Paddle2x24 AC Pro

48 CHANNEL INTENSITY SYSTEM FOR LOW FREQUENCIES

The Paddle2x24 consists of 24 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, useful for identifying complex sources at close range.

Due to the intensity probes used, the array has a strong directivity. Therefore, 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 VLG-22C with wide-angle lens provides ideal reference images for the short working distances.

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

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TECHNICAL DATA

Size and Weight

Array-body dimension	34 x 32 x 16 cm
Weight	1.5 kg

Features

Video camera	Baumer VLG-22C (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 Hz – 15 kHz (< 0.5 dB) 10 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 (= 24 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 – 23 dB

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