

Acoustic Camera Array Ring72 AC Pro

72 Channel System for Various Measurement Scenarios



The 72 channel ring array is primarily designed for 2D measurements in acoustic laboratories, but also for outdoor measurements of larger objects. The lightweight array body is designed as slim as possible and is made of aluminum. This ensures easy handling and quick, precise array positioning.

The ring geometry ensures the greatest versatility and best possible local resolution of the acoustic map. With 120 cm diameter the Ring72 allows you to cover wide range of frequencies down to 105 Hz.

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

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

- Innovative tool for fault detection and quality control
- Sound localization based on variations in sound emissions
- Engine measurements
- Troubleshooting for larger objects





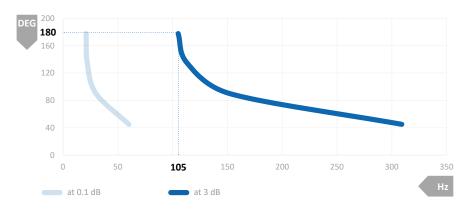


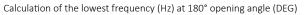
Acoustic Camera Array Ring72 AC Pro

SIZE AND WEIGHT		
Array-body diameter	120 cm	
Weight	4 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 peak at 3 % THD	
Noise level	27 dB(A)	
Sensitivity	5 mV/Pa	
ARRAY DATA		
Channels	72	
Recommended measurement distance	> 1.0 m	
Acoustic mapping range	10 dB – 130 dB	
Recommended mapping frequencies	105 Hz – 20 kHz (60 kHz)	
Dynamic range*	8 dB – 12 dB, up to 50 dB with advanced algorithms	





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

gfai tech GmbH Volmerstraße 3, 12489 Berlin, Germany www.gfaitech.com E-Mail: info@gfaitech.de Tel.: +49 (0)30 81 45 63-750

© gfai tech GmbH, Ring72_AC_Pro_Datasheet_V01-02(06-2025)-en

