select a Chinese language in the writing language setting.

Switch input methods

Press * to select desired input method from the selection list (the currently the active input method is not listed).

Press # repeatedly to switch among different character modes.

Pinyin input method

Pinyin symbols are mapped to number keys. You can press the corresponding number key once regardless of the intended symbol's position on the key. The device will make logical combinations and display all feasible matches to those Pinyin symbols you just pressed.

Use Pinyin input method

1. Input Pinyin symbols and tones: Press number key once for each Pinyin symbol you want to input (use "v" for "ü"); When you start to input, Chinese input window will be shown on the screen: It shows all the Pinyin letter combinations matching to the keys you pressed; and the candidate Chinese characters

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corresponding to the highlighted Pinyin. The Pinyin letters displayed on the screen are changing frequently during your inputting process. Ignore these changes before you finish inputting the last Pinyin letter.

After inputting all Pinyin letters, you can also press * to input tones. Press * once to input the first tone, twice to input the second tone, and so on. Press * five times to input the neutral tone.

Tip: Press the right selection key to close the Chinese input window.

2. Select desired Pinyin: When several Pinyin letters are listed on the screen, you could scroll in the relevant direction to highlight your desired Pinyin. Press the scroll key to choose the highlighted Pinyin. Thus the selected Pinyin can be displayed in the Pinyin window, and the other Pinyin will disappear, and the candidate list corresponding to this Pinyin can be activated (numbering will be shown on each candidate, and the first candidate is highlighted).
3. View candidate list to find out desired Chinese character: when the candidate Chinese characters exceed one line display, there will be up and down arrows showing at the right end of the candidate list. If you could not find a desired character in the current list, you could scroll up or down to view the previous line or the next line.
4. Input Chinese character: You can press the scroll key or number key to input a candidate.
   - Press scroll key to input: Scroll to left or right to highlight the desired candidate, and then press to input this Chinese character.
   - Press number key to input: Directly press the number key matching to the numbering of the candidate character.

   While your input candidate is inserted in the text input window, the Chinese input window will be closed and the predictive list will be shown at the same time.
5. Input predictive character: If the current line of predictive character list does not show your desired character, you could scroll down to view the next line of predictive character list. Find your desired character, if it locates in the first highlighted position in the list, you could directly press the scroll key to input it; otherwise, you could first scroll right to activate the predictive character list (the characters in the list will have numbering, meanwhile, the second character in the list will be highlighted), then you could either press the number key matching to the predictive character numbering to input it, or scroll in the relevant direction to find and highlight your desired predictive character and then press the scroll key to input it.

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When you do not need the predictive list or you could not find your desired Chinese character in the predictive list, while the predictive list is not activated, you could directly input the Pinyin for next Chinese character. While the predictive list is already activated, you have to press the right selection key to close the predictive list first and then continue to input the Pinyin for the next Chinese character.

Pinyin input example: To input characters for "Pinyin"

1. Enter into the text editing window for writing a text message or any other possible position for inputting Chinese character, and switch to Pinyin input mode.
2. Input the Pinyin letter pin for "pin": press **7**, **4**, **6** in sequence, and finally input ***** once for the 1st tone.
3. Scroll right to highlight pin- and then press the scroll key to activate the candidate list.
4. The character for "pin" will be shown in the candidate list. If this character locates in the first highlighted position of the candidate list, you could directly press the scroll key to input it, otherwise, you should first scroll right to highlight this character and then press the scroll key to input it.
5. After you input the character for "pin", the predictive list will be shown, and the character for "yin" is shown in the predictive list. You could use the same method described in item 4 to input this character.

Stroke input method

The strokes are classified according to the following table.

數字鍵	基本筆劃	筆劃變形舉例	例字	說明
1	橫 一	一 ㇀ ㇇	十、慧 七、冰 羽、輸、泰	提 (㇀) 歸爲橫 基本運筆方向：左→右
2	豎 丨	丨 亅	十 了、小、利	豎鉤 (亅) 歸爲豎 基本運筆方向：上→下
3	撇 丿	丿	人、川、牛 小、常	基本運筆方向：上→左下 (注意撇與提的區別)
4	點 丶	丶 ㇔	主 心、家 入、邊	捺 (乀) 歸爲點 基本運筆方向： 左上→右下 (注意左點也包括在內)
5	折 𠃌	乙 𠃌 ㇁㇆ ㇉ ㇊㇋ ㇌ ㇎ ㇈ ㇂ ㇅ ㇃ ㇍ ㇏ ㇐㇑	乞 安 口、習、內 除、建 與、鳥 鳴、凹 兒、飛 各 以 能、雲、好 獨 代、心	包含各種帶轉折的筆劃 (注意左豎鉤除外)

Use Stroke input method

1. Input strokes: The strokes constituting Chinese characters have been divided into five categories: Horizontal, Vertical, Left-falling, Dot and Turning.

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Each category corresponds to a number key respectively **1**, **2**, **3**, **4**, **5**.

You could press the number keys to input the strokes according to the standard stroke order. When you start inputting, the Chinese input window will be shown on the screen, which shows your input strokes and the candidate Chinese characters matching to your input strokes.

If you are not sure about a certain stroke classification, press **6** as a substitution for that stroke, then continue with the subsequent strokes. A question mark appears in the input area to represent that stroke.

Tip: Press the right selection key to close the Chinese input window.

2. Input Chinese character: The first character in the candidate list is highlighted, press the scroll key to input this character. If your desired character does not locate in the first position of the candidate list, you should scroll right to activate the candidate list (the candidates in the list will have numbering on it, and the second character will be highlighted), then you could either press the number key matching to the character numbering to input it, or scroll in the relevant direction to find and highlight your desired character and then press the scroll key to input it.

   While your input candidate is inserted in the text input window, the Chinese input window will be closed and the predictive list will be shown at the same time. When the candidate list exceeds one line, there will be up and down arrows showing at the right end of the candidate list, you could scroll up or down to view the previous or next line of the candidate list, while the candidate list is not activated, so you could still revise your input strokes during viewing.

3. Input predictive character: If the current line of the predictive list does not show your desired character, scroll down to view the next line of the predictive list. Find your desired character, if it locates in the 1st highlighted position of the predictive list, you could directly press the scroll key to input it, otherwise, you have to scroll right to activate the predictive list (the characters in the list will have numbering, and the second character will be highlighted), then you could either press the number key matching to the predictive character numbering to input it, or scroll to your desired predictive character and then press the scroll key to input it.

   When you do not need the predictive list or you could not find your desired Chinese character in the predictive list, while the predictive list is not activated, you could directly input the strokes for next Chinese character. While the predictive list is already activated, you have to press the right selection key to close the predictive list first and

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then continue to input the strokes for next Chinese character.

Stroke input example: To input characters for "birthday"

1. Enter into the text editing window for writing text message or any other possible position for inputting Chinese character, and switch to stroke input mode.
2. Input the strokes for "birth": Press **3**, **1**, **1** in sequence.
3. The character for "birth" will be shown in the candidate list. If this character locates in the first highlighted position of the list, you could directly press the scroll key to input it, otherwise, you have to first scroll right to find and highlight this character and then press the scroll key to input it.
4. After inputting the character for "birth", the predictive list will be shown. The character "day" is shown in the predictive list, and you could use the same method described in item 3 to input it.

Insert special characters and punctuation marks in Chinese input mode

1. First close the Chinese input window, and then press and hold ***** to open a list of special characters and punctuation marks.
2. Scroll in the relevant direction (up, down, left or right) to reach and highlight your needed special character or punctuation mark, and press the scroll key to enter it.

Traditional text input

Press a number key (**1**–**9**) repeatedly until the desired character appears. There are more characters available for a number key than are printed on the key.

If the next letter is located on the same key as the present one, wait until the cursor appears (or scroll right to end the time-out period), and enter the letter.

To insert a space, press **0**. To move the cursor to the next line, press **0** three times.

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Predictive text input

With predictive input, you can enter any letter with a single keypress. Predictive text input is based on a built-in dictionary to which you can add new words.

1. To turn predictive text input on or off in the general settings, select **Menu** > **Tools** > **Settings** and **General** > **Personalisation** > **Language** > **Predictive text**.
2. To write the desired word, press the keys **2**–**9**. Press each key only once for one letter. For example, to write "Nokia" when the English dictionary is selected, press **6** for N, **6** for o, **5** for k, **4** for i, and **2** for a.

   The word suggestion changes after each keypress.
3. When you finish writing the word correctly, scroll right to confirm it, or press **0** to add a space.

   If the word is not correct, press ***** repeatedly to view the matching words the dictionary has found one by one.

   If the ? character is shown after the word, the word is not in the dictionary. To add a word to the dictionary, select **Spell**, enter the word using traditional text input, and select **OK**. The word is added to the dictionary. When the dictionary is full, a new word replaces the oldest added word.
4. Start writing the next word.

Tips on text input

To insert a number in the letter mode, press and hold the desired number key.

To switch between the different character modes, press **#**.

To delete a character, press **C**. To delete more than one character, press and hold **C**.

The most common punctuation marks are available under **1**. To scroll them through one by one, if you use traditional text input, press **1** repeatedly. If you use predictive text input, press **1**, and then ***** repeatedly.

To open a list of special characters, press and hold *****.

Tip: To select several special characters from the special characters list, press **5** after each highlighted character.

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Personalise your device

You can personalise your device by changing the standby mode, main menu, tones, themes, or font size. Most of the personalisation options, such as changing the font size, can be accessed through the device settings.

For information on Themes and 3-D tones, see the extended user guide on the product support pages of the Nokia website.

Set tones

Select **Menu** > **Tools** > **Settings** and **General** > **Personalisation** > **Profiles**.

To modify a profile, scroll to the profile, and select **Options** > **Personalise**.

To set ringing tones, select **Ringing tone** and a ringing tone. To select a bookmark and open a connection to a web page to download more tones, select **Download sounds** (network service).

To set other tones, such as key tones and warning tones, select the desired setting.

If you want the caller's name to be spoken when your device rings, select **Options** > **Personalise** > **Say caller's name** > **On**. The caller's name must be found in the contacts list.

Modify the standby mode

To change the look of the standby mode, select **Menu** > **Tools** > **Settings** and **General** > **Personalisation** > **Standby mode**. The active standby display shows application shortcuts, and events from applications such as calendar, e-mail, and music player.

To change the selection key shortcuts or the default shortcut icons in the active standby mode, select **Tools** > **Settings** > **General** > **Personalisation** > **Standby mode** > **Shortcuts**.

To change the clock shown in the standby mode, select **Menu** > **Applications** > **Clock** and **Options** > **Settings** > **Clock type**.

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You can also change the standby mode background image or what is shown in the power saver in the device settings.

Tip: To check whether there are applications running in the background, press and hold the menu key.To close the applications you do not use, scroll to an application in the list, and press **C**. Leaving applications running in the background increases the demand on battery power.

Modify the main menu

To change the main menu view, in the main menu, select **Menu** > **Tools** > **Settings** and **General** > **Personalisation** > **Themes** > **Menu view**. You can change the main menu to be shown as **Grid**, **List**, **Horseshoe**, or **V-shaped**.

To rearrange the main menu, in the main menu, select **Options** > **Move**, **Move to folder**, or **New folder**. You can move applications used less frequently into folders and place applications that you use more often into the main menu.

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Green tips

Here are tips on how you can contribute to protecting the environment.

Save energy

When you have fully charged the battery and disconnected the charger from the device, unplug the charger from the wall outlet.

You do not need to charge your battery so often if you do the following:

- Close and disable applications, services, and connections when not in use.
- Decrease the brightness of the screen.
- Set the device to enter the power saver mode after the minimum period of inactivity, if available in your device.
- Disable unnecessary sounds, such as keypad and ringing tones.

Recycle

Most of the materials in a Nokia phone are recyclable. Check how to recycle your Nokia products at www.nokia.com/werecycle, or with a mobile device, www.nokia.mobi/werecycle.

Recycle packaging and user guides at your local recycling scheme.

Save paper

This user guide helps you get started with your device. For more detailed instructions, open the in-device help (in most applications, select **Options** > **Help**). For further support, see www.nokia.com/support.

Learn more

For more information on the environmental attributes of your device, see www.nokia.com/ecodeclaration.

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Accessories

Warning: Use only batteries, chargers, and accessories approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or warranty, and may be dangerous. In particular, use of unapproved chargers or batteries may present a risk of fire, explosion, leakage, or other hazard.

For availability of approved accessories, please check with your dealer. When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.

Nokia original accessories

Warning: Use only batteries, chargers, and accessories approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or warranty, and may be dangerous. In particular, use of unapproved chargers or batteries may present a risk of fire, explosion, leakage, or other hazard.

For availability of approved accessories, check with your dealer.

An extensive range of accessories is available for your device. For more details, seewww.nokia.com.cn.

All accessories for Nokia devices are supplied in an elegant sales package. An accessory bought without a separate package is not an original Nokia accessory.

How to buy Nokia original accessories:

1. Go to an authorised retailer for Nokia original accessories.

   For information on the nearest authorised retailer for Nokia accessories, check with a Nokia original accessory distributor.

   * When you are buying an accessory, always ask the dealer to issue a separate invoice listing the price and model number, which is helpful in safeguarding your own rights.
2. Visit a Nokia online shop at www.shop.nokia.com.cn.

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Practical rules about accessories

- Keep all accessories out of the reach of small children.
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.
- Check regularly that accessories installed in a vehicle are mounted and are operating properly.
- Installation of any complex car accessories must be made by qualified personnel only.

Why use original accessories?

As key components of your handset, batteries and chargers play a critical role in making sure the handset is operating properly and safely. As shown by our long-term customer surveys and after-sales services, handsets fail in many cases by using unapproved accessories, especially unapproved batteries and chargers.

Dangers of using unapproved batteries and chargers

- Short lifetime, with charging and discharging times noticeably less than those of original batteries.
- Consequent much shorter lifetime of the handset, unstable power supply that prevents the handset circuit from functioning properly, which causes lasting damages.
- Poor performance and reliability of the handset, undermined voice quality and frequent breakdown.
- Potential burning or explosion that endangers consumer's safety.

Benefits of using Nokia original accessories

- Adequate safety.
- High quality after-sales maintenance and services that are available to original accessories only.
- Nokia warranty does not apply to handset failures attributable to the use of non-original Nokia accessories.

False: Handset battery is a simple product that combines a group of linked cells within a single package.

True: A number of high-tech designs and high quality raw materials are necessary for a handset battery to provide stable and lasting performance. A battery manufactured in a slipshod way differs from an original product on process, design, and raw material considerably, hence dramatic difference in performance and safety.

False: All accessories with the Nokia trademark are original ones.

True: Nokia original accessories are supplied in an elegant sales package (complying with national package regulations), and each battery carries a hologram label. It is recommended that consumers are

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aware of counterfeit Nokia accessories on the market. In particular, some dealers might remove the original battery from the supplied handset, which violates our distribution policies and infringes on consumer's rights.

False: Despite low quality, counterfeit battery is much cheaper and is worthwhile even if it requires frequent replacement.

True: Unapproved batteries and chargers are not only of short lifetime and poor performance, but will noticeably undermine the handset's performance and reduce its lifetime. It is also deprived of comprehensive after-sales maintenance and repair. Most important, unapproved batteries and chargers pose safety threats to consumers. Losses in these regards far exceed the savings on price. In fact, with inferior raw materials and irregular designs, some counterfeit batteries cost less than 1/10 of original products.

Battery

Type	Talk time	Standby
BL-5K	Up to 4.5 hours/ 6.9 hours (WCDMA/GSM)	Up to 363 hours/ 363 hours (WCDMA/GSM)

Important: Battery talk and stand-by times are estimates and only possible under optimal network conditions. Actual battery talk and standby times depend on SIM cards, features used, battery age and condition, temperatures to which battery is exposed, network conditions, and many other factors, and may be significantly shorter than those specified above. Ringing tones, hands free call handling, use in digital mode, and other features will also consume the battery, and the amount of time a device is used for calls will affect its stand-by time. Likewise, the amount of time that the device is turned on and in the standby mode will affect its talk time.

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Battery

Battery and charger information

Your device is powered by a rechargeable battery. The battery intended for use with this device is BL-5K. Nokia may make additional battery models available for this device. This device is intended for use when supplied with power from the following chargers: AC-10. The exact charger model number may vary depending on the type of plug. The plug variant is identified by one of the following: E, EB, X, AR, U, A, C, K, or UB. For example, the model numbers for the charger can be, among others, AC-10C, AC-10U, AC-10X, etc. The charger model offered to China mainland is AC-10C.

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. Use only Nokia approved batteries, and recharge your battery only with Nokia approved chargers designated for this device.

If a battery is being used for the first time or if the battery has not been used for a prolonged period, it may be necessary to connect the charger, then disconnect and reconnect it to begin charging the battery. 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.

Safe removal. Always switch the device off and disconnect the charger before removing the battery.

Proper charging. Unplug the charger from the electrical plug and the device when not in use. Do not leave a fully charged battery connected to a charger, since overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time.

Avoid extreme temperatures. Always try to 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. Battery performance is particularly limited in temperatures well below freezing.

Do not short-circuit. Accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the positive (+) and negative (-) terminals of the battery. (These look like metal strips on the battery.) This might happen, for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

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

Leak. Do not dismantle, cut, open, crush, bend, puncture, or shred cells or batteries. In the event of a battery leak, prevent battery liquid contact with the skin or eyes. If this happens, flush the affected areas immediately with water, or seek medical help.

Damage. 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.

Correct use. Use the battery only for its intended purpose. Improper battery use may result in a fire, explosion, or other hazard. If the device or battery is dropped, especially on a hard surface, and you believe the battery has been damaged, take it to a service centre for inspection before continuing to use it. Never use any charger or battery that is damaged. Keep your battery out of the reach of small children.

Important: Talk and standby times are estimates only. Actual performance depends on many factors such as network conditions, device settings selected, device features being used (or running in the background), battery condition and ambient temperature. Making calls with the device affects the standby time and the amount of time in standby mode affects the talk time.

Nokia battery authentication guidelines

Always use original Nokia batteries for your safety. To check that you are getting an original Nokia battery, purchase it from a Nokia authorised service centre or dealer, and inspect the hologram label using the following steps:

Authenticate hologram

1. When you look at the hologram on the label, you should see the Nokia connecting hands symbol from one angle and the Nokia Original Enhancements logo when looking from another angle.

2. When you angle the hologram left, right, down and up, you should see 1, 2, 3 and 4 dots on each side respectively.

Successful completion of the steps is not a total assurance of the authenticity of the battery. If you cannot confirm authenticity or if

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you have any reason to believe that your Nokia battery with the hologram on the label is not an authentic Nokia battery, you should refrain from using it, and take it to the nearest Nokia authorised service centre or dealer for assistance.

To find out more about original Nokia batteries, see www.nokia.com/batterycheck

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Taking care of your device

Your device is a product of superior design and craftsmanship and should be treated with care. The following suggestions will help you protect your warranty coverage.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your device does get wet, remove the battery, and allow the device to dry completely before replacing it.
- Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.
- Do not store the device in high or cold temperature. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics. When the device warms to its normal temperature from a cold temperature, moisture can form inside the device and damage electronic circuit boards.
- Do not attempt to open the device other than as instructed in this guide.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device. 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.
- Use only the supplied or an approved replacement antenna. Unauthorised antennas, modifications, or attachments could damage the device and may violate regulations governing radio devices.
- Use chargers indoors.
- Backup all data you want to keep, such as contacts and calendar notes.
- To reset the device from time to time for optimum performance, power off the device and remove the battery.

These suggestions apply equally to your device, battery, charger, or any accessory.

Recycle

Always return your used electronic products, batteries, and packaging materials to dedicated collection points. This way you help prevent uncontrolled waste

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disposal and promote the recycling of materials. Check product environmental information and how to recycle your Nokia products at www.nokia.com/werecycle, or nokia.mobi/werecycle.

China ROHS Table

Toxic or hazardous Substances and Elements	Part name		
	Phone	Battery	Accessories
Lead (Pb)	X	X	X
Mercury (Hg)	0	0	0
Cadmium (Cd)	0	0	0
Hexavalent Chromium (Cr6+)	0	0	0
Polybrominated biphenys(PBB)	0	0	0
Polybrominated diphenyl ethers (PBDE)	0	0	0

0: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T 11363-2006.

X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T 11363-2006.

Notes: The reason for marking "X" is: there is currently no alternative technologies available.

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Additional safety information

Small children

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

Operating environment

This device meets RF exposure guidelines in the normal use position at the ear or at least 1.5 centimetres (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.

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 your device when regulations posted instruct you to do so. Hospitals or health care facilities may use equipment sensitive to external RF energy.

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.

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- 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.

Hearing aids

Some digital wireless devices may interfere with some hearing aids.

Vehicles

RF 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 service the device or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate your warranty. 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 your device or accessories in the air bag deployment area.

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

Potentially explosive environments

Switch off your 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.

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Emergency calls

Important: This device operates using radio signals, wireless networks, landline networks, and user-programmed functions. If your device supports voice calls over the internet (internet calls), activate both the internet calls and the cellular phone. Connections in all conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

To make an emergency call:

1. If the device is not on, switch it on. Check for adequate signal strength. Depending on your device, you may also need to complete the following:
   - Insert a SIM card if your device uses one.
   - Remove certain call restrictions you have activated in your device.
   - Change your profile from Offline or Flight profile to an active profile.
2. Press the end key as many times as needed to clear the display and ready the device for calls.
3. Enter the official emergency number for your present location. Emergency numbers vary by location.
4. Press the call key.

When making an emergency call, give all the necessary information as accurately as possible. Your wireless device may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

Certification information (SAR)

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 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

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depending on a number of factors such as how close you are to a network base station.

The highest SAR value under the ICNIRP guidelines for use of the device at the ear is 0.66 W/kg.

Use of device accessories may result in different SAR values. SAR values may vary depending on national reporting and testing requirements and the network band. Additional SAR information may be provided under product information at www.nokia.com.

Your mobile 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. The highest SAR value reported under this standard during product certification for use at the ear is 0.83 W/kg and when properly worn on the body is 0.88 W/kg.

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MANUFACTURER'S LIMITED WARRANTY

This Limited Warranty is in addition to, and does not affect your legal (statutory) rights under your applicable national laws relating to the sale of consumer products.

Nokia Corporation ("Nokia") provides this Limited Warranty to person who has purchased the Nokia product(s) included in the sales package ("Product").

Nokia warrants to you that during the warranty period Nokia or a Nokia authorised service company will in a commercially reasonable time remedy defects in materials, design and workmanship free of charge by repairing or, should Nokia in its absolute discretion deem it necessary, replacing the Product in accordance with this Limited Warranty (unless otherwise required by law). This Limited Warranty is only valid and enforceable in the country where you have purchased the Product provided that it is intended for sale in that country.

Warranty period

The warranty period starts at the time of Product's original purchase by the first end-user. The Product may consist of several different parts and different parts may be covered by a different warranty period (hereinafter "Warranty Period"). The different Warranty Periods are:

a) twelve (12) months for the mobile device and accessories (whether included in the mobile device sales package or sold separately) other than the consumable parts and accessories listed in (b) and (c) below;

b) six (6) months for the following consumable parts and accessories: batteries, chargers, desk stands, headsets, cables and covers; and

c) ninety (90) days for the media on which any software is provided, for example, CD-ROM or memory card

As far as your national laws permit, the Warranty Period will not be extended or renewed or otherwise affected due to subsequent resale, repair or replacement of the Product. However, repaired part(s) will be warranted for the remainder of the original Warranty Period or for sixty (60) days from the date of repair, whichever is longer.

How to get warranty service

If you wish to make a claim under the Limited Warranty, you may call the Nokia call center (where this

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is available and please note national rates apply to calls) and/or where necessary, return your Product or the affected part (if it is not the entire Product) to a Nokia care centre or Nokia designated service location. Information about Nokia care centres, Nokia designated service locations and Nokia call centres can be found at local Nokia web pages where available.

You must return your Product or the affected part (if it is not the entire Product) to a Nokia care center or Nokia designated service location before the expiry of the Warranty Period.

When making a Limited Warranty claim you have to present: a) the Product (or affected part thereto), b) the legible and unmodified original proof of purchase, which clearly indicates the name and address of the seller, the date and place of purchase, the product type and the IMEI or other serial number.

This Limited Warranty extends only to the original first end-user of the Product and is not assignable or transferable to any subsequent purchaser/end-user.

What is not covered?

1. This Limited Warranty does not cover user manuals or any third party software, settings, content, data or links, whether included/downloaded in the Product, whether included during installment, assembly, shipping or at any other time in the delivery chain or otherwise and in any way acquired by you. To the extent permitted by applicable law(s), Nokia does not warrant that any Nokia software will meet your requirements, will work in combination with any hardware or software applications provided by a third party, that the operation of the software will be uninterrupted or error free or that any defects in the software are correctable or will be corrected.

2. This Limited Warranty does not cover a) normal wear and tear (including, without limitation, wear and tear of camera lenses, batteries or displays), b) transport costs, c) defects caused by rough handling (including, without limitation, defects caused by sharp items, by bending, compressing or dropping, etc.), d) defects or damage caused by misuse of the Product, including use that is contrary to the instructions provided by Nokia (e.g. as set out in the Product's user guide) and/or e) other acts beyond the reasonable control of Nokia.

3. This Limited Warranty does not cover defects or alleged defects caused by the fact that the Product was used with, or connected to, a product, accessories, software and/or service not manufactured, supplied or authorised by Nokia or was used otherwise than for its intended use. Defects can be caused by viruses from your or from a third party's unauthorised access to services, other accounts, computer systems or networks. This unauthorised access can take place through hacking, password-mining or through a variety of other means.

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4. This Limited Warranty does not cover defects caused by the fact that the battery has been short-circuited or by the fact that the seals of the battery enclosure or the cells are broken or show evidence of tampering or by the fact that the battery has been used in equipment other than those for which it has been specified.

5. This Limited Warranty does not apply if the Product has been opened, modified or repaired by anyone other than an authorised service centre, if it is repaired using unauthorised spare parts or if the Product's serial number, the mobile accessory date code or the IMEI number has been removed, erased, defaced, altered or are illegible in any way and this shall be determined in the sole discretion of Nokia.

6. This Limited Warranty does not apply if the Product has been exposed to moisture, to dampness or to extreme thermal or environmental conditions or to rapid changes in such conditions, to corrosion, to oxidation, to spillage of food or liquid or to influence from chemical products.

Other important notices

A third party, independent operator provides the SIM card and cellular and/or other network or system on which the Product operates. Therefore, Nokia will not accept responsibility under this warranty for the operation, availability, coverage, services or range of the cellular or other network or system. Before the Product can be repaired or replaced, the operator may need to unlock any SIM-lock or other lock that may have been added to lock the product to a specific network or operator. Accordingly, Nokia does not accept responsibility for any delays in warranty repairs or for the inability of Nokia to complete warranty repairs that are caused by the operator's delay or failure to unlock any SIM-lock or other lock.

Please remember to make backup copies or keep written records of all important content and data stored in your Product, because content and data may be lost during repair or replacement of the Product. Nokia, in a manner consistent with the provisions of the section entitled "Limitation of Nokia's Liability" below, to the extent permitted by applicable law(s), shall not under any circumstances be liable, either expressly or implied, for any damages or losses of any kind whatsoever resulting from loss of, damage to, or corruption of, content or data during repair or replacement of the Product.

All parts of the Product or other equipment that Nokia has replaced shall become the property of Nokia. If the returned Product is found not to be covered by the terms and conditions of the Limited Warranty, Nokia and its authorised service companies reserve the right to charge a handling fee. When repairing or replacing the Product, Nokia may use products or parts that are new, equivalent to new or reconditioned.

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Your Product may contain country specific elements, including software. If the Product has been re-exported from its original destination country to another country, the Product may contain country specific elements that are not considered to be a defect under this Limited Warranty.

Limitation of Nokia's liability

This Limited Warranty is your sole and exclusive remedy against Nokia and Nokia's sole and exclusive liability in respect of defects in your Product. However, this Limited Warranty shall neither exclude nor limit i) any of your legal (statutory) rights under the applicable national laws or ii) any of your rights against the seller of the Product.

This Limited Warranty replaces all other Nokia warranties and liabilities, whether oral, written, (non-mandatory) statutory, contractual, in tort or otherwise, including, without limitation, and where permitted by applicable law, any implied conditions, warranties or other terms as to satisfactory quality or fitness for purpose. To the extent permitted by applicable law(s) Nokia does not assume any liability for loss of or damage to or corruption of data, for any loss of profit, loss of use of Products or functionality, loss of business, loss of contracts, loss of revenues or loss of anticipated savings, increased costs or expenses or for any indirect loss or damage, consequential loss or damage or special loss or damage. To the extent permitted by applicable law, Nokia's liability shall be limited to the purchase value of the Product. The above limitations shall not apply to death or personal injury resulting from Nokia's proven negligence.

Statutory obligations

This Limited Warranty must be read subject to any statutory provisions that imply warranties or conditions into this Limited Warranty that cannot be excluded, restricted or modified or cannot be excluded, restricted or modified except to a limited extent. If such statutory provisions apply, to the extent to which Nokia is able to do so, its liability under those provisions will be limited, at its option to, in the case of goods: the replacement of the goods or the supply of equivalent goods, the repair of the goods, the payment of the cost of replacing the goods or of acquiring equivalent goods, or the payment of the cost of having the goods repaired; and in the case of services: the supplying of the services again or the payment of the cost of having the services supplied again.

Note: Your Product is a sophisticated electronic device. Nokia strongly encourages you to familiarise yourself with the user guide and instructions provided with and for the Product. Please also note that the Product might contain high precision displays, camera

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lenses and other such parts, which could be scratched or otherwise damaged if not handled very carefully.

All warranty information, product features and specifications are subject to change without notice.

Nokia Corporation

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Finland

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How to obtain an English User Guide

Nokia understands from consumer feedback in PRC that there is only limited usage of the English User Guide.

In consideration of this and to help conserve natural resources, Nokia has selected to not to include the English User Guide in the Sales Package.

To obtain a User Guide in English, please kindly download it from: www.nokia.com.cn/englishUG.

The feature descriptions in English User Guide may vary by market, thus the device features described in the English User Guide you have obtained may differ from those shown on the display in English user interface.

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