



OPTIMIZING PROCESSES

topSPEECH-Lydia[®]-PDA

User manual

VOXter[®] WL-BT 1006

topSPEECH-Release 5.x or higher

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1 Operating the VOXter®

1.1 Introduction

The VOXter® is a small mobile computer specially optimised for use with speech-guided logistics applications. The VOXter® is connected to a server via radio network. This server transmits picking order data to the mobile device, which is then forwarded to the picker via speech output. Each finished work step is then confirmed by the picker with a spoken return, which is again translated into data and transmitted back to the server.

For communicating with the VOXter®, the picker is equipped with a headset combining a headphone and a microphone.

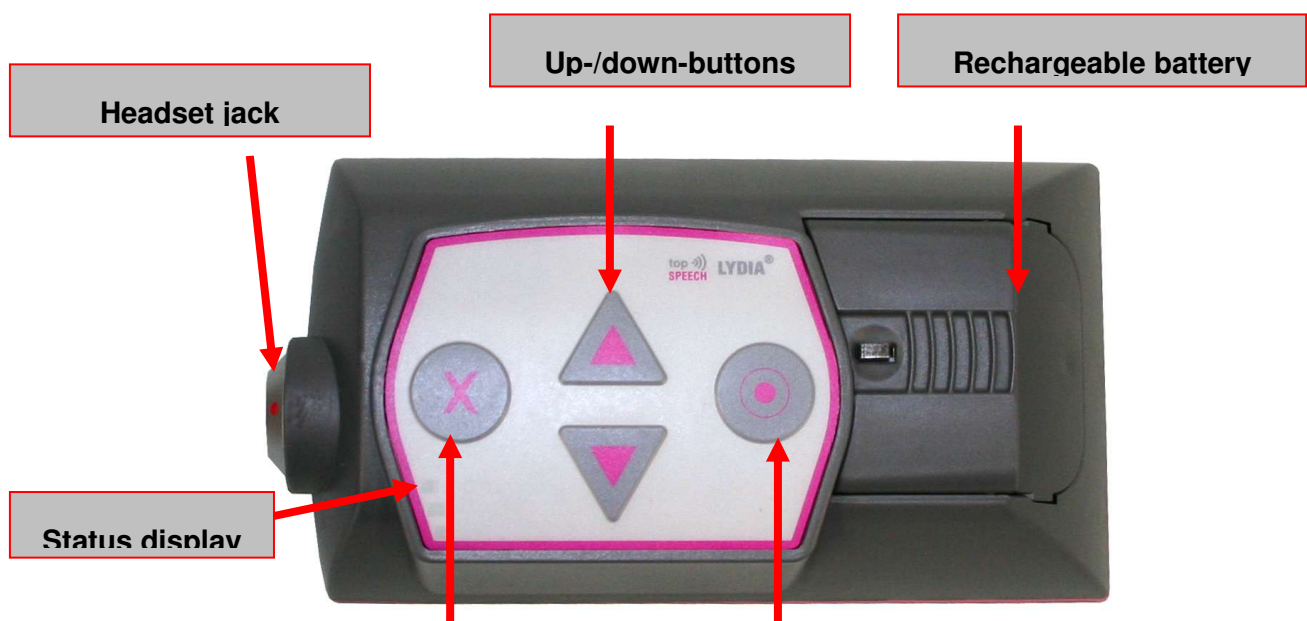
A constant radio connection between Pocket-PC and server is not necessarily required for the complete picking procedure.

This user manual contains all necessary information for operating the VOXter®.

1.2 Overview

The basic functions of the VOXter® can be accessed with the buttons provided on the front side of the device. In addition to these buttons, a status display is also available here.

The following figure shows the basic operating elements of the VOXter®:



Select button**On-/off switch**

1.3 Fastening and carrying the VOXter® during work

On the bottom side of the VOXter®, a clip is attached which is used for fastening the device to a belt. Make sure the device is safely attached in a proper position and cannot move or drop during work.

1.4 Connecting the headset

Before you can start working with the VOXter®, the headset has to be connected. The headset jack is on the top side of the device. Both jack and plug are marked with a red dot. The cable is connected properly when both dots are positioned adjacent to each other.




Figure 1: Headset plug and jack




Figure 2: Properly connected headset

2 Basic functions of the VOXter®

2.1 Switching the device on

The VOXter® is switched on by pressing the On/Off switch  on the front of the device. The device is booting when the middle light (of the three status lights) starts flashing green.

2.2 Switching the device off

The VOXter® is switched off by pressing the On/Off switch  on the front of the device for at least three seconds. The device has been switched off when none of the status lights is active.

2.3 Volume control


You can change the volume setting at any time while working with the picking application, by using the arrow buttons on the front side.

- ◆ The volume is turned down by briefly pressing the arrow button pointing downwards.
- ◆ The volume is turned up by briefly pressing the arrow button pointing upwards.





Figure 3: Volume control

2.4 Acoustic info button

You can request an acoustic information about which program is currently running on your VOXter® by briefly pressing the On/Off switch . A speech output will inform you which software is currently active.

2.5 Mute switch

You can switch off the headset microphone if no speech input will be necessary for a longer period of time.

- ◆ The microphone is switched to mute mode by pressing the Select button  for about three seconds. The middle lamp of the status display will now show a continuous red light.
- ◆ To re-activate the microphone, briefly press the Select button . The status light will be switched off.

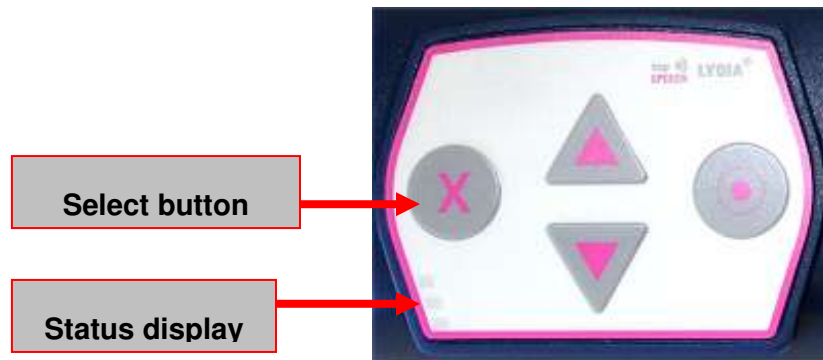


Figure 4: Activating the **Mute** function

Please note that the mute function can only be activated while running the picking application.

2.5.1 Status display

The lamps in the lower left corner of the front side show the power status as soon as the device is switched on. The light signals are as follows:








	Upper LED red, continuous light	The mute function of the VOXter® has been activated. This can only be done in the picking application.
	Middle LED red, flashing	The battery charging status is below 25%. The VOXter® should be charged after the current picking order has been completed.
	Middle LED green, flashing	VOXter® is ready for work; the battery is charged.
	Lower LED green, continuous light	The lower LED shows a continuous light as long as the VOXter® is connected to the charging station and is being charged.
	Lower LED green, flashing	The lower LED shows a flashing light when the VOXter® is connected to the charging station and is fully charged.
	Lower LED red continuous light	A problem has occurred while charging the battery. Please remove the battery and place it in the charging station again.
	Lower LED red, flashing	The allowed temperature for charging the battery was exceeded. The temperature for charging has to be between 0°C/32°F and 40°C/104°F.

Table 1: Status display

3 Power supply of the VOXter®

The VOXter® is powered by a rechargeable lithium-ion battery allowing an operating time of about ten hours.

A spoken warning is issued automatically via headset if the power gets low during work. If the battery charging status is below 25% the LED in the middle shows a flashing red light.

As soon as you recognize the low battery status please make sure the power supply is re-established as soon as possible by inserting a charged battery or by placing the VOXter® in the charging station.

At the end of each shift, always connect the device to the charging station in order to recharge the battery to its full capacity! Make sure you only use fully charged devices at the beginning of a shift.

3.1 Safety instruction

Please be aware of the following safety instructions to ensure that the product quality is not impaired:

- ➔ Make sure you only use the charging station that belongs to the lithium-ion battery.
- ➔ Make sure that the ambient temperature during the charging process may not be lower than 0°C/32°F and not higher than 40°C/104°F. If the temperature is higher than 40°C/104°F the charging process may be delayed because the device could be heated up from work.
- ➔ Make sure that the ambient temperature for the charging station is not lower than 10°C/50°F and not higher than 27°C/80°F.
- ➔ Discharged batteries should not be stored for a longer period (>30 days).
- ➔ Batteries that are charged 100% should not be stored for a long period (six month).

Using the lithium-ion battery you should pay attention to the following safety instructions.

Do not crush the battery

Do not heat or incinerate the battery

Do not short-circuit the battery

Do not dismantle the battery

Do not immerse the battery in any liquid it may vent or rupture

3.2 Replacing the battery

For changing the battery, proceed as described below:

- ◆ Unlock the battery that you want to change. Resolve the adjustment of the battery by pressing the release latch on the top (Figure 5). Keep the latch pressed down and remove the battery carefully (Figure 6).



Figure 5: Release latch of the VOXter®



Figure 6: Remove the battery

- ◆ Replace the removed battery with a fully charged one. Make sure the new battery is mounted in the proper position allowing the electric contacts to connect.
- ◆ As soon as the new battery is in the right position the LED in the middle shows a flashing green light.

3.2.1 Charging the battery

After the empty battery has been removed, it can be placed in the charging station to recharge it. Make sure the electric contacts of battery and charging station are properly connected (Figure 7)!







Figure 7: Charging station



Figure 8: Charging station with battery

Once the battery is properly connected to the charging station, the charging status is checked automatically.

On the front side of the charging station, a status lamp indicated the charging status of the battery (Figure 8). Following status are shown:

	green	The battery is being charged. It should not be removed during this process.
	green flashing	The charging process has finished and the battery is ready to be used again.
	red	A problem has occurred while charging the battery. Please remove the battery and place it in the charging station again.
	red flashing	The allowed temperature for charging the battery was exceeded. The temperature for charging has to be between 0 °C/32F and 40 °C/104F.

3.3 Charging the battery with the VOXter®

It is possible to charge a battery without removing it from the VOXter®. For charging the battery, place the VOXter® in the charging station. Make sure the electric contacts of both devices are properly connected.

While charging the VOXter® in the charging station the backup battery of the VOXter® is recharged too. Therefore it is necessary to place the VOXter® in the charging station regularly e.g. at the end of each shift.



Figure 9: Charging station



Figure 10: VOXter® connected to charging station

As soon as the contact is established, the lower LED shows a continuous green light, confirming the start of the charging process. An overview of all light signals concerning the charging status is given in Table 1.

At the end of shift the VOXter® should be placed in the charging station, to make sure that the battery of the VOXter® is being charged during the rest period.

4 General Operations with the VOXter®



4.1 Logging-in for work

Before you can start working with the VOXter®, you have to authorise yourself via log-in. Depending on the system settings the logging-in is done via voice or keyboard. During the introduction of the system you will be informed what kind of log-in procedure is used.

When you perform a speech training or a speech test on the VOXter® the log-in procedure is performed on the PDA used for the training or the test.


4.1.1 Logging-in via voice



The logging-in via voice is done as described below:

- ◆ Switch the VOXter® on by pressing the on-/off button .
- ◆ Now you hear a speech information via headset stating which feature of the start menu is currently selected. Depending on the settings, multiple applications might be available to choose from.
- ◆ Press the button with the arrow pointing downwards to browse through the available menu entries.
- ◆ When the program you want to start is announced, press the Select button .
- ◆ Now the user identification is started. Enter your ID per voice through the microphone of your headset. Please notice that you have to enter single digits. The user ID 123 is entered by saying "one two three".
- ◆ You are asked to confirm the entered user ID. Just confirm by saying "OK". Use "Cancel" if you want correct the user ID.

4.1.2 Logging-in per keyboard

The logging-in per keyboard is done as described below:


- ◆ Switch the VOXter® on by pressing the on-/off button .
- ◆ Now you hear a speech information via headset stating which feature of the start menu is currently selected. Depending on the settings, multiple applications might be available to choose from.

- ◆ Press the button with the arrow pointing downwards to browse through the available menu entries.
- ◆ When the program you want to start is announced, press the Select button .
- ◆ Now the user identification is started. Use the button with the arrow pointing downwards to browse through the list until your name is announced. Select your personal log-in by pressing the Select button .

4.2 Logging-off after work

There are different log-off procedures for the individual applications which are available for the VOXter®. The following log-off procedures are commonly used.

4.2.1 Logging-off from speech training

After finishing a speech training, the application can be closed by pressing the Select button  for about three seconds. After the application has been shut down, the announcement from the start menu will be issued again.

4.2.2 Logging-off from picking application

After the last picking order has been executed, the picking application is closed by uttering the command "Finish work". After the application has been shut down, the announcement from the start menu will be issued again.

5 Speech Training with the VOXter®

If your employees are using the speaker-independent solution of topSPEECH Lydia® PDA, you will not have to perform a speech training with him/her.

Speech training is necessary to optimise the speech recognition of employees who speak with a strong dialect or accent.

5.1 Speech Training with a PDA



To carry out speech training you need a VOXter® and a PDA to run the topSPEECH-Lydia® speech trainer. The training is performed as described below:

- ◆ First, the user has to start the training on the VOXter® by selecting the item "speech training" in the main menu.

- ◆ Establish a connection between PDA and VOXter®. At first start the speech trainer on the PDA by tapping the button **Trainer** in the main menu.
- ◆ Next enter the ID of your employee and tap the button **Remote**.
- ◆ Now enter the IP address of the VOXter® to which the connection should be established and then tap the button **OK**.
- ◆ Log-in your employee by tapping the button **Login** and start the program Word Training.
- ◆ Perform the speech training as described in the manual *ts_5x_User_Manual_Trainer_5_2_eng.pdf*.

5.2 Allowing connection to CoPilot

If you want to attend the picking application in cooperation with a CoPilot, you first have to allow a connection to be established.

- ◆ When a CoPilot tries to connect to your VOXter®, you will hear the request “Allow connection to CoPilot?”.
- ◆ To allow the connection, press the Select button  briefly.
- ◆ The connection can be refused by pressing the Select button  for about three seconds.
- ◆ As soon as the connection to the CoPilot has been established, you will be informed by a spoken announcement.

6 Care instructions

The VOXter® is a robust and sturdy device specially developed for use in rough warehouse environments. Nevertheless, it is not unbreakable and requires a certain care in handling.

6.1 Avoid extreme environmental exposure

To a certain degree, the VOXter® is protected against water, dirt and dust. Nevertheless, the device should be protected against any pollution as good as possible.

This is especially to be regarded when storing or recharging the device.




6.2 Avoid shocks or impacts




Please make sure the VOXter® is always properly attached to your belt (or other fastening device) to avoid dropping the Pocket PC. Also take care not to bump it against any hard objects (walls, shelves etc.).









7 Technical information about VOXter®

Radio	Wi-Fi (802.11b), Bluetooth
Operating system	Windows CE 5.0
Processor	Intel® XSCALE PXA270 (520 MHz)
Memory	64 MB SDRAM
Power	rechargeable lithium-ion battery, 4000 mAh
Operating temperature	- 20 °C to 40 °C / -4 °F to 104 °F
Storage temperature	- 20 °C to 40 °C / -4 °F to 104 °F

8 Appendix I - Overview of selection menus

Start menu	
"You are currently in the start menu. Selection will start the picking application"	
	Browse to the next menu entry
	Selection of application
	Browse to the previous menu entry

Log-in Alternative I	
"Staff member No. 1 2 3"	
(The complete number of the staff member is announced)	
	Browse to the next menu entry
	Selection of personal ID
	Browse to the previous menu entry

Log-in Alternative II	
"Staff member No. 1 2 3"	
(The digits of the staff member number are selected individually)	
 or 	Press briefly: Browse to the next or the previous entry to select the first digit.
	Press briefly: Select the digit currently announced
 or 	Press briefly: Browse to the next or the previous entry to select the next digit.
	Press long time to log-in.
 or 	Press long time: to delete the last digit that was selected.

