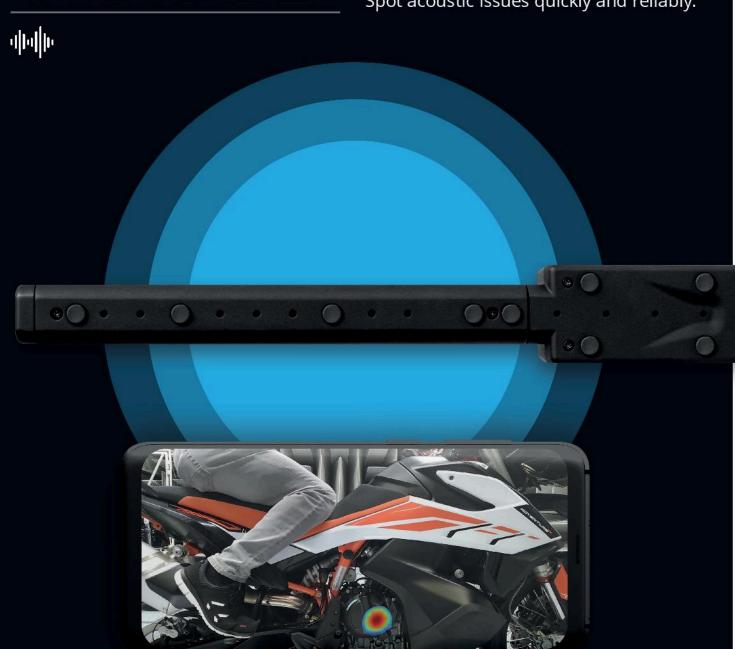


## WEMAKESOUND VISIBLE

Spot acoustic issues quickly and reliably.



# EFFECTIVE SOUND IMAGING

As a product developer, manufacturing engineer, maintainace technician or consulting engineer you are used to working effectively and target-oriented. Stop losing time to a lenghty search for possible sources of acoustic problems of your products or processes. Use Seven Bel's sound scanners and make disturbing sound sources visible. Reliably, fast and simple.

Results in 5 minutes

No other measurement system delivers acoustic images that fast and efficiently. You can set up the measurement system in less than 5 minutes, conduct the measurement of your use case and immediately receive dependable results for further analysis.

Anytime – anywhere

Due to the ultra-compact and light construction you are entirely independent in terms of location. Seven Bel's high performance measurement system works with an Android mobile phone and cloud infrastructure in the background. Notebooks, power supply units or recorders that are usually required are no longer necessesary.

Extraordinary image quality

Distributed microphones based on state-of-the-art semiconductor technology scan the acoustic field on an area of a disc and produce acoustic images with superior image quality and a high level of information. This faciliates the correct interpretation of the measured data for the user and leads to solutions that can be implemented quickly.

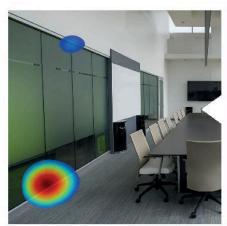
Intuitive handling

Benefit from a massively simplified workflow to measure and analyse your sound events. Share your results with your colleagues, partners or clients in the form of automatically generated reports.





State-of-the-art machine tools exhibit a wide variety of complex sound events during the machining process. Engineers working in product development trust in the visualisation of sound radiation in order to take quick and effective measures to comply with noise limits.



#### **ROOM ACOUSTICS**

experts in identifiying structural weaknesses and making effective

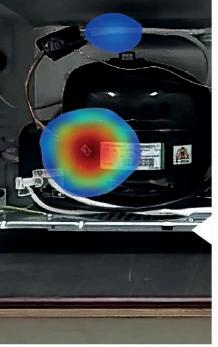




P132

#### **AUTOMOTIVE**

engine/transmission components



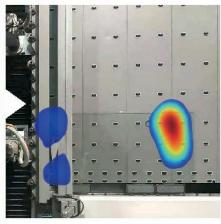
#### APPLICANCES

the assembly line. Acoustic images help to isolate the origin of



#### MACHINERY

Complex machining processes, in events. Acoustic images support engineers in understanding the local optimised machine housings.



Further applications are in the fields of maintenance, quality assurance and environmental noise. We want to know about your individual application. Contact us for further information or request our acoustic consulting service.

### **SPECIFICATIONS**

	SEVEN BEL P50	SEVEN BEL P132
SENSOR		
Diameter of scan area	50 cm	132 cm
Weight (exkl. sensor mount and tripod)	350 g	700 g
Rotation frequency (min/typ/max) Number of microphones	0,2 / 2 / 5 revolutions/second 5	0,2 / 1 / 2 revolutions/second 5
attery life (fully charged)	7 hours	7 hours
COUSTIC IMAGE		
requency range	700 Hz - 16 kHz	250 Hz - 16 kHz
spatial resolution at 5 kHz (3 dB dynamic range)		2,6 °
Dynamic range	> 13 dB	> 13 dB
Computed images per revolution Measuring distance	up to 10 0,5 m - infinity	up to 10 0,5 m - infinity
AICROPHONE		
Sample frequency	32 kHz	32 kHz
Resolution	24 bit	24 bit
requency range ensitivity tolerance	50 Hz - 20 kHz +/- 1 dB	50 Hz - 20 kHz +/- 1 dB
Maximum measurable sound pressure level	117 dB	117 dB
osolute maximum sound pressure level	160 dB	160 dB
ANALYSIS		
	Real time display of time signal, sound pressure level in dB(A), frequency spectrum and spectrogram	
	Stream/Pause mode	
	Selection of time/frequency intervals and audio playback of the filtered signal	
	Selection of frequency band	
	Playback of filtered audio	
	Single frame or time averaged frames	
	Video playback	
	Automated pdf report generation of single acoustic image or timed averaged images	
	including meta data (time, location, notes, etc.), time signal, spectrum and spectrogram	
	Export and import of measurements in zip format via installed file sharing apps (e.g. Google Drive)	

#### **ENVIRONMENTAL CONDITIONS**

Operating temperature
 $-10 \, ^{\circ}\text{C} - 60 \, ^{\circ}\text{C}$   $-10 \, ^{\circ}\text{C} - 60 \, ^{\circ}\text{C}$  

Relative humidity
 $45 \, \% - 85 \, \%$   $45 \, \% - 85 \, \%$ 

#### MOBILE DEVICE

Maximum display widthAndroid OS version 7.0 or higherAndroid OS version 7.0 or higherOperating system90 mm90 mm

