Mecanum | We Build Silence

LF-ANT

3D Acoustic Camera

Distributed & Maintained by

MATELYS
Research Lab

Mecanum's fully autonomous, all-in-one 3D acoustic camera is suitable for finding quickly and easily unwanted sound and vibration issues, as well as leakage detection and quality management.

Thanks to its 3D video camera, 32 microphones and specific antenna shape, it allows you to instantly locate noise sources.

SPECIFICATIONS

Size & Weight

- Dimensions: 420 (L) x 140 (W) x 405 (H) mm
- Weight: 2.9 kg battery included

Embedded Computer

- CPU: 6-core NVIDIA Carmel ARM 64-bit
- GPU: 384-core NVIDIA Volta GPU
- Storage: 128 GB SSD

3D Camera

- Depth range: 0.1 - 15 m
- Depth FOV: 100° (L) x 60° (W) x 90° (H)

Industrial Grade High Bright Touch Screen

- Screen size: 7"
- Resolution: 800 x 480

Power

- Battery + charger: 20 V - 4 Ah Dewalt rechargeable
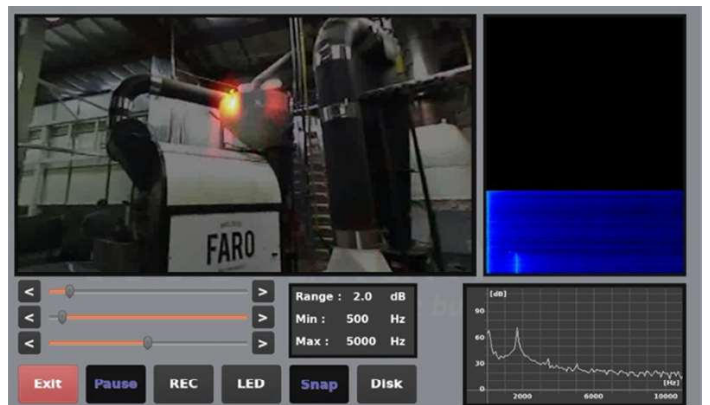- Autonomy: 2 hours

Acoustic Array

- Microphones: 32 x MEMs low-noise 24-bit mics
- Algorithm: GCC-PHAT Beamforming
- Measurement distance: ≥ 0.75 m
- Dynamic range: 0.1 - 15 dB
- Mapping frequency (⅓ octave band): 315 Hz - 10 kHz

File Export

- Print screen
- Video (.xvid)
- Raw data

LFX Software (Essential)

- Replay .xvid files with instant & waterfall spectra
- Read raw data:
  - Calculate new image with other camera settings
  - Improve video image

WARRANTY & SUPPORT

All Mecanum characterization systems are covered by a one-year limited warranty and technical support. Valid only on manufacturing defects and does not cover damage due to abuse or improper use of the equipment.

Please note that the technical aspects of our equipment may be subject to change without notice