The Difference Between SoundEar II and SoundEar4

Simple visual noise awareness vs. connected measurement, logging and documentation

SOUNDEAR II

Visual awareness

Green / yellow / red feedback

SOUNDEAR4 SERIES

Measure - log - connect

SoundEar4®XL

SoundEar4®-410

SoundEar4®-401

Current SoundEar4 display formats

SoundEar II is the simple choice when visual feedback is enough.

SoundEar4 adds a high-accuracy measurement platform, internal logging, built-in Wi-Fi, USB access, local integration and optional SoundEar Cloud - without recording audio.

FEATURE	SOUNDEAR II	SOUNDEAR4 SERIES
Purpose	Simple real-time visual noise awareness	Visual awareness + continuous measurement, logging and analysis
Measuring range	45 - 115 dB	30 - 120 dB RMS
Self-noise / low-level measurement	Internal self-noise limits useful measurement at low levels; below approx. 50 dB becomes difficult to assess reliably	Low self-noise; specified measurement range down to 30 dB RMS
Accuracy	-	+/- 0.5 dB
Frequency range	20 Hz - 16 kHz	20 Hz - 20 kHz
Frequency weighting	dB(A)	A-weighting (RMS) + C-weighting (peak)
Time weighting	Slow	Slow (1 s) + Fast (125 ms)
Dynamic range	48 dB	90 dB
Internal logging	No	Yes - compact SoundEar .aer format
Real-time clock	No	Yes - high precision with battery backup
Calibration on site	No	Yes
Connectivity	Standalone	Built-in Wi-Fi, USB-A and USB-C
Cloud / remote access	No	Optional SoundEar Cloud; 90 days included
Local integration	No	Local broker setup / Modbus TCP
Ingress protection	IP42	IP42
Standard / class	Not a sound level meter. No formal standard or class rating.	Designed to meet IEC 61672-1 and ANSI S1.43, Class 2

Choose SoundEar II when:

- You only need immediate visual feedback
- No data logging or reporting is required
- Low-level noise measurement is not critical
- Simple standalone operation is the priority

Choose SoundEar4 when:

- You need documented noise data over time
- Low background noise must be measured reliably
- Wi-Fi, USB, Cloud or local integration matters
- You need calibration, reporting or remote follow-up

SoundEar4 stores sound-level data only - no audio is recorded. Core SoundEar4 platform specifications shown; display format and dimensions vary by model.