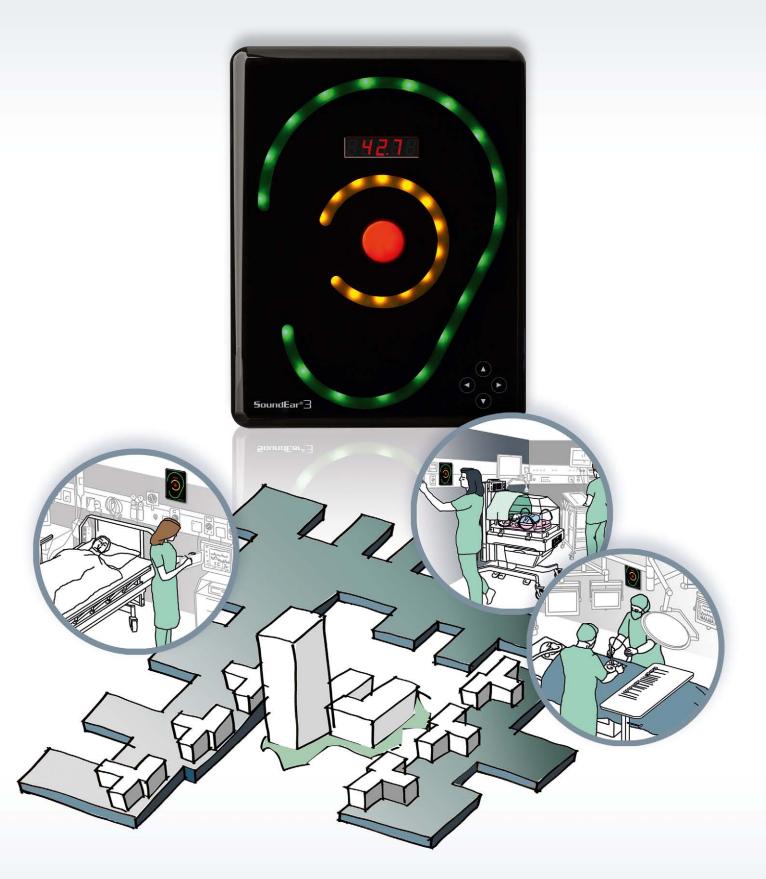
# SoundEar®3

Measure, monitor and manage noise in hospitals



### **SoundEar®**3

## Unnecessary noise, then, is the most cruel absence of care which can be inflicted either on sick or well.

- Florence Nightingale, Notes on Nursing, 1859

In many hospitals patients and staff complain about too much noise. This includes noise from medical equipment, staff and visitors etc.

Noisy environments and poor acoustic within modern hospitals delay recovery and rehabilitation processes, resulting in unnecessarily long treatments.

Therefore, hospitals of the future focus on lower noise levels.

Not only does a good auditive environment facilitate recovery, it also leads to better sleep patterns and higher levels of patient and staff well being.



**SoundEar®3** is available in two versions.

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# Frequency R Measuring L Deviation: Frequency V Time Weigh Dynamic Ra Light setting 2 x Outputs (1 for dB A + 2 x USB port Display data Power suppl Microphone Internal met Real Time C Mechanical Standards:

### SoundEar®3 - Specifications

Frequency Range: 20 Hz - 20 kHz

Measuring Level Range: 30 dB - 120 dB

Deviation: +/- 0.5 dB

Frequency Weighting: dB (A) & dB (C) filter

Time Weighting: Slow (1S) & (125mS)

Dynamic Range RMS: 90 dB and Peak detect

Dynamic Range RMS: 90 dB and Peak detection
Light setting: Full configurability throug

Full configurability through SoundEar® software

including night setting.

(1 for dB A + 1 for dB C): Either 0-10V or 4-20mA outputs

 2 x USB ports:
 Micro USB (Power &PC), USB OTG (Log, config.)

 Display data:
 dB(A) Slow, Leq(A)15, Alarm settings, Temp, Clock

 Power supply:
 5VDC (micro USB) / 24VDC (screw terminal)

Current consumption: max 2.5W.

Microphone: 20 Hz - 20 kHz

Internal memory: 16MB (128MBit) (5-90 days log time, depending on log settings)
Real Time Clock: Hi-precision type with battery backup (CR2032).

Mechanical properties: Cabinet: Shockproof acrylic. Measurements:

Length: 265mm, Width: 205mm, Height: 46mm, Weight: 1.5 kg.

IEC61672-2-2002. Type 2, ANSI S1,4 Type 260601-1: Medical electrical equipment - Part 1: General requirements for basic

safety and essential performance.

60601-1-2: Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance.