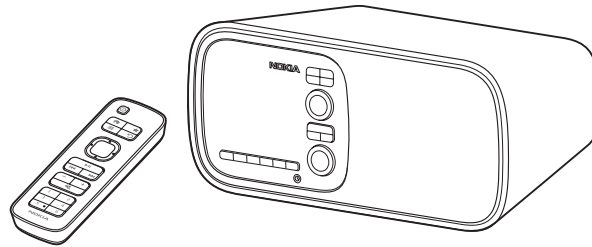


# Nokia Home Music User Guide

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Issue 1

**DECLARATION OF CONFORMITY**

Hereby, NOKIA CORPORATION declares that this HD-1 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/](http://www.nokia.com/phones/declaration_of_conformity/).

**CE 0560** 

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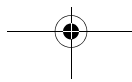
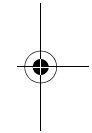
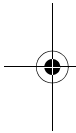
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## 1. Quick start

Nokia Home Music allows you to enjoy internet radio, podcasts, FM radio, and songs from different sources (such as mobile phones and PCs) at home.

### ■ Switch on


Plug the supplied AC adapter into the power connector on Nokia Home Music, and connect the adapter to a wall outlet.

To switch on, push the power switch up at the back of the device.

### ■ First time setup

1. Switch on Nokia Home Music.
2. When prompted, turn the scroll wheel and press the selection key to select the device language, and start the setup wizard to connect the device to your wired network (LAN) or a wireless network (WLAN).

If you want to connect the device to your LAN, plug a compatible ethernet cable into the device and your network router or LAN wall outlet.

3. Select the network type, and define the required settings. Protected networks are indicated by . For the correct settings, contact your network service provider. For details, see "Network settings", p. 34.



#### Quick start

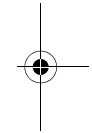
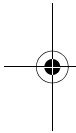
After you have defined the settings, the device attempts to connect to the internet through the network.

4. Select your time zone, the country and city where you are located, and the time and date.
5. After you have defined the settings, the main view is displayed and you can start using the device with the specified connection.

#### ■ Listen to different audio sources

Select one of the following folders in the main view:

- Podcast (📡) – Browse for hundreds of podcasts through the Nokia podcast directory.
- Radio (📻) – Search for FM and internet radio stations from all over the world.
- Favourites (★) – Listen to radio broadcasts, podcasts, songs, and playlists that you have saved as favourites.
- Jukebox (🎵) – Access the songs that you have in your mobile phone, PC, USB memory stick, and other compatible devices.
- History (🕒) – Access the radio broadcasts, podcasts, songs, and playlists that you have listened to lately.



## 2. Introduction

With Nokia Home Music, you can listen to internet radio, podcasts, FM radio, and songs from different sources (such as mobile phones and PCs). The device comes with a remote control that allows you to easily operate the device from a distance.

Read this guide carefully before using Nokia Home Music. Also read the user guides for the other devices that you connect to Nokia Home Music. For the latest guides, additional information, downloads, and services related to your Nokia product, see [www.nokia.com/support](http://www.nokia.com/support) or your local Nokia website.

Nokia may produce software updates that may offer new features, enhanced functions, or improved performance. To update the device software, see "Maintenance tools", p. 35.

This product may contain small parts. Keep them out of the reach of small children. The surface of this device is nickel-free.

### ■ Broadband internet connection

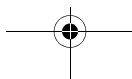
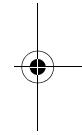
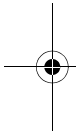
To access podcasts or internet radio stations and to update the device software, you need a broadband internet connection. You must also have a compatible ethernet wired network or an IEEE 802.11 b/g compatible wireless network that is properly set up.

Listening to internet audio sources and downloading software updates may involve the transmission of large amounts of data through your



**Introduction**

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





Your device

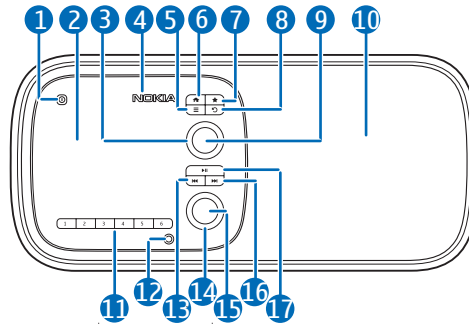
### 3. Your device

#### ■ Keys and parts

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.

#### Front view

1. Standby key
2. Display
3. Scroll wheel
4. Infrared port
5. Option key
6. Home key
7. Favourites key
8. Back key
9. Selection key
10. Loudspeaker
11. Preset keys
12. 3.5 mm headphone connector
13. Rewind key
14. Volume wheel

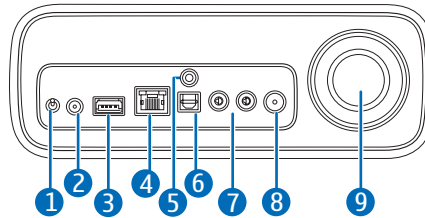


Your device

- 15. Mute/Unmute key
- 16. Forward key
- 17. Play/Pause key

**Back view**

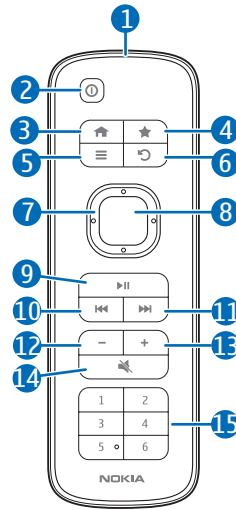
- 1. Power switch
- 2. Power connector
- 3. USB connector
- 4. Ethernet connector with indicator lights
- 5. 3.5 mm audio input (indicated with AUX IN)
- 6. S/PDIF optical output
- 7. RCA outputs
- 8. Connector for an FM radio antenna
- 9. Bass reflex tube



### Remote control

1. Infrared port
2. Standby key
3. Home key
4. Favourites key
5. Option key
6. Back key
7. Scroll key
8. Selection key
9. Play/Pause key
10. Rewind key
11. Forward key
12. Volume down key
13. Volume up key
14. Mute/Unmute key
15. Preset keys

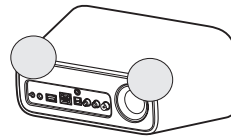
Your device



Your device

### ■ Antenna locations

Your device has internal 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.



### ■ Bass reflex tube

Nokia Home Music has a bass reflex tube that improves the reproduction of low sounds. Do not insert any objects into the tube.

For best sound quality, leave some free space behind the device so that air can flow freely from the tube.

### ■ Textile front cover

You can dust the textile of the front cover using a soft brush or a dry cloth.

To clean the textile, run a slightly damp white cloth over it. Avoid the use of printed absorbent cloths as they can release ink onto the textile.

Do not use the product with dirty or greasy hands.

## 4. Get started

### ■ Connect to a wall outlet

Nokia Home Music is powered by the supplied AC adapter. The AC adapter is only meant for indoor use.

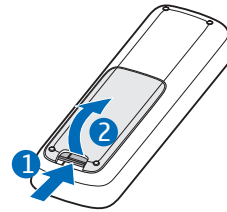
Plug the adapter into the power connector, and connect the adapter to a wall outlet.

When you disconnect the power cord, grasp and pull the plug, not the cord.

### ■ Install remote control batteries

The remote control is powered by two AAA batteries.

1. To remove the battery cover, press and hold the release button (1), and lift the cover (2).
2. Insert the batteries as indicated in the battery compartment.
3. To replace the cover, insert the catch at the top of the cover into the corresponding slot on the remote control, and push the cover against the remote control until it locks into place.



## Get started

### ■ Switch on or off

To switch on, push the power switch up at the back of the device. The display turns on, and Nokia Home Music tries to connect to the internet if you have defined the network settings. When the device is ready for use, the main view is displayed. For details, see "Main view", p. 15.

To switch off, push the power switch down. The display turns off.

### ■ Standby mode

To set Nokia Home Music to standby mode, press the standby key. In standby mode, the current date and time are displayed.

To exit standby mode, press the standby key. If you were listening to an audio source when you set the device to standby mode, the source resumes playing.

### ■ Operate with the remote control

To operate Nokia Home Music with the supplied remote control, point the infrared port on the remote control towards the display.

Do not allow the infrared (IR) beam to interfere with other IR devices.

## 5. Basic functions

### ■ Main view

When you switch on Nokia Home Music, the main view is displayed. The main view shows the folders for different audio sources, date and time, and details of the currently playing source (such as an internet radio station) if the details are provided by the source.

#### Folders for different audio sources













In the main view, the following folders are available:

- Podcast (📍) – Listen to podcast episodes. See "Podcasts", p. 24.
- Radio (📻) – Listen to internet radio and FM radio stations. See "Radio", p. 26.
- Favourites (★) – Listen to radio broadcasts, podcasts, songs, and playlists that you have saved as favourites. See "Save a preset or favourite", p. 18, and "Favourites and History", p. 31.
- Jukebox (🎵) – Listen to music from a compatible USB device or a Universal Plug and Play (UPnP) device such as a mobile phone. See "Jukebox", p. 29.
- History (🕒) – Listen to recently used audio sources. See "Favourites and History", p. 31.

Basic functions

**Display indicators**

In the main view, the following indicators can be displayed:

-  The signal strength of the WLAN to which the device is connected is high.
-  The signal strength of the WLAN to which the device is connected is low.
-  The signal strength of the WLAN that you configured in the device is too low for use, or the WLAN is not available.
-  The device is connected to a LAN.
-  You have saved the current audio source as a favourite.
-  The currently active audio source is playing.
-  The currently active audio source is paused.
-  The currently active audio source is muted.
-  The device is playing the songs of the currently active playlist repeatedly until you stop playing.
-  The device is playing the songs of the currently active playlist in a random order.
-  You have set the device to sound an alarm at the displayed time. See "Set alarms", p. 32.
-  You have activated the sleep timer. See "Sleep timer", p. 33.



### ■ Scroll and select

To select a folder or a list item, turn the scroll wheel to highlight the folder icon or the item, and press the selection key. If you use the remote control, press the scroll key to highlight the folder icon or the item, and press the selection key.


To scroll through a list quickly, press the scroll key of the remote control left or right.

To return to the previous view, press the back key. If you were listening to an audio source in the play view, the source continues to play.

To return to the main view, press the home key. If you were listening to an audio source, the source continues to play; to return to the play view, press the home key.

### ■ Adjust or mute the volume

To adjust the volume of the currently playing audio source, turn the volume wheel. If you use the remote control, press either volume key.

To mute the volume, press the mute/unmute key, or set the volume level to zero. When the volume is muted,  is displayed.

To unmute the volume, press the mute/unmute key, or increase the volume level from zero.



**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.

## Basic functions

### ■ Save a preset or favourite

You can save an audio source (such as a podcast or a radio station) as a preset or a favourite.

To save an audio source as a preset while you are playing it, press and hold the desired preset key for about 2 seconds. Alternatively, in a list of audio sources, scroll to the audio source, press the option key, and select *Set as preset* and the desired preset key. To play a preset, press the preset key that you assigned to it.

To save an audio source as a favourite while you are playing it, press the favourites key. Alternatively, press the option key, and select *Add to favourites*.

### ■ Write text

You can enter letters, numbers and other characters, for example, when you enter an IP address or search for podcasts or internet radio stations by name.

To enter a character, scroll to the character on the displayed keyboard, and press the selection key. To switch between upper and lower case, select **A/a**. To enter numbers or special characters, select **1/...**; to return to letter mode, select **ABC** or **abc**. To enter accented characters, select **AAA** or **aaa**. To insert a space, select **—**. To delete a character, select **cl**. To finish writing, select **OK** or **⏏**.

### ■ Common options

To access options available in a folder (such as Podcasts or Radio), in the main view, select the folder, scroll to the desired audio source (such as a podcast or radio station), press the option key, and select from the following:

- *List order* – Sort the audio source list.
- *Details* – View the details of the audio source.
- *Add to favourites* – Set the audio source as a favourite. See also “Save a preset or favourite”, p. 18.
- *Remove from favourites* – Remove the audio source from your favourite list.
- *Delete* – Remove the audio source from the audio source list.
- *Clear list* – Clear the audio source list.
- *Set as preset* – Save the audio source as a preset. See also “Save a preset or favourite”, p. 18.

Set up a connection

## 6. Set up a connection

### ■ Connect to a network

You can connect Nokia Home Music to a wired local area network (LAN), a wireless LAN (WLAN), or a UPnP device through a LAN or WLAN.

To connect Nokia Home Music to your LAN or WLAN, in the main view, press the option key, and select *Network* > *Setup wizard* or *Manual setup*. For details, see "Network settings", p. 34.

### Connect to a WLAN

You can connect Nokia Home Music to a WLAN access point device.

Nokia Home Music supports IEEE 802.11 b/g connections and wired equivalent privacy (WEP) with keys of up to 128 bits, Wi-Fi protected access (WPA), and WPA2 encryption methods.

When you configure your WLAN home network, enable an encryption method on your access point device, then on the other devices you intend to connect to your home network. See the documentation of the devices. Keep any passcodes secret and in a safe place separate from the devices.




Note: In France, you are only allowed to use WLAN indoors.

Set up a connection

**Connect to a LAN**

You can connect Nokia Home Music to a LAN using a compatible ethernet cable. Connect the cable to the ethernet connector on the device and to a compatible network router or LAN wall outlet.

For the connection status, check the indicator lights beside the ethernet connector:

- When the yellow LAN indicator light flashes, the device is setting up a LAN connection. When the yellow indicator light is continuously displayed (and  is displayed in the main view), the LAN connection is active.
- When the green LAN indicator light is displayed, the device is streaming data from the network.
- When neither LAN indicator light is displayed, the device is not connected to a LAN. Check that the ethernet cable is properly connected.

**Connect to a UPnP device**

Nokia Home Music is compatible with the Universal Plug and Play (UPnP) standard and certified by the Digital Living Network Alliance (DLNA).

After you have connected the device to your WLAN home network, you can play audio files (podcasts or songs) or playlist files stored in a compatible UPnP device, such as a mobile phone, PC, or network hard drive.



#### Set up a connection

In your UPnP device, share the files you want to play with Nokia Home Music, and connect the UPnP device to your LAN or WLAN. For details, see the documentation of the UPnP device.

The UPnP connection uses the same security settings as your LAN or WLAN connection.

#### ■ Connect directly to another device

You can connect Nokia Home Music directly to a compatible audio or storage device.

#### Connect to a USB device

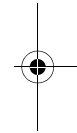
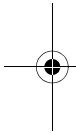
The USB 2.0 High Speed connector of Nokia Home Music supports the data transfer rates defined in the USB specification version 2.0.

To connect Nokia Home Music to a compatible USB device, plug a compatible USB cable into the USB connector on Nokia Home Music and the other device.

To play an audio or playlist file stored in a connected USB device, see "Listen to music from a connected device", p. 29.

#### Connect to an RCA or S/PDIF device

To play Nokia Home Music through a home stereo system, connect the device to the stereo system through the analogue RCA outputs or the optical S/PDIF output using a compatible cable, and set the volume on the stereo system.





### Set up a connection




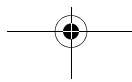
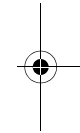
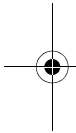
You can also use the RCA outputs to connect the device to compatible active loudspeakers.

#### **Connect to headphones**

To play Nokia Home Music through headphones, connect the headphones to the 3.5 mm headphone connector. The minimum recommended impedance of the headphones is 16 ohms.

#### **Connect to an audio source device**

To connect Nokia Home Music to an audio source device such as an MP3 player, connect your compatible audio device to the 3.5 mm audio input at the back of the device, and select *Jukebox* and the device indicated with .






## Podcasts




## 7. Podcasts

---

To listen to and manage podcasts, in the main view, select [Podcasts](#). A list of subscribed podcasts is displayed.




If a podcast has no new episodes,  is displayed beside the podcast name. If the podcast has new episodes, a star () is displayed beside .

To see the episodes of a podcast, select the podcast. If you have listened to an episode,  is displayed beside the episode name. If you have not listened to the episode,  is displayed beside .

The device automatically updates the episodes of the podcasts that you have added to the podcast list.

### ■ Search for podcasts

To search for podcasts by category from the Nokia Podcast Directory, select [Find podcasts](#), the main category, and the subcategory. The podcasts that meet the criteria are displayed. To listen to a podcast episode, select the podcast and the episode. When you listen to a podcast, it is automatically added to the podcast list.

To search for podcasts by name, select [Find podcasts](#) > [Search by name](#), enter the name, and select . For details, see "Write text", p. 18.

To access a podcast by web address, select [Find podcasts](#) > [Enter URL](#), enter the address, and select [OK](#).



### ■ Listen to a podcast

To listen to an episode of a podcast, in the podcast list, select the podcast and the episode. The device starts to stream the episode, and the play view is displayed.

When you listen to a podcast, you can do the following:

- To switch between the play view and the main view, press the home key.
- To return to the podcast list, press the back key. Alternatively, press the scroll key of the remote control.
- To play the previous episode, press the rewind key.
- To play the next episode, press the forward key.
- To pause or resume playing, press the play/pause key.
- To stop playing, press and hold the play/pause key for about 2 seconds.

### ■ Available options

To update the episodes of all the podcasts, in the podcast list, scroll to *Find podcasts*, press the option key, and select *Refresh all*.

To update the episodes of a podcast, in the podcast list, scroll to the podcast, press the option key, and select *Refresh podcast*.

To access other options, scroll to a podcast, press the option key, and select the desired option. You can, for example, delete the podcast from the podcast list and mark all the episodes of the podcast as new or heard. See also "Common options", p. 19.



Radio

## 8. Radio

---

To listen to and manage FM and internet radio stations, in the main view, select *Radio*. The radio station list is displayed.



FM radio stations are indicated by  and internet radio stations by .

Before you can listen to an FM radio station, you must connect a compatible FM radio antenna to Nokia Home Music.

The sound quality of FM radio broadcasts depends on the service provider and the signal strength in your location. The sound quality of internet radio broadcasts depends on the service provider, bitrate, and network connection.

To manage the radio station list, scroll to a station in the list, press the option key, and select the desired option. For details, see "Common options", p. 19.

### ■ Listen to a radio station

To listen to an FM or internet radio station, in the station list, select the desired station. Nokia Home Music starts to play the station, and the play view is displayed.

When you listen to an FM radio station, the radio frequency is displayed; when you listen to an internet radio station, the station name and the bitrate are displayed. You can do the following:



## Radio




- To switch between the play view and the main view, press the home key.
- To listen to another FM station when you are listening to FM radio, turn the scroll wheel or press the back key (or press the scroll key of the remote control), and select the desired station.
- To listen to the previous or next internet radio station when you are listening to internet radio, press the rewind or forward key.


### ■ Search for internet radio stations

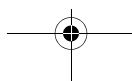
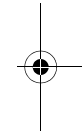
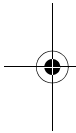
To search for internet radio stations by category from the Nokia Internet Radio Directory, in the station list, select *Find net radio*, the category (for example, *By genre*), and the desired option. The stations that meet the criteria are displayed. To listen to a station and add it to the station list, select the desired station.



**Tip:** To select another station, turn the scroll wheel or press the back key (or press the scroll key of the remote control), and select the desired station.

To search for internet radio stations by name, select *Find net radio* > *Search by name*, enter the name, and select . For details, see "Write text", p. 18.

To access an internet radio station by web address, select *Find net radio* > *Enter URL*, enter the address, and select .





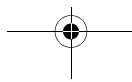
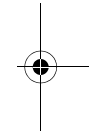
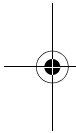
## Radio

### ■ Search for FM radio stations


To add a new FM station, in the station list, select *Add FM station(s)*. Enter the FM frequency of the station, and select *OK*. For details, see "Write text", p. 18.

To automatically scan for FM stations, in the station list, select *Add FM station(s)* > *Scan stations*.




To manually scan for FM stations when you are listening to FM radio, press and hold the rewind or forward key for about a second. To scroll through the frequencies, press the rewind or forward key repeatedly.



## 9. Jukebox

In Jukebox, you can access the devices that you have connected to Nokia Home Music through a UPnP or USB connection or the 3.5 mm audio input at the back of the device. 

To access Jukebox, in the main view, select *Jukebox*. A list of connected devices is displayed.

In the device list, UPnP devices (such as a mobile phone) are indicated by , USB devices (such as a memory stick) by , and devices connected the 3.5 mm audio input by .

See also "Connect directly to another device", p. 22.

### ■ Listen to music from a connected device

To play an audio or playlist file stored in a device that you have connected through UPnP or USB, select the device where the file is stored and the file. Nokia Home Music starts to stream the file, and the play view is displayed.

In the play view, the played time and total playing time are displayed. When you play a file, you can do the following:

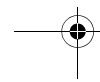
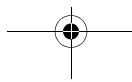
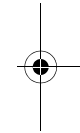
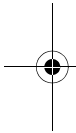
- To switch between the play view and the main view, press the home key.



### J u k e b o x

- To play another file, turn the scroll wheel or press the back key (or press the scroll key of the remote control) to return to the file list, and select the file.
- To restart the current file or play the previous file (at the start of the current file), press the rewind key.
- To play the next file, press the forward key.
- To rewind or fast forward the file, press and hold the rewind or forward key.
- To pause or resume playing, press the play/pause key.
- To stop playing, press and hold the play/pause key for about 2 seconds.






When you listen to a file stored in the connected device, press the option key and select the desired option to activate or deactivate repeat or shuffle (random play), save the file as a preset or favourite, or view the details of the file.




## 10. Favourites and History

To play and manage audio sources that you have saved as favourites, in the main view, select *Favourites*.

To play and manage previously used audio sources, in the main view, select *History*.

Podcasts are indicated by , internet radio stations by , FM radio stations by , playlists by , and songs by .

To search for a favourite or history item by name, select *Search*. For details, see "Write text", p. 18. To accept the name and start the search, select .

To play a favourite or history item, select the item from the list.

To save an audio source as a favourite, see "Save a preset or favourite", p. 18.


To access options, scroll to a favourite or history item, and press the option key. For details, see "Common options", p. 19.






Alarms and sleep timer

## 11. Alarms and sleep timer

### ■ Set alarms

In the main view, press the option key, and select *Alarm*. The alarm view is displayed. Set alarms are displayed at the bottom of the view. Active alarms are indicated by .

To set Nokia Home Music to sound an alarm at a specified time, select *New alarm* and do the following:

- To set the alarm time, select the default time. To set the hours, turn the scroll wheel (or press the scroll key of the remote control up or down), and press the selection key. Repeat this to set the minutes.
- To set the alarm to repeat, select  and the weekdays when the alarm is repeated, and press the back key.
- To select an alarm tone, select  and the tone, and press the back key.
- To add or edit a title text that is displayed when the alarm sounds, select , enter the text, and select *OK*. For details, see "Write text", p. 18.
- To save the alarm, select *Save alarm*.

To activate or deactivate an alarm, in the alarm view, select the alarm and *OK*. To edit or delete an alarm, or to set the snooze interval (time after which the alarm repeats if it is left unnoticed), scroll to the alarm, press the option key, and select the desired option.





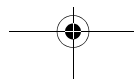
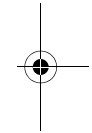
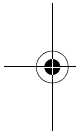
## Alarms and sleep timer



### ■ Sleep timer

To activate the sleep timer, in the main view, press the option key, and select *Alarm* > *Timer* and the time after which the timer activates.

When the timer activates, Nokia Home Music enters standby mode.



Tools and settings

## 12. Tools and settings

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### ■ Time and date

To set the time and date, in the main view, press the option key, and select *Date & time*.

You can set the device to get the time and date from the internet or set them manually and select the format and separator for the time and date.

To set the time and date manually, turn the scroll wheel to show the desired number, and press the selection key to move to the next number.

### ■ Device settings

To view or edit the device settings, in the main view, press the option key, and select *Device*.


You can set the display brightness, the device language, and your location (to get the time and date from the internet).

### ■ Network settings

To view or edit the network settings, in the main view, press the option key, and select *Network* and from the following:

- *Change connection type* – Change the network type if you have connected Nokia Home Music to both a wired (LAN) and wireless (WLAN) network.

### Tools and settings

- **Setup wizard** – Define the network settings by following the displayed instructions. For the correct settings, contact your network service provider. If you need to return to the previous view, press the back key.  
If you select to connect to a WLAN, select the network from a list. Protected networks are indicated by . To connect to a protected network, enter the network key from the displayed keyboard (see "Write text", p. 18), and select **OK**. To connect to a hidden network, select **Enter name (SSID)**, and enter the correct network name.  
If you select to connect to a LAN and you are prompted for an IP address, turn the scroll wheel to show the desired number, and press the selection key to move to the next number.
- **Network information** – View the details of the network to which Nokia Home Music is connected.
- **Device name** – Change the device name that is broadcast to connected devices.
- **Manual setup** – Edit specific settings of your network connection. For the correct settings, contact your network service provider. To connect to the network, select **Connect**.

### ■ Maintenance tools

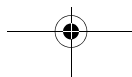
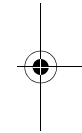
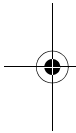
To use the maintenance tools, in the main view, press the option key, and select **Maintenance** and from the following:

- **Backup** – Save your personal settings (such as network settings) and data (such as podcast and radio station lists) as a backup file in the connected USB device.



#### Tools and settings

- [Restore](#) – Restore the settings and data that you saved as a backup file.
- [Software update](#) – Update the device software from the internet. Carefully read through the legal notice and select [I agree](#) at the end of the notice to start the update.
- [Software info](#) – View the details of the current software.
- [Restore factory settings](#) – Restore the original settings. When you restore the settings, you lose all your personal settings and data.



## 13. Miscellaneous

### ■ Supported file formats and protocols

Nokia Home Music supports the following:

- Audio file formats: AAC, AAC+, LPCM, WAV, MP3, WMA9, MP4, M4A, 3GP, WMA BASE, WMA FULL
- Playlist formats: PLS, M3U, ASX, ASF
- Streaming protocols: WMA Streaming (WMS, MMS) , RTSP/RTP (TCP), HTTP Streaming, Shoutcast

However, the device does not necessarily support all the variations of these formats. For the latest list, see [www.nokia.com/support](http://www.nokia.com/support) or your local Nokia website.

### ■ Digital rights management

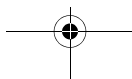
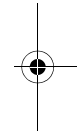
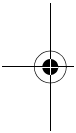
Content owners may use different types of digital rights management (DRM) technologies to protect their intellectual property, including copyrights. This device uses various types of DRM software to access DRM-protected content. With this device you can access content protected with Cardea DRM (WMDRM-ND). 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



**Miscellaneous**

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.



## 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, allow it to dry completely.
- 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 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.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device. Only use a soft, clean, dry cloth to clean the surface of the device.
- Do not paint the device. Paint can clog the moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorised antennas, modifications, or attachments could damage the device and may violate regulations governing radio devices.



### Care and maintenance



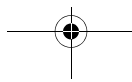
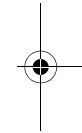
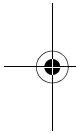
These suggestions apply equally to your device or any accessory. If any device is not working properly, take it to the nearest authorised service facility for service.

#### Recycle

Always return your used electronic products, batteries, and packaging materials to dedicated collection points. This way you help prevent uncontrolled waste disposal and promote the recycling of materials. Check product environmental information and how to recycle your Nokia products at [www.nokia.com/werecycle](http://www.nokia.com/werecycle), or [nokia.mobi/werecycle](http://nokia.mobi/werecycle).



The crossed-out wheeled-bin symbol on your product, battery, 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 in the European Union. Do not dispose of these products as unsorted municipal waste. For more environmental information, see the product Eco-Declarations at [www.nokia.com/environment](http://www.nokia.com/environment).





Additional safety information

## Additional safety information

### ■ Medical devices

Operation of any radio transmitting equipment, including wireless devices, 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. 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.
- 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.



#### Additional safety information

##### Hearing aids

Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

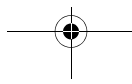
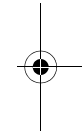
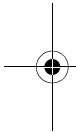
##### ■ Certification information (SAR)

This device model meets guidelines for exposure to radio waves.

Your 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 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 ten 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.

Your 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 when positioned in direct contact with the body is 1.31 W/kg.



FCC/Industry Canada notice

## FCC/Industry Canada notice

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



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## Open source software notice

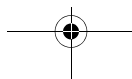
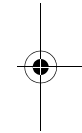
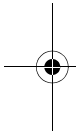
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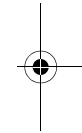
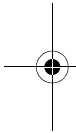
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Iperf performance test:

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- Ajay Tirumala
- Jim Ferguson
- Jon Dugan
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- John Estabrook
- National Laboratory for Applied Network Research
- National Center for Supercomputing Applications
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