

# Nokia N86 8MP User Guide

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9222002  
Issue 1.0

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**CE 0434** 

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#### 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.



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

## About your device

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

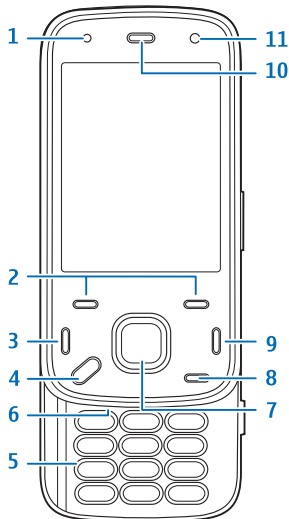
During extended operation such as an active video call and high speed data connection, the device may feel warm. In most cases, this condition is normal. If you suspect the device is not working properly, take it to the nearest authorised service facility.

# Magnets and magnetic fields

Keep your device away from magnets or magnetic fields.

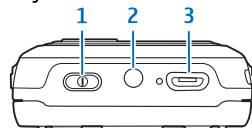
# Get started

## Keys and parts (front and top)



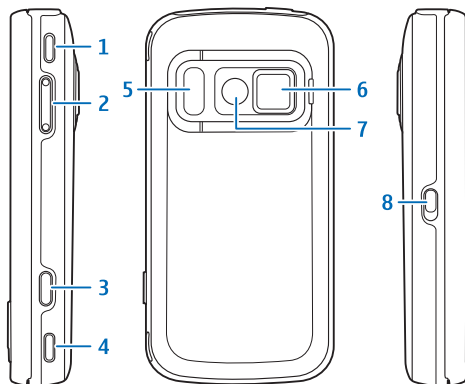
1 — Light sensor

- 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

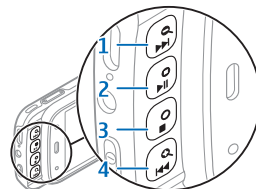
## Keys and parts (back and sides)



- 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.



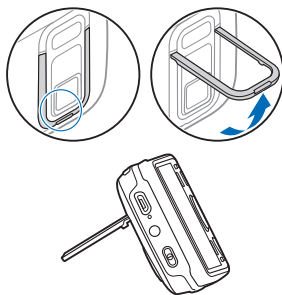
- 1 — Forward/Zoom in key
- 2 — Play/Pause key and gaming key
- 3 — Stop key and gaming key
- 4 — Rewind/Zoom out key

## Kickstand

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

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

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



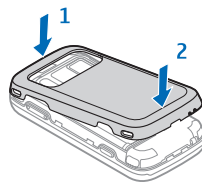
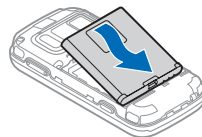
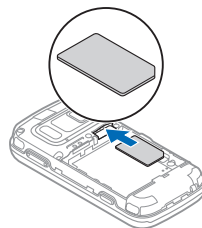
## Insert SIM card and battery

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

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



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



## Memory card

Use only compatible microSD cards approved by Nokia for use with this device. Nokia uses approved industry standards for memory cards, but some brands may

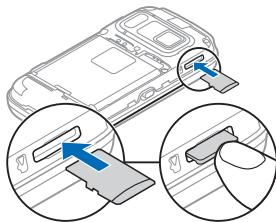


not be fully compatible with this device. Incompatible cards may damage the card and the device and corrupt data stored on the card.

## Insert the memory card

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

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



## Remove the memory card



**Important:** Do not remove the memory card during an operation when the card is being

accessed. Doing so may damage the memory card and the device, and corrupt data stored on the card.

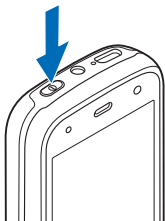
1. Before you remove the card, press the power key, and select **Remove memory card**. All applications are closed.
2. When **Removing memory card will close all open applications. Remove anyway?** is displayed, select **Yes**.
3. When **Remove memory card and press 'OK'** is displayed, remove the back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

## Switch the device on and off

To switch on the device:

1. Press and hold the power key.

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



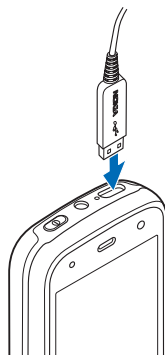
To switch off the device, press the power key briefly, and select **Switch off!**.

## Charge the battery

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

### Regular charging

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



You do not need to charge the battery for a specific length of time, and you can use the device while it is charging. If the battery is completely discharged, it may take several minutes before the charging indicator appears on the display or before any calls can be made.



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

## USB charging

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

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

The efficiency of USB charging varies significantly. In some cases, it may take a very long time for charging to start and the device to start functioning.

2. If your device is switched on, you can select from the available USB mode options on the display of the device.

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

## Headset

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

Some headsets come in two parts, a remote control unit and headphones. A remote control unit has a

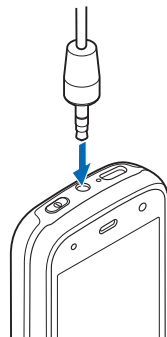
microphone and keys to answer or end a phone call, adjust the volume, and play music or video files. To use the headphones with a remote control unit, connect the unit to the Nokia AV Connector in the device, then connect the headphones to the unit.



**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.

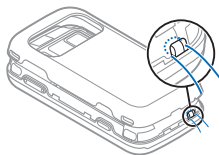
When connecting any external device or any headset, other than those approved by Nokia for use with this device, to the Nokia AV Connector, pay special attention to volume levels.



## Attach wrist strap

1. Open the back cover.

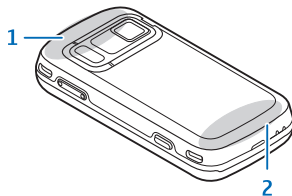
2. Thread a wrist strap, and tighten it.
3. Close the back cover.



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

## 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 — Cellular antenna

# Find help

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


## In-device help

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

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

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

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

You may 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:  Link to a related help topic.

 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, select **Options > Show open apps**. and the desired application.

## 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](http://www.nokia.com/support) or your local Nokia website, [www.nokia.mobi/support](http://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 one of 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 will be deleted in the reset, so back up your data first.

- Update your device software regularly for optimum performance and possible new features, as explained in the user guide.

If your issue remains unsolved, contact Nokia for repair options. See [www.nokia.com.hk/repair](http://www.nokia.com.hk/repair). Before sending your device for repair, always back up the data in your device.

## Extended user guide

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

## Do more with your device

There are various applications provided by Nokia and 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 at [www.nokia.com/support](http://www.nokia.com/support) or your local Nokia website.

## Update device software

### About software updates

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.



**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.

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.

After updating your device software or applications, the instructions related to the updated applications in the user guide or helps may no longer be up to date.

## 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.

## Update software using your PC

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 and to download the Nokia Software Updater application, go to [www.nokia.com.hk/softwareupdate](http://www.nokia.com.hk/softwareupdate).

# 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

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

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

Some earlier Nokia devices may not have the Switch application. In this case, the Switch application is sent to the other device as a message. To install the Switch application on the other device, open the message, and follow the instructions on the display.

4. On your device, select the content you want to transfer from the other device.  
When the transfer has started, you can cancel it and continue later.

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

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

## Lock the keypad

When the device or keypad is locked, calls may be possible to the official emergency number programmed into your device.

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 e-mail 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 re-enables 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, high-resolution camera, is on the back of the device. The secondary, lower resolution camera is on the front. You can use both cameras to capture images and record videos.

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

The images and video clips are saved in Photos.

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

To free memory for new images and video clips, transfer files to a compatible PC using a compatible USB data cable, for example, and remove the files from your device. The device informs you when the

memory is full. You can then free up memory in the current storage or change the memory in use.

## Activate the camera

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

To close the main camera, close the lens cover.

## Image capture

### Still image camera indicators

The still image camera viewfinder displays the following:



- 1 — Capture mode indicator
- 2 — Active toolbar (not displayed during image capture).
- 3 — Battery charge level indicator
- 4 — Image resolution indicator
- 5 — Image counter (the estimated number of images you can capture using the current image quality setting and memory)
- 6 — The device memory (📁), mass memory (💻), and memory card (💿) indicators, which show where images are saved
- 7 — GPS signal indicator

## Active toolbar

The active toolbar provides you with shortcuts to different items and settings before and after capturing an image or recording a video clip. To









select a toolbar item, scroll to the item, and press the scroll key. You can also define when the active toolbar is displayed.








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

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

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

From the active toolbar, select from the following:

-  Switch to video mode.
-  Switch to image mode.
-  Select the scene.
-  Turn the video light off (video mode only).
-  Turn the video light on (video mode only).
-  Select the flash mode (images only).
-  Activate the self-timer (images only).
-  Activate sequence mode (images only).

-  Select a colour effect.
-  Adjust the white balance.
-  Adjust the exposure compensation (images only).
-  Adjust sharpness (images only).
-  Adjust contrast (images only).
-  Adjust light sensitivity (images only).
-  Activate panorama mode.

The icons change to reflect the current setting.

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

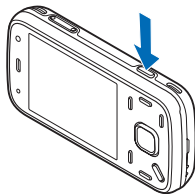
## Capture images

When capturing an image, note the following:

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

To capture an image, do the following:

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



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

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

## Location information



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

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


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

It may take several minutes to obtain the coordinates of your location. 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.

-  — Location information is available. Location information is added to the file details.

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

## Panorama mode

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

Select panorama mode  from the toolbar.

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

A panorama preview is displayed and the camera captures the image as you turn. The green arrow indicates that you can slowly proceed to turn. The red pause mark indicates that you should stop moving until the green arrow is displayed again. You can predict when the next key frame is captured when the red rectangle moves to the centre of the preview area.

- 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** (🚫).

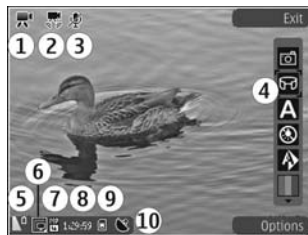
### Video light

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

## Video recording

### Video capture indicators

The video viewfinder displays the following:



- Capture mode indicator
- Video stabilisation on indicator
- Audio mute on indicator
- Active toolbar (not displayed during recording)
- Battery charge level indicator
- Video quality indicator. To change this setting, select **Options** > **Settings** > **Video quality**.
- Video clip file type
- Available recording time. When you are recording, the current video length indicator also shows the elapsed and remaining time.
- The location to which the video clip is saved.
- 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 and recorded.
- **Months** — View images and videos categorised by the month they were captured or recorded.
- **Albums** — View the default albums and the ones you have created.
- **Tags** — View the tags you have created for each item.
- **All** — View all items.
- **Share online** — Post your images or videos to the web.

## View images and videos

Select **Menu** > **Photos**.

To view all images and videos, select **All**.

To view images captured and videos recorded with the camera of your device, select **Captured**.

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



The images and videos 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, select **Options** > **Edit**.

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

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

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

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

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

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

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

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

## Wireless LAN

### 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 life.

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 applicable safety requirements when establishing and using a WLAN connection.

If you move the device to another location within the WLAN and out of range of a WLAN access point, the roaming functionality can automatically connect your device to another access point that belongs to the same WLAN. As long as you remain within range of access points that belong to the same network, your device can stay connected to the network.



**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.

## Bluetooth

Select **Menu** > **Tools** > **Connectivity** > **Bluetooth**.

## About Bluetooth

Bluetooth technology in your device enables wireless connections between electronic devices

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

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

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

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

Nokia approved accessories for this model. Check with the manufacturers of other devices to determine their compatibility with this device.

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

## Send and receive data with Bluetooth

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

6. Select the device with which you want to connect. If the other device requires pairing before data can be transmitted, you are asked to enter a passcode.

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

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

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).

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

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


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

## Browse the web

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



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

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

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

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

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

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

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

To view snapshots of the web pages you have visited during the current browsing session, select **Back** (available if **History list** is activated in the browser settings and the current web page is not the first web page you visit).

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

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



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





## Browser toolbar

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

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

From the toolbar, select from the following:

-  **Recently visited pages** — View a list of the web addresses you visit frequently.

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

## Empty the cache

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

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

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

# 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**.

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

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

To start a station search, select  or .

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

Select **Options** and from the following:

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



**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.

## Music player

Music player supports file 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.

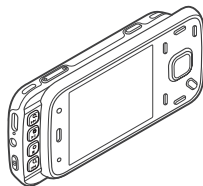
## Play a song or a podcast episode

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:

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



To pause playback, press ►||; to resume, press ►|| again. To stop playback, press ■.

To fast forward or rewind, press and hold ►► or ◀◀.

To go to the next item, press ►►.

To return to the beginning of the item, press ◀◀.

To skip to the previous item, press ◀◀ again within 2 seconds

after a song or podcast has started.

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



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

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

To adjust the volume, press the volume key.

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

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

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

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

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

# Positioning (GPS)

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

## About GPS

The coordinates in the GPS are expressed using the international WGS-84 coordinate system. The availability of the coordinates may vary by region.

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 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** > **Options** > **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

The GPS receiver is located in the bottom of the device. When using the receiver, make sure that you do not cover the antenna with your hand.

Establishing a GPS connection may take from a couple of seconds to tens of minutes.

Establishing a GPS connection in the car, in bad weather conditions, or in a challenging geographical environment may take longer.

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



## Tips on creating a GPS connection

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

- If you are indoors, go outdoors to receive a better signal.
- If you are outdoors, move to a more open space.

- Ensure that your hand does not cover the GPS antenna of your device.
- If the weather conditions are bad, the signal strength may be affected.
- Some vehicles have tinted (athermic) windows, which may block the satellite signals.

### Check satellite signal status

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

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

## Maps overview



Select Menu > Maps.

Welcome to Maps.

Maps shows you what is nearby, helps you plan your route, and guides you where you want to go.

- Find cities, streets, and services.
- Find your way with turn-by-turn directions.
- Synchronise your favourite locations and routes between your mobile device and the Ovi Maps internet service.
- Check weather forecasts and other local information, if available.

Maps availability depends on the laws of each country/region (e.g. maps may not be available due to legal restrictions of countries/regions). Nokia disclaims any and all warranty with respect to the

availability of maps, including its accuracy, correctness and update.



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

Some services may not be available in all countries, and may be provided only in selected languages. The services may be network dependent. For more information, contact your network service provider.


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.

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.

## View your location and the map

See your current location on the map, and browse maps of different cities and countries.

Select **Menu** > **Maps** and **My position**.

When the GPS connection is active,  marks your current or last known location on the map. If the icon's colours are faint, no GPS signal is available.

If only cell ID based positioning is available, a red halo around the positioning icon indicates the general area you might be in. The accuracy of the estimate increases in densely populated areas.

**Move on the map** — Use the scroll key. By default, the map is oriented north.

**View your current or last known location** — Press **0**.

**Zoom in or out** — Press **\*** or **#**.

If you browse to an area not covered by maps that are stored on your device and you have an active data connection, new maps are automatically downloaded.

Map coverage varies by country and region.

## Find a location

Maps helps you find specific locations and types of business you are looking for.

Select **Menu** > **Maps** and **Find places**.

1. Enter search terms, such as a street address or postcode. To clear the search field, select **Clear**.
2. Select **Go**.
3. In the list of proposed matches, go to the desired item. To display the location on the map, select **Map**.

To view the other locations of the search result list on the map, scroll up and down with the scroll key.

**Return to the list of proposed matches** — Select **List**.

**Search for different types of nearby places** — Select **Browse categories** and a category, such as shopping, accommodation, or transport.

If no search results are found, ensure the spelling of your search terms is correct. Problems with your internet connection may also affect results when searching online.

To avoid data transfer costs, you can also get search results without an active internet connection, if you

have maps of the searched area stored on your device.

## Drive to your destination

When you need turn-by-turn directions while driving, Maps helps you get to your destination.


Select **Menu** > **Maps and Drive**.

**Drive to a destination** — Select **Set destination** and the appropriate option.

**Drive to your home** — Select **Drive home**.

When you select **Drive home** or **Walk home** for the first time, you are prompted to define your home location. To later change the home location, do the following:

1. In the main view, select **Options** > **Settings** > **Navigation** > **Home Location**.
2. Select the appropriate option.

 **Tip:** To drive without a set destination, select **Map**. Your location is displayed on the centre of the map as you move.

**Change views during navigation** — Press the scroll key, and select **2D view**, **3D view**, **Arrow view**, or **Route overview**.

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

## Walk to your destination

When you need directions to follow a route on foot, Maps guides you over squares, and through parks, pedestrian zones, and even shopping centres.


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

**Walk to a destination** — Select **Set destination** and the appropriate option.

**Walk to your home** — Select **Walk home**.

When you select **Drive home** or **Walk home** for the first time, you are prompted to define your home location. To later change the home location, do the following:

1. In the main view, select **Options** > **Settings** > **Navigation** > **Home Location**.
2. Select the appropriate option.

 **Tip:** To walk without a set destination, select **Map**. Your location is displayed on the centre of the map as you move.

## Plan a route

Plan your journey, and create your route and view it on the map before setting off.

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

### Create a route

1. In the map view, go to your starting point.
2. Press the scroll key, and select **Add to route**.
3. To add another route point, select **Add new route point** and the appropriate option.

### Change the order of the route points

1. Go to a route point.
2. Press the scroll key, and select **Move**.
3. Go to the place where you want to move the route point to, and select **OK**.

**Edit the location of a route point** — Go to the route point, press the scroll key, and select **Edit** and the appropriate option.

**View the route on the map** — Select **Show route**.

**Navigate to the destination** — Select **Show route** > **Options** > **Start driving** or **Start walking**.

## Change the settings for a route

The route settings affect the navigation guidance and the way the route is displayed on the map.

1. In the route planner view, open the Settings tab. To get to the route planner view from the navigation view, select **Options** > **Route points** or **Route point list**.
2. Set the transportation mode to **Drive** or **Walk**. If you select **Walk**, one-way streets are regarded as normal streets, and walkways and routes through, for example, parks and shopping centres, can be used.
3. Select the desired option.

**Select the walking mode** — Open the Settings tab, and select **Walk** > **Preferred route** > **Streets** or **Straight line**. **Straight line** is useful on off-road terrain as it indicates the walking direction.

**Use the faster or shorter driving route** — Open the Settings tab, and select **Drive** > **Route selection** > **Faster route** or **Shorter route**.

**Use the optimised driving route** — Open the Settings tab, and select **Drive** > **Route selection** > **Optimised**. The optimised driving route combines the advantages of both the shorter and the faster routes.

You can also choose to allow or avoid using, for example, motorways, toll roads, or ferries.

## Maps shortcuts

### General shortcuts

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

To return to your current location, press **0**.

To change the map type, press **1**.

To tilt the map, press **2** or **8**.

To rotate the map, press **4** or **6**. To return the map back to the north up position, press **5**.

### Pedestrian navigation shortcuts

To save a location, press **2**.

To search for locations by categories, press **3**.

To adjust the volume of the pedestrian navigation guidance, press **6**.

To view the list of route points, press **7**.

To adjust the map for night-time usage, press **8**.

To view the dashboard, press **9**.

### Car navigation shortcuts

To adjust the map for daytime or night-time usage, press **1**.

To save the current location, press **2**.

To search for locations by categories, press **3**.

To repeat the voice guidance, press **4**.

To find a different route, press **5**.

To adjust the volume of voice guidance, press **6**.

To add a stopover to the route, press **7**.

To view traffic information, press **8**.

To view the dashboard, press **9**.

# Write and send messages

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

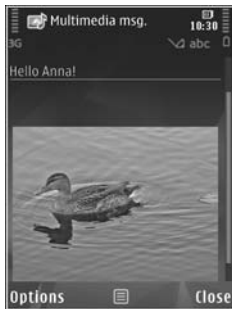


**Important:** Exercise caution when opening messages. Messages may contain malicious software or otherwise be harmful to your device or PC.

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

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

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



Check the size limit of mail messages with your service provider. If you attempt to send a mail message that exceeds the size limit of the mail server, the message is left in the Outbox folder, and the device attempts to resend it periodically. Sending a mail requires a data connection, and continuous attempts to resend the 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.

**Send a text or multimedia message** — Select **New message**.

**Send an audio or mail message** — Select **Options** > **Create message**, and the relevant option.


**Select recipients or groups from the contacts list** — Select **To**.

**Enter the recipient's phone number or mail address manually** — Select the **To** field.

**Add a semicolon (;) that separates the recipients** — Press **\***.

**Enter the subject of the mail or multimedia message** — Enter it in the Subject field, . If the Subject field is not visible, select **Options** > **Message header fields** to change the fields that are visible.

**Write the message** — Enter text in the message field.

**Add an object to a message or mail** — Select + and the relevant type of content. The message type may change to multimedia message based on the inserted content.

**Send the message or 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

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

For international calls, press **\*** twice for the + character (which replaces the international access code), and enter the country code, area code (omit the leading zero if necessary), and phone number.

2. To make the call, press the call key.
3. To end the call (or to cancel the call attempt), press the end key.

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

To make a call from Contacts, select **Menu** > **Contacts**. Scroll to the desired name, or enter the

first letters of the name to the search field. To call the contact, press the call key. If you have saved several numbers for a contact, select the desired number from the list, and press the call key.

## 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.

1. 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**.

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



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](http://www.nokia.com/werecycle), or with a mobile device, [www.nokia.mobi/werecycle](http://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](http://www.nokia.com/support).


## Learn more

For more information on the environmental attributes of your device, see [www.nokia.com/ecodeclaration](http://www.nokia.com/ecodeclaration).

# Product and safety information

## Accessories

### Nokia original accessories

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

For availability of approved accessories, check with your dealer.

An extensive range of accessories is available for your device. For more details, see [www.nokia.com.hk](http://www.nokia.com.hk).




### Practical rules about accessories

- Keep all accessories out of the reach of small children.

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

### Battery

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

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

time a device is used for calls will affect its stand-by time. Likewise, the amount of time that the device is turned on and in the standby mode will affect its talk time.

## Battery

### Battery and charger information

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

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 the skin or eyes. If this happens, flush the affected areas immediately with water, or seek medical help.

**Damage.** Do not modify, remanufacture, attempt to insert foreign objects into the battery, or immerse or expose it to water or other liquids. Batteries may explode if damaged.

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

damaged. Keep your battery out of the reach of small children.



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

## Nokia battery authentication guidelines

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

## Authenticate hologram

1. When you look at the hologram on the label, you should see the Nokia connecting hands symbol from one angle and the Nokia Original Enhancements logo when looking from another angle.
2. When you angle the hologram left, right, down and up, you should see 1, 2, 3 and 4 dots on each side respectively.



Successful completion of the steps is not a total assurance of the authenticity of the battery. If you cannot confirm authenticity or if you have any reason to believe that your Nokia battery with the hologram on the label is not an authentic Nokia battery, you should refrain from using it, and take it to the nearest Nokia authorised service centre or dealer for assistance.

To find out more about original Nokia batteries, see [www.nokia.com/batterycheck](http://www.nokia.com/batterycheck).

## 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](http://www.nokia.com/werecycle), or [nokia.mobi/werecycle](http://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.

## Vehicles

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

Only qualified personnel should service the device or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate your warranty. Check regularly that all wireless

device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or accessories. Remember that air bags inflate with great force. Do not place your device or accessories in the air bag deployment area.

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

## Potentially explosive environments

Switch off your device in any area with a potentially explosive atmosphere. Obey all posted instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or death. Switch off the device at refuelling points such as near gas pumps at service stations. Observe restrictions in fuel depots, storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include areas where you would be advised to turn off your vehicle engine, below deck on boats, chemical transfer or storage facilities and

where the air contains chemicals or particles such as grain, dust, or metal powders. You should check with the manufacturers of vehicles using liquefied petroleum gas (such as propane or butane) to determine if this device can be safely used in their vicinity.

## 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](http://www.nokia.com).

## Limited Warranty

Nokia Corporation, represented by its Mobile Phones Division ("Nokia") warrants that this Nokia cellular product and/or genuine Nokia accessory ("Product") is free from defects in material and workmanship, according to the following terms and conditions:

1. The limited warranty for the cellular phone, data product and all genuine Nokia accessories (except battery packs) extends for the first twelve (12) months beginning on the date of purchase of the Product.
2. The limited warranty for genuine Nokia battery packs extends for the first six (6) months beginning on the date of purchase of the Product.
3. The limited warranty extends only to the original consumer purchaser ("Consumer") of the Product and is not assignable or transferable to any subsequent purchaser/end user.
4. The limited warranty extends only to Consumers who purchase the Product in one of the countries (or areas) set forth at the end of this document. The limited warranty is only

valid in Nokia's intended country (or area) of sale of the Product.

5. During the limited warranty period, Nokia or its authorised service network will repair or replace, at Nokia's option, any defective Product or parts thereof with new or factory rebuilt replacement items, and return the Product to the Consumer in working condition. No charge will be made to the Consumer for either parts or labor in repairing or replacing the Product. All replaced parts, boards or equipment shall become property of Nokia. The external housing and cosmetic parts shall be free of defects at the time of shipment and, therefore, shall not be covered under these limited warranty terms.
6. Repaired Product will be warranted for the balance of the original warranty period or for ninety (90) days from the date of repair, whichever is longer.
7. Upon request from Nokia or its authorised service centre, the Consumer must provide purchase receipt or other information to prove the date and place of purchase.
8. Transportation, delivery and handling charges incurred in the transport of the Product to and from Nokia or its authorised service centre will be borne by the Consumer.

9. The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:
  - a) The Product has been subject to: abnormal use, abnormal condition, improper storage, exposure to moisture or dampness, exposure to excessive temperature or other such environmental conditions, unauthorised modifications, unauthorised connections, unauthorised repair including but not limited to use of unauthorised spare parts in repairs, misuse, neglect, abuse, accident, alteration, improper installation, Acts of God, spill of foods or liquids, maladjustment of customer controls or other acts which are beyond of reasonable control of Nokia, including deficiencies in consumable parts such as fuses and breakage or damage to antennas, unless caused directly by defects in materials or workmanship, and normal wear and tear of the Product.
  - b) Nokia was not notified by Consumer of the alleged defect or malfunction of the Product during the applicable limited warranty period.
  - c) The Product serial number or the accessory date code has been removed, defaced or altered.
  - d) The defect or damage was caused by defective function of the cellular system or by inadequate signal reception by the external antenna.
  - e) The Product was used with or connected to accessory not supplied by Nokia, not fit for use with Nokia cellular phones or used in other than its intended use.
  - f) The battery was short circuited or seals of the battery enclosure or cells are broken or show evidence of tampering or the battery was used in equipment other than for which it has been specified.
10. If a problem develops during the limited warranty period, the Consumer should take the following step-by-step procedure:
  - a) The Consumer shall return the Product to the place of purchase for repair or replacement processing.
  - b) If "a" is not convenient, the Consumer may contact the local Nokia office for the location of the nearest authorised service centre.

- c) The Consumer shall arrange for the Product to be delivered to the authorised service centre. Expenses related to removing the Product from an installation are not covered under this limited warranty.
  - d) The Consumer will be billed for any parts or labor charges not covered by this limited warranty. The Consumer shall be responsible for expenses related to reinstallation of the Product.
  - e) In case of certain operator specific features in the Product such as SIM-lock, Nokia reserves the right to refer the Consumer to the relevant cellular operator before service will be provided.
  - f) If the Product is returned to Nokia after the expiration of the warranty period, Nokia's normal service policies shall apply and the Consumer will be charged accordingly.
11. ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING WRITTEN WARRANTY. OTHERWISE, THE FOREGOING WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NOKIA SHALL NOT BE LIABLE FOR INCIDENTAL OR

CONSEQUENTIAL DAMAGES OR A LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OR IMPAIRMENT OF PRIVACY OF CONVERSATIONS, WORK STOPPAGE OR LOSS OR IMPAIRMENT OF DATA ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT.

- 12. The benefits conferred by this limited warranty are in addition to all other rights and remedies under any applicable mandatory legislation as may be in force from country (area) to country (area).
- 13. Nokia neither assumes nor authorises any authorised service centre or any person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty.
- 14. All warranty information, product features and specifications are subject to change without notice.
- 15. The countries (or areas) in which this limited warranty is in force, subject to clause 4 above, are Hong Kong SAR and Macau SAR.

# Terms of use, OVI SERVICE TERMS and privacy policy

## Terms of Use

Thank you for choosing Nokia. By starting to use your device you begin your exciting journey with us.

## First use of your device

To access the wide range of Nokia's Ovi services a Nokia Account will be automatically created for you when you first use your device. You then only need to add personal user information when accessing the services for the first time, after which you can manage your Nokia Account online.

To help you to get the most out of your device and services, you will start receiving free personalized text messages from My Nokia with tips, tricks and support. You may unsubscribe from these My Nokia messages at any time by following the information on the welcome message you receive shortly after activating your device, or by clicking the My Nokia icon in your device and selecting Unsubscribe.

Upon first use of your device and after you have updated the Nokia device software an activation text message will be sent to Nokia.

## Software updates

If you update your Nokia device software the information described above in this notice still applies.

To ensure you have the latest Nokia device software and applications, your device checks the availability of software updates from Nokia. If any are available you will be prompted to approve their installation. You may disable automatic checking for updates through settings in your device. You may also install software through available software update channels.

## Other important information

By starting to use the device or when you update the Nokia device software you accept the Ovi Service Terms and Privacy Policy ("Terms") included in the sales box or as otherwise made available to you.

To provide you with the services described above your mobile number, device serial number and mobile subscription identifiers will be sent to Nokia upon first use of the device. Some or all of the above information may also be sent to Nokia in connection with software updates. This information may be used as further specified in the Privacy Policy.

This notice is not applicable and the welcome screen will not appear at first device use, if the service is not available in your country, software version or selected device language.

Normal charges for text messages and transmission of data will apply.

## OVI SERVICE TERMS

### 1. Acceptance

These Ovi Service Terms together with the Privacy Policy (collectively “Terms”) govern your use of the application or website where you accessed these Ovi Service Terms and use of the related services (collectively “Service”) and the Terms constitute an agreement between you and Nokia Corporation defining the rights and responsibilities of you and Nokia Corporation including its affiliates and suppliers (collectively “Nokia”) with respect to the Service. There may be additional conditions applicable to certain parts of the Service. You are not allowed to use the Service if you do not agree to the Terms.

### 2. Eligibility

To use the Service, you must be at least thirteen (13) years of age. If you are at least thirteen (13) years of age but a minor where you live, you must review the Terms and have your parent or legal guardian

complete the registration on your behalf for you to use the Service. The person completing the registration must be legally competent.

### 3. Registration and Termination

You agree to provide truthful and complete information when registering for the Service and to keep that information updated. Providing misleading information about your identity is forbidden.

When you register, you will create a username and a password. You (and your parent or legal guardian, if you are a minor) are personally responsible for any use of the Service with your username and password. You agree to take due care in protecting your username and password against misuse by others and promptly notify Nokia about any misuse.

You may terminate your registration if you no longer wish to use the Service. After termination, you will no longer have access to the Service. Nokia may terminate your registration or restrict your access to certain parts of the Service if there is an indication that you have breached the Terms or with a prior notice if you have not signed into the Service with your username in the past six (6) months. Except as set forth in Privacy Policy, Nokia shall not be responsible for any removal of the

information or content you have submitted (“Material”) from the Service when your registration is terminated.

After the Material is removed from the Service by either you or Nokia, some traces of the Material may remain and copies of the Material may still reside within the Service.

#### 4. Using the Service

You agree to:

- Use the Service only for your private, non-commercial purposes;
- Comply with applicable laws, the Terms and good manners;
- Not submit unlawful, offensive, abusive, pornographic, harassing, libelous or other inappropriate Material;
- Respect the privacy of others;
- Obtain any consents, permission or licenses that may be required for you to have the legal right to submit any Material; and
- Not distribute or post spam, unreasonably large files, chain letters, pyramid schemes, viruses or any other technologies that may harm the

Service, or the interest or property of the Service users.

Nokia may but has no obligation to:

- Monitor or moderate any of the Material; and
- Remove any Material from the Service and restrict access to any part of the Service at any time in its sole discretion.

#### 5. Allegations of Copyright Infringement

You may notify Nokia of copyright infringement on the Service by providing notice (a) by email with “Copyright Notification” in the subject line to [copyright.notices@nokia.com](mailto:copyright.notices@nokia.com), (b) by a document titled “Copyright Notification” mailed to Nokia, Attn: Copyright Agent, 102 Corporate Park Drive, White Plains, NY 10604, or (c) via the online form, if available. Your notice must:

- (1) Identify the original copyrighted work you claim is infringed;
- (2) Identify the content on the Service that you claim is infringing the copyrighted work. Please provide enough detail for Nokia to locate the allegedly infringing content on the Service;
- (3) Provide your contact information, including your full name, mailing address, telephone number, and email address, if available;

(4) Provide a statement that you have a good faith belief that the use of the content in the manner complained of is not authorized by the copyright owner, its agent, or the law;

(5) Provide this statement: "I swear, under penalty of perjury, that the information in this notification and complaint is accurate and that I am the copyright owner, or am authorized to act on behalf of the copyright owner of an exclusive right that is infringed."; and

(6) Provide your signature.

## **6. Licenses**

Nokia does not claim ownership in your Material. Your submission of Material to the Service does not transfer ownership rights in the Material to Nokia. However, by submitting Material to the Service you grant Nokia a worldwide nonexclusive, assignable, fully paid, royalty-free, perpetual and irrevocable license to use, copy, publicly perform, display, distribute and modify the Material, and to prepare derivative works thereof, or incorporate the Material into other works as well as sublicense the same.

Users of the Service are granted a non-exclusive, non-transferable, revocable license (revocable at the sole discretion of Nokia at any time) to access and use the Service strictly in accordance with the

Terms. Any further intellectual property rights in any information or content in the Service are not granted.

## **7. Fees**

Your use of the Service may be or may become subject to charges. Any fees charged by Nokia will be announced separately in connection with the Service.

Use of the Service may involve transmission of data through your service provider's network. Your network service provider may charge for such data transmission.

Nokia assumes no responsibility for the payment of any charges.

## **8. Availability**

The Service may not be available in some countries and may be provided only in selected languages. The Service may be network dependent, contact your network service provider for more information.

Nokia reserves the right, in its sole discretion, to change, improve and correct the Service. The Service may not be available during maintenance breaks and other times.

Nokia may also decide to discontinue the Service or any part thereof in its sole discretion. In such case you will be provided a prior notification.

## **9. Dealings with Others**

You may interact with other users on or through the Service. You agree that any such interactions do not involve Nokia and are solely between you and the other user(s).

## **10. Personal Data**

The Privacy Policy and additional provisions in these Ovi Service Terms govern use of your personal data.

## **11. Limitation of Liability**

The Service is provided on “AS IS” and “AS AVAILABLE” basis. Nokia does not warrant that the Service will be uninterrupted or error or virus-free. No warranty of any kind, either express or implied, including but not limited to warranties of title or non-infringement or implied warranties of merchantability or fitness for a particular purpose, is made in relation to the availability, accuracy, reliability, information or content of the Service. You expressly agree and acknowledge that the use

of the Service is at your sole risk and that you may be exposed to content from various sources.

Except for liability for death or personal injury caused by gross negligence or intentional misconduct, Nokia shall not be liable for any direct, indirect, incidental, punitive or consequential damages caused by the use or inability to use the Service.

## **12. Indemnification**

You agree to defend, indemnify and hold harmless Nokia from and against any and all third party claims and all liabilities, assessments, losses, costs or damages resulting from or arising out of i) your breach of the Terms, ii) your infringement or violation of any intellectual property, other rights or privacy of a third party, iii) misuse of the Service by a third party where such misuse was made available by your failure to take reasonable measures to protect your username and password against misuse.

## **13. Miscellaneous**

### **13.1 Choice of Law and Arbitration**

Except where prohibited by applicable law or provided otherwise herein, the Terms shall be

governed by the laws of Finland without regard to its conflict of law provisions.

If you are a US resident the following paragraph shall apply: The Terms shall be governed by the laws of New York without regard to its conflicts of law provisions. Any dispute relating to these Terms or the Service shall be submitted to binding arbitration in Westchester County, New York within eighteen (18) months of the date the facts giving rise to the suit were known, or should have been known, by the complainant, except that Nokia may seek injunctive or other relief if you have violated or threatened to violate any intellectual property rights. All matters relating to arbitration shall be governed by the Federal Arbitration Act (9 U.S.C. §1 et. seq.). Arbitration shall be conducted by a single arbitrator under the then prevailing Wireless Arbitration Rules of the American Arbitration Association ("AAA"). Each party must submit any claim which would constitute a compulsory counterclaim in litigation or such claim shall be barred. No award of exemplary, special, consequential or punitive damages shall be permitted. The losing party, as determined by the arbitrator, shall pay the arbitration fees. The arbitrator's award shall be binding and may be entered as a judgment and enforceable in any court of competent jurisdiction. Arbitration shall be

conducted on an individual, not class-wide basis, and no arbitration shall be joined with an arbitration involving any other person or entity.

### 13.2 Validity

The Terms shall neither exclude nor limit any of your mandatory rights in your country of residence. If a provision of the Terms is found to be invalid, the validity of the remaining provisions shall not be affected and the invalid provision shall be replaced with a valid provision that comes closest to the result and purpose of the Terms. If there is any conflict between these Ovi Service Terms and the Privacy Policy, the provisions of these Ovi Service Terms shall prevail. The provisions of the Terms that are intended to survive termination shall remain valid after any termination.

### 13.3 Changes in Terms

Nokia reserves the right to modify the Terms at any time without prior notice. If the Terms are changed in a material, adverse way, Nokia will provide a separate prior notice advising of such change.

You are responsible for regularly reviewing the Terms. Your continued use of the Service shall constitute your consent to any changes and modifications.

### 13.4 Links to Third Party Sites and Content

For your easy accessibility Nokia may include links to sites on the Internet that are owned or operated by third parties and that are not part of the Service. Upon following a link to such a third-party site, you shall review and agree to that site's rules of use before using such site.

You agree that Nokia has no control over the content of third-party sites and cannot assume any responsibility for services provided or material created or published by such sites. A link to a third-party site does not imply that Nokia endorses the site or the products or services referenced in the site.

In addition, users may create links within the Service to content that has not otherwise been submitted to the Service. You agree that Nokia is neither responsible for nor liable for any such links.

#### **14. Intellectual Property**

The Service and related software are protected under international copyright laws and you are hereby notified that copyrights are claimed by Nokia. Subject to the Terms, Nokia retains all right, title and interest in the Service and in all Nokia's products, software and other properties provided to you or used by you through the Service.

## **WE CARE ABOUT YOUR PRIVACY**

Nokia is committed to protecting your privacy and to comply with applicable data protection and privacy laws. We hope that this Privacy Policy ("Policy") helps you understand what kind of information we collect in connection with our products and services and how we process such information. Throughout this Policy the term "personal data" means information relating to an identified or identifiable individual (i.e. a natural person). "Nokia" refers to Nokia Corporation, including its affiliates (also referred to as "we", "us", or "our").

This Policy applies to personal data collected in connection with products and services offered by Nokia or from other interactions with us where a link or other reference of incorporation to this Policy is made, for example, in connection with our devices and accessories, websites (also including mobile websites), games, music and other types of services offered by Nokia typically in electronic form, as well as other services such as customer care and warranty services or promotions and campaigns.

We may provide additional or amending privacy information in connection with a particular Nokia product or service. Such information prevails over

this Policy to the extent of any conflict. Our products or services may contain links to other companies' websites and other third party services that have privacy policies of their own. We recommend that you read the privacy policies of such services. Nokia is not responsible for the privacy practices or contents of any such services.

**By using this website and/or by submitting personal data to Nokia, you express your agreement to the processing of your personal data in the manner provided in this Policy. If you do not agree with this Policy, please do not use this website or provide Nokia with your personal data.**

### **The Data We Collect**

We collect your personal data typically when you make a purchase, use or register into our services, enter into a sales promotion or a campaign or otherwise interact with us. We endeavour to collect personal data only with your knowledge or consent. Below are examples of the categories of data collected.

- **Technical Information** For the most part, you may visit our websites or use our products or services without having to tell us who you are. However, certain technical information is normally collected as a standard part of your use

of our services. Such information includes, for example, your IP-address, access times, the website you linked from, pages you visit, the links you use, the ad banners and other content you viewed, information about your devices and other such technical information your browser provides us with or as may be otherwise collected in connection with certain products and services. When you use our services or otherwise interact with us over telecommunications networks, certain additional information, such as your mobile telephone number, may be transmitted to us by the telecommunications operator as a standard part of that communication. Please also see the section "Use of Cookies and Web Beacons" below.

- **Information you provide us with** When you register for our services, make a purchase, enter a sales promotion or otherwise interact with us, we may ask you to provide us with information such as your name, email address, street address, as well as user names, passwords and other such credentials that are used to authenticate users and to validate their actions or that may be needed to provide you with the products and services you have requested or to communicate with you.

We may collect demographic information, for example, your age, gender, postal code and language preferences. We may also collect other information you provide, such as your consents, preferences and feedback, information relating to your devices and other such information you provide us with. Please note that certain non-identifiable information collected from you may become personally identifiable when you provide us with your personal data. We may also obtain, in accordance with applicable law, some personal data from list-rental companies and other such publicly available sources. Some of our services may allow you to submit information about other people, for example, if you make an order for a product that you wish us to send directly to another recipient.

- **Your transactions with us** We collect or ask for information relating to your purchase and/or use of our products and/or services and your other interactions with us. Such information may include, for example, details of the queries or requests you have made, the products and services provided (including delivery details), financial details (including payments made, credit card details, billing address, credit checks and other such financial information), details of agreements between you and Nokia, records of

contacts and communications, information and details relating to the content you have provided us with and other such transactional information. We may, in accordance with applicable law, record your communication with our customer care or with other such contact points. Certain services may involve the use of your location data. However, use of your location data for such services is subject to your consent.

### **The Purposes for which We Process Your Personal Data**

Nokia processes your personal data for the purposes described in this Policy and/ or any additional service specific privacy information. Please note that one or more purposes may apply simultaneously.

- **Provision of products and services** We may use your personal data to fulfill your requests, process your order or as otherwise may be necessary to perform or enforce the contract between you and Nokia, to ensure the functionality and security of our products and services, to identify you and to prevent and investigate fraud and other misuses.
- **Development of products and services** We may use your personal data to develop our products and/or services. However, for the most

part we only use aggregate and statistical information in the development of our products and services. We may also use your personal data to personalize our offering and to provide you with service more relevant to you, for example, to make recommendations and to display customized content and advertising in our websites. We may combine personal data collected in connection with your use of a particular Nokia product and/or service with other personal data we may hold about you, except where such personal data was collected for a different purpose. We may create aggregate and statistical information based on your personal data.

- **Communicating with you and marketing** We may use your personal data to communicate with you, for example, to provide information relating to our products and/or services you are using or to contact you for customer satisfaction queries. We may use your personal data for marketing or research purposes, for example, to conduct market research and we may, in accordance with applicable law, contact you to inform you of new products, services or promotions we may offer. Also, some of our products and services may be used to promote products and services of other companies.

However, Nokia does not disclose your personal data to such companies or any other company for marketing purposes without your prior consent.

### **Sharing Your Personal Data**

Generally, we do not sell, lease, rent or otherwise disclose your personal data to third parties unless otherwise stated below.

- **Consent** We may share your personal data if we have your consent to do so. Some services may include sharing your personal data with other users of the service, for example services where users publish their own content or Nokia user communities.
- **Nokia companies and authorized third parties** We may share your personal data with other Nokia companies or authorized third parties who process personal data for Nokia for the purposes described in this Policy. Such parties are not permitted to use your personal data for other purposes, and we require them to act consistently with this Policy and to use appropriate security measures to protect your personal data.
- **International transfers** Our products and services may be provided using resources and servers located in various countries around the world. Therefore your personal data may be

transferred across international borders outside the country where you use our services, including to countries outside the European Economic Area (EEA) that do not have laws providing specific protection for personal data or that have different legal rules on data protection, for example, the United States of America. In such cases we take steps to ensure that there is a legal basis for such a transfer and that adequate protection for your personal data is provided as required by applicable law, for example, by using standard agreements approved by relevant authorities (where necessary) and by requiring the use of other appropriate technical and organizational information security measures.

- **Mandatory disclosures** We may be obligated by mandatory law to disclose your personal data to certain authorities or other third parties, for example, to law enforcement agencies in the countries where we or third parties acting on our behalf operate. We may also disclose and otherwise process your personal data in accordance with applicable law to defend Nokia's legitimate interests, for example, in civil or criminal legal proceedings.
- **Mergers and Acquisitions** If we decide to sell, buy, merge or otherwise reorganise our businesses in certain countries, this may involve

us disclosing personal data to prospective or actual purchasers and their advisers, or receiving personal data from sellers and their advisers.

### Collecting the Data of Minors

Nokia does not seek to collect any information from or engage in any transactions with persons under the age of 13. Our databases may nevertheless contain personal data of children under 13 due to the fact that it is not always possible to determine precisely the age of the user. Insofar as we ask you to provide your age, we block the service from any person who is under 13 years of age. We will also make reasonable efforts to clear our databases of personal data relating to under age users.

Nokia's policy is to request that minors (the legal age of majority and therefore the age of minors is determined by local law where you reside) do not make purchases or engage in other legal acts on our products and services without the consent of a parent or legal guardian, unless otherwise permitted by applicable law.

### Data Quality

We take reasonable steps to keep the personal data we possess accurate and up-to-date and to delete out of date or otherwise incorrect or unnecessary personal data.

As certain Nokia products and services may allow you to manage your profile, we encourage you to access your personal data from time to time to ensure that it is correct and up-to-date. Please remember that it is your responsibility to provide us with correct details as well as to update the personal data you have provided us with in case of any changes.

### **Security**

While there are always risks associated with providing personal data, whether in person, by phone, via the internet or otherwise, and no technology is completely safe or “tamper” or “hacker” proof, Nokia takes appropriate technical and organizational information security measures to prevent and minimize such risks.

Such measures include, where appropriate, the use of firewalls, secure server facilities, encryption, implementing proper access rights management systems and processes, careful selection of processors and other technically and commercially reasonable measures to provide appropriate protection for your personal data against unauthorized use or disclosure. Where appropriate, we may also take back-up copies and use other such means to prevent accidental damage or destruction to your personal data. If a particular part of a Nokia website supports on-line

transactions, we will use an industry standard security measure, such as the one available through “Secure Sockets Layer” (“SSL”), to protect the confidentiality and security of online transactions.

### **Use of Cookies and Web Beacons**

From time to time when you visit a Nokia website, information may be placed on your computer to allow us to recognize your computer. This information is commonly in the form of a textfile known as a “cookie”. Cookies are small pieces of data stored on your computer’s hard drive, rather than on the website. Typically, they enable collection of certain information about your computer, including your internet protocol (IP) address, your computer’s operating system, your browser type and the address of any referring sites. Our use of cookies is intended to provide benefits to you, such as eliminating the need for you to enter your password frequently during a session or the need to re-enter items you place in a shopping cart if you do not finish a transaction in a single visit. Cookies are also used for website traffic analysis and anonymous demographic profiling so that we may improve our services.

Nokia may use so called web beacons (or “pixel tags”) in connection with some websites. However, we do not use them to identify individual users personally. Web beacons are typically graphic

images that are placed on a website and they are used to count visitors to a website and/or to access certain cookies. This information is used to improve our services. Web beacons do not typically collect any other information than what your browser provides us with as a standard part of any internet communication. If you turn off cookies, the web beacon will no longer be able to track your specific activity. The web beacon may, however, continue to collect information of visits from your IP-address, but such information will no longer be unique.

If you do not wish to receive cookies, or want to be notified before they are placed, you may set your web browser to do so, if your browser so permits. Please understand that if cookies are turned off, you may not be able to view certain parts of this site that may enhance your visit. Some of our business partners whose content is linked to or from this site may also use cookies or web beacons. However, we have no access to or control over these cookies.

### **Your Rights**

In case you wish to know what personal data we hold about you or you wish to replenish, rectify, anonymize or delete any incomplete, incorrect or outdated personal data, or you wish us to cease processing your personal data for the purpose of sending promotional materials or direct marketing or for the performance of market research or on

other compelling legal grounds, you may, as appropriate and in accordance with applicable law, exercise such rights by contacting us through the contact points referred to below. In some cases, especially if you wish us to delete or cease the processing of your personal data, this may also mean that we may not be able to continue to provide the services to you. We encourage you to use available profile management tools for the above purposes as such tools often provide you with direct access to your personal data and allow you to effectively manage it.

Please note that Nokia may need to identify you and to ask for additional information in order to be able to fulfill your above request. Please also note that applicable law may contain restrictions and other provisions that relate to your above rights.

### **The Controller of Your Personal Data and Contact Details**

Nokia Corporation of Keilalahdentie 4, 02150 Espoo, Finland shall be the controller of your personal data.

In addition, the Nokia affiliate providing the product or service may be a controller of your personal data. You may find the identity of the controller and its contact details by reviewing the terms and conditions of such a product or service or by using contact information provided in the

applicable Nokia websites. In matters pertaining to Nokia's privacy practices you may also contact us at:

Nokia Corporation

c/o Privacy

Keilalahdentie 4

02150 Espoo

Finland

### **Changes to This Privacy Policy**

Nokia may from time to time change this Privacy Policy or change, modify or withdraw access to this site at any time with or without notice. However, if this Privacy Policy is changed in a material, adverse way, Nokia will post a notice advising of such change at the beginning of this Policy and on this site's home page for 30 days. We will assume you have accepted any such change after the expiry of this 30 day period or if you continue to use this site after such changes have been posted and before such period has expired. If you do not accept any such changes, please contact us by using the contact details above and ask us to stop using your personal data. We recommend that you re-visit this Privacy Policy from time to time to learn of any such changes to this Privacy Policy.

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