User's Guide for the Nokia Digital Pen (SU-1B)

9356642
Issue 1

DECLARATION OF CONFORMITY

We, NOKIA CORPORATION declare under our sole responsibility that the product SU-1B is in conformity with the provisions of the following Council Directive: 1999/5/EC. A copy of the Declaration of Conformity can be found at http://www.nokia.com/phones/declaration_of_conformity/.

CE 0560

Copyright © 2003 Nokia. All rights reserved.

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.

Nokia is a registered trademark of Nokia Corporation. Bluetooth is a registered trademark of Bluetooth SIG, Inc. Other product and company names mentioned herein may be trademarks or tradenames of their respective owners.

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

Under no circumstances shall Nokia 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 may vary by region. Please check with the Nokia dealer nearest to you.

In some countries there may be restrictions in using Bluetooth devices. Check with your local authorities.

Contents

1. Introduction 5
Bluetooth wireless technology 5

2. Getting started 7
Charging the battery 8
Chargers and batteries 9
Pairing your Nokia Digital Pen 9
Pairing the pen from your phone 9
Activating pairing from your pen 10

3. Using the Nokia Digital Pen with your compatible phone 12
Switching the pen on or off 12
Nokia Digital Pen indicators 12
Writing and drawing with the pen 13
Using the notepads 14
Using the stylo settings 15
Creating and sending a multimedia message to the phone 15

4. Using the Nokia Digital Pen with a PC 17
Installing the PC application 17
Sending and saving notes on your PC 18
Resetting the Nokia Digital Pen 19
Partial reset 19
Full reset 20
Changing the ink cartridge of the pen 20

Copyright © 2003 Nokia. All rights reserved.

5. Battery information....23
Charging and Discharging....23
CARE AND MAINTENANCE....25

Copyright © 2003 Nokia. All rights reserved.

1. Introduction

The Nokia Digital Pen allows you to create colourful and personal multimedia messages (MMS). Draw a picture or write a poem, and send it to the compatible phone that supports Bluetooth wireless technology. Display the image on your phone or forward it as a multimedia message to another compatible phone or to an e-mail address.

The Nokia Digital Pen also allows you to write meeting minutes or personal notes, and save them in your PC. The Nokia Digital Pen can save up to 100 A5 pages, all of which can be sent to your PC by placing the pen in the Connectivity Stand, which is connected to your PC via the USB port.

Read this user's guide carefully before using the Nokia Digital Pen. For important safety and maintenance information and for details about phone features, check the user's guide of your phone.

■ Bluetooth wireless technology

The Nokia Digital Pen is specially designed for compatible phones that support Bluetooth wireless technology and Object Push Profile, Dial-up Networking Profile, Generic Object Exchange Profile and Serial Port Profile (A profile is a set of Bluetooth commands that your phone uses to control the pen).

With the Bluetooth wireless technology you can connect compatible devices without cables to other products using Bluetooth wireless technology. A Bluetooth connection does not require that the phone and the Nokia Digital Pen

Copyright © 2003 Nokia. All rights reserved.

be in line of sight, but both devices should be within 10 metres of each other, although the connection can be subject to interference from obstructions, such as walls, or other electronic devices.

The Nokia Digital Pen is compliant with and adopts Bluetooth Specification 1.1. However, interoperability between the Nokia Digital Pen and other products with Bluetooth wireless technology is not guaranteed because it depends on compatibility. For more information on the compatibility between the Nokia Digital Pen and other products with Bluetooth wireless technology, check with your dealer.

Copyright © 2003 Nokia. All rights reserved.

2. Getting started

Note: The use of wireless devices may be restricted in some situations. Observe any restrictions and obey all signs and instructions concerning use of wireless devices.

Figure 1 shows the main parts of the Nokia Digital Pen. Note that operations and some features are network dependent.

1- Ink cartridge

2- Reset hole

3- Ink cartridge removal tool

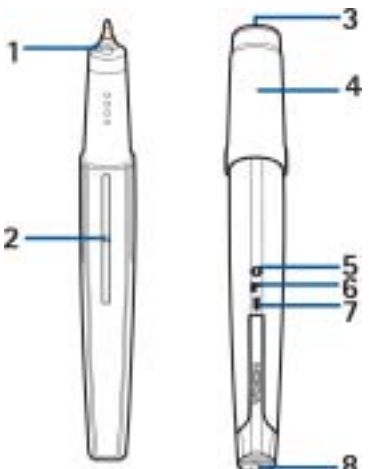
4- Cap

5- Power on/off indicator

6- Data status indicator

7- Battery level indicator

8- Charging connector



Copyright © 2003 Nokia. All rights reserved.

Before you can start using your Nokia Digital Pen, you must:

- Charge the battery.
- Pair a compatible phone with the pen, see Pairing your Nokia Digital Pen on page 9.

  You need your Bluetooth passcode to pair the Nokia Digital Pen. The Bluetooth passcode is included in the sales package. Keep the card in a secure place.
- To use the Nokia Digital Pen with your PC, install the PC application to your computer that is provided on the CD-ROM in the sales package, see Using the Nokia Digital Pen with a PC on page 17.

■ Charging the battery

Charge the pen in either of the two ways:

- Plug the charger into an AC wall outlet and connect it to the charging connector on the pen, see Figure 2 (1).
- Plug the charger into an AC wall outlet, connect it to the Connectivity Stand, and place the pen in the stand.

The battery indicator on the pen blinks during charging. Charging the battery fully takes up to 2 hours depending on the charger. Note that the pen need not be fully charged before you can use it.

Copyright © 2003 Nokia. All rights reserved.

Chargers and batteries

Check the model number of any charger before using it with this device. The Nokia Digital Pen is intended for use with the following chargers: ACP-8, ACP-12, and LCH-12.

Warning! Use only chargers approved by Nokia for use with this particular enhancement. The use of any other types will invalidate any approval or warranty applying to the enhancement, and may be dangerous.

For availability of approved chargers, check with your local dealer.

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

■ Pairing your Nokia Digital Pen

You must pair the pen with a compatible phone to enable it to communicate with the phone. You can start the pairing from either your phone or from your pen. The pen can be paired with one phone at a time. If you want to use your pen with another phone, you must pair it with that phone.

Note: Do not point the IR (infrared) beam at anyone's eye or allow it to interfere with other IR devices.

Pairing the pen from your phone

1. Take the cap off the pen and make sure that both your pen and compatible phone are switched on. Create the Bluetooth connection within 5 minutes.
2. Activate the Bluetooth connection from the phone. For more information, see the user's guide of the phone.

Copyright © 2003 Nokia. All rights reserved.

3. Set the phone to search for Bluetooth devices as instructed in the user's guide of the phone.

   The phone searches for all Bluetooth devices within approximately 10 metres and displays them in a list.

4. Select the Nokia Digital Pen from the list and key in the Bluetooth passcode included in the sales package

   When you have keyed in the correct passcode, the pen vibrates three times to indicate that pairing has succeeded and that the pen is ready for use.

Activating pairing from your pen

1. Activate the Bluetooth connection from the phone. For more information, see the user's guide of the phone.
2. Use the pen to select the "Pair pen with mobile phone" box. (The "Pair pen with mobile phone" box is in the end of the notepad).

   The indicator blinks to show that the pen is searching for Bluetooth devices within approximately 10 metres.

3. The pen selects the nearest device and asks to be paired with it. Enter the Bluetooth passcode included in the sales package.

   When you have keyed in the correct passcode, the pen vibrates three times to indicate that pairing has succeeded.

4. To allow the pen to create the Bluetooth connection automatically and to send data to the compatible Bluetooth phone automatically, set your phone to accept Bluetooth connection requests without your permission.

Copyright © 2003 Nokia. All rights reserved.

In Nokia phones, this can be done by changing your paired devices settings in the Bluetooth menu.

5. Start using the pen.

Note that the Bluetooth connection between the Nokia Digital Pen and the compatible phone is active only when the Nokia Digital Pen is sending data to the phone.

Copyright © 2003 Nokia. All rights reserved.

3. Using the Nokia Digital Pen with your compatible phone

Note: The use of wireless devices may be restricted in some situations. Observe any restrictions and obey all signs and instructions concerning use of wireless devices.

■ Switching the pen on or off

To switch the pen on, remove the cap. The pen vibrates briefly and the on/off indicator appears.

To switch the pen off, replace the cap.

To save power and to protect the lens from dirt, always keep the cap on when you are not using the pen.

Nokia Digital Pen indicators

Off: The pen is switched off or the battery has run out of charge.

White: The pen is ready for use or is registering strokes.

Flashing: The pen has not been used for over 5 minutes. Put the cap on to save power.

Flashing: The pen is connecting to a Bluetooth device and/or sending data.

Copyright © 2003 Nokia. All rights reserved.

Flashing red: A message transmission has failed due to a Bluetooth connection failure or other service error.

White: Message has been sent successfully.

Off: The pen is sufficiently charged and the charger is not connected to the pen.

Red: You need to charge the pen. The pen will soon switch off.

Flashing white: The pen needs to be recharged, but it can still be used.

White: The pen is fully charged, but the charger is connected to the pen.

■ Writing and drawing with the pen

When you write or draw, use the digital paper included in the sales package. See Figure 3 for using your pen.

- Draw or write within the patterned area of the paper.
- You can change the colour of the ink or the line thickness, see Using the stylo settings on page 14.

  Note that the colour of the ink or the line thickness does not change on paper while you write. When you send the message to a compatible phone or display, the changes are shown on the display.

Copyright © 2003 Nokia. All rights reserved.

- You can stop writing and put on the cap to continue later. Text and drawings are saved in the pen until its memory is full.
  Once the pen's memory is full, the new data replaces the oldest one in the pen's memory.
- When you run out of paper, you can obtain notepads from authorized Nokia retail stores. You can also print a specific PDF file (on CD-ROM) that contains the digital paper pattern on normal printing paper and use it as digital paper.

Using the notepads

The sales package includes two types of notepad paper, a small MMS pad (B7 size) and a large notepad (A5 size). Use the smaller notepad for sending multimedia messages to a compatible phone or to an e-mail address.

The bigger notepad has two functions. You can either save the notes in a PC using the PC application included in the sales package or send them to a compatible phone via a Bluetooth connection. In both cases you only need to select whether you want to send the notes to PC or to the phone by selecting the appropriate box on the notepad, see Using the Nokia Digital Pen with a PC on page 17.

Before starting to use a new notepad, select the box "New notepad" on the first page. Use only one notepad type (MMS pad and notepad) at a time, and start using a new pad of the same type only after you have finished the old pad.

Using the stylo settings

You can change the colour and line thickness of the digital ink while you write or draw. The stylo settings are listed in the fold-out of the notepad back cover.

Copyright © 2003 Nokia. All rights reserved.

- To change the colour and/or the line thickness, select the respective selection box on the paper. The pen vibrates briefly to confirm your selection.

  Your selections are used until you put the cap on. When the cap is put on, the pen returns to the default line colour and thickness.

Note that the pen does not change the colour or the line thickness of the ink on the paper. The different colour or line thickness become visible only when you have sent the image or text to a compatible phone or PC.

■ Creating and sending a multimedia message to the phone

Note: Only devices that offer compatible multimedia message or e-mail features can receive and display multimedia messages. Multimedia message objects may contain viruses or otherwise be harmful to your device or PC. Do not open any attachment if you are not sure of the trustworthiness of the sender.

Use the multimedia notepad for writing and sending multimedia messages to compatible mobile phones. Before you can send a multimedia message from the phone, you need to set the multimedia settings in your phone. See you phone's user's guide for the multimedia settings. For availability and subscription information on multimedia messaging services, contact your network operator or service provider.

1. Select the "New notepad" box on the first page of the notepad.

Copyright © 2003 Nokia. All rights reserved.

2. Make sure that the Bluetooth connection is active on your phone and that the pen is connected (paired) to the phone. The pen and the phone should be within 10 metres of each other.
3. Write a message or draw a picture.
4. To select the size of the image to be sent to the phone, select the appropriate box.
5. To send a picture to your phone, select . The indicator blinks while the message is being sent and stops when the message has been sent to the phone.

You can forward the multimedia message to another phone or to an e-mail address, or you can save it in the phone. For more detailed information on multimedia messaging, see the user's guide of the phone.

Copyright © 2003 Nokia. All rights reserved.

4. Using the Nokia Digital Pen with a PC

■ Installing the PC application

To use your pen with your PC, you need to install the PC application provided on CD-ROM.

1. Insert the CD in the CD drive of your PC and follow the instructions on the screen.
2. Plug the Connectivity Stand into the USB port of your PC and connect it with a charger cable to an AC wall outlet, if you want to charge the pen while it is in the Connectivity Stand, see Figure 2 (2).
3. Remove the cap from the pen and place the pen in the Connectivity Stand.

   Your PC detects the new hardware and loads the appropriate drivers automatically.

   Your PC is ready to receive and save notes from your pen.

Copyright © 2003 Nokia. All rights reserved.

■ Sending and saving notes on your PC

You can send and save notes on your PC using the larger notepad.

To send and save a note to PC:

1. Write a message or draw a picture.
2. Select the PC box on the notepad and to create a draft e-mail of the page content, or to simply send your notes to your PC without creating the draft e-mail, put the pen in the Connectivity Stand for the pen.

   Your PC application includes a help file. To view the file, click the pen icon and select Help from the menu.

To view notes on a PC:

1. Write a note or draw a picture using the larger notepad.
2. Place the pen in the Connectivity Stand. Your notes are automatically transferred to your PC and saved in memory.
3. To view, edit and rearrange the notes, start the Digital Note Viewer application on your PC.
4. On your PC, press Start, select Programs, Nokia Digital Pen and Digital Note Viewer.

Copyright © 2003 Nokia. All rights reserved.

■ Resetting the Nokia Digital Pen

Partial reset

Partial reset can be necessary if the pen freezes, but you do not want to lose the data that has been saved in the pen's memory. To reset the pen, push the reset hole with a paper clip. The pen restarts and you can continue using it normally. Note that you should not hold the tip of pen against a surface, or all of its memory will be cleared, see Figure 4 (1).

Copyright © 2003 Nokia. All rights reserved.

Full reset

Use ful reset, if you want to give the pen to someone else and you want to make sure that it does not contain any personal information. Full reset clears all the settings of the pen and resets all values to their original settings, including pairing information. See Figure 4 (2).

1. Take the cap off the pen.
2. Push the reset hole with a paper clip and, at the same time, press the pen tip against the table.

   All three indicators of the pen blink simultaneously when the pen resets.

   After the reset is done, the pen vibrates.
3. Remove the paper clip and replace the cap.

■ Changing the ink cartridge of the pen

To change ink cartridges with the built-in tool on the top of the pen cap, See Figure 5 (1-4):

Copyright © 2003 Nokia. All rights reserved.

1. Place the pen tip in the hole on the cap (1 and 2).

Copyright © 2003 Nokia. All rights reserved.

2. Tilt the cap slightly and take out the ink cartridge by pulling the cap away. Dispose of the ink cartridge properly (3).

3. Gently slide a new ink cartridge into the pen until it cannot be pressed in any further (4).

You can get ink cartridge refills at local office supply retailers. Use only ink refills that are ISO 12757-2 DOC compliant.

Note: Make sure that you slide the new ink cartridge in the correct hole.

Copyright © 2003 Nokia. All rights reserved.

5. Battery information

■ Charging and Discharging

Your device is powered by a rechargeable battery.

Note that a new battery's full performance is achieved only after two or three complete charge and discharge cycles!

The battery can be charged and discharged hundreds of times but it will eventually wear out. When the operating time is noticeably shorter than normal, it is time to buy a new battery.

Unplug the charger when not in use. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its lifetime. If left unused a fully charged battery will discharge itself over time.

Temperature extremes can affect the ability of your battery to charge.

Use the battery only for its intended purpose.

Never use any charger or battery which is damaged.

Leaving the Digital Pen in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59° F and 77° F). Digital Pen with a hot or cold battery may temporarily not work, even when the battery is fully charged. Batteries' performance is particularly limited in temperatures well below freezing.

Copyright © 2003 Nokia. All rights reserved.

CARE AND MAINTENANCE

Your device is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfil any warranty obligations and to enjoy this product for many years.

- Keep the device and all its parts and accessories out of the reach of small children.
- Keep the device dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the device in dusty, dirty areas. Its moving parts 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 it warms up (to its normal temperature), moisture can form inside, which may damage electronic circuit boards.
- Do not attempt to open the device. Non-expert handling may damage it.
- Do not drop, knock or shake the device. Rough handling can break internal circuit boards.
- 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 only the supplied or an approved replacement antenna. Unauthorised antennas, modifications or attachments could damage the device and may violate regulations governing radio devices.

All of the above suggestions apply equally to your device, battery, charger or any accessory. If any of them is not working properly, take it to your nearest qualified service facility. The personnel there will assist you and, if necessary, arrange for service.

Copyright © 2003 Nokia. All rights reserved.