

VERSION: 5.2.4

SoundEar®3

MICRO-PC MANUAL – UK

MODEL	300
MODEL	310
MODEL	320
MODEL	310XL

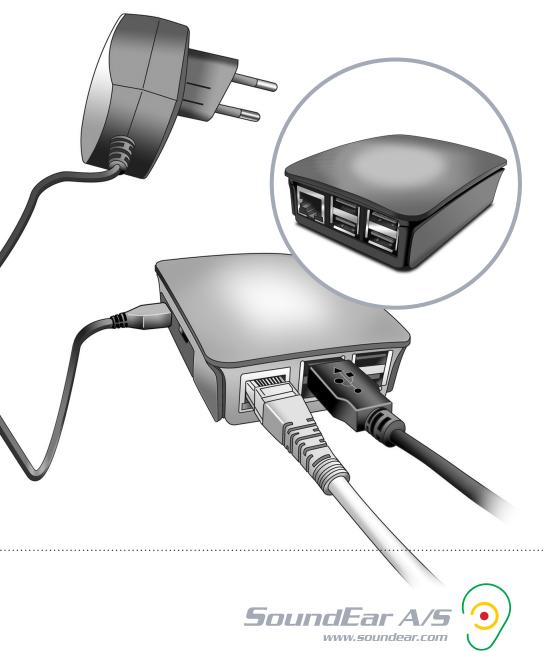


TABLE OF CONTENTS

INTRODUCTION	
CHOOSING YOUR CONNECTION	
SET A NEW SITE ID	4
CONFIGURE YOUR SOUNDEAR®3 DEVICE	
CONNECTING TO EITHER CLOUD BROKER OR LOCAL BROKER	8
How to connect to local broker	8
How to connect to cloud broker	(
My devices: Get an overview	1(
CONNECTING THE DEVICE TO THE SOUNDEAR® MICRO PC	1
How the micro PC works	1
Connecting the micro PC	1
VISUAL START-UP GUIDELINE FOR THE MICRO PC CONNECTION:	14
Connection status	14
START COLLECTING MEASUREMENTS	1!
CHANGING CONFIGURATION ON AN ALREADY CONFIGURED DEVICE	19
REMOVE A DEVICE FROM THE SOFTWARE	20
WIRELESS	2
Export device list	2
Import device list for pre-configured devices	22
DEVICES	2:

This manual describes the functionalities when using SoundEar[®]3 with a Micro PC. For a full description of software functions, such as Library and Light Settings, please consult the main manual.

Important: All measurement data is stored via the software. To collect and log measurements, the SoundEar[®] software must be up and running.

.....



CHOOSING YOUR CONNECTION

Before setting up your SoundEar®3 system, you should decide how you want your SoundEar®3 device(s) to connect to the SoundEar® software. You have two options for using the SoundEar® Micro PC:

 CLOUD BROKER: Use a Wireless network (Wi-Fi/WLAN) to allow your SoundEar[®] 3 device(s) to send data to the SoundEar[®] software on your PC. Choosing this method means that your data will be sent using the SoundEar[®] mqtt server.

 LOCAL BROKER: Use a Local Area Network (LAN) cable to allow your SoundEar[®] 3 device(s) to send data to the SoundEar[®] software on your PC. Choosing this method means that you keep everything in-house, and no measurements will go through an external server.

SET A NEW SITE ID

Before you start configuring your devices, we recommend that you set a new site ID. The site ID is the unique key, which pairs your SoundEar[®]3 devices with the SoundEar[®] software. By default, the site ID will be the PC's mac address. When configuring a SoundEar[®]3 via the software, the device will automatically be configured with the site ID set in the software.

9 SoundEar 9	Ettings Not Connected Time: 00:00:00
	Cloud configuration
Define Settings	Set site ID for this software, and for devices configured by this software for LAN/WIFI connectivity Site ID: 54EE75577B60
∨ MEASUREMENT DATA	Configure the interval of measurements reporting from the devices. Note - this is only how often data is transmitted, not the sample rate of the noise measurement. Refresh rate: 10 sec
∧ SETUP Device Info	Local broker: V 172 © 24 © 225 © 171 ©
My devices Wireless Reporting	Receive an e-mail, if a device stops sending measurements: Email me when no measurements have been received for: 10 🗧 minutes E-mail: Email
About SoundEar 3 User Manual Cloud	Remove
V ADVANC D SETTINGS	Configure
Cloud dev.	
	Define Settings
∨ м	EASUREMENT
	TUP
Device My dev	rices
About User M Cloud	SoundEar 3 Ianual I. Open the software and go to the drop-down menu "SETUP" on the left-hand side and select "Cloud".

SET A NEW SITE ID

	9 SoundEar 9	Settings	→ □ ×
	Define Settings	Cloud configuration Set site ID for this software, and for Site ID: 54EE75577B60	or devices configured by this software for LAN/WIFI connectivity
	V MEASUREMENT DATA	Configure the interval of measurer noise measurement. Refresh rate: 10 sec	ments reporting from the devices. Note - this is only how often data is transmitted, not the sample rate of the
	A SETUP Device Info My devices Wireless Reporting About SoundEar 3 User Manual Cloud	Local broker: 172 172 Receive an e-mail, if a device sto Email me when no measurements E-mail:	
	V ADVANCED SETTINGS Factory Setting Cloud devices		Configure
2.	Choose your own un system.	ique site ID for your	Cloud configuration Set site ID for this software, and for devices configured by this software for LAN/WIF Site ID: 84EF18E06E88
3.	Use the arrows to o rate. The 'Refresh ra how often the Soun be updated with La surements from the	ate' setting controls dEar® software will Aeq 1 second mea-	Configure the interval of measurements reporting from the devices. Note - this is ont noise measurement. Refresh rate: 5 sec + Local broker:
4.	When using a local box 'Local broker'. Y address for the Wi your PC is currently Leave this box unch to use the cloud bro	You will see the IP4 -Fi network, which connected to. necked, if you want	Refresh rate: 5 sec
5.	Enter your e-mail ac alarm e-mail, if one connected from the	of your units is dis-	Receive an e-mail, if a device stops sending measurements: Email me when no measurements have been received for: 10 🖨 minutes
6.	Click on the button your settings.	'Configure' to save	E-mail:

Connect the device directly to the PC, using the micro USB port in the SoundEar®3 and the USB A port on your PC.



A 'pop-up' will be shown on your screen. Choose the tab with the cloud symbol to configure your device to communicate via the SoundEar® micro PC.

Configure device			X
		2	Identify device
	Туре:	SoundEar300	
	Name:	SE3-2011862637	
SoundEar	Unique id:	1997804545	
Settings	Location:	Unknown	
Devices:	Alarm threshold:	94 📄 dB(A) for	1 🛉 sec.
SE3-2011862637	Alarm e-mail:		
	WIFI:		
	DHCP:	\checkmark	
	Site ID:	soundear	
	Local broker 🔽	172 🔹 24 🔹 225 🔹 200 🗢	

CONFIGURING YOUR SOUNDEAR®3 DEVICE

Configure device		X
\bigcirc		Identify device
	Туре:	SoundEar300
	1 Name:	SE3-2011862637
SoundEar	2 Unique id:	1997804545
	B Location:	Unknown
	4 Alarm threshold: 🧿	94 ★ dB(A) for 1 ★ sec.
SE3-2011862637	Alarm e-mail:	
	S WIFI:	
	G DHCP:	
	Site ID: sound	dear
	B Local broker 🚺 172	▶ 24 ▶ 225 ▶ 200 ₽

- 1. NAME: Name your device here. All measurements will be stored using this name.
- **2. UNIQUE ID:** The unique ID of the SoundEar[®]3.
- **3. LOCATION:** Input location for the device.
- 4. ALARM THRESHOLD: Set the alarm threshold and e-mail address, if you want to receive an alarm e-mail when noise levels are exceeded.
- 5. WI-FI: Check the box, if you are using wireless connection. Leave unchecked, if you are using a LAN cable.
- **6. DHCP:** Uncheck "DHCP" to type in your own network settings. When checked, the software will automatically use the settings for the network, which your PC is connected to.

- 7. SITE ID: Unique key, so the device can communicate with the SoundEar[®] software.
- **8.** LOCAL BROKER: Uncheck "Local broker", if you want to use the SoundEar[®] mqtt cloud broker.

CONNECTING TO EITHER CLOUD BROKER OR LOCAL BROKER

You can choose to receive your measurements by either using a local network or using a cloud broker. Using a local broker means that your devices send data to your PC via your local network, without using a cloud service. NOTE! All configuration is done using the SoundEar[®]3 device, which then forwards the configuration to the SoundEar[®] micro PC.

HOW TO CONNECT TO LOCAL BROKER

The second column shows what devices are currently online and sending measurements to the SoundEar[®] software.

Configure device		×
		Identify device
	Туре:	SoundEar300
	Name:	SE3-2011862637
SoundEar	Unique id:	1997804545
Settings	Location:	Unknown
Devices:	Alarm threshold:	94 dB(A) for 1 sec.
SE3-2011862637	Alarm e-mail:	
	WIFI:	
2	DHCP:	
	IP address:	
	Subnet mask:	
	Gateway:	
	Site ID:	soundear
	Local broker	172 • 24 • 225 • 200 •
	1	
		• ОК

- If using a LAN cable, leave the box "Wi-Fi" unchecked. If not, enter the information and password for your local network.
- If the box 'DHCP' is checked, the software will automatically find and use the IP addresses for the network.

If you want to set this information manually, uncheck the box and enter the network information, which you want to use for the device.

- Leave the box 'Local broker' checked (the software will automatically find the IP address for the network to which the PC is connected and use this as its gateway).
- 4. When all configuration is done, click "OK" in the bottom right corner.
 - How to connect to local broker

HOW TO CONNECT TO CLOUD BROKER

Configure device			X
			Identify device
	Туре:	SoundEar300	
	Name:	SE3-2011862637	
SoundEar	Unique id:	1997804545	
Settings	Location:	Unknown	
Devices:	Alarm threshold: 🧿	94 🔹 dB(A) for	1 📮 sec.
SE3-2011862637	Alarm e-mail:		
	WIFI:		
	DHCP:		
	IP address: 0		
	Subnet mask: 0 🛓		
	Gateway: 0 🛓		
	Site ID: sound	lear	
•	Local broker		
	•		
		4	ОК
	<u>_</u>		

\

 Check the box "Wi-Fi" and write the name of the network and password, which will be used by the SoundEar3 device and the micro PC.

If you want to make sure that you have written the correct password, click on the box with the letters 'abc' to see the password.

 If the box "DHCP" is checked, the software will automatically find and use the IP addresses for the network. If you want to set this information manually, uncheck the box and enter the network information, which you want to use for the device.

- 3. Uncheck the box 'Local broker'. The software will then connect to the cloud broker.
- 4. When all configuration is done, click "OK" in the bottom right corner.



How to connect to Cloud broke

MY DEVICES: GET AN OVERVIEW

Define Settings RV1 RV2 WEASUREMENT DATA RV3 RV4 RV4 RV5 Vireless Reporting About SoundEar 3 User Manual Cloud	SoundEar	Settings	
Define Settings RV1 RV2 RV3 RV4 RV4 RV5 Wireless Reporting About SoundEar 3 User Manual Cloud You can go to the menu 'S the devices, connected via			
V MEASUREMENT DATA RV2 RV3 RV4 RV4 RV5 Wireless Wireless Reporting About SoundEar 3 User Manual Cloud VadVanced settrings You can go to the menu 'S the devices, connected via		My devices	
 MEASUREMENT DATA RV3 RV4 RV5 RV5 Reporting About SoundEar 3 User Manual Cloud ADVANCED SETTINGS You can go to the menu 'S the devices, connected via 	Define Settings	RV1	8
RV3 RV4 RV5 RV5		RV2	8
A SETUP Device Info My devices Wireless Reporting About SoundEar 3 User Manual Cloud	V MEASUREMENT DATA	RV3	8
Device Info My devices Wireless Reporting About SoundEar 3 User Manual Cloud		RV4	8
Device Info My devices Wireless Reporting About SoundEar 3 User Manual Cloud V ADVANCED SETTINGS Factory Setting You can go to the menu 'S the devices, connected via	∧ SETUP	RV5	8
Wireless Reporting About SoundEar 3 User Manual Cloud V ADVANCED SETTINGS Factory Setting You can go to the menu 'S the devices, connected via	Device Info		
Reporting About SoundEar 3 User Manual Cloud V ADVANCED SETTINGS Factory Setting You can go to the menu 'S the devices, connected via	My devices 📃 📐		
About SoundEar 3 User Manual Cloud V ADVANCED SETTINGS Factory Setting You can go to the menu 'S the devices, connected via	Wireless		
User Manual Cloud V ADVANCED SETTINGS Factory Setting You can go to the menu 'S the devices, connected via	Reporting	\mathbf{N}	
Cloud V ADVANCED SETTINGS Factory Setting You can go to the menu 'S the devices, connected via	About SoundEar 3		
V ADVANCED SETTINGS Factory Setting You can go to the menu 'S the devices, connected via	User Manual		
Factory Setting You can go to the menu 'S the devices, connected via	Cloud		
the devices, connected via	V ADVANCED SETTINGS		
	Factory Setting		
	Cloud devices	the devices,	connecteu via the

.....

P' and 'My devices' to see network.

NOTE! You can only make changes to the Wi-Fi settings of your SoundEar[®] device, when it is connected to your PC by means of a USB cable. We recommend that you define settings and create your light settings, placing your device.

CONNECTING THE DEVICE TO THE SOUNDEAR® MICRO PC

HOW THE MICRO PC WORKS

After configuring your devices, connect the SoundEar®3 to the micro PC to receive measurements.

.....

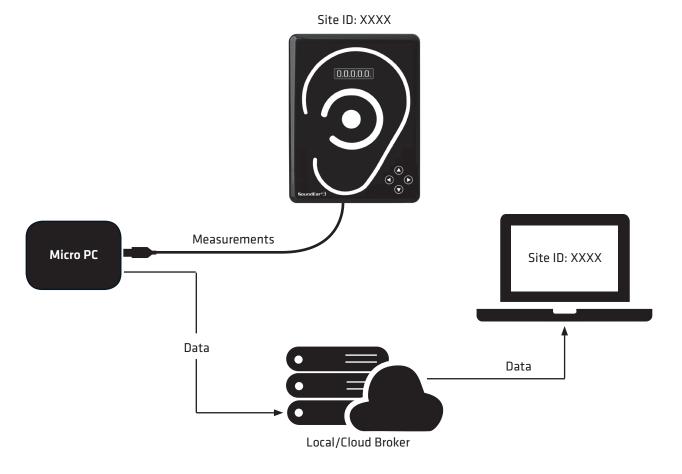
The micro PC turns into a "publisher", when it is connected to a SoundEar®3 device. It sends all the measurements to a Wi-Fi access point via Wi-Fi or LAN (Local Area Network).

All units send their measurement data to either a local broker or a cloud broker, which then again sends the measurements to the receiving PC.

The receiving PC will be able to receive measurements, if the site ID in the software matches the site ID on the specific SoundEar[®]3 unit.



DATA FLOW



.....

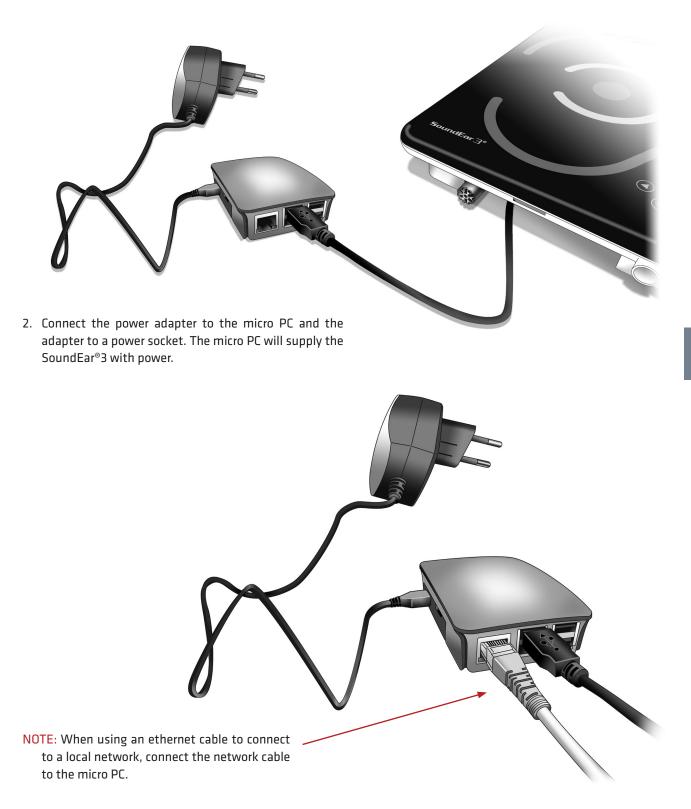
SOUNDEAR®3 - MANUAL

CONNECTING THE DEVICE TO THE SOUNDEAR® MICRO PC



.....

CONNECTING THE MICRO PC



.....

VISUAL START-UP GUIDELINE FOR THE MICRO PC CONNECTION:

CONNECTION STATUS

To determine where you are in the process of connecting the micro PC, you can use the lights on the micro PC to guide you:

Red light: Power on Yellow light: Connection status

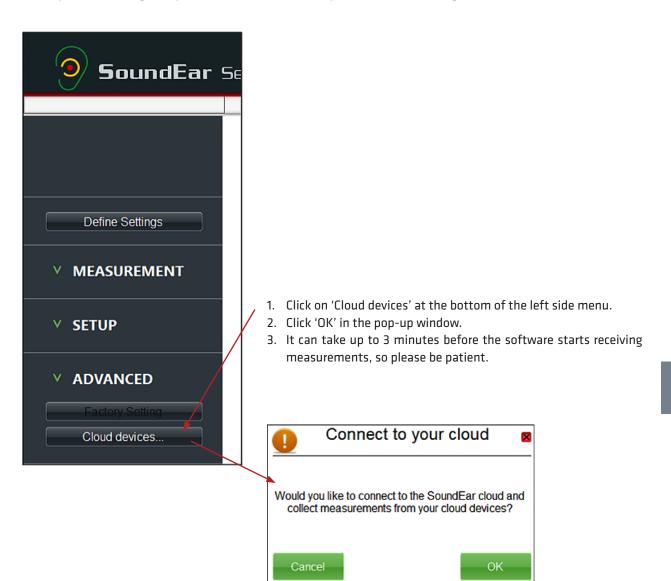




- 1. Fast blinking (300ms on, 300ms off): Waiting for connection with SoundEar®3 device
- 2. Short on, long off (300ms on, 2sec off): Receiving settings from SoundEar®3 device
- 3. Slow blinking (1sec on, 1 sec off): Connecting to broker
- 4. Long on, short off (4 sec on, 1 sec off): Connected to broker

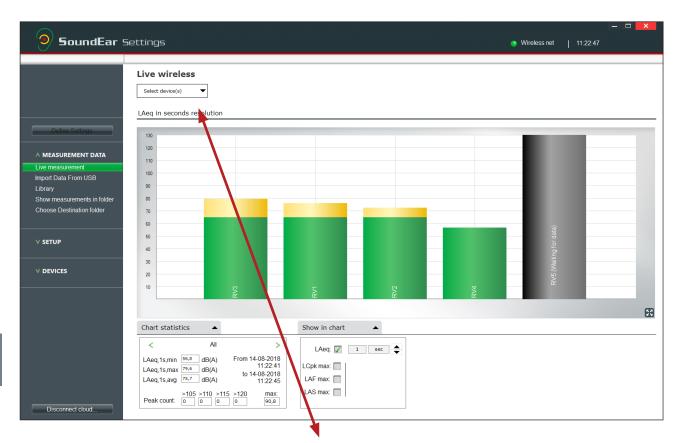
Connection completed! You should be able to view the measurements in the SoundEar $^{\circ}3$ software.

When you have configured your SoundEar®3 device(s), you can start collecting measurements via the software.



START COLLECTING MEASUREMENTS

4. To check, if the software is collecting measurements, go to the menu 'Live Measurement'. The columns will turn from grey to green, when the software starts receiving measurements.



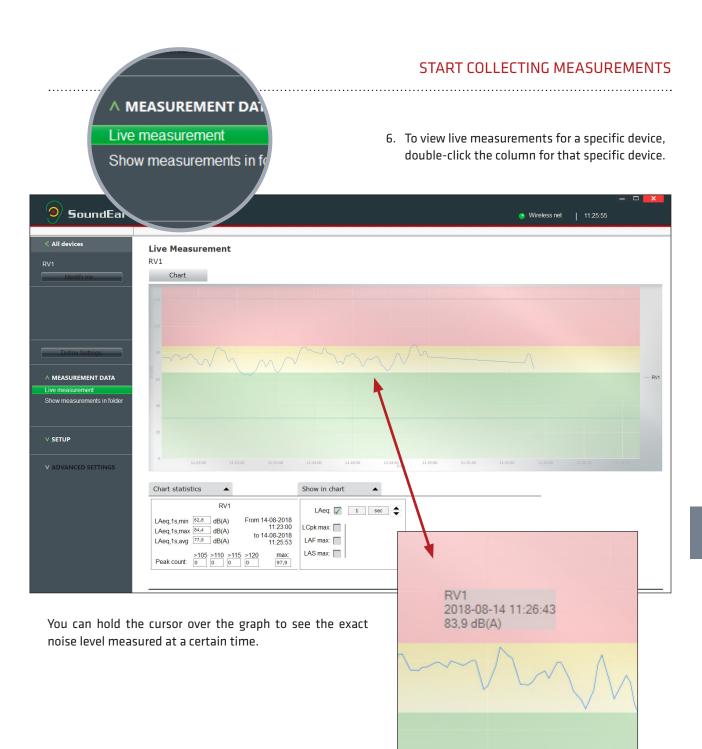
5. Click on 'Select Device(s)' in the upper left corner to select what devices to see.

NOTE: The software will store all measurements from registered devices, even if you don't choose to have them show up in the 'live measurement' view.

All measurements are accessible in the menu 'Library' at any time. Meaning, it is always possible to go back and check your measurements in the library.

Live wireless

Select device(s)		
		×
☑ RV1 (id:122971494)	RV2 (id:24207991)	-
🖌 RV3 (id:23421463)	RV4 (id:21455396)	
☑ RV5 (id:121333062)		
		_
Select all Select n	one	



START COLLECTING MEASUREMENTS

9 SoundEar Sett	ings	— □ × − ● Wireless net 11:39:32
	evice information	
RV1 Identify me	Name: RV1 Location Roskildevej	8.7 - SE3 gateway 0.3.1 Configure Check for firmware updates A SETUP Device Info About SoundEar 3 User Manual Device information
NOTE! You only have one-way con micro PC, so you cannot change th the device. If you want to do so, yo device to the PC by means of an US	he name or location of ou need to connect your	Version: SoundEar320 1.8.7 - SE3 gateway 0.3.1 Name: RV1 Location Roskildevej
 Click on 'All devices' in the top the main screen. 	left corner to return to	< All devices

.....

.....

IMPORTANT: All measurement data is stored via the software. To collect and log measurements, the Sound-Ear[®] software must be up and running.



.....

You can change your Wi-Fi configuration any time via the software.

- 1. Connect your device to your computer using the USB cable
- 2. Click on 'Define settings' in the left side menu and click on the tab 'Wi-Fi/LAN'
- 3. Change your configuration and click "Configure".

9 SoundEar 9	Settings	- □ × 14-08-2018 Connected 11:49:30
Define Settings	Define settings SE3-2011862637, Unknown Light - Night Light - Day Display Alarm	Wifi/LAN Export settings to USB
MEASUREMENT DATA Live measurement Import Data From USB Library Show measurements in folder Choose Destination folder SETUP	WIFI: Soundear Password: abc DHCP: Site ID: Roskildevej Local broker 172 © 24 © 225 © 200 ©	
ADVANCED SETTINGS Factory Setting Cloud devices	Note: WIFI settings can only be transferred to your device when it is directly connected to your PC via a USB cable.	Configure

REMOVE A DEVICE FROM THE SOFTWARE

	9 SoundEar S	ettings		Wireless net	_ □	X			
		My devices				_			
	Define Settings	RV1 0 RV2 0							
	V MEASUREMENT DATA	RV3 3	×						
	∧ SETUP Device info	RV5 3		My devices]			
	My devices Wireless Reporting About SoundEar 3			RV1	8				
	User manual Cloud			RV2	8				
				RV3	8				
	1			RV4	8				
1.	Click on 'SETUP' and	'My devices' in the left menu.		RV5	8				
2.	Click on the red 'X' for to remove from the s	or the device, which you want		RV6					
				Remove devic	e RV6?				
3.	Press 'OK' in the pop-	-up window.		rom the software.					
				Cancel	ОК				
				Remove measurer	ments also?	×			
4.	ments associated wi ware. If you want to keep t	want to remove all measure- th the device from the soft- he measurements and still be the library, click 'Cancel'.	Remove all measurements from library associated with this device?						
				Cancel	ОК				

.....

EXPORT DEVICE LIST

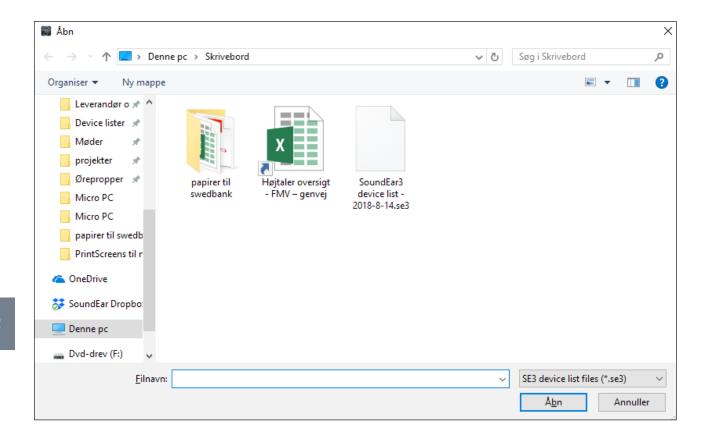
You can give other people access to live measurements by exporting your devices.

9 Sound	Ear Settir	ngs							🕚 Wireles	s net	12:57:53	- 0	×
	(•)	Wire	less conf	iguratio	n						Listen for i	new device:	5
	Registered devices:				Currently online:								
		ld	Name	UniqueId		ld Name	RSSI	Measurement Time	LAeq1sMax	LCpeak	LAeq1min	LAeq15min	LA
Define Settings		122971494 24207991	RV1 RV2	122971494 24207991		4207991 RV2 3421463 RV3	0	14-08-2018 12:57 14-08-2018 12:57	82,27639 101,711151	95,53459 115,167679	76,47056 81,18485	77.08903 77.91185	77.
		23421463	RV3	23421463		1455396 RV4	0	14-08-2018 12:57 14-08-2018 12:57	69,96921	92,60677	65,58511 79,1341858	65,8162842	67.
V MEASUREMENT DA	TA	21455396 121333062	RV4 RV5	21455396 121333062		22971494 RV1	0	14-08-2018 12:57	86,18654	101,026894	79,1341858	78,3688049	78,
		1997804545	RV6	1997804545									
 A SETUP Device info My devices Wireless Reporting About SoundEar 3 User manual Cloud Logo to 'SETUP' Click on the but 	and 'Wirele		ne left sic	Remove			E	Export dev	ice list		Export	device list	>
🗑 Gem so	om												×
$\leftarrow \rightarrow$	$\leftarrow \rightarrow \checkmark \uparrow$ 📥 > Denne pc > Dvd-drev (F:)								~ Č	Søg i Dvd	-drev (F:)		م ر
Organise	er 🔻 🛛 Ny map	ope											?
Pr	islister 🛛 🖈 🔨	Navn		Ý			Ændring	gsdato	Туре		Størrelse	2	
So	oundEar sen 🖈	🔊 Tra	acer direkte-	30-07-2018			30-07-20	018 14:39	Microsoft	Excel-fil	18	1 KB	
Re	eklamatione 🖈	📄 Tra	acer direkte.e	ar			30-07-20	018 14:27	EAR-fil		15	3 KB	
Le	everandør o 🖈	🔊 SE	3-174067034	4-01-08-201	8		01-08-20	018 13:33	Microsoft	Excel-fil	3	3 KB	
M pr M M M	evice lister * Iøder * rojekter * licro PC licro PC apirer til swedb intScreens til r	RV	/1-01-08-201	8			01-08-20	018 13:26	Microsoft I	Excel-fil		1 KB	
	Eilnavn: SoundEar3 device list - 2018-8-14.se3												~
										~			
	Fil <u>t</u> ype:												~
🔨 Skjul n	napper									<u>G</u> er	n	Annul	ller

3. Choose the folder in which you want to save the device list. As default, the list will be saved with the name 'Sound-Ear3 device list + [current date] + [file type]' as in this example: **SoundEar3 device list - 2018-8-14.se3**

IMPORT DEVICE LIST FOR PRE-CONFIGURED DEVICES

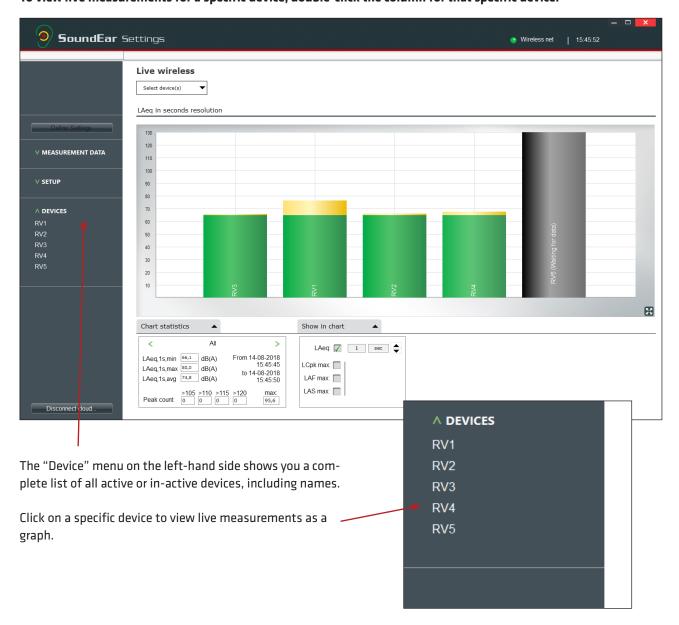
You can choose to have the system set up for you beforehand or share your configuration with others. If you have done so, use these instructions to set up the SoundEar software to receive measurements from the SoundEar 3 devices.



- 1. Go to the menu "SETUP" and "Wireless".
- 2. Choose "Import device list" and then the folder in which the device list is located. All files containing a device list have the ending '.se3'

NOTE! Importing a new device list will replace the current device list. All measurement data will still be saved.

VIEW LIVE MEASUREMENTS FOR A SPECIFIC DEVICE To view live measurements for a specific device, double-click the column for that specific device.





www.soundear.com



UK: The crossed-out wheeled bin means that within the European Union the product must be taken to separate collection at the product end of its life. This applies not only to your device but also to any enhancements marked with this symbol. Do not dispose of these products as unsorted municipal waste.