

## Acoustic Camera Array Paddle2x52 AC Pro

104 Channel Intensity System for Low Frequencies



#### BENEFITS

- Compact and easy to use
- Very fast and flexible test setup
- Portable handheld system
- Sound maps of intensity and pressure
- Operating in non-ideal test environments
- Back noise suppression trough intensity method
- Rear reflections have no influence on the measurement result
- Trigger button for a fast and easy localization of the sound sources

### APPLICATIONS

- Very low frequencies
- Stationary sound sources
- Medium to large sized consumer products
- Underhood measurements
- Sound pressure measurements

The Paddle2x52 array consists of 52 intensity probes – one pair of microphones each. This enables a local mapping of intensity, which is proportional to the sound power. Therefore, the Paddle shows a local intensity distribution, usefull for identifying complex sources at close range.

Due to the intensity probes used, the array has a strong directivity. Therfore, the measurements can focus on individual machine sections while also being achievable in acoustically unfavourable environments.

The Paddle is used for acoustic near field measurements at low frequencies. This array is impressive not only visually, but functionally. While the array design is acoustically transparent and stable, it is also easy to handle.

An integrated Baumer VCXG-25C with wide-angle lens provides ideal reference images for the short working distances.







# Acoustic Camera Array Paddle2x52 AC Pro

SIZE AND WEIGHT		
Array-body dimensions	71 x 35 x 16 cm	
Weight	1.6 kg	
FEATURES		
Video camera	Baumer VSXG-25C (wide-angle lens)	
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 – 45 °C, up to 80 % RH	

### 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	27.5 dB(A)	
Sensitivity	20 mV/Pa	
ARRAY DATA		
Channels	104 (= 52 intensity probes)	
Recommended measurement distance	> 0.1 m	
Acoustic mapping range	23 dB – 130 dB	
Recommended mapping frequencies	30 Hz – 2 kHz	
Dynamic range	9 dB – 25 dB	

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