

RM-400 User Guide

DRAFT

DECLARATION OF CONFORMITY Hereby, NOKIA CORPORATION declares that this RM-400 product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the Declaration of Conformity can be found at http://www.nokia.com/phones/declaration_of_conformity/.

CE 0434

© 2008 Nokia. All rights reserved.

Nokia, Nokia Connecting People, N-Gage, Navi and Visual Radio are trademarks or registered trademarks of Nokia Corporation. Nokia tune is a sound mark of Nokia Corporation. Other product and company names mentioned herein may be trademarks or tradenames of their respective owners.

Reproduction, transfer, distribution, or storage of part or all of the contents in this document in any form without the prior written permission of Nokia is prohibited.

symbian This product includes software licensed from Symbian Software Ltd © 1998-2008. Symbian and Symbian OS are trademarks of Symbian Ltd.

US Patent No 5818437 and other pending patents. T9 text input software Copyright (C) 1997-2008. Tegic Communications, Inc. All rights reserved.



Java™ and all Java-based marks are trademarks or registered trademarks of Sun Microsystems, Inc.

Portions of the Nokia Maps software are © 1996-2002 The FreeType Project. All rights reserved.

This product is licensed under the MPEG-4 Visual Patent Portfolio License (i) for personal and noncommercial use in connection with information which has been encoded in compliance with the MPEG-4 Visual Standard by a consumer engaged in a personal and noncommercial activity and (ii) for use in connection with MPEG-4 video provided by a licensed video provider. No license is granted or shall be implied for any other use. Additional information, including that related to promotional, internal, and commercial uses, may be obtained from MPEG LA, LLC. See <<http://www.mpegla.com>>.

Nokia operates a policy of ongoing development. Nokia reserves the right to make changes and improvements to any of the products described in this document without prior notice.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, UNDER NO CIRCUMSTANCES SHALL NOKIA OR ANY OF ITS LICENSORS BE RESPONSIBLE FOR ANY LOSS OF DATA OR INCOME OR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES HOWSOEVER CAUSED.

THE CONTENTS OF THIS DOCUMENT ARE PROVIDED "AS IS". EXCEPT AS REQUIRED BY APPLICABLE LAW, NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE MADE IN RELATION TO THE ACCURACY, RELIABILITY OR CONTENTS OF THIS DOCUMENT. NOKIA RESERVES THE RIGHT TO REVISE THIS DOCUMENT OR WITHDRAW IT AT ANY TIME WITHOUT PRIOR NOTICE.

The availability of particular products and applications and services for these products may vary by region. Please check with your Nokia dealer for details, and availability of language options.

Export controls

This device may contain commodities, technology or software subject to export laws and regulations from the US and other countries. Diversion contrary to law is prohibited.

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.

draft

DRAFT

Contents

SAFETY	6	5. Write text	31
Support	8	Traditional and predictive text input.....	31
Help.....	8	Copy and delete text.....	32
Nokia support and contact information	8	6. Messaging	32
1. Get started	9	Write and send messages	32
Insert a USIM card and battery.....	9	Inbox.....	33
MicroSD card	9	Service messages.....	33
Charge the battery.....	10	E-mail.....	34
Switch the device on and off.....	10	Outbox.....	35
Configuration settings.....	11	View messages on the SIM card.....	35
Transfer data.....	12	Cell broadcast	35
2. Your device	12	Service commands.....	35
Keys and parts	12	Messaging settings.....	35
Cover display.....	13	7. Contacts	36
Standby mode.....	14	Save and manage contact information ...	36
Indicators.....	15	Contact groups	37
Screen saver.....	16	Add a ringing tone.....	37
Menu	16	8. Gallery	37
Volume control.....	16	Main view.....	37
Keypad lock (keyguard).....	17	Download files	38
Access codes	17	Edit images	38
Download!.....	18	Edit video clips.....	38
My own.....	18	Print images.....	38
Connect a compatible headset	18	9. Camera	39
Connect a USB data cable	19	Capture images.....	39
3. Call functions	19	Record videos	41
Make a voice call.....	19	Camera settings.....	42
Answer or reject a call	21	10. Media	43
Call settings.....	21	Music player	43
Log	23	FM Radio.....	45
4. Positioning	23	RealPlayer.....	46
About GPS.....	23	Flash Player.....	46
Assisted GPS.....	24	Recorder.....	46
Set up GPS connection	24	11. Internet	47
Position requests.....	25	Browse the web	47
Maps.....	25	Mobile Search	49
Landmarks.....	29	12. Personalisation	50
GPS data.....	30		

Themes.....	50	Device manager	57
Profiles.....	50	17.Connectivity.....	58
13.Time management	50	Data transfer	58
Clock.....	50	PC Suite.....	59
Calendar	51	Bluetooth connectivity	59
14.Office applications	51	USB connection	61
Notes	51	Remote synchronisation.....	61
Calculator.....	51	Connection manager.....	61
Converter.....	51	18.Battery and charger	
15.Settings	52	information	62
Voice commands.....	52	Nokia battery authentication guidelines.	63
Phone settings.....	52	Care and maintenance.....	64
16.Data management	54	Additional safety information	65
Install or remove applications	54	Index.....	69
File manager.....	55		
Licences.....	56		

DRAFT

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.



QUALIFIED SERVICE

Only qualified personnel may install or repair this product.



ENHANCEMENTS AND BATTERIES

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



WATER-RESISTANCE

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

■ About your device

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

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.

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.

The office applications support common features of Microsoft Word, PowerPoint, and Excel (Microsoft Office 2000, XP, and 2003). Not all file formats can be viewed or modified.

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.

■ Network services

To use the phone you must have service from a wireless service provider. Many of the features require special network features. These features are not available on all networks; other networks may require that you make specific arrangements with your service provider before you can use the network services. Your service provider can give you instructions and explain what charges will apply. Some networks may have limitations that affect how you can use network services. For instance, some networks may not support all language-dependent characters and services.

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 a special configuration such as changes in menu names, menu order, and icons. Contact your service provider for more information.

This device supports WAP 2.0 protocols (HTTP and SSL) that run on TCP/IP protocols. Some features of this device, such as [list features and delete brackets] require network support for these technologies.

■ Battery safety

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

■ Help

Your device has context-sensitive help. To access help when an application is open, select **Options** > **Help**. To switch between help and the application that is open in the background, select and hold **⌘**, and select from the list of open applications.

To open help from the main menu, select **⌘** > **Help** > **Help**. Select an application to view a list of help topics, and select the related help text. To open a keyword list, select **Options** > **Search**.

■ Nokia support and contact information

Check www.nokia.com/support or your local Nokia website for the latest guides, additional information, downloads, and services related to your Nokia product.

On the website, you can get information on the use of Nokia products and services. If you need to contact customer service, check the list of local Nokia contact centres at www.nokia.com/customerservice.

For maintenance services, check your nearest Nokia service centre at www.nokia.com/repair.

Software updates

Nokia may produce software updates that may offer new features, enhanced functions, or improved performance. You may be able to request these updates through the Nokia Software Updater PC application. To update the device software, you need the Nokia Software Updater application and a compatible PC with Microsoft Windows 2000 or XP operating system, broadband internet access, and a compatible data cable to connect your device to the PC.

To get more information and to download the Nokia Software Updater application, visit www.nokia.com/softwareupdate or your local Nokia web site.

If software updates over the air are supported by your network, you may also be able to request updates through the device.

Downloading software updates may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

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

1. Get started

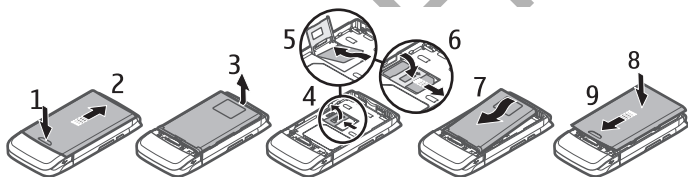
■ Insert a USIM card and battery

This device uses BP-4L batteries.

1. To open the back cover of the device, with the back facing you, push the button on the back (1) and slide the cover toward the bottom of the device (2), and remove it. To remove the battery, lift it from the end (3).
2. Lift the SIM card holder (4) and place the SIM card into the slot (5). Close the SIM card holder by sliding it slightly towards the bevelled corner of the SIM card (6).

Make sure that the gold-coloured contact area on the card is facing downward on the device, and the bevelled corner faces toward the card holder slot.

3. Replace the battery (7). Replace the back cover (8–9).



■ MicroSD 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.



Important: Do not remove the memory card in the middle of an operation when the card is being accessed. Removing the card in the middle of an operation may damage the memory card as well as the device, and data stored on the card may be corrupted.

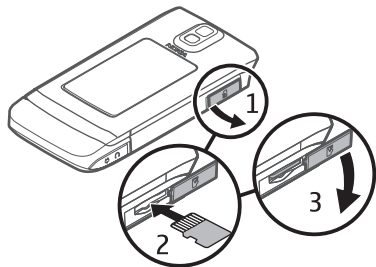
Keep microSD cards out of the reach of small children.

You can extend the available memory with a microSD memory card. You can insert or remove a microSD card without switching the device off.

Insert a microSD card

Note that the memory card may be supplied with the device, and may already be inserted.

1. Open the cover (1).
2. Place the microSD card in the slot with the gold-coloured area facing up (2).
3. Push the card gently to lock it into place. Close tight the cover (3).



Remove a microSD card

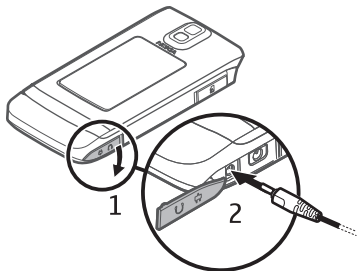
Open the cover. Push the card gently to release it. *Remove memory card and press 'OK'* is displayed. Pull the card out, and select **OK**. Close the cover.

■ Charge the battery

1. Connect the charger to the wall socket.
2. Open the side door (1). Connect the charger plug to the charger connector in the device (2).

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

The charging time depends on the charger and the battery used.



■ Switch the device on and off

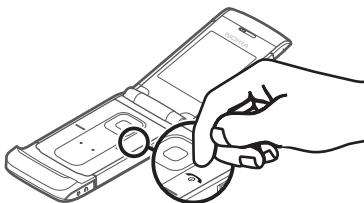
Press and hold the power key.

If the device asks for a PIN code, enter the PIN code, and select **OK**.

If the device asks for the lock code, enter the lock code, and select **OK**. The factory setting for the lock code is 12345.

For more information about access codes, see Access codes p. 17.

To set the correct time zone, time, and date, select the country you are presently in, then enter the local time and date. See also Clock p. 50.



Antenna locations

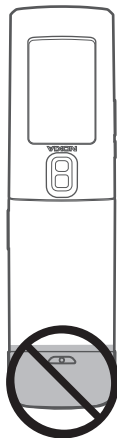
Your device has three antennas: cellular antenna, Bluetooth antenna and GPS antenna. The antennas are integrated, and located at the lower part of your device.

Your device may have internal and external antennas. As with any radio transmitting device, avoid touching the antenna area unnecessarily while the antenna is transmitting or receiving. Contact with such an antenna affects the communication quality and may cause the device to operate at a higher power level than otherwise needed and may reduce the battery life.

■ Configuration settings

Before you can use multimedia messaging, e-mail, synchronisation, streaming, and the browser, you must have the proper configuration settings on your device. Your device may automatically configure browser, multimedia messaging, access point, and streaming settings based on the SIM card used. If not, you can use the Settings wizard application to configure the settings. You may receive the settings directly as a configuration message, which you can save to your device. For more information on availability, contact your service provider or nearest authorised Nokia dealer.

When you receive a configuration message, and the settings are not automatically saved and activated, *1 new message* is displayed. To save the settings, select **Show** > **Options** > **Save**. You may need to enter a PIN code provided by the service provider.



Settings wizard

The Settings wizard application configures your device for operator and e-mail settings based on your service provider. Configuring other settings may also be possible.

To use these services, you may have to contact your service provider to activate a data connection or other services.

Select  > *Settings* > *Sett. wizard*.

■ Transfer data

To transfer information, such as contacts, from your old device, see Data transfer p. 58.

2. Your device

■ Keys and parts

Earpiece (1)

Display (2)

Navi™ scroll key, hereafter referred to as scroll key, and status light around it (3)

Left selection key (4)

Right selection key (5)

Menu key, hereafter described as "select " (6)

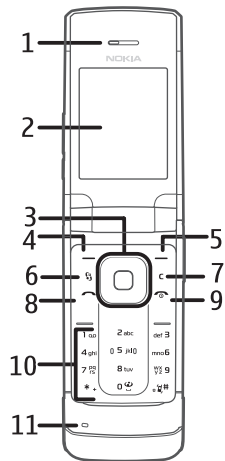
Clear key (7)

Call key (8)

End key/Power key (9)

Number keys (10)

Microphone (11)



Camera lens (12)

Camera flash (13)

Cover display (14)

Left cover light (15)

Middle cover light (16)

Right cover light (17)

Charger connector (18)

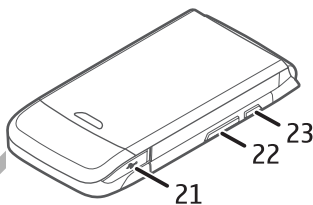
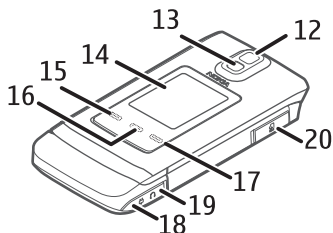
Headphones connector (19)

microSD card slot (20)

Micro USB connector (21)

Volume keys (22)

Camera key (23)




■ Cover display

Your device has a cover display. The cover display works by sliding your finger lightly over the three cover lights on the lower end of the display, instead of pressing the cover lights. To access phone menus with the cover closed, slide your finger lightly over the centre light with the menu symbols above. Use the volume key to scroll up and down through the menus. Menus include profiles, music player, camera, calendar, timer and stopwatch.




To open a menu, slide your finger lightly over the left cover light to select OPEN. Functions of the left cover light vary depending on the selected menu. Use the volume key to scroll through the menus. The right cover light functions also vary according to the selected application. Select EXIT by sliding your finger lightly over the right cover light to exit any menu.

To lock the cover display lights, press the left cover light and the right cover light within 1.5 seconds. To unlock the cover keypad, press **Unlock** (left cover light), and **OK** (right cover light) within 1.5 seconds.

To modify the cover display settings, with the fold open, select  > *Settings* > *Phone sett.* > *General* > *Cover display* and from the following:

Answer if fold opened – to set if the call is answered when you open the fold

Sleep mode – to set whether the cover display is switched off when the power saver–time out is reached

To personalise the cover display, select  > *Settings* > *Themes* > *Cover display* and from the following:

Theme – to select a theme for the cover display or the default theme

Wallpaper – to select a wallpaper or the wallpaper set by the theme

Screen saver – to select an image, animation or no screen saver

Closing animation – to select an animation activated when the fold is closed

Closing fold tone – to select a tone activated when the fold is opened

Opening fold tone – to select a tone activated when the fold is closed

■ Standby mode


When you have switched on the device, and it is registered to a network, the device is in the standby mode and ready for use.


To open the list of last dialled numbers, press the call key.

To use the voice commands or voice dialling, press and hold the right selection key.

To change the profile, press the power key, and select a profile.

To start a connection to the web, press and hold 0.

To select the view for the standby mode, select  > *Settings* > *Phone sett.* > *General* > *Personalisation* > *Standby mode* > *Standby theme*.

Depending on the selected standby theme, you can select applications or events to add to a shortcut list in the standby mode or the scroll keys. To select the applications or events, select  > *Settings* > *Phone sett.* > *General* > *Personalisation* > *Standby mode* > *Shortcuts*.

Offline profile

To quickly activate the *Offline* profile, press the power key, and select *Offline*. To leave the *Offline* profile, press the power key, and select another profile.

When the *Offline* profile is active, the connection to the wireless network is turned off. All wireless radio frequency signals to or from your device are

prevented, and you can use your device without a SIM card. Use the offline profile in radio sensitive environments – on board aircraft or in hospitals. You can listen to music using the music player when the offline profile is active.




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.


■ Indicators


Icons

3G or  – The device is connected to a UMTS or GSM network.


3.5G – HSDPA (network service) in the UMTS network is activated.


 – The device is in the offline mode and not connected to a cellular network.

 – A memory card is inserted in the device.

 – You have messages to the *Inbox* folder in *Messaging*.

@ – You received new e-mail in your remote mailbox.

 – There are messages waiting to be sent in *Outbox*.


 – You have missed calls.



 – *Ringing type* is set to *Silent* and *Message alert tone* and *E-mail alert tone* are set to *Off*.




 – The device keypad is locked.




 – The loudspeaker is activated.




 – An alarm is active.



 – All calls to the device are diverted to another number.


 or  – A headset or a loopset is connected to the device.

 or  or  – A GPRS packet data connection is active, the connection is on hold, or a connection is available.

 or  or  – A packet data connection is active in a part of the network that supports EGPRS, or the connection is on hold, a connection is available. Your device may not use EGPRS in the data transfer.


 or  or  – A UMTS packet data connection is active, the connection is on hold, or a connection is available.

 or  – Bluetooth is switched on, or data is being transmitted using Bluetooth.


 – A USB connection is active.

Other indicators may also be shown.

■ Screen saver

To set the screen saver settings, select  > **Settings** > **Phone sett.** > **General** > **Personalisation** > **Themes** > **Power saver**. To modify the animation settings, to select an animation as screen saver, and to change the time out after which the screen saver and the background light are activated, select **Animation** > **Animation file**, **Power saver duration** or **Light duration**.

■ Menu

In the menu you can access the functions in your device. To access the main menu, select .


To open an application or a folder, scroll to it, and press the scroll key.

If you change the order of the functions in the menu, the order may differ from the default order described in this user guide.

To mark or unmark an item in applications, press **#**. To mark or unmark several consecutive items, press and hold **#**, and scroll up or down.

To change the menu view, select **Options** > **Change Menu view** and a view type.

To close an application or a folder, select **Back** and **Exit** as many times as needed to return to the standby mode, or select **Options** > **Exit**.

To display and switch between open applications, press and hold . Scroll to an application, and select it.

Leaving applications running in the background increases the demand on battery power and reduces the battery life.


■ Volume control

To adjust the earpiece or loudspeaker volume during a call or when listening to an audio file, press the volume keys. To activate or deactivate the loudspeaker during a call, select **Loudsp.** or **Handset**.



Warning: Do not hold the device near your ear when the loudspeaker is in use, because the volume may be extremely loud.

■ Keypad lock (keyguard)


To lock the keypad in the standby mode, press the left selection key and * within 1.5 seconds. To set the device to automatically lock the keypad after a certain time, select  > [Settings](#) > [Phone sett.](#) > [General](#) > [Security](#) > [Phone and SIM card](#) > [Keypad autolock period](#) > [User defined](#) and the desired time.

To unlock the keypad, select **Unlock**, and press * within 1.5 seconds.


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

To lock the cover keypad, press the left cover key and the right cover key within 1.5 seconds. To unlock the cover keypad, press **Unlock** (left cover light), and **OK** (right cover light) within 1.5 seconds.

■ Access codes

To set how your device uses the access codes, select  > [Settings](#) > [Phone sett.](#) > [General](#) > [Security](#) > [Phone and SIM card](#).

Lock code

The lock code (5 digits) locks your device. The preset code is 12345. To change the code, and set the device to request the code, select  > [Settings](#) > [Phone sett.](#) > [General](#) > [Security](#) > [Phone and SIM card](#) > [Lock code](#).

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

Remote lock

You can lock your device remotely using a text message. To enable your device to be locked remotely, and to define the message text to be used, select [Settings](#) > [Phone sett.](#) > [General](#) > [Security](#) > [Phone and SIM card](#) > [Remote phone locking](#). The message can be up to 20 characters long. To lock your device, send the message to your phone number. To open your device later, select **Unlock**, and enter the lock code.

PIN codes

The personal identification number (PIN) code or the universal personal identification number (UPIN) code help to protect your SIM card. The UPIN code is usually supplied with the SIM card. Set the device to request the code each time the device is switched on.

The PIN2 code may be supplied with the SIM card and is required for some functions.

The module PIN is required to access the information in the security module. The signing PIN is required for the digital signature. The module PIN and the signing PIN are supplied with the SIM card if the SIM card has a security module in it.

Barring password

The barring password (4 digits) is required when using Call barring. You can obtain the password from your service provider. If the password is blocked, contact your service provider.

■ Download!


Download! (network service) is a mobile content shop available on your device.

With Download! you can discover, preview, buy, download, and upgrade content, services, and applications. The items are categorised under catalogs and folders provided by different service providers. The available content depends on your service provider.

Select  > *Applications* > *Download!*.

Download! uses your network services to access the most up-to-date content. For information on additional items available through Download!, contact your service provider, or the supplier or manufacturer of the item.

■ My own

You can download applications to your device. To access the applications, select  > *Applications* > *My own*.



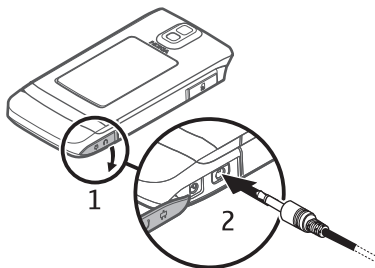
Important: Only install and use applications and other software from trusted sources, such as applications that are Symbian Signed or have passed the Java Verified™ testing.

■ Connect a compatible headset

Open the headset connector cover (1), and connect a compatible headset to the headset connector (2).

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.

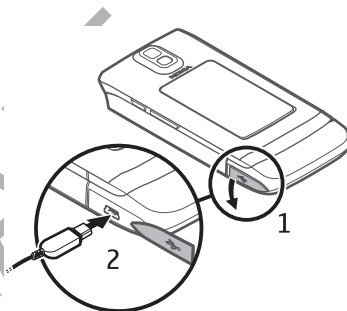
When connecting any external device or any headset, other than those approved by Nokia for use with this device, to the Nokia AV Connector, pay special attention to volume levels.



■ Connect a USB data cable

Open the USB connector cover (1), and connect a compatible USB data cable to the USB connector (2).

To select the default USB connection mode or change the active mode, select > *Settings* > *Connectivity* > *USB* > *USB connection mode* and the desired mode. To set whether the default mode is activated automatically, select *Ask on connection* > *No*.



3. Call functions


To adjust the volume during a call, press the volume keys.

■ Make a voice call

1. In the standby mode, enter the phone number, including the area code. Press the clear key to remove a number.

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


2. To call the number, press the call key.
3. To end the call, or to cancel the call attempt, press the end key.


To make a call from Contacts, select  > [Contacts](#). Scroll to the desired name; or enter the first letters of the name, and scroll to the desired name. To call the number, press the call key.

To call a recently dialled number from the standby mode, press the call key.

Speed dialling

Speed dialling is a quick way to call frequently used numbers from the standby mode. You need to assign a phone number to the speed dialling keys 2 to 9 (the 1 key is reserved for the call mailbox), and set [Speed dialling](#) to [On](#).


To assign a phone number to a speed dialling key, select  > [Settings](#) > [Speed dial](#). Scroll to a key icon, and select [Options](#) > [Assign](#). Select a contact, or enter a phone number, and the relevant speed dialling key. To change the number, select [Options](#) > [Change](#).

To activate speed dialling, select  > [Settings](#) > [Phone sett.](#) > [Phone](#) > [Call](#) > [Speed dialling](#) > [On](#).

To call a speed dialling number, press and hold the speed dialling key until the call begins.

Call mailbox

To call your call mailbox (network service), from the stand by mode, press and hold 1. You can have call mailboxes for voice calls, and multiple phone lines.

To define the call mailbox number if no number is set, select  > [Settings](#) > [Call mailbox](#). Scroll to [Voice mailbox](#), and enter the corresponding mailbox number. To change the call mailbox number, select [Options](#) > [Change number](#). Contact your service provider for the call mailbox number.

Voice dialling

A voice tag is added automatically to all entries in Contacts. Use long names, and avoid similar names for different numbers.

Make a voice dialling call

Voice tags are sensitive to background noise. Use voice tags in a quiet environment.



Note: Using voice tags may be difficult in a noisy environment or during an emergency, so you should not rely solely upon voice dialling in all circumstances.

1. In the standby mode, press and hold the right selection key.

If you are using a compatible headset with the headset key, press and hold the headset key.

2. When *Speak now* is displayed, speak the voice command clearly. The device plays the voice command of the best match. After 1.5 seconds, the device dials the number; if the result is not the correct one, before dialling select another entry.

Make a conference call

Your device supports conference calls (network service) between a maximum of six participants, including yourself.

1. Make a call to the first participant.
2. To make a call to another participant, select **Options** > *New call*.
3. To create the conference call when the new call is answered, select **Options** > *Conference*.

To add another person to the conference call, repeat step 2, and select **Options** > *Conference* > *Add to conference*.


4. To end the conference call, press the end key.

■ Answer or reject a call

To answer a call, press the call key.

To mute the ringing tone, select *Silence*.

To reject the call, press the end key, or select **Options** > *Reject*. If you have activated *Call divert* > *If busy*, rejecting the call diverts the call.

To send a text message as a reply to the caller instead of answering the call, select **Options** > *Send message*. To activate the text message reply and edit the message, select  > *Settings* > *Phone sett.* > *Phone* > *Call* > *Reject call with message* and *Message text*.

Call waiting

During a call, to answer the waiting call, press the call key. The first call is put on hold. To switch between the two calls, select **Swap**. To end the active call, press the end key.

To activate the call waiting function (network service), select  > *Settings* > *Phone sett.* > *Phone* > *Call* > *Call waiting* > *Activate*.

■ Call settings

Call

Select  > *Settings* > *Phone sett.* > *Phone* > *Call* and from the following:

Send my caller ID (network service) – to display or hide your phone number from the person to whom you are calling

Call waiting (network service) – See Call waiting p. 21.

Reject call with message and *Message text* – See Answer or reject a call p. 21.

Automatic redial – to set your device to make a maximum of 10 attempts to connect the call after an unsuccessful call attempt

Show call duration and *Summary after call* – to set your device to display the call duration during a call and the approximate duration of the last call


Speed dialling – See Speed dialling p. 20.

Anykey answer – to answer an incoming call by briefly pressing any key, except the left and right selection keys, volume keys, power key, and end key.

Line in use (network service) – to select the phone lines for making calls and sending short messages. Shown only if the SIM card supports two phone lines.


Line change (network service) – to enable or disable the line selection

Call divert

1. Select  > *Settings* > *Phone sett.* > *Phone* > *Call divert* (network service).
2. Select which calls you want to divert, for example, *Voice calls*.
3. Select the desired option. For example, to divert voice calls when your number is busy or when you reject an incoming call, select *If busy*.
4. Select *Options* > *Activate* and the phone number to which you want to divert the calls. Several divert options can be active at the same time.

Call barring and call diverting cannot be active at the same time.

Call barring

1. Select  > *Settings* > *Phone sett.* > *Phone* > *Call barring* (network service) to restrict the calls that you make and receive with your device.
2. Scroll to the desired barring option, and select *Options* > *Activate*. To change the settings, you need the barring password given by your service provider.

Call barring and call diverting cannot be active at the same time.

When calls are barred, calls may be possible to certain official emergency numbers.

Network


Select  > *Settings* > *Phone sett.* > *Phone* > *Network* and from the following:

Network mode – to select which network to use. This is shown only if it is supported by the service provider. If you select **Dual mode**, the device uses the GSM or UMTS network automatically.


Operator selection – To set the device to search for and automatically select one of the available networks, select **Automatic**. To select the desired network manually from a list of networks, select **Manual**. The selected network must have a roaming agreement with your home network.

Cell info display (network service) – to set the device to indicate when it is used in a cellular network based on microcellular network (MCN) technology, and to activate cell info reception

■ Log

To view missed, received, or dialled calls; text messages; packet data connections; and fax and data calls registered by the device, select  > **Log**.

In the standby mode, you can use the call key as a shortcut to **Dialled numbers** in the **Recent calls** log (network service).

 **Note:** The actual invoice for calls and services from your service provider may vary, depending on network features, rounding off for billing, taxes, and so forth.

 **Note:** Some timers, including the life timer, may be reset during service or software upgrades.

4. Positioning

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

■ About GPS

Your device has an internal GPS receiver.

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. The GPS receiver should only be used outdoors to allow reception of GPS signals.

Any 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.

■ Assisted GPS

Your device supports Assisted GPS (A-GPS, network service). 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. Your network operator may charge you for this according to your network subscription. Contact your service provider for the correct internet access point and charges related to the service.

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 use A-GPS, you must have a packet data internet access point defined. See Positioning settings p. 24.

■ Set up GPS connection

Positioning settings

Select  > *Settings* > *Phone sett.* > *General* > *Positioning* and from the following:

Positioning methods – to enable or disable different positioning methods

Positioning server – To define an access point for A-GPS, select *Access point*. Only a packet data internet access point can be used. Your device asks for the internet access point when GPS is used for the first time.

Notation preferences – to define the measurement system and coordinate format

Hold your device correctly

When using the receiver, from an upright position, move the device to an angle of about 45 degrees, with an unobstructed view of the sky.

Establishing a GPS connection may take from a couple of seconds to several minutes, in a vehicle even longer.


Using the GPS receiver may drain the device battery faster.

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.

- Check that your hand does not cover the GPS receiver 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.

Satellite signal status

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

If your device has found satellites, a bar for each satellite is shown in the satellite information view. The longer the bar, the longer the satellite signal. When your device has received enough data from the satellite signal to calculate the coordinates of your location, the bar turns black.

■ **Position requests**

You may receive a request from a network service to receive your position information. Service providers may offer information about local topics, such as weather or traffic conditions, based upon the location of your device.

When you receive a position request, to allow your position information to be sent, select *Accept*. To deny the request, select *Reject*.

■ **Maps**

The map coverage varies by country or region. For example, Maps may not be available due to legal restrictions of countries or regions. To the maximum extent permitted by the applicable law, Nokia disclaims any and all warranty with respect to the availability, accuracy, correctness or update of maps.

About Maps

With Maps, you can see your current location on the map, browse maps for different cities and countries, search for addresses and different points of interest, plan routes from one location to another, and save locations as landmarks and send them to compatible devices. You can also purchase extra services, such as travel guides, traffic information, and navigation service with voice guidance. These services are not available in all countries or regions.

Some maps may be pre-loaded on the memory card in your device. You can download more maps through the internet using Nokia Maps Loader PC software. See Download maps p. 27.

To prevent automatic downloading of maps, for example, when you are away from your home network, select **Options** > **Settings** > **Never**.

Maps uses GPS. See Positioning p. 23. You can define the positioning methods used with your device. See Positioning settings p. 24. For the most accurate location information, use either the internal GPS or a compatible external GPS receiver.

Browse maps

Select **⌘** > **Maps**.

When you use **Maps** for the first time, you may need to define an internet access point for downloading map information for your current location. To change the default access point later, select **Options** > **Settings** > **Network** > **Default access point**.

To receive a note when your device registers to a network outside your home network, select **Options** > **Settings** > **Network** > **Roaming warning** > **On**. Contact your network service provider for details and roaming costs.

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.

When you open the **Maps** application, the capital city of the country you are in or the location that was saved from your last session is shown. The map of the location is also downloaded, if needed.

To zoom in or out, press ***** or **#**. To move on the map, use the scroll keys. A new map is automatically downloaded if you scroll to an area which is not covered by maps already downloaded. See Download maps p. 27. The maps are free of charge, but downloading may involve the transmission of large amounts of data through your service provider's network. For more information on data transmission charges, contact your service provider. The maps are automatically saved in the device memory or on a compatible memory card (if inserted).

To establish a GPS connection and zoom in to your last known location, press **0**, or select **Options** > **Find place** > **GPS position (0)**.

To view information about satellites while you are using **Maps**, select **Options** > **Map options** > **Satellite info**.

A GPS indicator shows the availability and strength of the satellite signal. One circle indicates one satellite. When the device tries to establish a GPS connection, the circles are yellow. When the device receives enough data from the satellite to establish a GPS connection, the circles turn green. Your device must receive

signals from at least four satellites to calculate the coordinates of your location. After the initial calculation, signals from three satellites may be enough.

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

Find a place

To view points of interest near your current location, or other locations on the map, select **Options** > *Find place* > *Nearby* and a category.

To search for a point of interest by name, select **Options** > *Find place* > *Keyword search* or start entering the first letters of the name, and select *Find*.

To search for a location by address, select **Options** > *Find place* > *Address*. You must enter the city and country. To use an address you have saved to a contact card in Contacts, select **Options** > *Find place* > *Address* > **Options** > *Select from contacts*.

To view a search result on the map, press the scroll key, and select *Show on map*. To return to the results list, select *Back*.

To view a list of your previous locations, select **Options** > *Find place* > *Recent*.

Save and send locations

To save a location as a landmark or as a landmark to a route, press the scroll key, and select *Save* > *As landmark* or *As image*.

To view saved landmarks, select **Options** > *Find place* > *Landmark*.

To send a landmark to a compatible device, select **Options** > *Send*. If you send the landmark in a text message, the information is converted to plain text.

Download maps

When you browse a map on the display, for example, move to another country, a new map is downloaded automatically. The data counter (kB) on the display shows the amount of network traffic when you browse maps, create routes, or search for locations online.

Downloading maps may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

To prevent automatic downloading of maps, for example, when you are outside your home network, select **Options** > *Settings* > *Network* > *Use network* > *Never*.

To define how much memory space you want to use for saving maps or voice guidance files, select [Options](#) > [Settings](#) > [Network](#) > [Max. memory card use](#). When the memory is full, the oldest map data is deleted. The saved maps data can be deleted using Nokia Map Loader PC software.

Nokia Map Loader

Nokia Map Loader is a PC software you can use to download and install maps and extra services from the internet to a compatible memory card. To install Nokia Map Loader to a compatible PC, see www.nokia.com/maps, and follow the instructions on the screen.

Plan a route

To plan a route (for example, from you home to your office), do the following:

1. Scroll to a point on the map, press the scroll key, and select [Route from](#).
2. Scroll to [From](#), and select [Options](#) > [Select](#), and the desired option. To adjust the routing settings, such as the mode of transportation, select [Options](#) > [Settings](#) > [Routing](#)
3. To select destination, scroll to [To](#), and select [Options](#) > [Select](#), and the desired option.
4. To view the route itinerary, select [Options](#) > [Show route](#). The route is calculated using the selected routing settings.

To view the itinerary route on the map, select [Options](#) > [Show on map](#).

To run a simulation of the route, select [Options](#) > [Start simulation](#).

Extra services for Maps

You can purchase a turn-by-turn navigation service with voice guidance, and guides, which provide information about attractions, hotels, restaurants and other points of interest.

Downloading maps may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

Navigation

To purchase a navigation service with voice guidance to use in Maps, select > [Options](#) > [Extra services](#) > [Add navigation](#). After purchasing the navigation upgrade, the service is available through Maps.

After creating a route in Maps, to start navigation to the desired destination with GPS using voice guidance, select **Options** > *Start navigation*. You can also start navigation by selecting any location on a map or in a results list, and *Navigate to*.

When you use navigation for the first time, you are prompted to select the language of the voice guidance and download the voice guidance files of the selected language. You can also download voice guidance files using Nokia Map Loader. To change the language later, in the Maps main view, select **Options** > *Settings* > *General* > *Voice guidance*, and a language, and download the voice guidance files for the selected language.

To discard the route and create another route, select **Options** > *Alternative route*.

To view only the next turns and hide the map, select **Options** > *Map options* > *Arrow mode*.

To stop navigation, select **Options** > *Stop navigation*.

Guides


The guides provide information about attractions, restaurants, hotels and other points of interest. To purchase and download guides, or to view downloaded ones, select **Options** > *Extra services* > *Guides*, and select from *All guides*, *Nearest guides* or *My guides*.


To browse guide categories, select a category. If there are subcategories, select a subcategory.

To download a new guide to your device, in Guides, scroll right to the Nearest guides or All guides tab, select the desired guide, and press **Yes**. You can pay for the guides using a credit card or in your phone bill if supported by your service provider.

To browse a downloaded guide on the My guides tab in Guides, select a guide and a subcategory (if available).

■ Landmarks

Select  > *Applications* > *Landmarks*. With landmarks you can save the position information of specific locations in your device. You can use your saved landmarks in compatible applications, such as GPS data and Maps.

To create a new landmark, select  > *Applications* > *Landmarks* > **Options** > *New landmark*. To make a positioning request for the coordinates of your location, select *Current position*. To select a position from the map, select *Select from map*. To enter the position information manually, select *Enter manually*.


To add a landmark to preset categories, select the landmark, and **Options** > *Add to category*. Select the categories to which you want to add the landmark.

To send one or several landmarks to a compatible device, select **Options** > *Send*. Your received landmarks are placed in Inbox in Messaging.

■ GPS data

GPS data is designed to provide route guidance information to a selected destination, position information about your location, and travelling information, such as the approximate distance and travel time to the destination.


Route guidance

Start the route guidance outdoors. Select  > *Applications* > *GPS data* > *Navigation*.


Route guidance shows the straightest route and the shortest distance to the destination, measured in a straight line. Any obstacles on the route, such as buildings and natural obstacles, are ignored. Differences in altitude are not taken into account when calculating the distance. Route guidance is active only when you move.

To set your trip destination, select **Options** > *Set destination* and a landmark as the destination, or enter the latitude and longitude coordinates. To clear the destination, select *Stop navigation*.

Position

To save your location as a landmark, select  > *Applications* > *GPS data* > *Position* > **Options** > *Save position*.

Trip meter



To activate trip distance calculation, select  > *Applications* > *GPS data* > *Trip distance* > **Options** > *Start*. To deactivate it, select **Options** > *Stop*. The calculated values remain on the display.

To set the trip distance and time and average and maximum speeds to zero, and to start a new calculation, select *Reset*. To set the odometer and total time to zero, select *Restart*.


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

5. Write text

■ Traditional and predictive text input

When you write text,  on the display indicates predictive text input and  traditional text input. To set the predictive text input on or off, press # repeatedly, or press *, and select *Activate predictive text* or *Predictive text > Off*.

Abc. abc. ABC or **123** next to the text input indicator indicates the character case or number mode. To change the character case, or to change between letter and number mode, press # repeatedly.

To change the writing language of your device, select  > *Settings > Phone sett. > General > Personalisation > Language > Writing language*. The writing language affects the characters available when writing text and the predictive text dictionary used. Not all characters available under a number key are printed on the key.

Write with traditional text input

Press a number key, 2 to 9, repeatedly until the desired character appears. Press the 1 key for the most common punctuation marks and special characters.

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

Write with predictive text input

1. Press a number key, 2–9, only once for one letter. The word changes after every keypress. For the most common punctuation marks, press 1.
2. When you have finished the word and it is correct, to confirm it, scroll forward or insert a space.

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

If the ? character is shown after the word, the word you intended to write is not in the dictionary. To add a word to the dictionary, select **Spell**. Enter the word (up to 32 letters), and select **OK**. The word is added to the dictionary.

When the dictionary becomes full, a new word replaces the oldest added word.

Common functions in traditional and predictive text input

To insert a number, press and hold the number key.

To enter punctuation marks and special characters, press and hold *.

To erase a character, press the clear key. To erase more characters, press and hold the clear key.

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

■ Copy and delete text

1. To select letters and words, press and hold **#**, and at the same time scroll left or right. To select lines of text, press and hold **#**, and at the same time scroll up or down.
2. To copy the text, press and hold **#**, and at the same time select **Copy**.
To delete the selected text, press the clear key.
3. To insert the text, scroll to the insertion point, press and hold **#**, and at the same time select **Paste**.

6. Messaging

Before you can receive or send messages or e-mail, you must have the necessary settings and access points defined. Contact your service provider for the settings.

■ Write and send messages

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

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.

1. Select **☰** > **Messaging** > **New message** and the message type. To create a text message or multimedia message, select **Message**. The message type changes automatically based on the content.
2. In the **To** field, enter the phone numbers or e-mail addresses of the recipients, or, to select recipients from **Contacts**, press the scroll key. Separate recipients with a semicolon (;).

3. To enter the subject for a multimedia, or e-mail message, scroll down to the *Subject* field. If the subject field is not visible for a multimedia message, select *Options* > *Message header fields*, mark *Subject*, and select *OK*.
4. Scroll down to the message field and enter the message content.

When you write a text message, the message length indicator shows how many characters you can enter in the message. For example, 10 (2) means that you can still add 10 characters for the text to be sent as a series of two text messages.

To insert an object, such as an image, video clip, note, or a business card, to a multimedia, or e-mail message, press the scroll key, and select *Insert content*.

To record a new sound clip for an audio message, select *Record*. To use a previously recorded sound clip, select *Options* > *Insert sound clip* > *From Gallery*.

5. To send the message, select *Options* > *Send*.

■ Inbox

Inbox contains received messages except e-mail and cell broadcast messages. To read received messages, select  > *Messaging* > *Inbox* and the message.

To view the list of media objects that are included in the multimedia message, open the message, and select *Options* > *Objects*.



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

Your device can receive many kinds of messages, such as operator logos, business cards, calendar entries, and ringing tones. You can save the special message content to your device. For example, to save a received calendar entry to the calendar, select *Options* > *Save to Calendar*.



Note: The picture message function can be used only if it is supported by your service provider. Only compatible devices that offer picture message features can receive and display picture messages. The appearance of a message may vary depending on the receiving device.

■ Service messages

Service messages (network service) are notifications that may contain a text message or the address of a browser service.

To define whether service messages are enabled and whether the messages are downloaded automatically, select **⋮** > *Messaging* > *Options* > *Settings* > *Service message*.

■ E-mail

When you create a new mailbox, the name you give to the mailbox replaces *New mailbox*. You can have up to six mailboxes.

IMAP4 and POP3 mailboxes

Select **⋮** > *Messaging* and the mailbox. *Connect to mailbox?* is displayed. To connect to your mailbox (network service), select *Yes*, or to view previously retrieved e-mail messages offline, select *No*.


To connect to the mailbox afterwards, select *Options* > *Connect*. When you are online, to end the data connection to the remote mailbox, select *Options* > *Disconnect*.

Retrieve and read e-mail messages



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

1. Select *Options* > *Retrieve e-mail* and whether you want to retrieve new, selected, or all messages.
2. To open an e-mail message, select it.

To view e-mail attachments, indicated with , select *Options* > *Attachments*. You can retrieve, open, or save attachments in supported formats.

Delete e-mail messages

To delete an e-mail message from the device and retain it in the remote mailbox, select *Options* > *Delete* > *Phone only*. To delete an e-mail from both the device and the remote mailbox, select *Options* > *Delete* > *Phone and server*.

To cancel deletion of an e-mail from both the device and server, scroll to an e-mail that has been marked to be deleted during the next connection, and select *Options* > *Restore*.


Sync mailboxes

Select **⋮** > *Messaging* and the sync mailbox.

To synchronise your device with the remote mailbox, select *Options* > *Synchronisation* > *Start*.

To view received messages, select *Inbox* and the message.


■ Outbox

The outbox folder is a temporary storage place for messages that are waiting to be sent. To access the outbox folder, select  > *Messaging* > *Outbox*.

To retry sending a message, scroll to the message and select *Options* > *Send*.

To postpone sending a message, scroll to a message, and select *Options* > *Defer sending*.

■ View messages on the SIM card


Before you can view SIM messages, you need to copy them to a folder in your device. Select  > *Messaging* > *Options* > *SIM messages*, mark the messages you want to copy, and select *Options* > *Copy* and the folder to which you want to copy the messages.

■ Cell broadcast

Check with your service provider whether cell broadcast (network service) is available and what the available topics and related topic numbers are.


Select  > *Messaging* > *Options* > *Cell broadcast*. To activate the service, select *Options* > *Settings* > *Reception* > *On*.

■ Service commands


To enter and send service commands (also known as USSD commands) such as activation commands for network services to your service provider, select  > *Messaging* > *Options* > *Service command*. To send the command, select *Options* > *Send*.

■ Messaging settings

Text message settings

To define text message settings, such as the message centre and character encoding used, select  > *Messaging* > *Options* > *Settings* > *Text message*.

Multimedia messaging settings

To define multimedia message settings, such as which access point is used and whether multimedia messages are retrieved automatically, select  > *Messaging* > *Options* > *Settings* > *Multimedia message*.

E-mail settings

Select  > *Messaging* > *Options* > *Settings* > *E-mail* > *Mailboxes*, the mailbox and from the following:


Connection settings – to define the connection settings, such as the servers and protocol used

User settings – to define user settings such as when messages are sent and whether to include a signature

Retrieval settings – to define retrieval settings such as which parts of the messages are retrieved and how many messages are retrieved


Automatic retrieval – to define settings for retrieving messages automatically at set intervals or when an e-mail notification is received from the server

Other settings

To define whether a specified number of sent messages are saved to the Sent folder and whether to store the messages in the device memory or memory card, select  > *Messaging* > *Options* > *Settings* > *Other*.

7. Contacts

■ Save and manage contact information

To save and manage contact information, such as names, phone numbers, and addresses, select  > *Contacts*.

To add a new contact, select *Options* > *New contact*. Fill in the fields you want, and select *Done*.

To set your device to show contacts in the device memory and in the SIM card in the list of contacts, select *Options* > *Settings* > *Contacts to display*, and mark *Phone memory* and *SIM memory*.

To copy names and numbers from a SIM card to your device or vice versa, scroll to the contact (or mark the desired contacts), and select *Options* > *Copy* > *Phone memory* or *SIM memory*.

To view information about the memory consumption of contacts, select *Options* > *Contacts info*.

To view the list of fixed dialling numbers, select *Options* > *SIM numbers* > *Fixed dial contacts*. This setting is only shown if supported by your SIM card.

When fixed dialling is activated, calls may be possible to the official emergency number programmed into your device.

To assign default numbers and addresses to a contact, select it, and select **Options** > **Defaults**. Scroll to the desired default option, and select **Assign**.

■ Contact groups

To create a contact group so that you can send text or e-mail messages to several recipients at the same time, select **☰** > **Contacts**. Scroll right, and select **Options** > **New group**. Enter a name for the group, and open the group. Select **Options** > **Add members**. Mark the contacts you want to add to the group, and select **OK**.

■ Add a ringing tone

You can set a ringing tone or a video ringing tone for each contact and group. To add a ringing tone to a contact, select **☰** > **Contacts**, and open the contact. Select **Options** > **Ringing tone** and the ringing tone. To add a ringing tone to a group, scroll right to the groups list, and scroll to a contact group. Select **Options** > **Ringing tone** and the ringing tone for the group.

To remove the personal or group ringing tone, select **Default tone** as the ringing tone.

8. Gallery

■ Main view

To save and organise your images, videos, music tracks, sound clips, playlists, streaming links, .ram files, and presentations, select **☰** > **Gallery**.

HUOM HUOM!! Access to content and downloads ---- To select an icon... MY FAVES


To copy or move files to device memory or to the memory card, select the folder (such as **Images**), scroll to the file (or press **#** to mark more files), and select **Options** > **Organise** and the memory to where you want to copy or move the files.

To create new image and video folders, select **Images** or **Video clips** > **Options** > **Organise** > **New folder** and the memory. Enter a name for the folder. To move images and videos to a folder you created, mark the files, and select **Options** > **Organise** > **Move to folder** and the folder.

To set an image as the wallpaper or to be shown during a call, select *Images*, and scroll to the image. Select *Options* > *Use image* > *Set as wallpaper*, *Set as cover wallpaper* or *Set as call image*. To assign the image to a contact, select *Assign to contact*.

To set a video as a video ringing tone, select *Video clips*, and scroll to the video. Select *Options* > *Use video* > *As ringing tone*. To assign the video for a contact, select *Assign to contact*.

■ Download files

To download images or videos, select  > *Gallery* > *Images* or *Video clips* and the image icon (*Download images*) or the video icon (*Download videos*). The browser opens. Choose a bookmark for the site to download from.

■ Edit images

To edit images in *Gallery*, scroll to the image, and select *Options* > *Edit*.

Shortcuts in the image editor:

- To view an image in the full screen, and to return to the normal view, press *.
- To rotate an image clockwise or counterclockwise, press 3 or 1.
- To zoom in or out, press 5 or 0.
- To move on a zoomed image, scroll up, down, left, or right.

To crop or rotate the image; adjust the brightness, colour, contrast, and resolution; and add effects, text, clip art, or a frame to the picture, select *Options* > *Apply effect*

■ Edit video clips

To edit videos in *Gallery* and create custom video clips, scroll to a video clip, and select *Options* > *Video editor* > *Options* > *Edit video clip*.

In the video editor you can see two timelines: video clip timeline and sound clip timeline. The images, text, and transitions added to a video are shown on the video clip timeline. To switch between the timelines, scroll up or down.

■ Print images

You can use the device with a PictBridge-compatible printer using USB cable.

To print images in *Gallery*, scroll to the image, and select *Options* > *Print*.



9. Camera

Your device has a camera to capture images and record videos.

The camera in your device supports an image capture resolutions of 480x640, 864x1152 and 1200x1600 pixels. The image resolution in this guide may appear different.

You can send images and video clips in a multimedia message, as an e-mail attachment, or by using Bluetooth connectivity.

■ Capture images

1. To activate the camera, open the fold and press the camera key, or select  > APPLICATIONS > CAMERA.  indicates still image mode.
2. The viewfinder shows you the image to be captured. To zoom in or out, press the scroll key up or down.

To make lighting and colour adjustments before capturing an image, select from the active toolbar settings. See *Active toolbar* p. 39 and *Scenes* p. 41.

You can lock the focus on an object by pressing the capture key halfway down. If the focus was not locked, the red focus indicator appears. Release the capture key, and press it halfway down again.



3. To capture an image, select CAPTURE or press the camera key.
4. To close the camera, press EXIT.


Active toolbar


The active toolbar provides you with shortcuts to different items and settings before and after capturing an image or recording a video. Scroll to icons, and select them by pressing the scroll key.

If you want the active toolbar to be visible before and after capturing an image or recording a video, select **Options** > *SHOW TOOLBAR*. To hide the active toolbar, scroll right in the toolbar, and select IKONI X


In the active toolbar, select from the following:


 *Switch to video mode* ( *Switch to image mode*) – to switch between the video and image modes

 *Scene modes* – to select the scene

 *Flash mode* – to select the flash mode (images only)

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.

 **Self timer** – to activate the self-timer (main camera only). Select the self-timer delay, and to activate the self-timer, select **Activate**.

 **Sequence mode** – to activate the sequence mode (images only). See Capture images in a sequence p. 40.

To customise the toolbar, select **Options > Customise toolbar**. You can remove an item from the toolbar, or change, add, or move items.

The available options vary depending on the capture mode and view you are in.

The setup settings return to the default settings when you close the camera.

If you select a new scene, the colour and lighting settings are replaced by the selected scene. See Scenes p. *** 'Scenes' on page 41 ***. You can change the setup settings after selecting a scene if needed.

After capturing an image

After you capture an image, select the following from the active toolbar (available only if **Show captured image** is set to **On** in still image camera settings):

- To send the image, press the call key, or select **OPTIONS > Send**. This option is not available during an active call. To send the image to a call recipient during an active call, select **Send to caller**.
- If you do not want to keep the image, press the Clear key.
- To use the image as wallpaper in the active standby mode, select **Options > Set as wallpaper**.
- To set the image as a call image for a contact, select **Options > Set as contact call img..**

Capture images in a sequence

You can set the camera to capture six images or more in a sequence. To capture six images, in the active toolbar, select **Sequence mode > Burst**. To capture the images, press the camera key. To capture more than six images, press and hold the camera key. The number of images captured depends on the available memory.

To use a time interval between capturing images, select **Sequence mode** and a time interval. To start capturing images, press the camera key. To stop capturing images before the time ends, press the camera key again.

After you capture the images, they are shown in a grid on the display. To view an image, press the scroll key to open it.

You can also use the sequence mode up to capture six images using the self-timer.

To return to the sequence mode viewfinder, press the camera key.

To switch off the sequence mode, in the active toolbar, select [Sequence mode](#) > [Single shot](#).

Scenes

A scene helps you to find the right colour and lighting settings for the environment. The settings of each scene have been set according to a certain style or environment. Scenes are only available in the main camera.

Select the image or video mode, and in the active toolbar, select [Scene modes](#) and a scene available for the image or video mode.

To make your own scene suitable for a certain environment, scroll to [User defined](#), and select [Options](#) > [Change](#). To copy the settings of another scene, select [Based on scene mode](#) and the desired scene.

Standby mode

To save the device battery, the camera goes to the standby mode if no keys are pressed for one minute. To continue capturing images or recording videos, select CONTINUE.

■ Record videos

1. To activate camera, open the fold, and press the camera key, or select MENU > APPLICATIONS > CAMERA. To change to video mode, select OPTIONS > VIDEO MODE.
2. Press the camera key to start recording. ● is shown and a tone sounds, indicating that recording has started.
To zoom in or out of the subject using the camera, press the scroll key up or down.
3. To stop recording, select [Stop](#). The video clip is automatically saved to the Video clips folder in Gallery. See Gallery p. *** 'Gallery' on page 37 ***. The maximum length of the video clip depends on the available memory.

To pause recording at any time, select [Pause](#). Video recording automatically stops if recording is set to pause and there are no keypresses within a minute. Select [Continue](#) to resume recording.

To make lighting and colour adjustments before recording a video, select from the active toolbar settings. See Active toolbar p. 39 and Scenes p. 41.

After recording a video

After you record a video clip, select the following from the active toolbar (available only if *Show captured video* is set to *On*. See Video settings p. 42):

- To immediately play the video clip you just recorded, select *OPTIONS > Play*.
- To send the video clip using a multimedia message, e-mail, or Bluetooth connectivity, press the call key, or select *OPTIONS > Send*. This option is not available during an active call. You may not be able to send video clips saved in the MP4 file format in a multimedia message. You can also send the video clip to a call recipient during an active call. Select *Send to caller*.
- If you do not want to keep the video, press the Clear key.

■ Camera settings

There are two kinds of settings for the still image camera: active toolbar settings and main settings. To use active toolbar settings, see Active toolbar p. 39. The active toolbar settings return to the default settings after you close the camera, but the main settings remain the same until you change them again.

Still image camera settings

To change the main settings in image mode, select *Options > Settings > IMAGE*

To set the quality of the image, select IMAGE QUALITY. The better the quality, the more memory the image uses, and the fewer images you can save in your device or memory card.

To select whether to see the captured image after it is captured or to continue taking pictures immediately, select *Show captured image*.

To set the image resolution, select IMAGE RESOLUTION.

To set the default name for new images, select DEFAULT IMAGE NAME.

Video settings

To change the main settings in video mode, select *Options > Settings > VIDEO*

To set the length of the video clip, select LENGTH. To send the video in a multimedia message, select SHORT.

To set the video resolution, select VIDEO RESOLUTION.

To set the default name for new videos, select DEFAULT VIDEO NAME.

To select where you want to save your videos, select MEMORY IN USE.

10. Media

■ Music player



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

Select  > *Music player*.

You can listen to music also when the Offline profile is activated. See Offline profile p. 14.

For more information about copyright protection, see Licences p. 56.

Listen to music

1. Select  > *Music player* > *Music*.

2. Select the category, such as *All songs*, and a song to listen to.

3. To play the selected file, press the scroll key.

To pause, press the scroll key; to resume the playback, press the scroll key again.

4. To stop the playback, scroll down.

To fast forward or rewind, press and hold the scroll key right or left.

To skip forward, scroll right. To return to the beginning of the song, scroll left.

To skip to the previous song, scroll left again within 2 seconds after a song has started.

To adjust the volume, use the volume key.

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

To modify the balance, loudness or stereo widening, select *Options* > *Audio settings*.

To return to the standby mode and leave the player in the background, press the end key. In Active standby, the currently playing song is displayed. To return to the music player, select the currently playing song.

Music menu

Select **⌘** > *Music player* > *Music MENU*. The music menu shows the available music. To view all songs, sorted songs, or playlists, select the desired list in the music menu.

Playlists

Select **⌘** > *Music player* > *Music MENU* > *Playlists*. To view details of the playlist, select **Options** > *Playlist details*.

Create a playlist

1. Select **Options** > *Create playlist*.
2. Enter a name for the playlist, and select **OK**.
3. To add songs now, select **Yes**. To add songs later, select **No**.
4. Select artists to find the songs you want to include in the playlist. To add a song, press the scroll key .
5. When you have made your selections, select **Done**. If a compatible memory card is inserted, the playlist is saved to the memory card.

To add more songs later, when viewing the playlist, select **Options** > *Add songs*.

To refresh the library after you have updated the song selection in your device, open *Music player*, and select **Options** > *Refresh*.

Nokia Music Store

In the Nokia Music Store (network service) you can search, browse, and purchase music for downloading to your device. To purchase music, you first need to register for the service. To check the Nokia Music Store availability in your country, visit www.music.nokia.com.

To access the Nokia Music Store, you must have a valid

access point in your device. To open Nokia Music Store, select **⌘** > *Applications* > *Music store*; or select **⌘** > *Music player* > *Music* > **Options** > *Go to Music shop*.

Transfer music

You can buy music protected with WMDRM from online music shops and transfer the music to your device.

To refresh the library after you have updated the song selection in your device, select **⌘** > *Music player* > *Music* > **Options** > *Refresh*.

Transfer music from PC

To synchronise music with Windows Media Player, connect the compatible USB cable and select *Media transfer* as the connection mode. You can transfer WMDRM protected music files only using Media transfer. A compatible memory card needs to be inserted in the device.

To use Nokia Music Manager in Nokia PC Suite, see the Nokia PC Suite user guide.

■ FM Radio

To open the radio, select  > *Applications* > *Radio*. To turn the radio off, select *Exit*.

To check availability and costs of the visual service and station directory services, contact your service provider.

Radio cannot be started when the device is in the offline mode.

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



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

Tune and save a radio station

To start the station search when the radio is on, scroll up or down. To save the station when a station is found, select *Options* > *Save station*. Select a location for the station, enter the name for it, and select *OK*.

To view the list of saved stations, select *Options* > *Stations*. To change the settings of a station, select the station and *Edit*.

Radio functions

To adjust the volume, press the volume keys.

If there are any saved stations, scroll right or left to the next or previous stations.

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

To listen to the radio in the background and go to the standby mode, select *Options* > *Play in background*.


View visual content

To check availability and costs, and to subscribe to the service, contact your service provider.

To view visual content of the current station, select **Options** > *Start visual service*. Select from the station directory the location nearest to you. If your device asks for the visual service ID, to find the ID in the station directory (network service), select **Retrieve**, or enter the ID manually and select **OK**.

To end the visual content feed but continue listening to the radio, select **Close**.


Station directory

To access the station directory (network service), select **Options** > *Station directory* and your location. Radio stations that provide visual content are indicated with . To listen to or save a station, scroll to it, and select **Options** > *Listen* or *Save*.

■ RealPlayer

With RealPlayer, you can play media files such as video clips saved in the device memory or memory card, or stream media files over the air by opening a streaming link. RealPlayer does not support all file formats or all the variations of file formats.


Select  > *Applications* > *RealPlayer*. To play, select *Video clips*, *Streaming links*, or *Recently played* and a media file or streaming link.

To stream live content, you must first configure your default access point. Select  > *Applications* > *RealPlayer* > **Options** > *Settings* > *Streaming* > *Network*. Contact your service provider for more information.






Warning: Do not hold the device near your ear when the loudspeaker is in use, because the volume may be extremely loud.

■ Flash Player

To view, play, and interact with flash files made for mobile devices, select  > *Applications* > *Flash Player*. To open a folder or play a flash file, select it.


■ Recorder

With voice recorder, you can record voice call conversations and voice memos. If you record a phone conversation, all parties hear a beeping sound during recording.

Select  > [Applications](#) > [Recorder](#). To record a sound clip, select [Options](#) > [Record sound clip](#), or select . To listen to the recording, select . Recorded files are saved in the Sound clips folder in Gallery.

11. Internet

■ Browse the web

To browse web pages, select  > [web'n'walk](#), or press and hold 0 in the standby mode.

Check the availability of services, pricing, and tariffs with your service provider.




Important: Use only services that you trust and that offer adequate security and protection against harmful software.

To access web pages, do one of the following:

- Select a bookmark from the bookmarks view.
- In the bookmarks view, enter the address of the web page, and select [Go to](#).
- In the bookmarks view, select [Options](#) > [Go to w'n'w address](#) and enter the address of the web page.


Bookmarks

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.

The starting page is indicated with .

To add a bookmark manually, in the bookmarks view, select [Options](#) > [Bookmark manager](#) > [Add bookmark](#), fill in the fields, and select [Options](#) > [Save](#).

Connection security

If the security indicator  is displayed during a connection, the data transmission between the device and the internet gateway or server is encrypted.

The security icon does not indicate that the data transmission between the gateway and the content server (or place where the requested resource is stored) is secure. The service provider secures the data transmission between the gateway and the content server.

To view details about the connection, encryption status, and information about server authentication, select [Options](#) > [Tools](#) > [Page info](#).

Keys and commands for browsing

To open a link, make selections, or check boxes, press the scroll key.

To go to the previous page while browsing, select **Back**. If **Back** is not available, select **Options** > *Navigation options* > *History* to view a chronological list of the pages visited during a browsing session. To choose the desired page, scroll left or right, and select it. The history list is cleared each time a session is closed.

To save a bookmark while browsing, select **Options** > *Save as bookmark*.

To retrieve the latest content from the server, select **Options** > *Navigation options* > *Reload*.

To open the browser toolbar, scroll to an empty part of the page, and press and hold the scroll key.

To end the connection and view the browser page offline, select **Options** > *Tools* > *Disconnect*. To stop browsing, select **Options** > *Exit*.

Keypad shortcuts while browsing

1 – Open your bookmarks.

2 – Search for keywords in the current page.

3 – Return to the previous page.

5 – List all open windows.

8 – Show the page overview of the current page. Press 8 again to zoom in and view the desired section of the page.

9 – Enter a new web address.

0 – Go to the start page.

* or # – Zoom the page in or out.

Mini map

Mini map helps you navigate web pages that contain large amount of information. When Mini map is on in browser settings and you scroll through a large web page, Mini map opens and displays an overview of the web page you are browsing. To move in Mini map, scroll. When you stop scrolling, Mini map disappears and the area outlined in Mini map is displayed.

Page overview

With page overview,, you can move more quickly to the desired part of a web page. Page overview may not be available on all pages.

To show the page overview of the current page, press **8**. To find the desired spot on the page, scroll up or down. Press **8** again to zoom in and view the desired section of the page.

web'n'walk feeds

Web feeds are widely used to share the latest headlines or recent news.

The browser automatically detects if a web page contains web feeds. To subscribe to a web feed, select **Options** > *Subscribe to web'n'walk feed* and a feed, or click on the link. To view the web feeds you have subscribed to, in the bookmarks view, select *web'n'walk feeds*.

To update a web feed, select it, and **Options** > *Refresh*.

To define how the web feeds are updated, select **Options** > *Settings* > *web'n'walk feeds*.

Saved pages

To save a page while browsing to be able to view it offline, select **Options** > *Tools* > *Save page*.

To view saved pages, in the bookmarks view, select *Saved pages*. To open a page, select it.

Clear privacy data

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. The information or services you have accessed are stored in the cache. To empty the cache, select **Options** > *Clear privacy data* > *Cache*.

To clear all privacy data, select **Options** > *Clear privacy data* > *All*.

■ Mobile Search


Use Mobile Search to get access to search engines, and find and connect to local services, websites, images, and mobile content (network service). For example, you can use the application to find local restaurants and shops. You can also search for data in your device and memory card.

Select  > *Internet* > *Search*.

12. Personalisation

■ Themes

To change the look of your device display, activate a theme.

Select  > [Settings](#) > [Themes](#). To see a list of the available themes, select [General](#). The active theme is indicated by a check mark.

To preview a theme, scroll to the theme, and select [Options](#) > [Preview](#). To activate the previewed theme, select [Set](#).

In Themes, you can also set the menu view type, set a theme for the standby mode, set a custom wallpaper, personalise the look of the power saver, and select an image shown during a call.

■ Profiles

In Profiles, you can adjust and personalise the device tones for different events, environments, or caller groups. You can see the selected profile at the top of the display in the standby mode. If the [General](#) profile is in use, only the current date is shown.

Select  > [Settings](#) > [Profiles](#).

To activate the profile, select the profile and [Activate](#).



Tip: To quickly change to Silent profile from any other profile, in the standby mode, press and hold #.


To personalise a profile, select the profile, [Personalise](#), and the desired settings.

To set the profile to be active until a certain time within the next 24 hours, select [Timed](#) and the time.

See also Offline profile p. *** 'Offline profile' on page 14 ***.

13. Time management

■ Clock

Select  > [Office](#) > [Clock](#). To change the clock settings, and to set the time and date, select [Options](#) > [Settings](#).

To set the device to show the time in other locations, scroll right to [World clock](#). To add a location, select [Options](#) > [Add location](#).


To set your current location, scroll to a location, and select **Options** > **Set as current location**. The location is displayed in the clock main view, and the time in your device is changed according to the location selected. Check that the time is correct and matches your time zone.

Alarm clock

To set a new alarm, scroll right to **Alarms**, and select **Options** > **New alarm**. Enter the alarm time, select whether and when the alarm is repeated, and select **Done**.

If the alarm time is reached while the device is switched off, the device switches itself on and starts sounding the alarm tone. If you select **Stop**, the device asks whether you want to activate the device for calls. Select **No** to switch off the device or **Yes** to make and receive calls. Do not select **Yes** when wireless phone use may cause interference or danger.

Calendar

Select  > **Office** > **Calendar**. Press # in month, week, or day views to automatically high the current date.

To add a new calendar entry, select **Options** > **New entry** and an entry type. **Anniversary** entries are repeated every year. **To-do** entries help you to keep a list of tasks that you need to do. Fill in the fields, and select **Done**.

14. Office applications


Notes

Notes allows you to create, edit, and view notes. You can send notes to others.

Select  > **Office** > **Notes**.

To create a note, start writing.


Calculator

Select  > **Office** > **Calculator**. To add a decimal, when entering numbers, press #.



Note: This calculator has limited accuracy and is designed for simple calculations.

Converter

Select  > **Office** > **Converter**. You can convert measurements, such as length, from one unit to another, for example, yards to metres.

The converter has limited accuracy and rounding errors may occur.

Before you can convert currency, you need to choose a base currency (usually your domestic currency) and add exchange rates. The rate of the base currency is always 1. Select *Currency* as the measurement type, and select **Options** > *Currency rates*. To change the base currency, scroll to the currency, and select **Options** > *Set as base currency*. To add exchange rates, scroll to the currency, and enter a new rate.


After you insert all the required exchange rates, you can convert currency. In the first amount field, enter the value to be converted. The other amount field changes automatically.



Note: When you change base currency, you must enter new exchange rates because all previously set exchange rates are cleared.

15. Settings

■ Voice commands


To select the functions to use by voice command, select  > *Settings* > *Voice comm.*. The voice commands for changing profiles are in the Profiles folder.

To change the voice command for an application, select **Options** > *Change command* and the application. To play the activated voice command, select **Options** > *Playback*.

To use voice commands, see Voice dialling p. 20.

■ Phone settings

General

Select  > *Settings* > *Phone sett.* > *General* and from the following:

Personalisation – to adjust the display, standby mode, tones (such as ringing tone), language, themes, and voice command setting.

Date and time – to set the time and date and the display format

Enhancement – to change the settings for an enhancement. Select an enhancement and the desired setting.

Media key – to change a shortcut for the navigation key. See Standby mode p. 14.

Security – to change the device and SIM card settings, such as PIN and lock codes; view certificate details and check authenticity; and view and edit security modules

When security features that restrict calls are in use (such as call barring, closed user group, and fixed dialing), calls may be possible to the official emergency number programmed into your device.

Factory settings – to reset some of the settings to their original values. You need the lock code.

Positioning (network service) – to change positioning settings. See Positioning settings p. 24.

Phone

See Call settings p. 21.

Connection

Select  > *Settings* > *Phone sett.* > *Connection* and from the following:

Bluetooth – to switch Bluetooth technology on or off, and edit Bluetooth settings. See Bluetooth connection settings p. 59.

USB – to edit USB settings. See USB connection p. 61.

Destinations – to define the connection methods used for reaching a particular destination

Packet data – to select the packet data connection settings. The packet data setting affect all access points using a packet data connection.

- To set the device to register to the packet data network when you are in a network that supports packet data, select *Packet data connection* > *When available*. If you select *When needed*, the device uses a packet data connection only if you start an application or function that needs it.
- To use your device as a modem with your computer, select *Access point* to set the access point name.
- To enable the use of HSDPA (network service) in UMTS networks, select *High speed packet access*. When HSDPA support is activated, downloading data such as messages, e-mail, and browser pages through the cellular network may be faster.

Data call – to set the online time for the data call connection. The data call settings affect all access points that use a GSM data call.


SIP settings – to view and edit session initiation protocol (SIP) profiles.

Configurations – to view and delete configuration contexts. Certain functions, such as web browsing and multimedia messaging, may require configuration

settings. You may receive the settings from your service provider. See Configuration settings p. 11.

APN control – to restrict the use of packet data access points. This setting is only available if your SIM card supports the service. To change the settings, you need the PIN2 code.

Applications

To view and edit settings of applications installed to your device, select  > *Settings* > *Phone sett.* > *Applications*.

16. Data management

■ Install or remove applications

You can install two types of applications to your device:

- J2ME™ applications based on Java™ technology with the extension .jad or .jar. PersonalJava™ applications cannot be installed on your device.
- Other applications and software suitable for the Symbian operating system. The installation files have the .sis or .sisx extension. Only install software specifically designed for your device.



Important: Only install and use applications and other software from trusted sources, such as applications that are Symbian Signed or have passed the Java Verified™ testing.

Installation files may be transferred to your device from a compatible computer, downloaded during browsing, or sent to you in a multimedia message, as an e-mail attachment or by using Bluetooth technology. You can use Nokia Application Installer in Nokia PC Suite to install an application to your device or a memory card.


To find installed applications, select  > *Applications* > *My own*.

To open Application manager, select  > *Settings* > *Data mgr.* > *App. mgr.*

Install an application

The .jar file is required for installing Java applications. If it is missing, the device may ask you to download it.

To install an application or software package:

1. Select *Installation files*, and scroll to an installation file. Applications on the memory card are indicated with .
2. Select *Options* > *Install*.

Alternatively, search the device memory or the memory card, select the application, and press the scroll key to start the installation.

During the installation, the device shows information about the progress of the installation. If you are installing an application without a digital signature or certification, the device displays a warning. Continue installation only if you are sure of the origins and contents of the application.


Java applications may attempt to, for example, establish a data connection or send a message. To edit the permissions of an installed Java application and define which access point the application will use, select *Installed apps.*, scroll to the application, and select *Open*.

After you install applications to a compatible memory card, installation files (.sis) remain in the device memory. The files may use large amounts of memory and prevent you from storing other files. To maintain sufficient memory, use Nokia PC Suite to back up installation files to a compatible PC, then use the file manager to remove the installation files from the device memory. See File manager p. 55. If the .sis file is a message attachment, delete the message from the Messaging inbox.

Remove an application

In the Application manager main view, select *Installed apps.*, scroll to the software package, and select *Options* > *Remove*.

File manager

To browse, open, and manage files and folders in the device memory or on a memory card, select  > *Settings* > *Data mgr.* > *File mgr.*

Back up and restore device memory

To back up information from device memory to the memory card or restore information from the memory card, in *File manager*, select *Options* > *Back up phone memory* or *Restore from mem. card*. You can only back up the device memory and restore it to the same device.

Format a memory card

When a memory card is formatted, all data on the card is permanently lost. Some memory cards are supplied preformatted and others require formatting.

1. In the File manager view, select the memory card.

2. Select [Options](#) > [Memory card options](#) > [Format](#).
3. When formatting is complete, enter a name for the memory card.

Lock or unlock a memory card

To set a password to help prevent unauthorised use, in the File manager view, select the memory card and [Options](#) > [Memory card password](#) > [Set](#). You are asked to enter and confirm your password. The password can be up to eight characters long.

If you insert another password-protected memory card into your device, you are prompted to enter the password of the card. To unlock the card, select [Options](#) > [Unlock memory card](#).

■ Licences

Digital rights management


Content owners may use different types of digital rights management (DRM) technologies to protect their intellectual property, including copyrights. This device uses various types of DRM software to access DRM-protected content. With this device you can access content protected with WMDRM, OMA DRM 1.0, and OMA DRM 2.0. If certain DRM software fails to protect the content, content owners may ask that such DRM software's ability to access new DRM-protected content be revoked. Revocation may also prevent renewal of such DRM-protected content already in your device. Revocation of such DRM software does not affect the use of content protected with other types of DRM or the use of non-DRM-protected content.


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

If your device has OMA DRM-protected content, to back up both the activation keys and the content, use the backup feature of Nokia PC Suite. Other transfer methods may not transfer the activation keys 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 activation keys in case the files on your device get corrupted.

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

Some activation keys 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.

To view the licences saved in your device, select  > [Settings](#) > [Data mgr.](#) > [Licences](#).


To view valid licences that are connected to one or more media files, select [Valid licences](#). Group licences, which contain several licences, are indicated with . To view the licences contained in the group licence, select the group licence.

To view invalid licences for which the time period for using the file has exceeded, select [Invalid licences](#). To buy more usage time or extend the usage period for a media file, select an invalid licence and [Options > Get new licence](#). It may not be possible to update licences if service message reception is disabled.

To view licences that are not in use, select [Not in use](#). Unused licenses have no media files connected to them.

To view detailed information such as the validity status and the ability to send the file, scroll to a licence, and select it.

■ Device manager

With Device manager, you can connect to a server and receive configuration settings to your device, create new server profiles, or view and manage existing server profiles. You may receive configuration settings from your service provider or company information management department. To open the device manager, select  > [Settings](#) > [Data mgr.](#) > [Device mgr.](#)

Update software

The current software version is displayed in the [Updates](#) view.



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 through your service provider's network. Contact your service provider for information about data transmission charges.

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

1. In the [Updates](#) view, select [Options > Check for updates](#).

If an update is available, the device starts downloading it.

2. After a successful download, to install the update, select [Now](#). To start the installation later, select [Later](#).

To start the installation process later, select [Options > Install update](#).

If no server profile has been defined, the device asks you to create one, or if there are several, to select from a list of servers.

Contact your service provider for server profile settings.

Configure your device

You may receive configuration settings from your service provider or company information management department.

To connect to a server and receive configuration settings for your device, scroll right to *Profiles*, scroll to the server profile, and select **Options** > *Start configuration*.

To edit a server profile, scroll to the profile, and select **Options** > *Edit profile*.

Contact your service provider or company information management department for the server profile settings.

17. Connectivity

■ Data transfer

With data transfer you can copy or synchronise contacts, calendar entries, and possibly other data, such as video clips and images, from a compatible device using a Bluetooth connection.

Depending on the other device, synchronisation may not be possible and data can be copied only once.

To transfer or synchronise data, do the following:

1. Select **☰** > *Settings* > *Connectivity* > *Switch*. If you have not used Switch before, information about the application is displayed. To start transferring data, select **Continue**.

If you have used Switch, select *Transfer data*.

2. When using Bluetooth technology, the devices need to be paired in order to transfer data.

Depending on the type of the other device, an application may be sent and installed on the other device to enable the data transfer. Follow the instructions.

3. Select what content you want to be transferred to your device.

4. Content is transferred to your device. The transfer time depends on the amount of data. You can stop the transfer and continue later.

■ PC Suite

With PC Suite you can synchronise contacts, calendar entries, and between your device and a compatible PC.

You may find more information about PC Suite and the download link in the support area on the Nokia website, www.nokia.com/pcsuite.

■ Bluetooth connectivity

Bluetooth wireless technology enables wireless connections between electronic devices within a maximum range of 10 metres (33 feet).

This device is compliant with Bluetooth Specification 2.0 supporting the following profiles: Advanced Audio Distribution, Audio/Video Remote Control, Basic Imaging, Device Identification, Dial Up Networking, File Transfer, Hands free, Headset, Object Push, Serial Port, SIM Access, Phonebook Access, Generic Audio/Video Distribution, Generic Access, and Generic Object Exchange. To ensure interoperability between other devices supporting Bluetooth technology, use Nokia approved enhancements for this model. Check with the manufacturers of other devices to determine their compatibility with this device.

There may be restrictions on using Bluetooth technology in some locations. Check with your local authorities or service provider.

Features using Bluetooth technology, or allowing such features to run in the background while using other features, increase the demand on battery power and reduce the battery life.

Do not accept Bluetooth connections from sources you do not trust.

A Bluetooth connection is disconnected automatically after sending or receiving data.

Bluetooth connection settings

Select  > [Settings](#) > [Connectivity](#) > [Bluetooth](#).

[Bluetooth](#) – to switch Bluetooth connectivity on or off


[My phone's visibility](#) > [Shown to all](#) – to allow your device to be found by other devices with Bluetooth connectivity at all times. To allow your device to be found for a defined time period, select [Define period](#). For security reasons it is advisable to use the [Hidden](#) setting whenever possible.

[My phone's name](#) – to define a name for your device

Remote SIM mode > *On* – to enable another device, for example a car kit, to use the SIM card of your device by another device by using Bluetooth technology (SIM access profile)

When the wireless device is in the remote SIM mode, you can only use a compatible connected enhancement, such as a car kit, to make or receive calls. Your wireless device will not make any calls, except to the emergency numbers programmed into your device, while in this mode. To make calls from your device, you must first leave the remote SIM mode. If the device has been locked, enter the lock code to unlock it first.

Send data

1. Open the application where the item you want to send is saved.
2. Scroll to the item you want to send, and select **Options** > **Send** > **Via Bluetooth**.
3. The device starts to search for devices within range. Paired devices are shown with . Some devices may show only the unique device addresses. To find out the unique address of your device, enter the code ***#2820#** in the standby mode.

If you have searched for devices earlier, a list of devices found previously is shown. To start a new search, select **More devices**.


4. Select the device with which you want to connect.
5. If the other device requires pairing before data can be transmitted, a tone sounds and you are asked to enter a passcode. Create your own passcode and share the passcode with the owner of the other device. You do not have to memorise the passcode.

Pair and block devices

To open a list of paired devices, in the Bluetooth view, scroll right.

To pair with a device, select **Options** > **New paired device**, select the device with which to pair, and exchange passcodes.

To cancel pairing, scroll to the device whose pairing you want to cancel, and press the clear key. If you want to cancel all pairings, select **Options** > **Delete all**.

To set a device to be authorised, scroll to the device, and select **Options** > **Set as authorised**. Connections between your device and an authorised device can be made without your knowledge. Use this status only for your own devices to which others do not have access, for example, your PC or devices that belong to someone you trust.  is added next to authorised devices in the Paired devices view.

To block connections from a device, in the paired devices view, select the device and *Block*.

To view a list of blocked devices, scroll right to *Blocked devices*. To unblock a device, scroll to the device, and select *Delete*.

Receive data

When you receive data using Bluetooth technology, you are asked if you want to accept the message. If you accept, the item is placed in Inbox in Messaging.

■ USB connection

Connect the USB data cable to establish a data connection between the device and a compatible PC.

Select  > *Settings* > *Connectivity* > *USB* and from the following:

USB connection mode – to select the default USB connection mode or change the active mode. Select *PC Suite* to use the device with Nokia PC Suite; *Mass storage* to access files on the inserted memory card as a mass storage device; *Image transfer* to use the device with a PictBridge-compatible printer, or *Media transfer* to synchronise media files, such as music, with a compatible version of Windows Media Player.

Ask on connection – to set the device to ask the purpose of the connection each time the cable is connected, select *Yes*. To set the default mode to be activated automatically, select *No*.

After transferring data, ensure that it is safe to unplug the USB data cable from the PC.

■ Remote synchronisation

Sync enables you to synchronise data such as your calendar entries, contacts, and notes with a compatible computer or a remote internet server.

Select  > *Settings* > *Connectivity* > *Sync*.

To create a new profile, select *Options* > *New sync profile* and enter the required settings.

To synchronise data, in the main view, mark the data to be synchronised, and select *Options* > *Synchronise*.

■ Connection manager

In the connection manager, you can identify the status of data connections, view details on the amount of data sent and received, and end unused connections.

Select  > [Settings](#) > [Connectivity](#) > [Conn. mgr.](#)



Note: The actual invoice for calls and services from your service provider may vary, depending on network features, rounding off for billing, taxes, and so forth.

To view connection details, scroll to a connection, and select [Options](#) > [Details](#).

To end a connection, scroll to the connection, and select [Options](#) > [Disconnect](#). To end all connections, select [Options](#) > [Disconnect all](#).

18. Battery and charger information

Your device is powered by a rechargeable battery. The battery intended for use with this device is BP-4L. This device is intended for use when supplied with power from the following chargers: AC-3, AC-4, AC-5 or DC-4 chargers and CA-44 charging adapter. 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. Use of an unapproved battery or charger may present a risk of fire, explosion, leakage, or other hazard.

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.

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

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.

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 the battery. 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.

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

Do not dismantle, cut, open, crush, bend, deform, puncture, or shred cells or batteries. In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. In the event of such a leak, flush your skin or eyes immediately with water, or seek medical help.

Do not modify, remanufacture, attempt to insert foreign objects into the battery, or immerse or expose it to water or other liquids.

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.

Use the battery only for its intended purpose. Never use any charger or battery that is damaged. Keep your battery out of the reach of small children.



Important: Battery talk and standby times are estimates only and depend on signal strength, network conditions, features used, battery age and condition, temperatures to which battery is exposed, use in digital mode, and many other factors. The amount of time a device is used for calls will affect its standby time. Likewise, the amount of time that the device is turned on and in the standby mode will affect its 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 an authorised Nokia dealer, and inspect the hologram label using the following steps:

Successful completion of the steps is not a total assurance of the authenticity of the battery. If you have any reason to believe that your battery is not an authentic, original Nokia battery, you should refrain from using it, and take it to the nearest authorised Nokia service point or dealer for assistance. Your authorised Nokia service point or dealer will inspect the battery for authenticity. If authenticity cannot be verified, return the battery to the place of purchase.

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.



What if your battery is not authentic?

If you cannot confirm that your Nokia battery with the hologram on the label is an authentic Nokia battery, please do not use the battery. Take it to the nearest authorised Nokia service point or dealer for assistance. The use of a battery that is not approved by the manufacturer may be dangerous and may result in poor performance and damage to your device and its enhancements. It may also invalidate any approval or warranty applying to the device.

To find out more about original Nokia batteries, visit www.nokia.com/battery.

Care and maintenance

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 hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device returns to its normal 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.
- Do not paint the device. Paint can clog the moving parts and prevent proper operation.
- Use a soft, clean, dry cloth to clean any lenses, such as camera, proximity sensor, and light sensor lenses.
- 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.

- Always create a backup of 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 enhancement. If any device is not working properly, take it to the nearest authorised service facility for service.



Disposal

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that all electrical and electronic products, batteries, and accumulators must be taken to separate collection at the end of their working life. This requirement applies to the European Union and other locations where separate collection systems are available. Do not dispose of these products as unsorted municipal waste.

By returning the products to collection you help prevent uncontrolled waste disposal and promote the reuse of material resources. More detailed information is available from the product retailer, local waste authorities, national producer responsibility organizations, or your local Nokia representative. For the product Eco-Declaration or instructions for returning your obsolete product, go to country-specific information at www.nokia.com.

Additional safety information

■ Small children

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

■ Operating environment

This device meets RF exposure guidelines when used either in the normal use position against the ear or when positioned at least 2.2 centimeters (7/8 inches) away from the body. When a carry case, belt clip, or holder is used for body-worn operation, it should not contain metal and should position the device the above-stated distance from your body. To transmit data files or messages, this device requires a quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available. Ensure the above separation distance instructions are followed 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 any radio transmitting equipment, including wireless phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your device in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Implanted medical devices

Manufacturers of medical devices recommend that a minimum separation of 15.3 centimeters (6 inches) should be maintained 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 centimeters (6 inches) from the medical device when the wireless device is turned on.
- Not carry the wireless device in a breast pocket.
- Hold the wireless device to the ear opposite the medical device to minimise the potential for interference.
- Turn the wireless device off immediately if there is any reason to suspect that interference is taking place.
- Read and follow the directions from the manufacturer of their 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. If interference occurs, consult your service provider.



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

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

■ Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock)

braking systems, electronic speed control systems, and air bag systems. For more information, check with the manufacturer, or its representative, of your vehicle or any equipment that has been added.

Only qualified personnel should service the device or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. 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 enhancements. For vehicles equipped with an air bag, remember that air bags inflate with great force. Do not place objects, including installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Using your device while flying in aircraft is prohibited. 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, disrupt the wireless telephone network, and may be illegal.

■ Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere, and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refuelling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment 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 below deck on boats, chemical transfer or storage facilities and areas 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 will 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 mode 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 organization 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 0.64 W/kg.

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

Your mobile device is also designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA) and Industry Canada. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use at the ear is 0.87 W/kg and when properly worn on the body is 0.70 W/kg.

DRAFT

DRAFT

DRAFT