# SoundEar PRO



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# **MANUAL**

# SoundEar PRO

#### CONGRATULATIONS ON YOUR NEW SOUNDEARPRO

We are pleased that you have chosen one of our products. For maximum product performance, please study these directions for use.

Keep these directions for use ready at hand. For any questions or comments, please contact us on tel: +45 39 40 90 02 or on e-mail support@soundear.dk

Yours sincerely, SoundEar A/S

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## **SOUNDEAR PRO UNITS**

Check package contents depending on the package purchased by you.



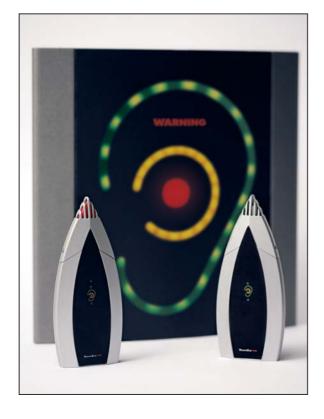
#### **SOUNDEARPRO BASIC 1**

- 1 ProController
- 1 ProSampler
- 1 USB split cable.
- 2 USB Adapter cable (A-plug to mini-B)
- 2 Power Supply
- 2 Suspension
- 1 CD with software



#### **SOUNDEARPRO BASIC 2**

- 1 ProController
- 5 ProSampler
- 1 USB split cable.
- 6 USB Adapter cable (A-plug to mini-B)
- 6 Power Supply
- 6 Suspension
- 1 CD with software



#### **SOUNDEARPRO ENTERTAINMENT**

- 1 ProController
- 1 ProSampler
- 1 SoundEar Wireless
- 1 USB split cable.
- 2 USB Adapter cable (A-plug to mini-B)
- 3 Power Supply
- 2 Suspension
- 1 CD med software

### **CONTENTS AND APPLICATION**

# BEFORE THE SYSTEM IS STARTED, ALL UNITS ARE TO BE RESET

- 1. Reset ProController as follows:
  - a. Keep Reset button in using a paper clip, and connect USB adapter cable (mini-B).
    - Keep button in for min. 5 seconds.
  - b. Remove USB plug from ProController.
  - c. Put USB plug in ProController.
- 2. Reset all ProSampler units in the same way as for ProController.

The system is now ready for setting up.

### SETTING UP OF SOUNDEARPRO BASIC 1 AND BASIC 2

Connect ProController with USB adapter cable to computer USB port. The ProController power indicator will emit green light when the unit is connected properly.

Connect your ProSampler with USB adapter cable to the power supply which is plugged into a power point. The ProSampler power indicator will emit green light when the unit is connected properly.

The network indicator will flash yellow once a second when your ProSampler has contact with your ProController.

If the signal flashes several times per second, there is no contact to your ProController.

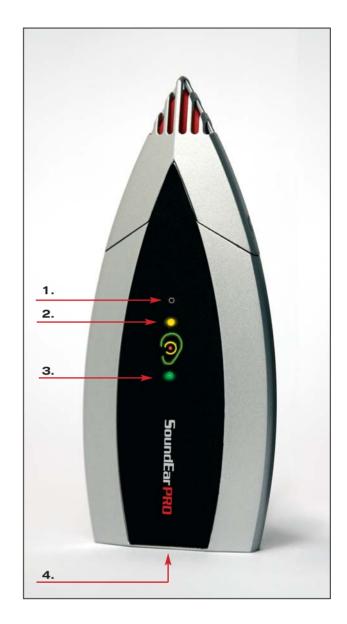
# SETTING UP OF SOUNDEARPRO ENTERTAINMENT

Connect ProController with USB adapter cable to computer USB port. The ProController power indicator will emit green light when the unit is connected properly.

Connect your ProSampler with USB adapter cable to the power supply which is plugged into a power point. The ProSampler power indicator will emit green light when the unit is connected properly.

The network indicator will flash yellow once a second when your ProSampler has contact to your ProController. If the signal flashes several times per second, there is no contact to your ProController.

Connect SoundEar Wireless to the power supply, and plug it in.



- 1. Reset button
- 2. Network indicator
- 3. Power indicator
- 4. USB connection (mini-B)



#### **USING SOUNDEARPRO WITHOUT PC**

Measurements from your SoundEarPRO system may be saved in your ProController without having it connected to a PC.

- Connect your ProController to power supply and PC through USB split cable and USB adapter cable.
- 2. Switch on your ProController, ProSamplers, and any Displays.
- 3. Start your SoundEarPRO program, check that your ProController has been connected correctly, and that measurements are received from the ProSamplers connected.
- 4. Your PC may now be switched off or disconnected from your ProController without switching off your ProController.
- 5. Measurements will now be stored in the ProController internal memory.
- 6. When the ProController is connected to the PC again, the SoundEarPRO program is started, and the measurements saved will automatically be transferred.



SoundEarPRO may be "stand alone" mounted on a tripod (for free field measuring) or hung directly on a wall.

# **INSTALLATION OF SOUNDEARPRO SOFTWARE**

Install your SoundEarPro software in the manner described below.

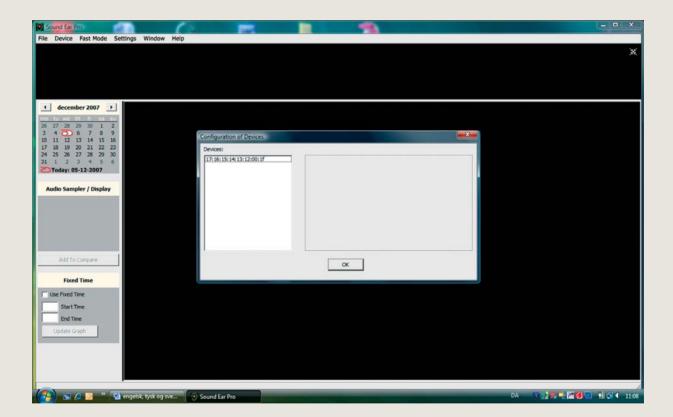


- **1.** Insert the CD-ROM provided in the computer CD-ROM drive.
- 2. After a while, an installation wizard will be displayed. If the installation does not start automatically, select: Start -> Run -> Browse -> (drive with DVD/CD-ROM) -> Setup.exe -> Open -> OK.
- 3. Then follow the guide.

## INSTALLATION OF SOUNDEARPRO HARDWARE

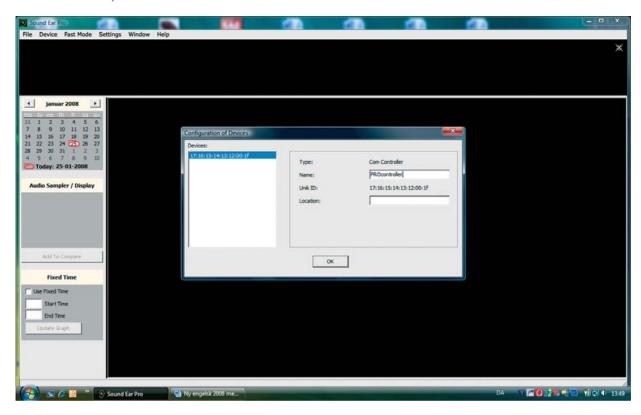
When the software has been installed, the hardware may be connected.

- 1. Connect ProController to a free USB port.
- 2. Windows will now install the necessary driver ("new hardware" will show at the bottom left hand side of the screen).
- **3.** Start the SoundEarPRO program.
- **4.** When the program starts, it will start looking for the connected ProController (this may take a while).
- **5.** When the ProController has been found (the first time), the "Configuration of Devices" dialogue box will be displayed with a unique id number.

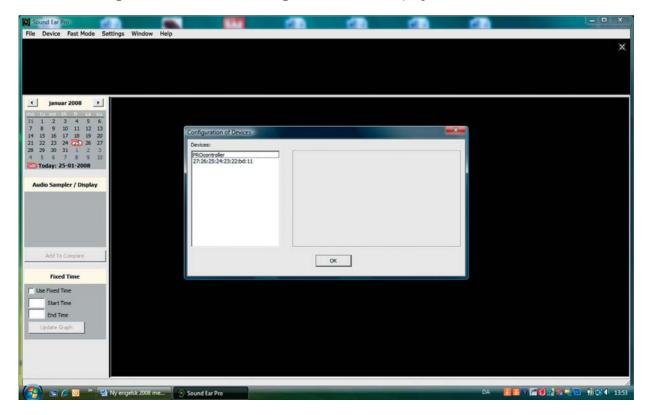


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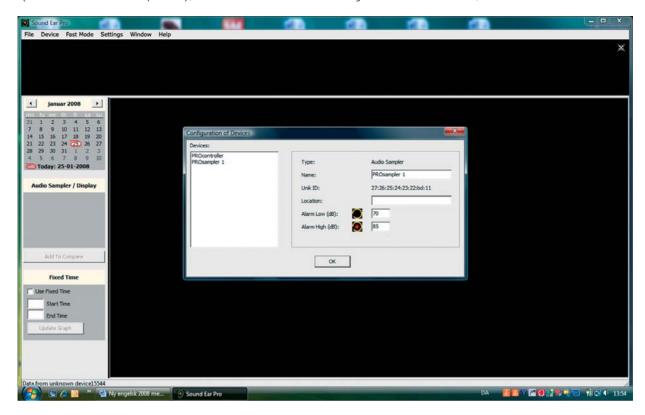
**6.** Select the unit and choose a more descriptive name of your own choice for it (such as PROController) and choose OK.



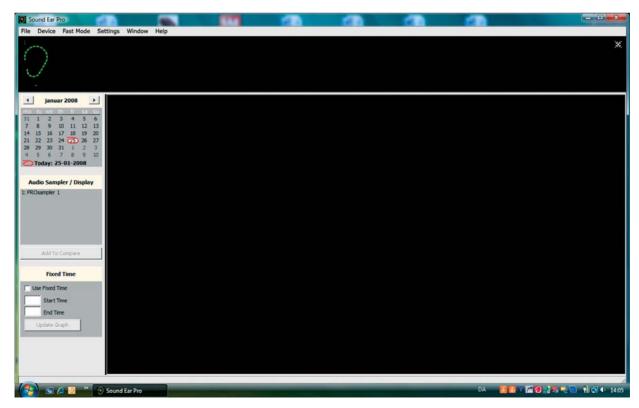
- **7.** Switch on power to a ProSampler.
- **8.** After a while (max. 2 minutes), the ProSampler will be found by the system, and the "Configuration of Devices" dialogue box will be displayed.



9. Select the new unit and choose a more descriptive name for the unit (such as PROSampler 1), and state dB values for yellow and red ear, and choose OK.



**10.** An ear will now be shown for the connected ProSampler, and after a few seconds, current metering values for the ear will be displayed.



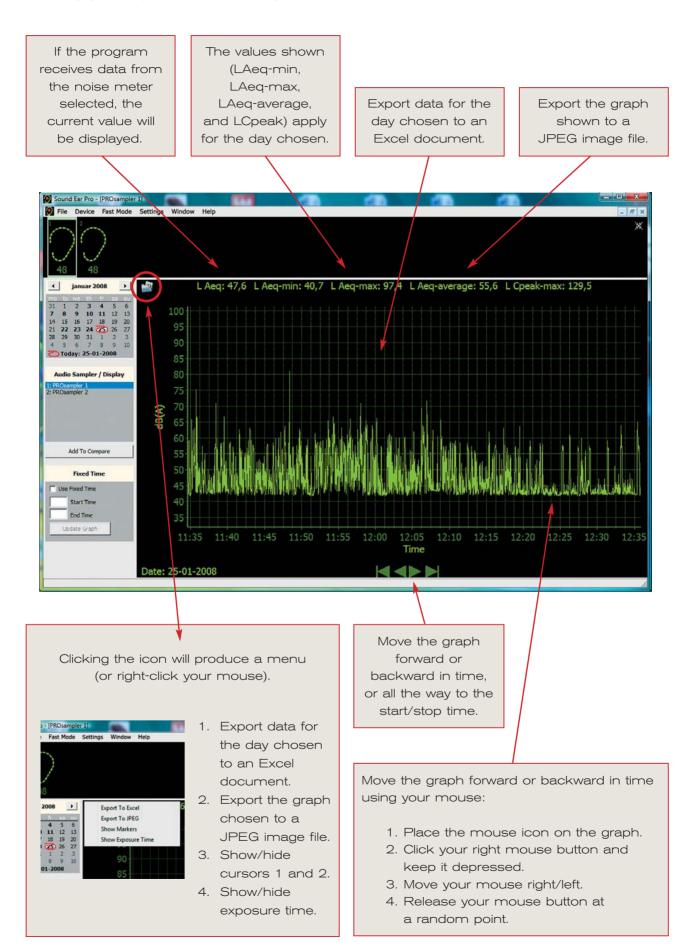
11. Repeat steps 7. - 10. for all ProSamplers and Displays that need to be connected.

# **USER INTERFACE**MAIN WINDOW

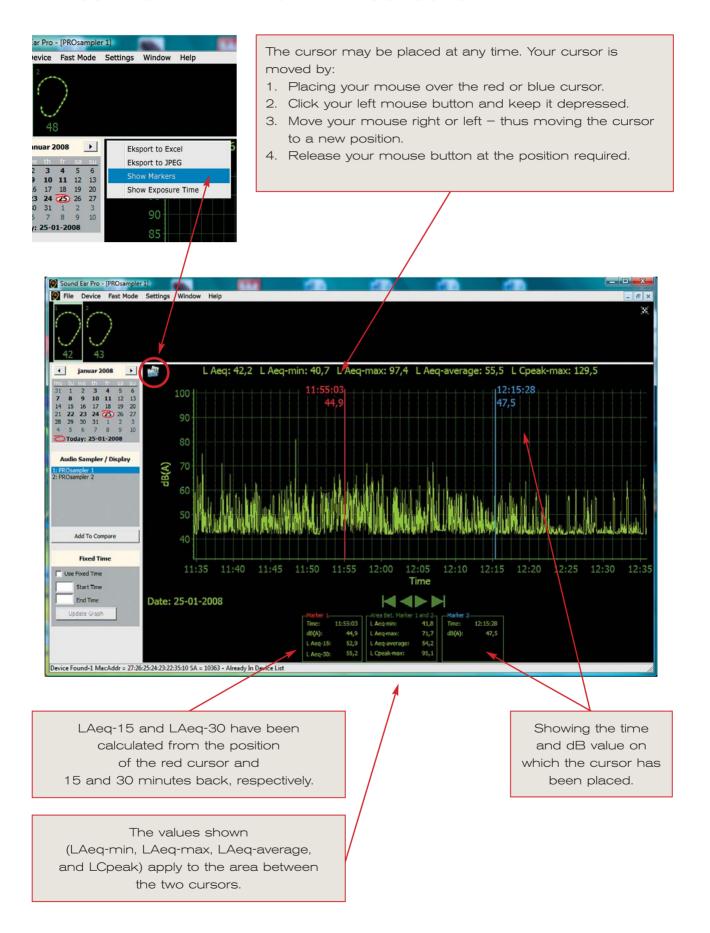
Minimizing the program window to "Control View". Sound Ear Pro Showing each noise meter File Device Fast Mode Settings Window Help connected as an ear. A square will be shown around the ear last chosen. 48 If the program receives data from the noise meter, 4 januar 2008 PROsampler 1 the current value will be Aeq: 47,0 L Aeq-min: 40,7 L Aeq-max: 97,4 displayed. 2 **3 4** 5 6 **9 10 11** 12 13 31 1 14 15 16 17 18 19 20 PROsampler 2 21 22 23 24 25 26 27 Aeq: 48,0 30 31 Choice of date to view 29 4 5 6 7 8 9 10 historical metering data. **Today: 25-01-2008** Audio Sampler / Display Clicking an ear will display 1: PROsampler 1 metering data graphically (See metering data window). dB(A) Showing the name of the noise meter. Clicking the Add To Compare (¥) 56 name will show metering data for the noise meter **Fixed Time** chosen. Use Fixed Time If the ProSampler is Start Time connected to a display, End Time the name of the display Adate Graph will also be shown. Add data for the chosen day and noise meter to the comparison graph. State a fixed start and stop time

for the graph shown.

#### **MEASURING DATA WINDOW**



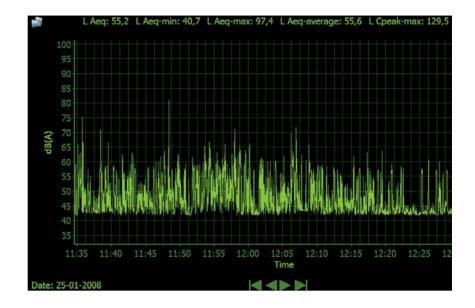
#### MEASURING DATA WINDOW WITH CURSORS



#### **MEASURING DATA WINDOW - ZOOM FUNCTION**

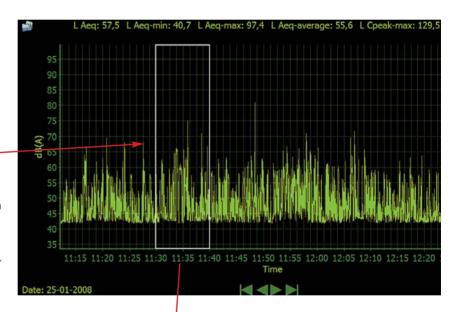
When data is displayed in the graph, you can zoom in on a selected area.

1. Current Display.



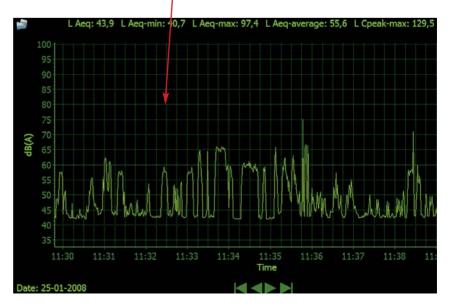
# To zoom in on any part of the graph:

- 2. Place your mouse at any point of the graph.
- Depress your left mouse button and move your mouse to the *right* at the same time, thus producing a square.
- 4. Release your mouse button when the area required has been marked.
- 5. The zoom area is displayed.



#### To cancel the zoom function:

- Place your mouse at any point of the graph.
- Depress your left mouse button and move your mouse to the *left* at the same time.
- Release your mouse button when the square is no longer displayed.

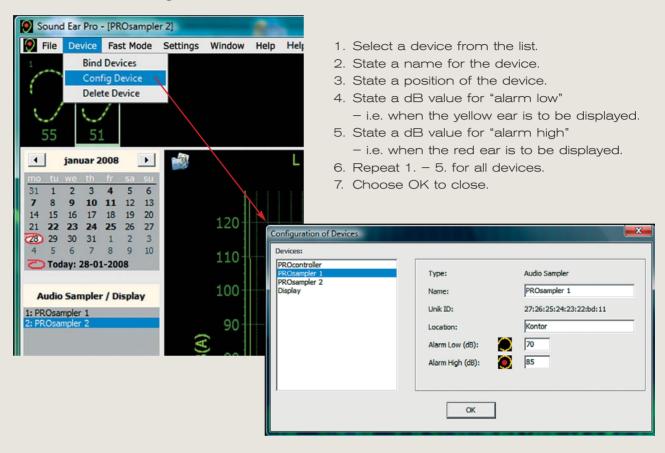


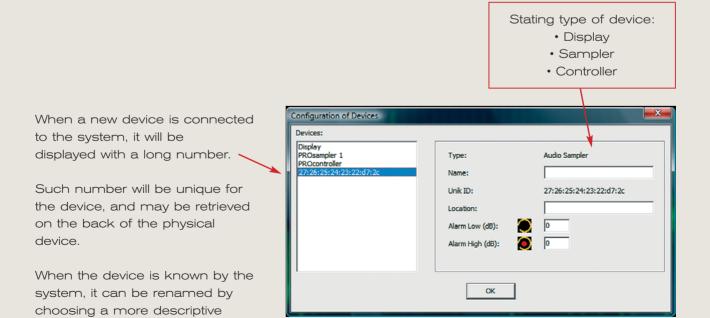
### **CONFIGURATION OF DEVICES**

Under "Configuration of Devices", the specific unit can be configured.

• Select Device - Configure Device.

name.

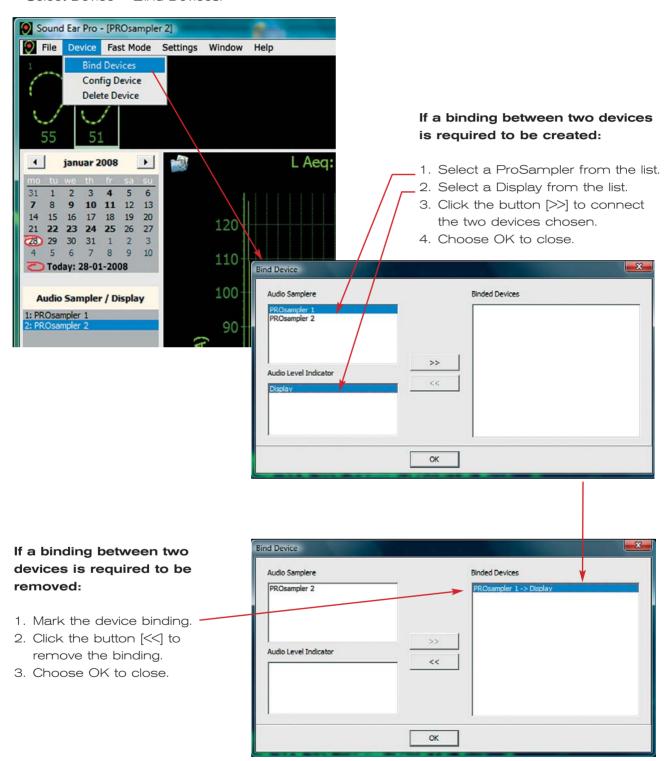




#### **CONNECT DEVICES**

Under "Bind Devices", a Sampler may be logged on to a Display. Thus enabling the Display to switch between green, yellow, and red, depending on the sound pressure metered by the connected Sampler.

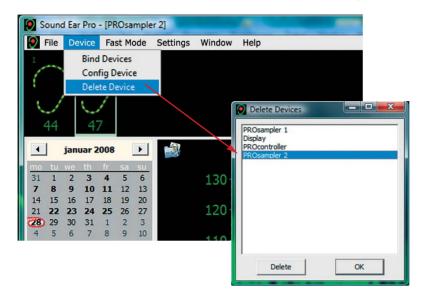
• Select Device - Bind Devices.



#### **DELETE DEVICE**

If a device is removed permanently from the system, it may be deleted from the program. Note, however, that:

- · If a ProSampler is deleted, historical data for the particular sampler can no longer be viewed.
- If the ProController is deleted, samplers or displays can no longer be contacted.

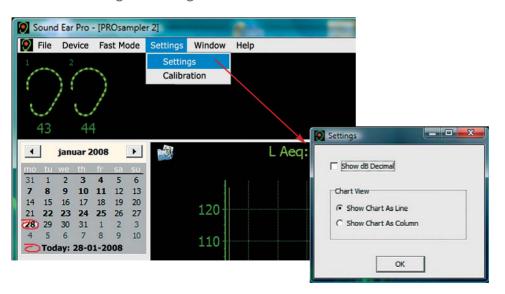


- 1. Select the device to be deleted.
- 2. Choose delete.
- 3. Choose OK when the device in question has been deleted.

#### **SETTINGS**

Under "Settings", the general settings can be adjusted.

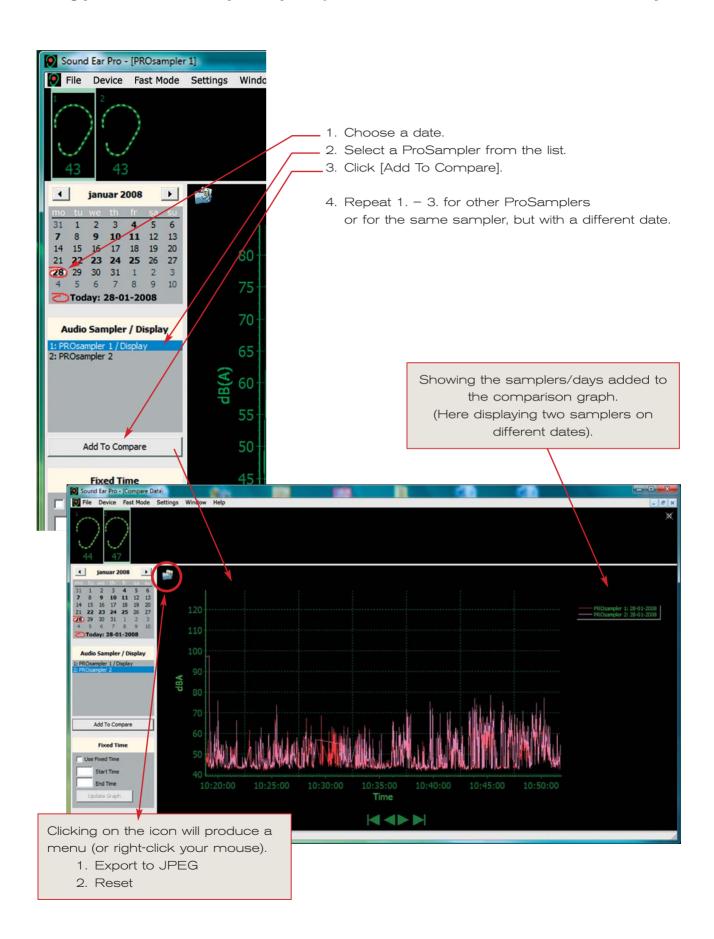
• Choose Settings - Settings.



Choose whether the particular dB value is to be displayed with or without one decimal.

#### **COMPARISON OF DATA**

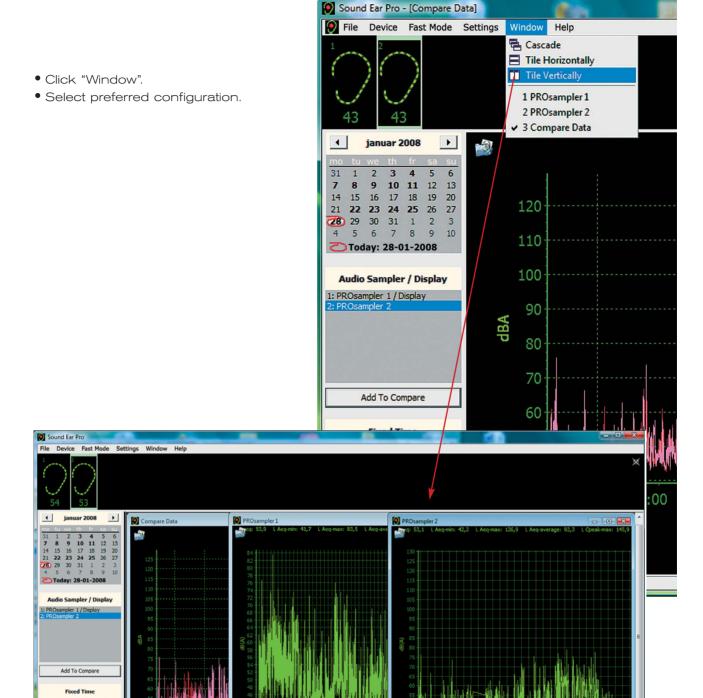
Using your SoundEarPRO, you may compare data from various meters from various days.



#### SHOW SEVERAL GRAPHS SIMULTANEOUSLY

Several graphs may be shown simultaneously.

Start Time



#### **FIXED TIME**

Using "Fixed Time", you can choose a time interval to be displayed on the graph.



Select "Used Fixed Time" and type in the interval required.

- 1. Choose "Use Fixed Time".
- 2. Type in Start Time, for instance 0900.
- 3. Type in Stop Time, for instance 1800.
- 4. Choose "Update Graph".

When a fixed interval on the graph is no longer required, deselect at "Use Fixed Time".

#### Tip:

If several meters/graphs are required to be synchronized while new measurements are coming in, a start time may be entered, such as 0900 hours, and a stop time such as 2359 hours. After this, all active graphs will show metering data synchronized with the time.

#### SHOW PERMISSIBLE EXPOSURE TIME

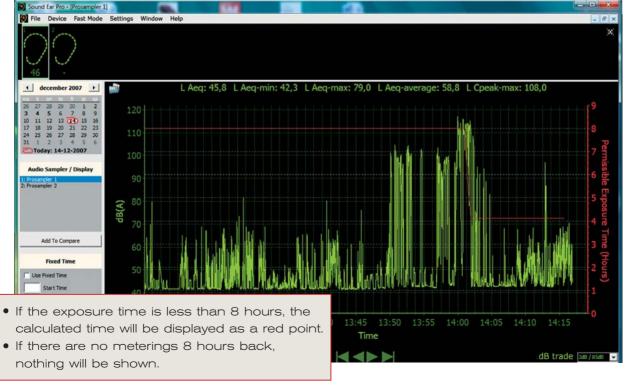
Average noise impact in relation to time.

- If the exposure time is more than 8 hours, this will be shown as a red point.
- If there are no meterings 8 hours back, nothing will be shown.

Show Permissable Exposure Time calculated on the basis of meterings 8 hours back.

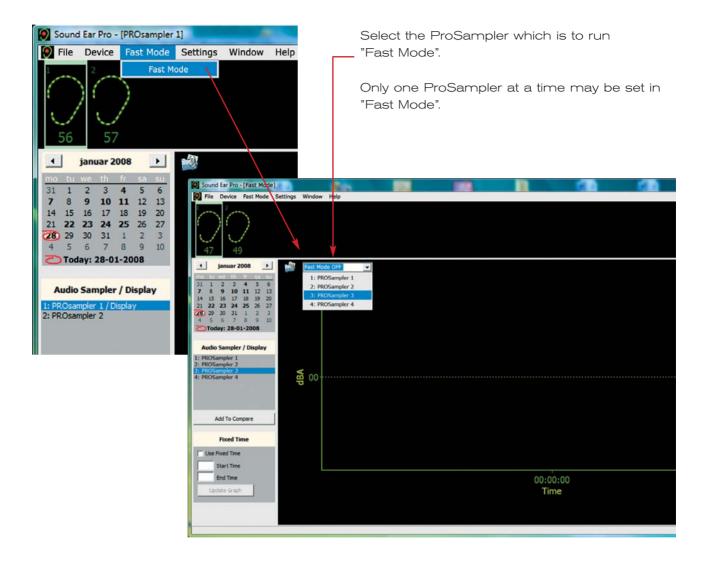


Choose from a dB trade of "3dB/85dB" or "3dB/90dB".



#### **FAST MODE**

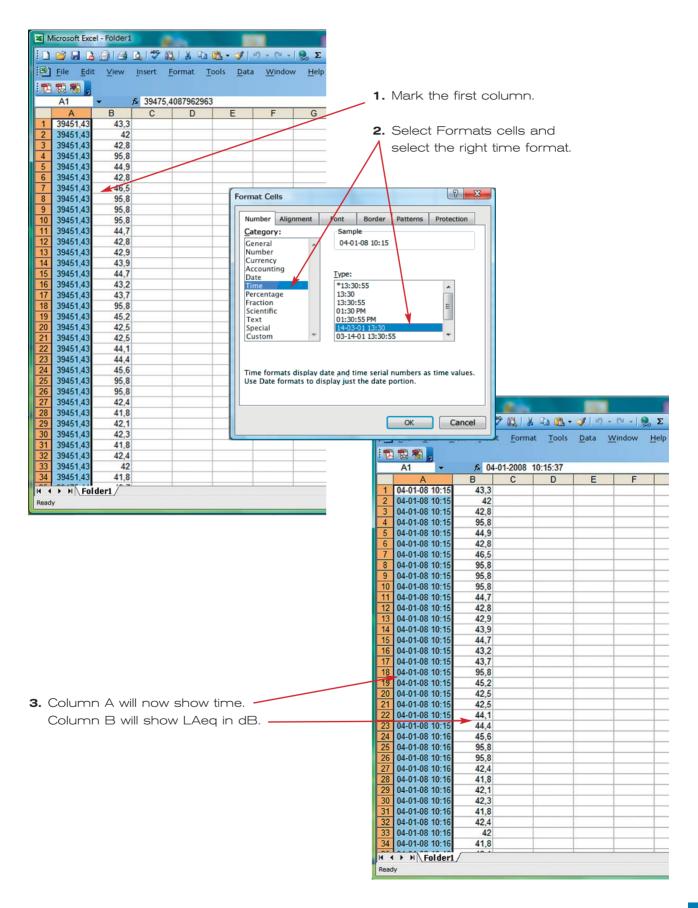
Selecting "Fast Mode" will produce a higher resolution on the graph. In "Fast Mode", measurings will be performed and shown 40 times per second.



#### **EKSPORT OF DATA TO MICROSOFT EXCEL**

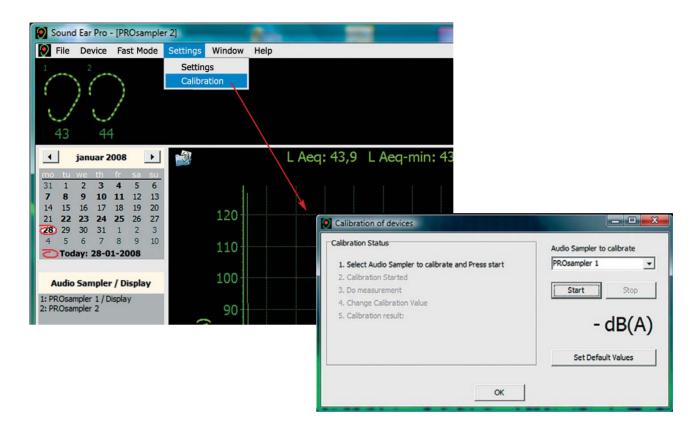
As described above, data for a chosen day may be exported to an Excel file.

When the data is entered in Excel, the first column will have to be formatted to the right time format.



#### **CALIBRATION**

Open the calibration dialogue under the "Settings" menu.



- 1. Select the ProSampler to be calibrated in the drop-down menu.
- 2. Place a calibrator with a reference of 94 dB(A) on the ProSampler selected, and switch on the calibrator.
- 3. Click [Start], and the calibration is started.
- 4. 10 measurements will now be run.
- 5. New calibration values will then be calculated and sent to the sampler.
- 6. Repeat steps 3. and 5. until 94 dB +/- 0.1 dB has been reached.
- 7. When 94 dB has been reached, the new calibration values are saved in the ProSampler, and it will say: "Calibration result: Successfully performed. New calibration values saved". Steps 3. and 5. can only be repeated ten times. If 94 dB has not been reached, it will say "Calibration result: Error Audio Sampler off area. Check calibrator level".

You may then try again.

The [Set Default Values] button can be used if the calibration failed and you need to start all over.

### **TROUBLESHOOTING**

## Starting your program does not establish connection to one or more ProSamplers:

- 1. Switch off each particular ProSampler; this will make it re-start, and it will seek contact to your ProController after max. 1 minute.
- 2. This may be due to the fact that contact cannot be established for reasons of distance or layout/arrangement. This problem may be solved by inserting an additional ProSampler or SoundEar Wireless between your ProSampler and your ProController so as to increase the range. This is due to the fact that each particular ProSampler and SoundEar Wireless works as a "repeater" for the other units.

# Program start not establishing connection to your ProController (solution – reset all units):

- 1. Reset ProController as follows:
  - a. Keep Reset button in using a paper clip, and connect USB adapter cable (mini-B). Keep button in for min. 5 seconds.
  - b. Remove USB plug from ProController.
  - c. Put USB plug in ProController.
- 2. Reset all ProSampler units in the same way as for ProController.

#### Q & A as well as the latest updates available on www.soundear.dk

#### **CLEANING**

The units may be cleaned using a soft moist cloth.

Note!! Never use any type of chemical detergent.