

Main technical parameters, performance advantages and application cases

Acoustic Parameter

Acoustic measurement	128 low-noise MEMS microphones, real-time sound visualisation
F. O. V.	70°
Dynamic Range	more than 120dB
Bandwidth	2kHz-65kHz
Acoustic image framerate	25FPS
Measuring Distance	0.3m to 130m
Functional type	PD & Noise positioning Gas leak location

Physical & Battery Data

Dimension	316mm×196mm×106mm
Weight	1.1kg
Battery capacity	6700mAh@7.2V
Battery life	About 4 hours
Port	USB Type-C, USB PD protocol
capacity factor	Max 20W, single charge max 16W

Environment Parameters

Working Condition	-10℃~+50℃, 10%~95% Non condensing
Storage Temperature	-20℃ to 40℃
Charging temperature	10℃ to 45℃

User Interface

Display	Size: 7" , 1024x600; Colour: 24-bit RGB; Brightness: 1,000 cd/m2
Input device	Capacitive touchscreen
Video image resolution	1640×1234 VIDEO
Video frame rate	25 fps (max)
Acoustic image framerate	30 fps (max)

Communication & Storage

External Storage	64GB SD Card
Internal Storage	8GB, Emergency storage only
Data Storage Format	.jpg & .mp4

Camera

F. O. V.	70°
Focal Length	3.04mm (fixed)
Pixels	8 million
Battery	Li-Ion, 6 Wh

Precautions for using acoustic imager for detection

- Pay attention to avoid excessive external noise interference during detection to prevent positioning deviation
- Open the multi-point positioning mode of the acoustic imager to prevent missing abnormal positioning points
- When testing the site, pay attention to safety measures and maintain a safe distance

Usual methods for detecting gas leaks and abnormal vibrations

Leakage: Generally use soapy water

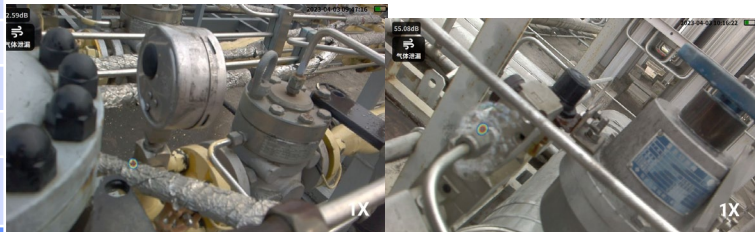
Vibration: contact vibrometer

What are the problems with these usual methods?

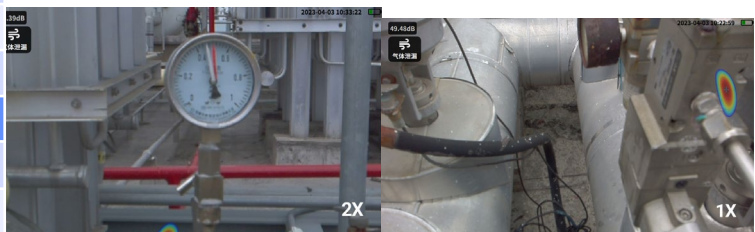
Soapy water can only confirm the leakage of a small number of suspicious points, but can not be investigated in a large area; The contact vibrometer cannot accurately locate the abnormal vibration position.



Inspection case of a chemical plant in Henan province
—Gas leak



An inspection case of natural gas area of an automobile factory in Hunan province—Gas leak



An inspection case of a pharmaceutical chemical plant in Zhejiang Province—Compressed air leakage

Focus Acoustic Camera, making sound and defects visible at a glance

More info: www.irtech.com.cn