

Ultrasonic / Sound Camera

BATCAM 2.0

Gas Leak · Electric Arc · Abnormal Noise Detection



 SM Instruments



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See What You've Been Missing

Visualize What You Can Hear and What You Can't

Gas Leaks, Electric Faults, Vibration and Mechanical Anomalies

BATCAM 2.0 is the lightest and smallest ultrasonic and acoustic sound camera. This rugged, versatile tool can help you quickly and easily identify a variety of undesirable industrial conditions. With pinpoint accuracy the BATCAM 2.0 allows you to instantly see audible and ultrasonic noises that are hard to detect. With 112 MEMS based precision microphones, the BATCAM 2.0 will help you clearly see what you've been missing.



Easy to Use



**Enable to Make
Quick Diagnosis**



Easy to Share the Result

Characteristic

Hardware

- 112 Digital MEMS Microphones
- Measurement of 96,000 Samples per Second
- 5 inch Touch Screen
- Available 4 Hours
- Including Distance Range Sensor
- Adjustable Lighting
- Temperature/Humidity Sensor (additional options)

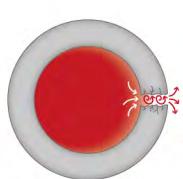
Software

- Real-Time Visualization of Sound
- Desired Frequency Range Filtering
- Image Averaging Function
- Video and Image Storage
- Improved Accuracy according to the Distance

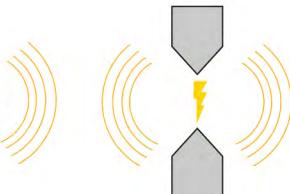


Principle of Ultrasound Measurement

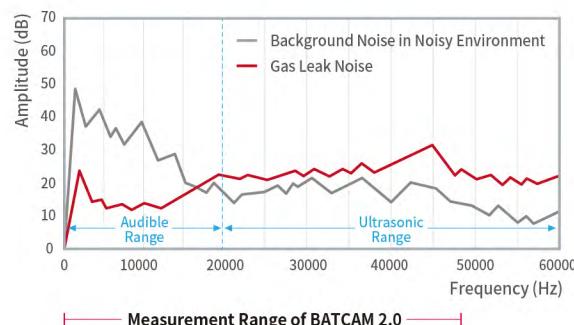
When a gas leak occurs, it results in ultrasonic wave element, higher than the audible frequency. Ultrasonic wave element is also made when electrical arc occurs. Therefore, in noisy environment, ultrasonic wave element can be measured to determine whether or not gas leak and electric arc have occurred and where they have occurred. BATCAM 2.0 has detected a leak at a distance of 0.5 m at 51 cc/min (0.85 cc/sec) with 1.6 bar pressure pressurized.



[When a Gas Leak Occurs]



[When an Electric Arc Occurs]

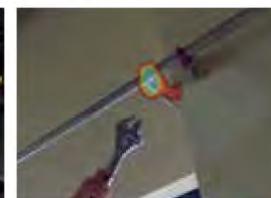
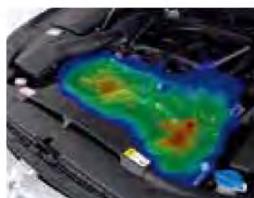


Specifications

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" 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

Application Example

- Visualize Gas Leaks, Electric Faults, and Mechanical Condition Monitoring
- Measurement of Car BSR Noise and Identification of Causes
- Noise Diagnosis and Evaluation in Industrial Sites



BATCAM 1.0

- 30 Ch Analog Ultrasound Sensor
- Measurement of 192,000 Samples per Second
- Characterized by Ultrasonic Signals and Strong in the Surrounding Environment
- 7 inch Touch Screen

