# Handheld Acoustic & Thermal Camera



HZ-HA-270P

HZ-HA-270P is a high sensitivity acoustic imaging system specifically engineered for partial discharge detection, pressurized leak detection and mechanical fault detection.

Boasting an array of 138 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.

HZ-HA-270p supports both audible frequency and ultrasonic frequency, for steady-state or high transient sound sources, static or moving objects can obtain excellent detection result.

With a 640*512 resolution thermal module, it supports temperature measurement range from -20 to 550°C, with a NETD (Noise Equivalent Temperature Difference) as low as 40mk.

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

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

hertzinno.com

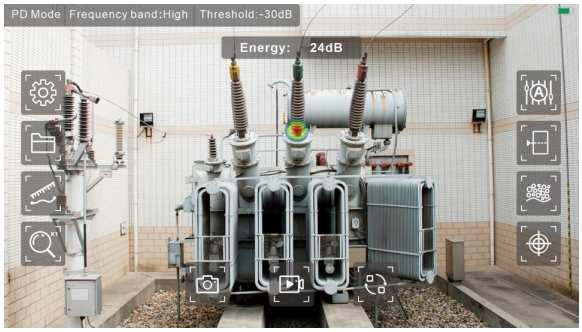
## Key Feature

- 138 Low-noise MEMS Microphones
- Partial discharge type intelligent analysis
- Thermal imaging function
- Multiple sources detection
- Real-time sound source localization
- Partial discharge detection
- Gas leakage estimate
- Mechanical fault detection









# ■ Specification

| Model | HZ-HA-270p |
|---|---|
| **Acoustic** | |
| Microphones | 138 Microphones |
| Dynamic Range of Camera | -30dB ~ 120dB |
| Dynamic Range of Sensor | 30dB ~ 120dB |
| Minimum Imaging Sensitivity | 10kHz：1dB SPL<br>20kHz：-10dB SPL<br>30kHz：-6dB SPL<br>40kHz：3dB SPL<br>50kHz：6dB SPL<br>60kHz：20dB SPL |
| Operating Distance | 0.3m~200m |
| Horizontal Spatial Resolution | 150mm |
| Dynamic Range of multiple targets | 0 ~ 18dB |
| Frequency Bandwidth | 2kHz ~ 65kHz |
| Microphone Self-diagnosis | Support |
| **General** | |
| Thermal Sensor | YES |
| Camera | 13MP |
| Camera FOV | 75° |
| Low Lux | 0.5Lux/F2.0 |
| Photo Image Resolution | 4K (3840*2160), 1080P |
| Digital Zoom | 8x |
| Video Image Resolution | 1920*1080 @30fps |
| Storage | Internal 64GB |
| Video record | 5min |
| Display | 1920*1080P, 5-inch Capacitive Touch Screen |
| Wi-Fi | 2.4G/5G |
| USB | TYPE-C |
| Battery Operating Time | 4h |
| Direct Charging Type | Type-C |
| Protection Level | IP54 |
| ATEX | Ex ib IIIC T80°C Db |
| Dimension | 342.5mm* 167mm* 89.9mm |
| Working Temperature Range | -20℃ ~ 50 ℃ |
| Storage Temperature Range | -30℃ ~ 60 ℃ |
| Humidity | 10% -95% |
| **Applications** | |
| Application Scenarios | Partial discharge/Gas leakage/Vibration |
| Partial discharge Type Prediction | Corona/Floating/Surface/Noise |
| Leaks Rate | > 0.83ml/s, @120kpa from 8m |

## Specification

| Model | HZ-HA-270p |
|---|---|
| Thermal Sensor | 640*512 |
| Temperature Range | -20°C ~ 550°C |
| FOV of Lens | 32.9°x26.6° |
| Geometrical Resolution | 0.92mrad |
| NETD | ≤40mk |

## Dimension

