

Acoustic Camera Array Ring48 AC Pro

48 Channel System for 2D Measurements



BENEFITS

- Universal tool for sound localization in the high frequency range
- Easy handling and accurate microphone positioning
- Suitable for the most diverse measurement environments
- Suitable for difficult to access measurement environments

APPLICATIONS

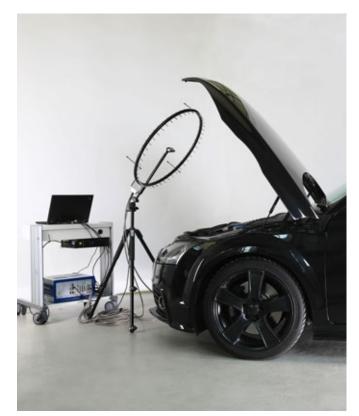
- High frequency component testing
- Beamforming measurements in acoustic labs
- Quality management in design and development of products
- Troubleshooting for small and medium sized measurement objects

The 48 channel ring array is primarily designed for measurements in acoustic laboratories, but is also used in a wide range of other applications and environments, such as component testing and troubleshooting.

The light carbon structure ensures easy handling and quick, precise array positioning.

This array design can be used universally and is the most popular in the array portfolio of gfai tech GmbH. The ring geometry ensures the greatest versatility and best possible local resolution of the acoustic map.

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





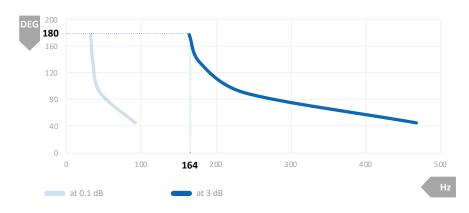


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SIZE AND WEIGHT		
Array-body diameter	75 cm	
Weight	1.2 kg	
FEATURES		
Video camera	Intel® RealSense™ Depth Camera D435 Optional: Baumer VCXG-25C	
Resolution	1920 x 1080 (Full HD)	
OPERATING CONDITIONS		
Ingress protection code	IP20	
Cable length to data recorder	up to 20 m (on request: 50 m)	
Operating environment	0 °C- 35 °C, up to 80 % RH (RealSense) 0 °C- 45 °C, up to 80 % RH (Baumer)	

MICROPHONE DATA

Microphones	Electret condenser capsule + special designed preamplifier	
Frequency response	20 kHz – 60 kHz (< 15 dB) 100 Hz – 15 kHz (< 0.5 dB) 20 Hz – 20 kHz (< 3 dB)	
Max. sound pressure level	130 dB at 3 % THD	
Noise level	27 dB(A)	
Sensitivity	20 mV/Pa	
ARRAY DATA		
Channels	48	
Recommended measurement distance	> 0.5 m	
Acoustic mapping range	12 dB – 130 dB	
Recommended mapping frequencies	164 Hz – 20 kHz (60kHz)	
Dynamic range*	8 dB – 11 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

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