PHILIPS

SpeechMike

User manual

SpeechMike Premium (LFH3510, LFH3610)

Table of Contents

1. Important

Do not make any adjustments and modifications that are not described in this manual. Follow all safety instructions to ensure proper operation of the device. The manufacturer assumes no liability for damages resulting from non-compliance with the safety instructions.

View this user manual online:

help.speechmike.com/lfh3510

Safety instructions

- Protect the device from rain and liquids to prevent damage to the device or a short circuit.

- Do not expose the device to excessive heat caused by placing it on a heating device or in direct sunlight.

- Protect the cables from damage by being trapped, particularly at the plugs and where cables exit the housing.

- Do not perform any maintenance operations that are not described in this user manual. Do not disassemble the device into its component parts to carry out repairs. The device may only be repaired in authorized service centers.

- All wireless devices may be susceptible to interference, which could affect performance.

- Back up your data and recordings. The manufacturer's warranty does not cover loss of data resulting from user actions.

SpeechMike Barcode

> ⚠️ **CAUTION**
>
> Class 1 laser product
>
> This product complies with:
>
> - 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.
> - EN60825-1:1994 + A1:2002 + A2:2001
> - IEC60825-1:1993 + A1:1997 + A2:2001
>
> The laser classification is marked near the scanner window on the product.

Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

> ⚠️ **CAUTION**
>
> Do not try to open the unit. Allow only authorized service technicians to repair the unit. Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

Small children

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

Compliance with EMF

Koninklijke Philips N.V. manufactures and sells many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals. One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products. Philips is committed to develop, produce and market products that cause no adverse health effects. Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today. Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.

Cleaning and disinfection

- Before cleaning, disconnect all cables from the device.

- To clean the device, use a soft dry cloth.

- To disinfect the device, use products for disinfection of surfaces in clinical areas and patient care equipment, such as surface disinfectant wipes.

- Do not use harsh chemicals or strong detergents.

- Avoid getting moisture in openings.

- Do not rub or strike the surface with anything hard or sharp as this may scratch or damage the surface permanently.

Disposal of your old product

A crossed-out wheeled bin symbol attached to a product indicates that the product is covered by the European Directive 2011/65/EU. Please get informed about the local separate collection system for electrical and electronic products. Please act according to your local rules and don't dispose of your old products with your normal household waste. Correct disposal of your old product helps to prevent

potential negative consequences for the environment and human health.

About this user manual

Find a quick overview of your device on the next pages. For detailed description, see the following chapters of this user manual. Read the instructions carefully.

Symbols used

> **TIP**
> This symbol identifies information that helps you to use your device more efficiently and simply.

> **NOTE**
> This symbol indicates notices which you should observe when handling or operating the device.

> ⚠ **CAUTION**
> This symbol warns of damage to the device and possible data loss. Damage can be caused by improper handling.

2. Your SpeechMike

We are delighted that you have chosen a Philips device. Visit our website for comprehensive support, such as user manuals, software downloads, warranty information and more: www.philips.com/dictation.

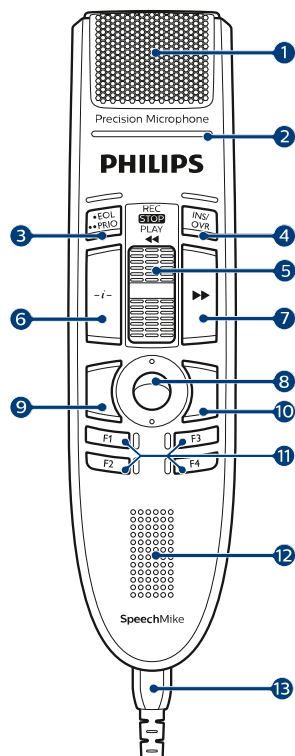## What's in the box

Dictation micro–
phone

USB cable

Quick start
guide

Overview

1. Microphone
2. Record indicator light
3. • EOL end-of-letter key,
   •• PRIO priority key
4. INS/OVR Insert/overwrite key
5. Slide switch
   - • REC record
   - • STOP stop
   - • PLAY play
   - • ◀ rewind
6. Instruction
7. ▶ Fast forward key
8. Trackball, left mouse button
9. Left mouse button
10. Right mouse button
11. F1, F2, F3, F4 Programmable function keys
12. Speaker
13. USB cable
14. Barcode scanner (LFH3610 only)
15. Scan button (LFH3610 only)
16. Left mouse button
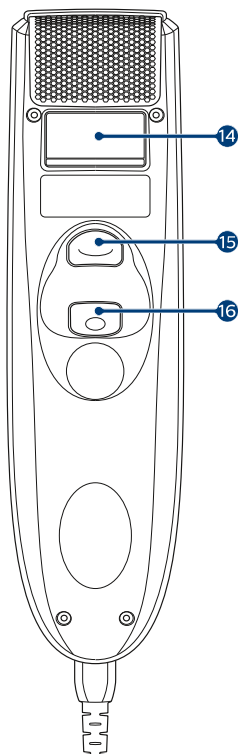
3. Get started

> ⚠ **CAUTION**
>
> Before you connect the device, first read the
> Safety instructions [3].

Installation

1. Turn on the computer.
2. Connect the dictation microphone to the computer using the USB cable.
3. The New Hardware Found message is displayed and installation will proceed automatically.

> 🗈 **NOTE**
>
> Using SpeechMike with third-party dictation software other than Philips SpeechExec requires the installation of additional software like SpeechControl (Philips Device Control Center). You can download the latest version from our website: https://www.dictation.philips.com/speechcontrol.

4. Use your SpeechMike

This chapter describes how to use the SpeechMike with Philips SpeechExec dictation software. If the SpeechMike is used with thirdparty software other than Philips Speech-Exec, some features may not be present or function differently. For detailed information, refer to the documentation delivered with the software.

Create a recording

1. The dictation microphone must be connected to the computer with the USB cable.

2. Start SpeechExec dictation software.

3. Move the slide switch to the REC position to create a new recording and start speaking.
   - The recorder window is displayed.
   - The record indicator light glows in red (in overwrite mode) or green (in insert mode) while recording.

4. To stop recording, move the slide switch to the STOP position.

5. Press the · EOL/· · PRIO key to mark the recording as finished.
   - The dictation file is moved to the Finished dictations folder.
   - The recorder window closes and the work list window is displayed.

6. To assign priority status to the recording, press the · EOL/· · PRIO key again within half a second.

> 📝 **NOTE**
>
> For best results, speak clearly and keep the microphone about 10 to 15 centimeters (4 to 6 inches) away from your mouth.

Use the bar-code scanner (LFH3600/3610)

- Press the scan button and scan the barcode. When a barcode is recognized, the SpeechMike will beep and the barcode information is inserted into the currently active application as if the barcode number is typed in digit by digit.

> 📝 **NOTE**
>
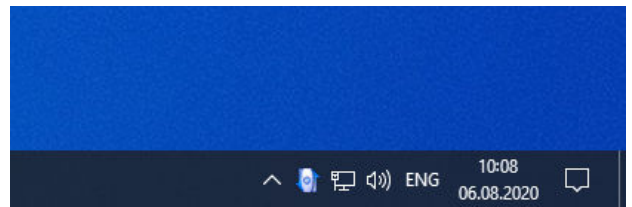> The barcode scanner allows barcode scanning from a distance of up to 60 cm / 23 inches.

Customize the SpeechMike

Use the Device Control Center software to customize the SpeechMike to suit individual user needs.

The software allows to assign different functions to each key, enable or disable certain features and also to start and control applications with the SpeechMike.

Customize SpeechMike keys and settings

1. The dictation microphone must be connected to the computer with the USB cable.

2. Download and install the latest version of Speech-Control (Philips Device Control Center) from https://www.dictation.philips.com/speechcontrol.

3. Start Philips Device Control Center:
   - If the option to start the Philips Device Control Center automatically was selected during installation, open the program by clicking the 🔧 icon in the notification area of the Windows task bar.


   - To manually start the program, open the Windows start menu in Windows and select Philips Speech Control > Philips Device Control Center.

   The current settings are automatically downloaded from the connected SpeechMike.

4. On the **Device** tab, configure device settings and select the function to be assigned to each key.
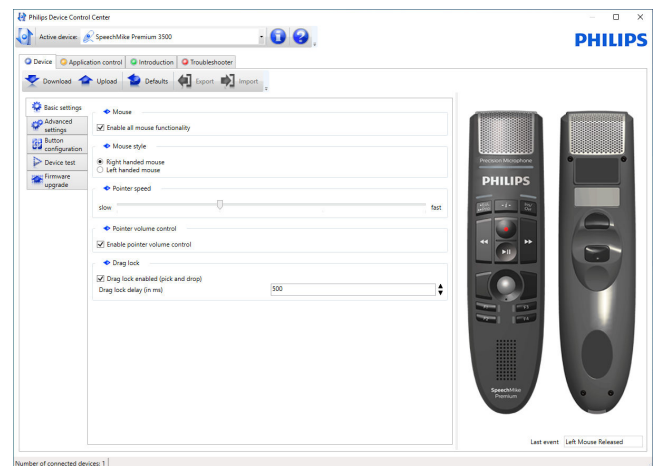
5. Click the **Upload** button to save the new settings.

8
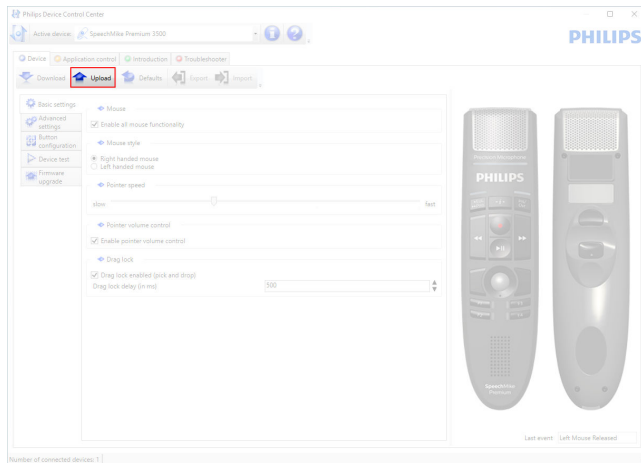
NOTE

The SpeechMike can be reset to its factory default configuration by clicking the **Defaults** button. Click the **Upload** button to save the default settings.

TIP

- To test settings and key functions, use the **Device test** section on the **Device** tab.
- Press and hold the left and right mouse button on the SpeechMike simultaneously until the LEDs flash to activate and deactivate all mouse functions.

Use application shortcuts

The Device Control Center software allows to start and control other applications with the keys on the SpeechMike.

The Device Control Center software includes pre-installed profiles that make the SpeechMike ready for immediate operation with Dragon NaturallySpeaking speech recognition software and Microsoft Powerpoint. Additional profiles for other applications can be programmed.

1. Download and install the latest version of SpeechControl (Philips Device Control Center) from https://www.dictation.philips.com/speechcontrol.

2. If the option to start the Device Control Center automatically was selected during installation, the application 🔧 icon appears in the notification area of the Windows task bar.
   To manually start the program, open the Windows start menu in Windows and select Philips Speech Control > Philips Device Control Center.

3. Right-click on the application 🔧 icon in the notification area of the Windows task bar and verify that **Activate application control** is enabled. If the option is disabled, the configured settings and buttons will not function for any of the target applications.
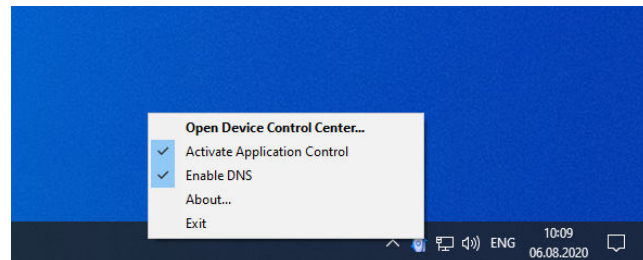
NOTE

Exit Philips SpeechExec software when using application shortcuts to prevent unintentional recording when controlling other applications.

Default profile

The default profile is applied automatically when there is no profile assigned to an application in focus. This profile is set up to control Dragon NaturallySpeaking with your SpeechMike. The following settings are defined:

SpeechMike key	Assigned shortcut
REC Record	Record
PLAY Play	Play from cursor position
◀◀ Rewind	Move cursor backwards
▶▶ Fast forward	Move cursor forwards
• EOL/•• PRIO	Mark backwards
INS/OVR	Open correction window

Powerpoint profile

Use this profile to control Powerpoint presentations with the SpeechMike. The following settings are defined:

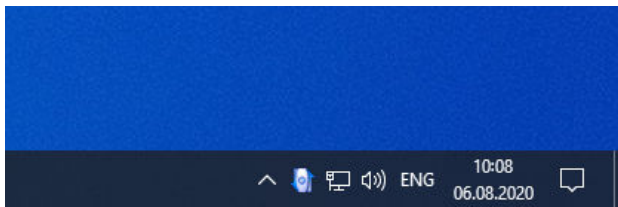| SpeechMike key	Assigned shortcut
REC Record	Black screen
PLAY Play	White Screen
◀◀ Rewind	Go to previous slide
▶▶ Fast forward	Go to next slide
• EOL/•• PRIO	End slide show
INS/OVR	Show/hide cursor

NOTE

Philips cannot guarantee the proper function of all assigned shortcuts, since shortcuts can differ among versions and languages.

Program a custom profile

It is possible to program shortcuts for other applications to control application functions with the keys of the SpeechMike.

1. The dictation microphone must be connected to the computer with the USB cable.

2. Download and install the latest version of Speech-Control (Philips Device Control Center) from https://www.dictation.philips.com/speechcontrol.

3. Start Philips Device Control Center:
   · If the option to start the Philips Device Control Center automatically was selected during installation, open the program by clicking the 🎤 icon in the notification area of the Windows task bar.

   · To manually start the program, open the Windows start menu in Windows and select Philips Speech Control > Philips Device Control Center.

4. On the tab **Application control**, click the **Add** button to create a new profile.
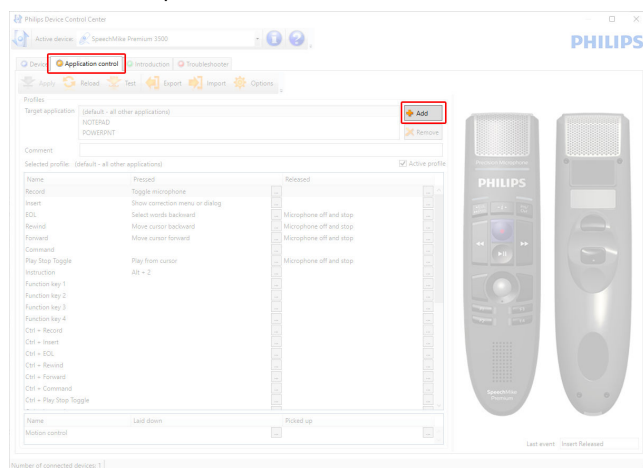

5. Browse and select the application executable and click on **Open**. A profile for the selected application will be added to the list of profiles.
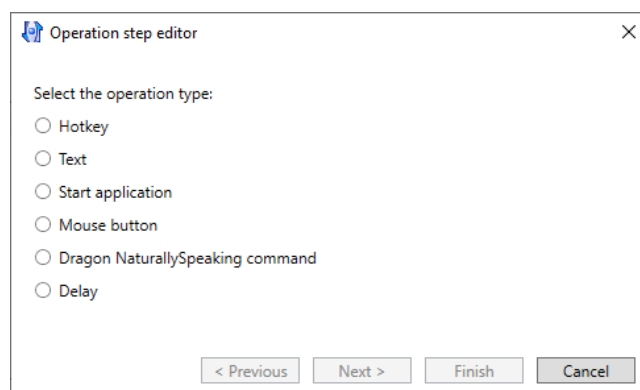
> 📝 **NOTE**
> Exit the target application during configuration. Open the application when the device configuration settings are saved.

6. Select a button from the button column and click the ⋯ icon to assign a shortcut. You can assign different shortcuts for pressing and releasing a key.
   The shortcut editor window is displayed.
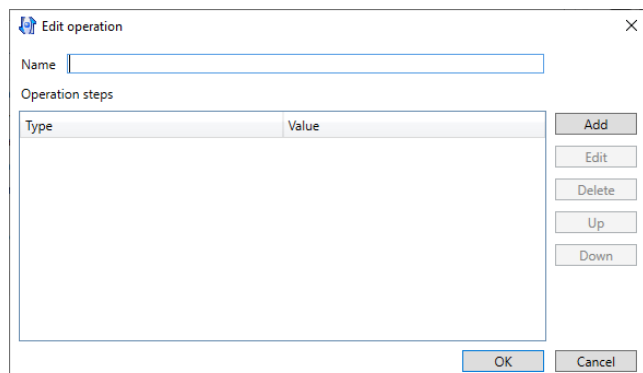
7. Enter name for the shortcut and click the **Add** button to add an operation for the shortcut. The following options are available:
   · **Hotkey**: Assign a keyboard shortcut
   · **Text**: Enter the text to be inserted when a key on the SpeechMike is pressed
   · **Start application**: Start an application by pressing a key on the SpeechMike
   · **Mouse button**
   · **Dragon NaturallySpeaking command**
   · **Delay**

8. You can add one operation or a sequence of operations for every shortcut.

9. Click the **Finish** button to save the new settings.

> 📝 **NOTE**
> The Device Control Center cannot be used to program application shortcuts for Philips SpeechExec software. Shortcuts for Philips SpeechExec can be configured in the General settings menu of SpeechExec. See the SpeechExec application help for more information.

> 💡 **TIP**
> Application control configuration settings can be saved into files and imported later to apply the same configuration settings to several devices.

Use the motion sensor

The SpeechMike features an integrated motion sensor that detects when the device is put on the table and is being picked up again. The motion sensor can mute and unmute the microphone automatically or custom functions can be programmed, e.g., to pause and to continue recording. Use the Device Control Center software to enable automatic muting of the microphone (**Device** > **Advanced settings** > **Microphone motion control**) or to program custom functions (**Application control** tab).

Updating your device

Your device is controlled by an internal program called firmware. As a part of ongoing product maintenance, the firmware is upgraded and errors are corrected.

It is possible that a newer version (an 'update') of the firmware has been released since you purchased the device. In this case, you can easily update your device to the latest version.

Use SpeechControl (Philips Device Control Center) to upgrade the firmware of your device. You can download the latest version of the application here: https://www.dictation.philips.com/speechcontrol. Please follow the steps outlined below to upgrade your device.

📝 **NOTE**
Firmware updates are not supported on ChromeOS.

To upgrade your device:

1. The dictation microphone must be connected to the computer with the USB cable.

2. Start Philips Device Control Center:
   - If the option to start the Philips Device Control Center automatically was selected during installation, open the program by clicking the 🎙 icon in the notification area of the Windows task bar.
   - To manually start the program, open the Windows start menu in Windows and select Philips Speech Control > Philips Device Control Center.
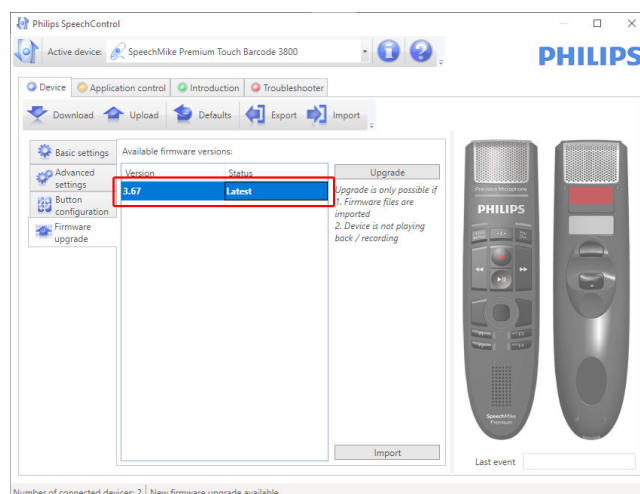
   📝 **NOTE**
   Make sure that you're using the latest version of Philips Device Control Center.

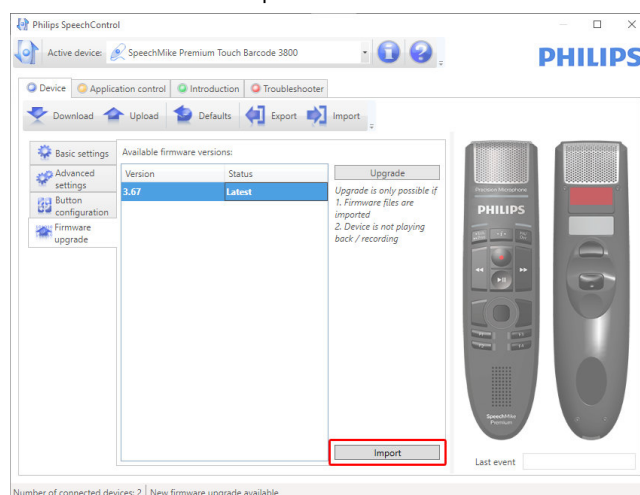3. On the **Device** tab, click on **Firmware upgrade**.
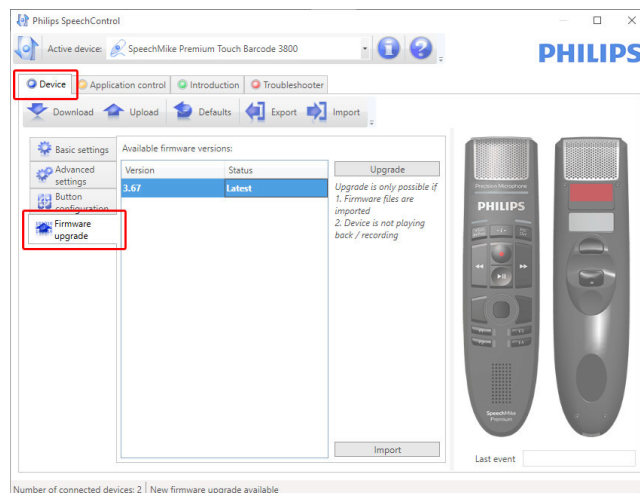
4. Click on the desired upgrade version from the **Available firmware versions** list.
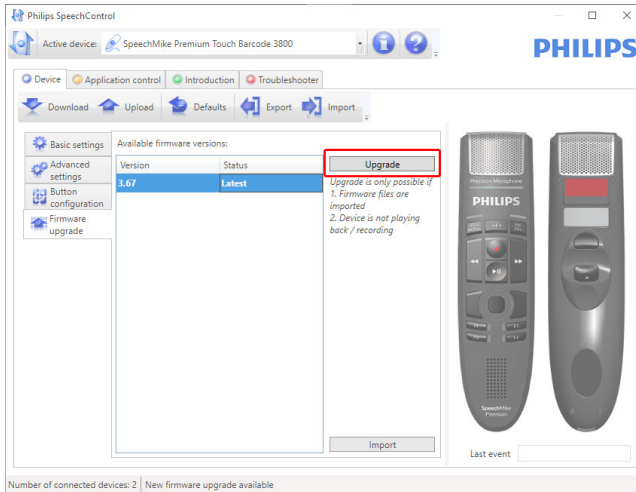

If the **Available firmware versions** list is empty, you can also manually check our website for firmware upgrades. Download the firmware update for your SpeechMike model from www.philips.com/dictation.
Click the **Import** button and select the folder with the firmware files to be imported.

5. Click the **Upgrade** button.

6. Choose **Yes, upgrade the device** to install the new firmware.

   · The firmware upgrade takes about 30 seconds.
   · During firmware upgrade the indicator lights of the SpeechMike will be flashing.

> ⚠ **CAUTION**
>
> Do not disconnect the dictation microphone from the computer during firmware upgrade. This might damage your product.

Configure the bar-code scanner (LFH3600/3610)

The SpeechMike barcode scanner is preconfigured with the keyboard language US English and the suffix "carriage return" (CR). Before using the barcode scanner for the first time, it is necessary to adapt it to your local keyboard language:

1. Download the installation package from: https://www.dictation.philips.com/speechcontrol

2. Unzip the file and navigate to `Tools > Barcode Configuration` in the unzipped files.

3. To change the scanner configuration, start the application `Barcodeconfig.exe`.

For information about customizing the barcode module, refer to the Barcode Scanner configuration guide.

Supported shortcuts

You can activate/deactivate some functions of your SpeechMike by pressing certain key combinations:

| Function	Short-cut	Hold buttons for:	Indication
Deactivate/activate the disable screen saver function. When this shortcut is active, the SpeechMike automatically slightly moves the mouse pointer every 30 seconds to prevent a screen saver from activating.	Track-ball/Touch navigation + Left mouse button	5 seconds	All F-LEDs light up for 0,5 seconds and the device beeps
Deactivate/activate trackball/touch navigation and mouse buttons. With this shortcut, you can turn off/on the trackball or touchpad navigation as well as the left and right mouse button functions of the SpeechMike. When turned off, it means you can no longer move the mouse pointer with the trackball/touch navigation or use the mouse buttons of the SpeechMike.	Left mouse button + Right mouse button	5 seconds	All LEDs light up for 0,5 seconds and the device beeps
Deactivate/activate the mute motion REC function. When placing the SpeechMike on a desk the microphone is automatically muted. With this shortcut you can turn this function on/off.	F2 + F4	5 seconds	Off → On: The record LED lights up red for 1 second On → Off: The record LED lights up green for 1 second

5. Button modes

With your SpeechMike, you can control various applications on your computer or in your browser. You have different button modes available for this purpose:

- Event mode [14]
- Keyboard mode [15]
- Windows speech recognition mode [16]
- Dragon for Mac mode [17]
- Dragon for Windows mode [18]

You can change the button assignment for each mode in SpeechControl software. For more information, see Customize the SpeechMike [8].

Switch between button modes

You can easily switch between the available button modes:

1. Press the End-of-letter/priority (·EoL/··Prio) button and the Insert/overwrite (INS/OVR) button simultaneously for three seconds.
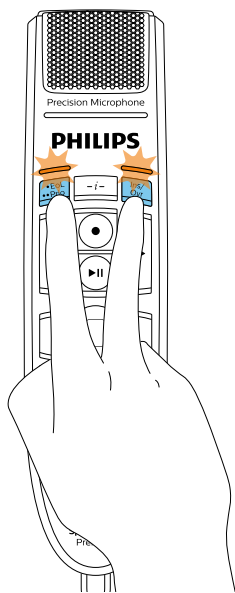
2. All button LEDs simultaneously flash orange.
3. Press the corresponding button for the desired mode. The buttons are assigned to the button modes as follows:

Mode	Button
Event mode	F1
Keyboard mode	F2
Windows speech recognition mode	F4
Dragon for Mac mode	·EoL/··Prio
Dragon for Windows mode	INS/OVR

4. The SpeechMike exits the mode selection and switches to the selected mode.
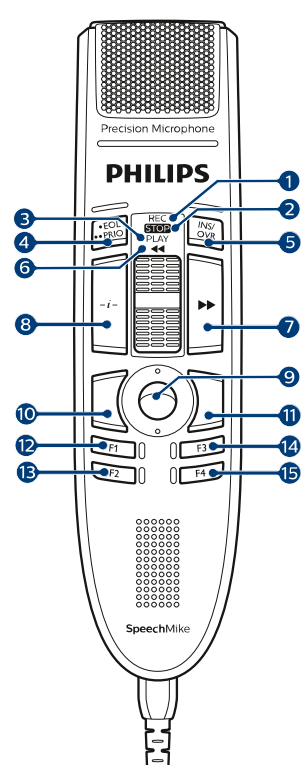
> **TIP**
>
> You can always check your current button mode by briefly pressing the End-of-letter/priority (·EoL/··Prio) button and the Insert/overwrite (INS/OVR) button simultaneously.
>
> The LED of the button assigned to the current mode (see previous table) shortly lights up orange, e.g. if the currently activated mode is the Event mode, the LED of the F1 button lights up orange.

Event mode

The Event mode is the default mode of your SpeechMike. In this mode, each button on your SpeechMike is assigned to a command. In SpeechControl software, you can define which commands should be executed by pressing or releasing a desired button on your SpeechMike in order to control various computer applications.

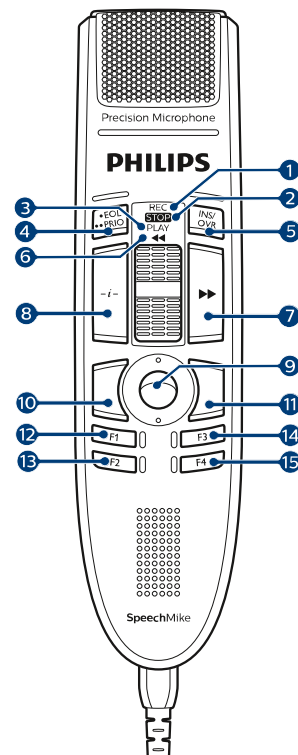| Command	
1	Record
2	Stop
3	Play
4	End-of-letter/priority
5	Insert/overwrite/append
6	Fast rewind
7	Fast forward
8	Instruction
9	Trackball, left mouse button
10	Left mouse
11	Right mouse
12	Programmable function button
13	Programmable function button
14	Programmable function button
15	Programmable function button

Keyboard mode

Assign a button on your SpeechMike to a shortcut you are using on your computer in order to control various computer applications. In SpeechControl software, you can define which commands should be executed by pressing a desired button on your SpeechMike.

In this mode, you can also operate Dragon NaturallySpeaking speech recognition software on a Windows computer by using the pre–configured Dragon shortcuts.
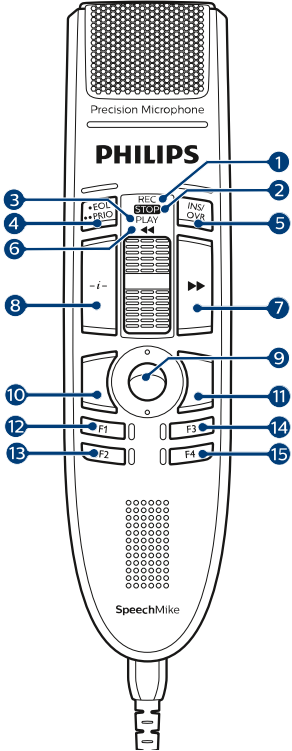
	Command	Shortcut in Speech–Control
1	SpeechMike microphone on/ off	Microphone ON/OFF
2	–	
3	Play	
4	Tab backward	**Shift**+**Tab**
5	Tab forward	**Tab**
6	Fast rewind	
7	Next field (Dragon)	**Ctrl**+**Shift**+**N**
8	Record/Stop (Dragon micro–phone on/off)	**NumKey+**
9	Trackball, left mouse button	
10	Left mouse	
11	Right mouse	
12	Show dictation box (Dragon)	**Ctrl**+**Shift**+**D**
13	Transfer text (Dragon dictation box)	**Ctrl**+**Shift**+**T**
14	Programmable function button	
15	Switch to hidden mode (Dragon Medical Practice Edition)	**Ctrl**+**Shift**+**H**

Windows speech recognition mode

In this mode, you can operate the pre-installed Windows speech recognition software on a Windows computer by using the pre-configured Windows shortcuts.

	Command	Shortcut in Speech-Control
1	Windows microphone on/off	**Ctrl**+**Win**
2	–	
3	–	
4	Tab backward	**Shift**+**Tab**
5	Tab forward	**Tab**
6	Mark previous word(s)	**Ctrl**+**Shift**+**Left**
7	Mark next word(s)	**Ctrl**+**Shift**+**Right**
8	–	
9	Trackball, left mouse button	
10	Left mouse	
11	Right mouse	
12	Copy	**Ctrl**+**C**
13	Cut	**Ctrl**+**X**
14	Paste	**Ctrl**+**V**
15	Programmable function button	
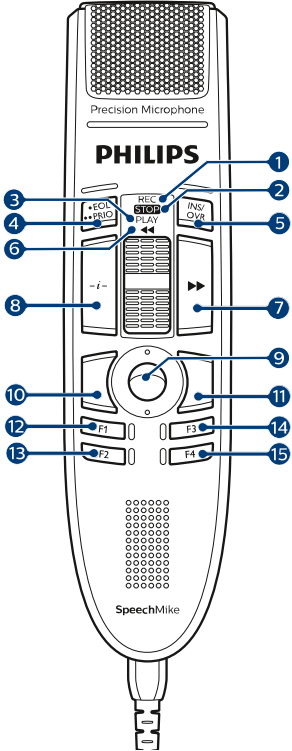
Dragon for Mac mode

In this mode, you can operate Dragon NaturallySpeaking speech recognition software on a Mac computer by using the pre-configured Dragon shortcuts.

	Command	Shortcut in Speech-Control
1	Dragon microphone on/off	⌘+**F11**
2	–	
3	–	
4	Tab backward	**Shift**+**Tab**
5	Tab forward	**Tab**
6	Mark previous word(s)	**Alt**+**Shift**+**Left**
7	Mark next word(s)	**Alt**+**Shift**+**Right**
8	–	
9	Trackball, left mouse button	
10	Left mouse	
11	Right mouse	
12	Copy	⌘+**C**
13	Cut	⌘+**X**
14	Paste	⌘+**V**
15	–	
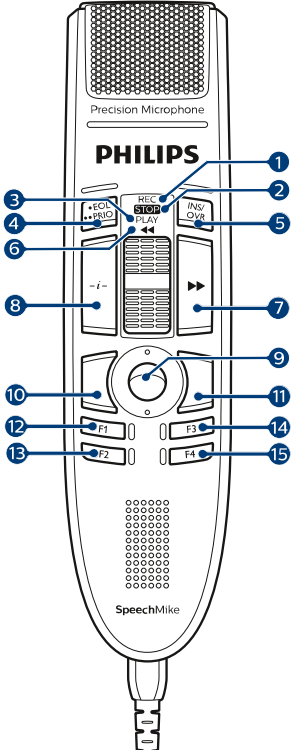
Dragon for Windows mode

In this mode, you can operate Dragon NaturallySpeaking speech recognition software on a Windows computer by using the pre-configured Dragon shortcuts.

	Command	Shortcut in Speech-Control
1	Dragon microphone on/off	**NumKey+**
2	–	
3	–	
4	Tab backward	**Shift**+**Tab**
5	Tab forward	**Tab**
6	–	
7	Next field (Dragon)	**Ctrl**+**Shift**+**N**
8	–	
9	Trackball, left mouse button	
10	Left mouse	
11	Right mouse	
12	Show dictation box (Dragon)	**Ctrl**+**Shift**+**D**
13	Transfer text (Dragon dictation box)	**Ctrl**+**Shift**+**T**
14	Programmable function button	
15	Switch to hidden mode (Dragon Medical Practice Edition)	**Ctrl**+**Shift**+**H**

6. Troubleshooting

Problem	Cause	Solution
The operating system stops responding after restart	Using the Philips SpeechMike together with certain USB hubs may cause the operating system to stop responding when the computer is started.	Unplug the SpeechMike before starting the PC and reconnect it afterwards. We recommend replacing the USB hub or connecting your SpeechMike directly to the USB port of the computer.
The SpeechMike is completely without function	Some computer providers limit the output power of USB ports to 100mA. These ports may not provide enough power for the SpeechMike to function properly.	Connect the SpeechMike via a self-powered hub.
The SpeechMike is connected to the computer but sound will play on the computer's speaker only	SpeechMike is not selected as the default playback device.	In the Windows sound settings, select SpeechMike as the default playback device.
The SpeechMike keeps sending mouse signals to the computer / moves the mouse, even when its not used.	This function is activated per default, to prevent the activation of screen savers / sleep modes whilst recording.	To deactivate this function, press and hold the Left mouse button and the Touch navigation / Trackball (center button) until all four programmable function buttons (F1-F4) light up briefly.

7. Technical data

Connectivity

- USB: Mini-USB 2.0

Audio

- Microphone type: electret condenser microphone
- Microphone cartridge: 10 mm
- Characteristic: uni-directional
- Frequency response: 200 – 12 000 Hz
- Sensitivity: -37 dBV @ 1 kHz
- Signal-to-noise ratio: > 70 dBA

Sound

- Speaker type: built-in round, dynamic speaker. Speaker diameter: 30 mm
- Acoustic frequency response: 300 – 7500 Hz
- Speaker output power: > 200 mW

Barcode scanner (LFH3600/3610)

- Compatible bar codes: EAN, UPC, Code 11 / 39 / 93 / 128, Codabar, MSI Code, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Matrix 2 of 5, Inverse 1D, GS1 DataBar
- Laser class: class 1 laser product

System requirements

- Processor: Intel Pentium 4, 1.0 GHz or equivalent processor
- RAM memory: 1 GB (2 GB recommended)
- Hard disk space: 10 MB for Speech Control, 100 MB for SpeechExec (optional), 250 MB for Microsoft .NET Framework
- Operating system: Windows 10, MacOS
- Free USB port

Green specifications

- Compliant to 2011/65/EU (RoHS)
- Lead-free soldered product

Operation conditions

- Temperature: 5° – 45° C / 41° – 113° F
- Humidity: 10% – 90%

Dimensions

- Product dimensions (W × D × H): 45 × 175 × 32 mm / 1.8 × 6.9 × 1.3 inch
- Weight: 0.200 kg / 0.441 lbs
- Cable length: 2.5 m / 8.2 ft

Design and finishing

- Material: high-class polymers with hygienic surface
- Color(s): dark grey pearl metallic

Accessories

- USB cable
- Quick start guide

8. Certifications

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Philips may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Canadian notice

This Class B digital apparatus meets all requirements of the Canadian Interference- Causing Equipment Regulations.

Avis Canadien

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Declaration of Conformity

Model Number:	LFH3500, LFH3510, LFH3520, LFH3600, LFH3610, LFH3620
Trade Name:	Philips SpeechMike Premium
Responsible Party:	Speech Processing Solutions USA Inc
Address:	10745 Westside Way, Suite 225, Alpharetta, GA 30009, USA
Telephone number:	888-260-6261
Website:	http://www.philips.com/dictation

LFH3500, LFH3510, LFH3520, LFH3600, LFH3610, LFH3620

Tested to comply with FCC standards

FOR HOME OR OFFICE USE
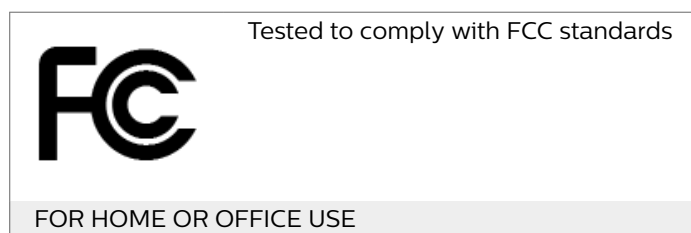
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference. 2)This device must accept any interference received, including interference that may cause undesired operation.

CE Declaration of Conformity

Philips confirms that the product corresponds to the relevant guidelines of the European Union.

Open source software

Products mentioned in this manual may contain open source software.

Speech Processing Solutions GmbH hereby offers to deliver, upon request, a copy of the complete corresponding source code for the copyrighted open source software packages used in this product for which such offer is requested by the respective licenses. This offer is valid up to three years after product purchase. To obtain the source code, please write in English to: info@speech.com.

Neither Speech Processing Solutions GmbH nor its affiliates shall be liable to the purchaser of this product or third parties with respect to claims for damages, losses, costs or expenses incurred by purchaser or third parties as a result of an accident, misuse or abuse of this product or unauthorized modifications, repair, modification of the product or failure to meet the operating and maintenance instructions provided by the manufacturer.

This user manual is a document with no contractual nature. We accept no liability for changes, mistakes or printing errors.

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