

Nokia N86 8MP User Guide





5555555 Issue 1





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The availability of some features may vary by region. Please contact your operator for more details.

FCC/INDUSTRY CANADA NOTICE

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.



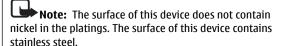
ACCESSORIES AND BATTERIES

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



WATER-RESISTANCE

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





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.







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.

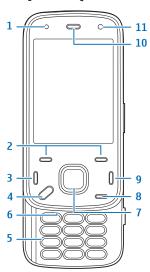






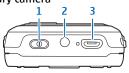
Get started

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



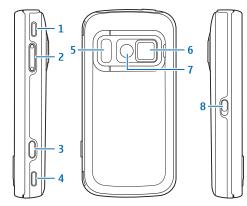
- 1 Power key
- 2 Nokia AV Connector (3.5 mm)
- 3 Micro USB connector







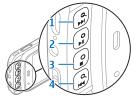
Keys and parts (back and sides)



- 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.

















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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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.





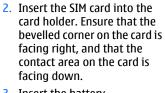


Insert SIM card and battery

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.





- 3. Insert the battery.
- 4. To replace the cover, press the cover down until the cover locks into place.





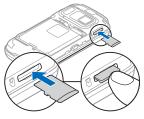


damage the card and the device and corrupt data stored on the card.

Insert the memory card

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

- With the back of the device facing you, lift up the cover.
- 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.

- Before you remove the card, press the power key, and select Remove memory card. All applications are closed.
- When Removing memory card will close all open applications. Remove anyway? is displayed, select Yes.
- 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.
- Pull out the memory card. If the device is switched on, select OK.
- Replace the back cover. Ensure that the cover is properly closed.

Switch the device on and off

To switch on the device:

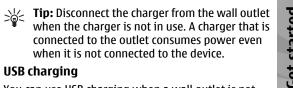
- Press and hold the power key.
- 2. If the device asks for a PIN code or lock code, enter it, and select OK. The preset lock code is 12345. If you forget the code and your device is locked, your device will require service and additional charges may apply. For more information, contact a Nokia Care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





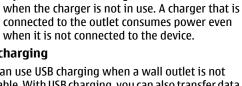












USB charging

To switch off the device, press the power key briefly.

Your battery has been partially charged at the factory.

advance. If the device indicates a low charge, do the

There may not be a need to charge the battery in

and select Switch off!.

following:

outlet.

Regular charging

wall outlet.

be made.

Charge the battery

1. Connect the charger to a wall

2. Connect the charger to the device. The charging indicator light next

the battery is being charged.

3. When the device indicates a full charge, disconnect the charger

You do not need to charge the battery for a specific length of time,

from the device, then from the

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

to the USB connector is lit when

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.
- the available USB mode options on the display of

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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2. If your device is switched on, you can select from the device.

During extended operation such as an active video call







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.

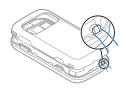
Do not connect products that create an output signal as this may cause damage to the device. Do not connect any voltage source to the Nokia AV Connector.

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.



- 1 Bluetooth and wireless LAN (WLAN), and GPS antennas
- 2 FM transmitter antenna
- 3 Cellular antenna

The FM transmitter antenna is located in the back cover of your device. If you change the back cover, check that the new cover includes this antenna, otherwise this









connection stops working. Bluetooth, WLAN, and GPS antennas are located at the back of your device.









Find help

For local services and warranty information, please refer to the separate booklet.

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.

Accessibility solutions

Nokia is committed to making mobile phones easy to use for all individuals, including those with disabilities. For more information, visit the Nokia website at www.nokiaaccessibility.com.

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/repair, or in Latin America, www.nokia-latinoamerica.com/centrosdeservicio. Before sending your device for repair, always back up the data in your device.



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 softwareSoftware 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/softwareupdate, or in Latin America, www.nokia-latinoamerica.com/nsu.

To update the device software, do the following:

- Download and install the Nokia Software Updater application to your PC.
- 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 > Applications > 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.

Downloading software updates may involve the transmission of large amounts of data (network service).

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

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









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

 To retrieve data from the other device for the first time, on your device, select Phone switch in the Welcome application, or select Menu > Tools > Switch.

- 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.







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 timeout, 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.

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 X 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. Calls may still be possible to the official emergency number programmed into your device. To make calls, you must first activate the phone function by changing profiles. If the device has been locked, enter the lock code.

When you have activated the offline profile, you can still use the wireless LAN, for example, to read your email or browse on the internet. You can also use Bluetooth connectivity while in the offline profile. Remember to comply with any applicable safety requirements when establishing and using a wireless LAN or Bluetooth connections.

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







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, highresolution 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:











- 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.
- A 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.











- 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

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,









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.
- I 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.
- 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.

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 \mathbb{Q} .











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Video recording

Video capture indicators

The video viewfinder displays the following:

- 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 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.











Photos

About Photos

Select Menu > Photos and from the following:

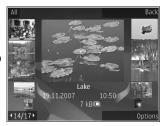
- Captured View all the images and videos you have captured.
- Months View images and videos categorised by the month they where captured.
- Albums View the default albums and the ones you have created.
- Tags View the tags you have created for each item
- Downloads View items and videos downloaded from 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 print your images on a compatible printer, select Options > Print.









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.







Connectivity

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.

Wi-Fi/WLAN connection **About WLAN**

To use a wireless LAN (WLAN) connection, it must be available in the location, and your device must be connected to the WLAN. Some WLANs are protected, and you need an access key from the service provider to connect to them.

Features that use WLAN, or that are allowed to run in the background while using other features, increase the demand on battery power and reduce the battery

Your device supports the following WLAN features:

- IEEE 802.11b/g standard
- Operation at 2.4 GHz

 Wired equivalent privacy (WEP) with keys up to 128 bits, Wi-Fi protected access (WPA), and 802.1x authentication methods. These functions can be used only if they are supported by the network.

Important: Always enable one of the available encryption methods to increase the security of your wireless LAN connection. Using encryption reduces the risk of unauthorised access to your data.

WLAN connections

To use a WLAN, you must create an internet access point in a WLAN. Use the access point for applications that need to connect to the internet. A WLAN connection is established when you create a data connection using a WLAN access point. The active WLAN connection is ended when you end the data connection. You can also end the connection manually.

You can use a WLAN during a voice call or when packet data connection is active. You can only be connected to one WLAN access point device at a time, but several applications can use the same internet access point.

When the device is in the Offline profile, you can still use a WLAN, if available. Remember to comply with any







10 metres of each other, although the connection can be subject to interference from obstructions such as walls or other electronic devices. 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.

other devices do not need to be in direct line-of-sight.

The two devices only need to be within a maximum of

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.



Bluetooth

using a WLAN connection.

Select Menu > Tools > Connectivity > Bluetooth.

applicable safety requirements when establishing and

If you move the device to another location within the

roaming functionality can automatically connect your device to another access point that belongs to the

WLAN and out of range of a WLAN access point, the

same WLAN. As long as you remain within range of

device can stay connected to the network.

access points that belong to the same network, your

Tip: To check the unique media access control (MAC) address that identifies your device, for

example to configure the MAC address of your

device to a WLAN router, enter *#62209526# in

the home screen. The MAC address is displayed.

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





Send and receive data with Bluetooth

Select Menu > Tools > 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.

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.

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.







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).

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 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.





Browser

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.

Empty the cache

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

The information or services you have accessed are

stored in the cache memory of the device.



Browser toolbar

once.

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

To view the shortcut key map, select **Options** >

Keypad shortcuts. To edit the shortcut keys, select

Tip: To minimise the browser without exiting

the application or connection, press the end key

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

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.
- Q 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.





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 \wedge or ∇ .

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







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

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

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

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 ▶▶I. 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 ((L)), all items ((L)), 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**.

FM transmitter About the FM transmitter

Some countries may restrict the use of the FM transmitter. Before using the feature in a foreign country, see www.nokia.com/fmtransmitter to check if use is permitted.







With the FM transmitter, you can play songs in your device through any compatible FM receiver, such as a car radio or a home stereo system.

The operating distance of the FM transmitter is up to a maximum of 2 metres (6.5 feet). The transmission may be subject to interference due to obstructions, such as walls, other electronic devices, or from public radio stations. The FM transmitter may cause interference to nearby FM receivers operating on the same frequency. To avoid interference, always search for a free FM frequency on the receiver before using the FM transmitter.

The FM transmitter cannot be used at the same time as the FM radio of your device.

The operating frequency range of the transmitter is from 88.1 to 107.9 MHz.

When the transmitter is on and transmitting sound, **声**) is displayed in the standby mode. If the transmitter is on, but not transmitting anything, is displayed and a periodic tone sounds. If the transmitter is not transmitting anything for several minutes, it switches off automatically.

Play a song using FM transmitter

Select Menu > Music > Music player.

To play a song stored in your device through a compatible FM receiver, do the following:

- 1. Select a song or a playlist to be played.
- 2. In the Now playing view, select Options > FM transmitter.
- 3. To activate the FM transmitter, select FM transmitter > On, and enter a frequency that is free from other transmissions. For example, if the frequency 107.8 MHz is free in your area and you tune your FM receiver to it, you must also tune the FM transmitter to 107.8 MHz.
- 4. Tune the receiving device to the same frequency, and select Options > Exit.

To adjust the volume, use the volume function in the receiving device. 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.

If music is not played for several minutes, the transmitter is automatically deactivated.

FM transmitter settings

Select Menu > Music player > FM transmitter.

To activate the FM transmitter, select FM transmitter > On.

To set a frequency manually, select Frequency and enter the desired value.

To list the previously used frequencies, select **Options** > Last frequencies.







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 >











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. A wireless LAN (WLAN) access point cannot be used for this service. 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 several minutes. Establishing a GPS connection in a vehicle may take longer.

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
- 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.

received enough data from the satellite signal to

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







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.











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









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:

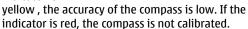
GPS connection is active.

- 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





Move on a map

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

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









are automatically saved in the device memory or on a compatible memory card, if inserted.

To move on the map, scroll up, down, left, or right with

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

the scroll key. The map is oriented towards north by

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

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

Display indicators

default.

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 \rightleftharpoons 21.5 kb 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.







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.

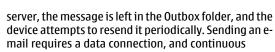










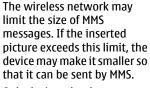


attempts to resend the e-mail may incur charges from your service provider. In the Outbox folder, you can delete such a message or move it to the Drafts folder.

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.
- and the relevant type of content.





settings defined.

Select Menu > Messaging.

Only devices that have compatible features can receive and display multimedia messages. The appearance of a message may Options 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

Write and send messages

Multimedia msg.

10:30

Important: Exercise caution when opening

or otherwise be harmful to your device or PC.

an e-mail, you must have the correct connection

messages. Messages may contain malicious software

Before you can create a multimedia message or write





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.





Make calls

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

Voice calls

 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. The character + as a replacement for the international access code may not work in all regions. In this case, enter the international access code directly.

- 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.

Make a video call

When you make a video call (network service), you can see a real-time, two-way video between you and the recipient of the call. The live video image, or video image captured by the camera in your device is shown to the video call recipient.

To be able to make a video call, you must have a USIM card and be in the coverage of a UMTS network. For availability of and subscription to video call services, contact your network service provider.

A video call can only be made between two parties. The video call can be made to a compatible mobile device or an ISDN client. Video calls cannot be made while another voice, video, or data call is active.

Icons







- You are not receiving video (the recipient is not sending video or the network is not transmitting it).
- You have denied video sending from your device.
 To send a still image instead, select Menu > Tools >
 Settings and Phone > Call > Image in video call.

Even if you denied video sending during a video call, the call is still charged as a video call. Check the pricing with your service provider.

- To start a video call, enter the phone number in the standby mode, or select Contacts and a contact.
- 2. Select Options > Call > Video call.
- 3. To end the video call, press the end key.







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

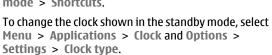
caller's name > On. The caller's name must be found in the contacts list.

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.











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.







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.





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.

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.

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 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.

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

 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 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.

For additional information, refer to the warranty and reference leaflet included with your Nokia device.







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









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.





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.







- 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.

Your mobile device model complies with FCC rules governing hearing aid compatibility. These require a M3 microphone or higher value. Your device M-value is shown on the box. A higher M-value generally indicates that a device model has a lower RF emissions level, which may improve the likelihood that the device will operate with certain hearing aids. Some hearing aids are more immune than others to interference. Please consult your hearing health professional to determine whether your hearing aid will work with this device. More information on accessibility can be found at www.nokiaaccessibility.com.

Hearing aids

Warning: For hearing aid compatibility, you must turn off the Bluetooth connectivity.

Your mobile device model complies with FCC rules governing hearing aid compatibility. These rules require an M3 microphone or higher value. The M-value, shown on the device box, refers to lower radio frequency (RF) emissions. A higher M-value generally indicates that a device model has a lower RF emissions level, which may improve the likelihood that the device will operate with certain hearing aids. Some hearing aids are more immune than others to interference. Please consult your hearing health professional to determine the M-rating of your hearing aid and whether your hearing aid will work with this device. More information on accessibility can be found at www.nokiaaccessibility.com.

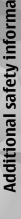
Vehicles

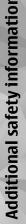
RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection, electronic antilock braking, electronic speed control, and air bag systems. For more information, check with the manufacturer of your vehicle or its equipment.

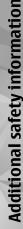
Only qualified personnel should service the device or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate your warranty. Check regularly that all wireless device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids,













Additional safety information



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.

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. The device may attempt to make emergency calls over both the cellular networks and through your internet call provider if both are activated. 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 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 0.76 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 1.01 W/kg and when properly worn on the body is 1.00 W/kg.











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