

# HZ-HA-170

## Acoustic Imaging Camera



HZ-HA-170 is a high sensitivity acoustic imaging system specifically engineered for the detection of partial discharge issues in high-voltage electrical systems and the gas leaks in compressed gas systems.

Boasting an array of 128 MEMS microphones, this sophisticated system excels in detecting and quantifying various instances of partial discharge while also providing accurate estimations of gas leak rates and associated costs.

Covering audible and ultrasonic frequencies from 2kHz to 65kHz, it facilitates precise sound source localization for advanced diagnostics.

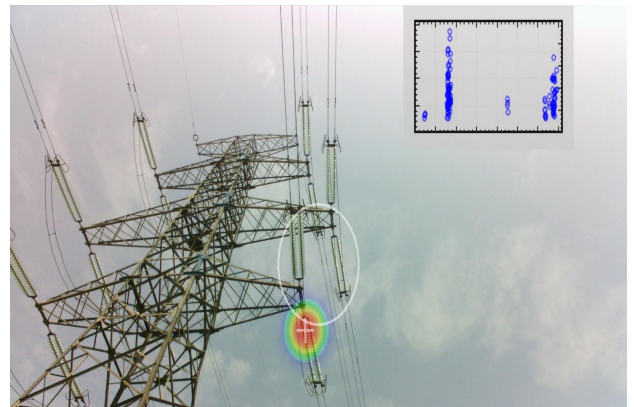
As the world's lightest acoustic camera, it's perfect for inspectors and professionals to swiftly identify efficiency loss and potential failures.

The 5-inch touch screen ensures a seamless user experience, presenting results against a cloud backdrop for easy identification of critical points.

Driven by Hertzinno's AI engine, the system offers intuitive operation, reducing training time and ensuring ease of use.

### Key Feature

- 128 MEMS Microphones
- 2kHz ~ 65kHz detection
- Supports multiple source detection
- Real-time sound source localization
- Real-time partial discharge type prediction
- Real-time estimate gas leak rate, leak cost

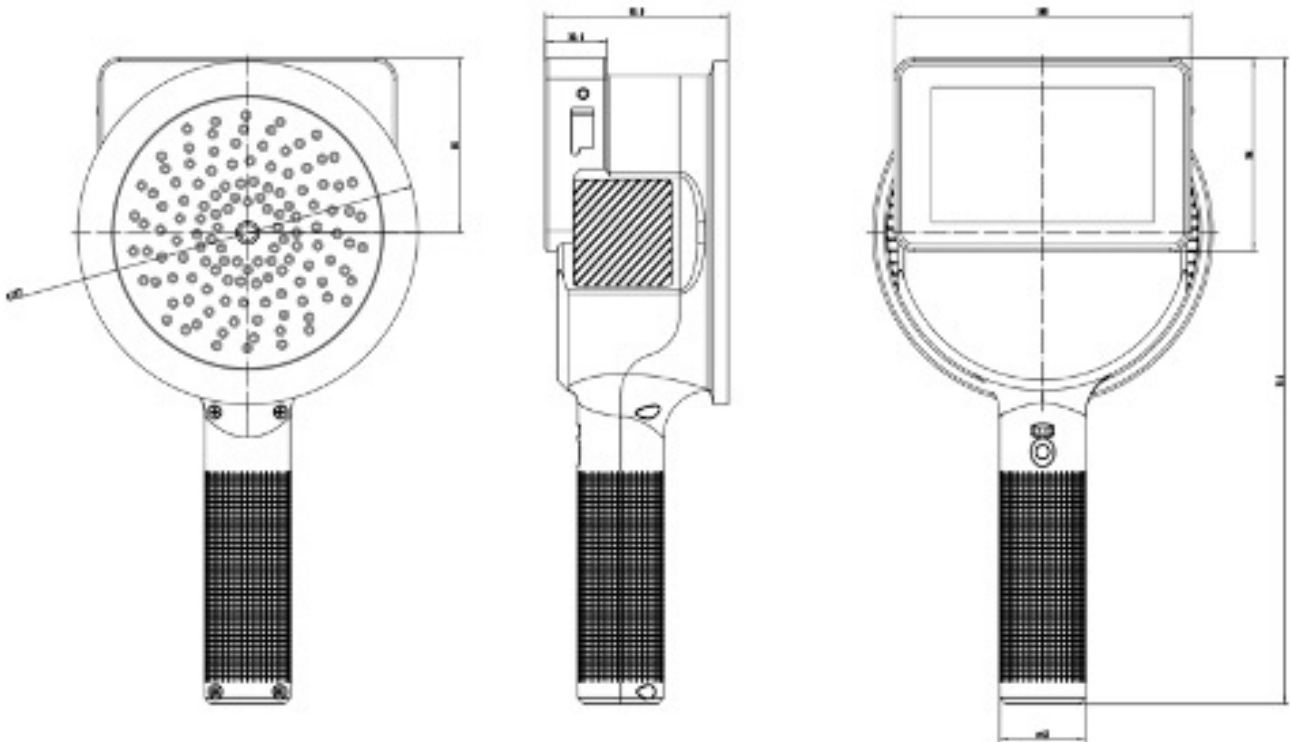


## ■ Specification



<b>Model</b>	<b>HZ-HA-170</b>
<b>Acoustic</b>	
Microphones	128 channel MEMS
Acoustic Image Resolution	800*480 /1920*1080
Dynamic Range of Sensor	30dB ~ 120dB
Sensitivity	-30dB
Distance	0.3~150m (1ft ~ 492ft)
Bandwidth	2kHz~65kHz
Sampling Rate	130kHz
Optical Camera	5MP
Camera FOV	65°
Imaging Frame	25FPS
Focal Length	3.9mm
Digital Zoom	3x
Microphone Self-diagnosis	YES
Source Visualization	Multiple sources detection
<b>General</b>	
Storage	Internal 64GB
Image Format	PNG
Video File Format	AVI
Video Record	More than 2 hours
Display	800 * 480 Resolution, 5-inch Touch Screen
Screen Brightness	Adjustable
Wi-Fi	2.4G/5G
USB	TYPE-A
Battery Operating Time	> 6h
Spare Battery	YES
Power Supply	DC 12V
Protection Level	IP54
Anti-Explosion	ATEX (Ex ib IIIC T80°C Db)
Weight	Approx. 900g
Dimension	342.5mm* 167mm* 89.9mm
Working Temperature Range	-20°C ~ 50 °C
Storage Temperature Range	-30°C ~ 60 °C
Humidity	10% -85%
Annotations	YES
Application Scenarios	Partial discharge detection Air leakage detection.
Leak rate	>0.035 l/min (120KPa @0.3m/1ft) >0.067 l/min (300KPa @3m/9.8ft) >0.09 l/min (300KPa@5m/16.4ft)
AI Analysis Software	YES

## ■ Dimension



1:LCD display 2:Charger indictor 3:Woring indictor 4:Power ON/OFF  
5:Microphone arrays 6:Optical camera 7:Charging port

## ■ Package list

1. Acoustic Imaging Camera(x 1)
2. DC 12V Charging (x 1)
3. Spare Battery
4. Spare Battery cable
5. Carrying Case
6. User Manual
7. Factory test report