



PD Tech 佰迪科技

Product Presentation

Applicant Name: PD Technologies Ltd

Product Name: BATCAM2.0 Ultrasonic
Sound Camera

Specification:

Specifications

Sensor(Microphone)	112 Ch Digital MEMS
Effective Frequency Range	2 k ~ 48 kHz
Microphone Sensitivity	-41 dBFS
Signal-To-Noise Ratio	66 dB(A)
Camera Frame Speed	25 FPS
Detection Distance	More than 0.3 m
Display Type	5" Mono Color LCD
Battery Operation Time	4 Hours
Product Size	237 mm x 146 mm x 56 mm
Product Weight	1.2 kg
Operating Temperature	-20 ~ 50 °C

- Core Functions:

Visualize Gas Leaks, Electric Faults, and
Mechanical Condition Monitoring

Measurement of Noise and Identification of Causes

Noise Diagnosis and Evaluation in Industrial and
Construction Sites

- Technology Used:

112 Ch Digital MEMS with video imaging

- Construction Process involved:

Reduce noise pollution, machinery abnormal noise
pinpointing, air leak on sealings

- Key Improvement in Construction Process:

Productivity

Quality

Safety

Environmental

Job Reference: 2021 Trial CEDD, Build King, CLP,
HKE, Towngas, MTR, Hospital Authority

Innovative Features

- Core Technology:

112 Ch Digital MEMS with Video Imaging

- Patent (if applicable): [US20140241548A1](#), [WO2013024926A1](#), [WO2017200300A2](#)

- Comparison with current practice and popular models:



	BATCAM2.0	Sound Meter HLES-01
Channel	112	1
Frequency	2k - 48 kHz	20Hz - 12.5kHz
Noise Filter	Yes	NA
Pinpoint	Yes	NA
Video	Yes	NA
Photo	Yes	NA

- Comparison with similar Pre-approved list products and competitors:
 - Frequency range 2k – 48kHz in one system
 - 112 Channel
 - Noise range adjustment by one click
 - Visible noise source
 - Pinpointing exact location instead of measuring environment noise only
 - Traceable record
- First Launch Date: 2020
- Awards (if applicable):

Adoption Example



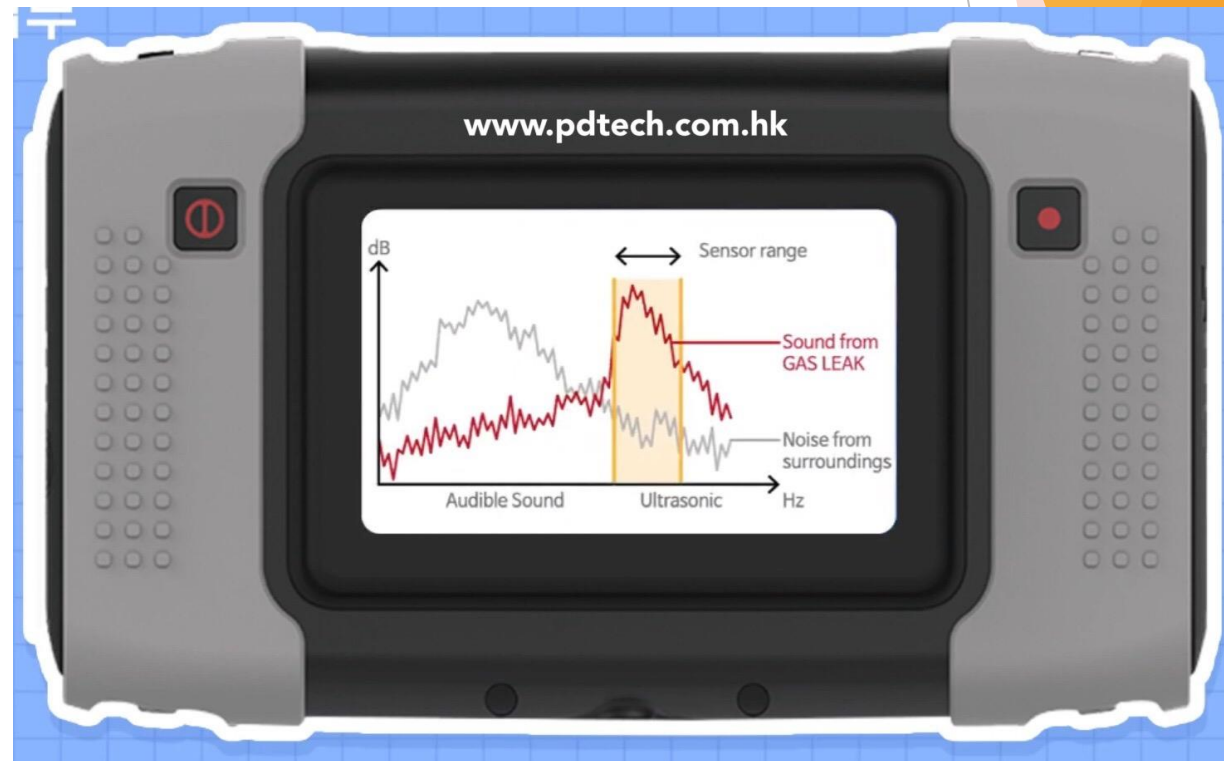
Benefits – Productivity (if applicable)

- Improve productivity by:
 - Reduce downtime due to noise complain from nearby residential area.
 - Increase efficiency and effectiveness by noise and video inspection at the same time.
 - Leak detection and pinpointing at the same time.



Benefits – Quality (if applicable)

- Improve quality by:
 - Identify and reduce the number of noise source
 - Inspect quality of soundproof materials (sound leakage point inspection)
 - Identify abnormal noise from construction machine
 - Tracible record



Benefits – Safety (if applicable)

- Improve Safety by:
 - No wires (so no trip hazards).
 - No-contact
 - long distance inspection even from buildings next to construction site)



Benefits – Environmental (if applicable)

- Improve Environmental Performance by:
 - Reduce noise pollution.





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