



Soundcam Mikado

Handheld Acoustic Camera for Troubleshooting Noise and Vibration Problems



Mikado is the perfect solution for troubleshooting noise and vibration problems. The fully mobile device enables measurement from nearly any location.

As a complete package consisting of a microphone array, data recorder, and tablet with NoiseImage Mobile software, Mikado includes all components needed for quick and efficient acoustic measurements and analyses.

Data recording and basic analyses in both the frequency and time domains are possible directly on the device. Features such as the touch screen and manual trigger button ensure fast and easy operation. Mikado can also be easily connected to your workstation for more in-depth analyses with NoiseImage Pro.

The array comes with an integrated Intel® RealSense™ depth camera which features Full HD resolution and the ability to record depth information.

BENEFITS

- All-in-one Acoustic Camera
- 3D scanning and beamforming (DynaBeam)
- 100 % autonomous due to rechargeable Bosch battery (available worldwide)
- Completely flexible during measurement
- Use as handheld or mounted on a tripod
- For beginners and experts

APPLICATIONS

- Troubleshooting noise and vibration problems
- Quality management of products and components
- Leakage detection
- Research & Development
- Close-up measurements in aerospace, automotive, electronics and appliances, education and research



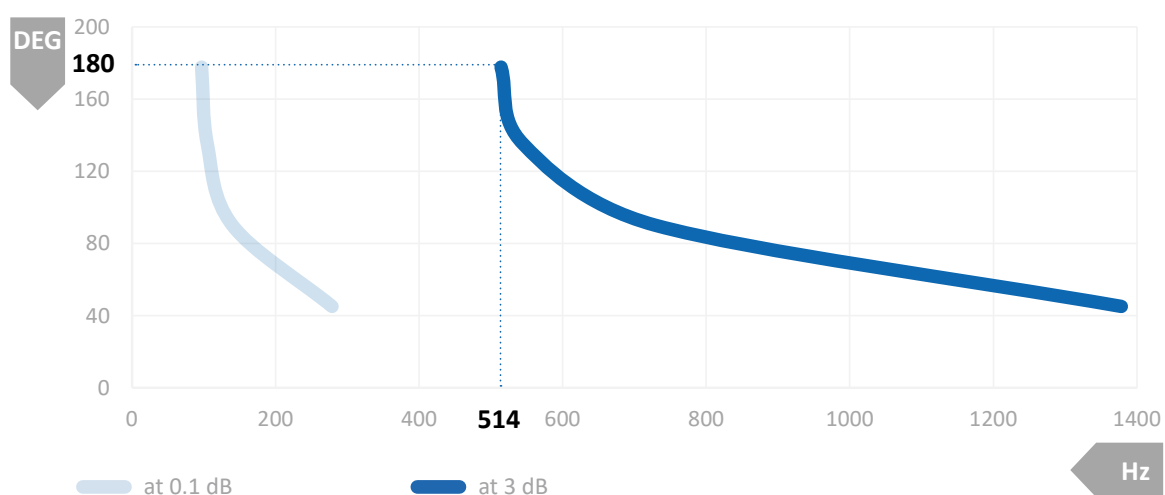
Acoustic Camera Mikado set



Soundcam Mikado

SIZE AND WEIGHT	
Array-body dimensions	45 x 35 x 15 cm
Weight	1.7 kg (3.4 kg incl. battery and Microsoft® Surface)
FEATURES	
Video camera	Intel® RealSense™ Depth Camera D435 Opening angle 77°
Resolution	1920 x 1080 (Full HD)
Additional channels	48 to 192 kHz (32 bit)
Interface	4 digital channels
OPERATING CONDITIONS	
Ingress protection code	IP20
Operating environment	0 °C – 35 °C (handheld operation) -10 °C – 45 °C (desktop operation)

MICROPHONE DATA (BY KNOWLES)	
Microphones	MEMS
Frequency response	10 Hz – 24 kHz 100 Hz – 5 kHz (< 0.5 dB) 100 Hz – 11 kHz (< 3 dB)
Max. sound pressure level	121 dB at 10 % THD
Noise level	30 dB(A)
Sensitivity (1 kHz, 94 dB SPL)	-26 dBFS
ARRAY DATA	
Channels	96
Recommended measurement distance	
Beamforming	> 0.3 m
Acoustic holography	< 0.15 m
Acoustic mapping range (min. – max.)	9 dB – 120 dB
Recommended mapping frequencies	
Beamforming	500 Hz – 24 kHz
Acoustic holography	30 Hz – 2 kHz with Nearfield
Dynamic range*	15 dB – 27 dB, up to 50 dB with Advanced Algorithms



Calculation of the lowest frequency (Hz) at 180° opening angle (DEG)

* Distance to the source: 1 m; calculation points: 90,000

