

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.

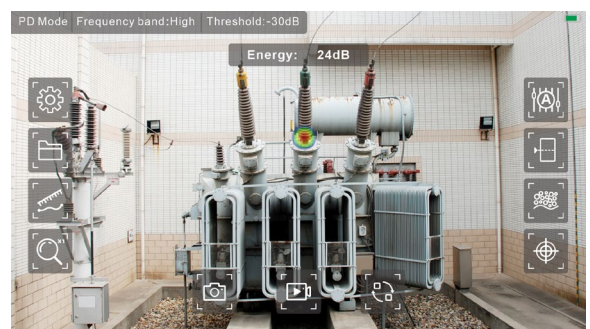
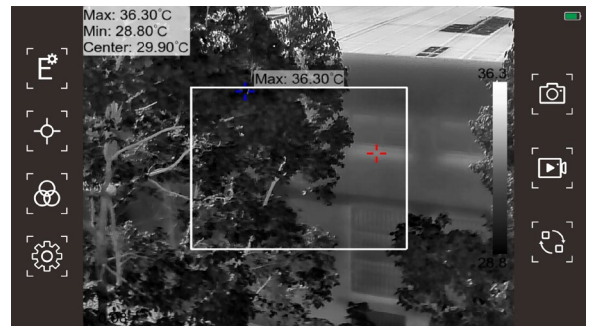
With a 640*512 resolution thermal module, it supports temperature measurement range from -20 to 550°C, with a NETD (Noise Equivalent Temperature Difference) as low as 40mk.

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

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

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

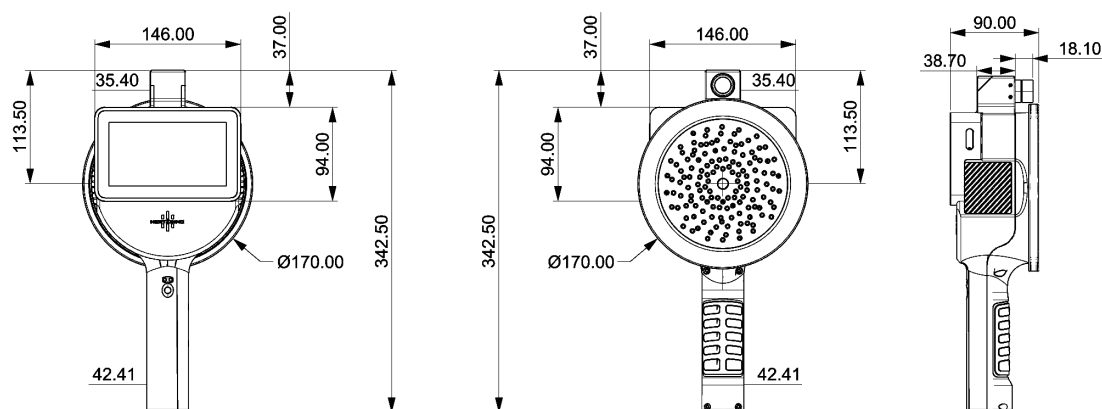
Model	HZ-HA-270p
Acoustic	
Microphones	138 Microphones
Dynamic Range of Camera	-30dB ~ 120dB
Dynamic Range of Sensor	30dB ~ 120dB
Minimum Imaging Sensitivity	10kHz: 1dB SPL 20kHz: -10dB SPL 30kHz: -6dB SPL 40kHz: 3dB SPL 50kHz: 6dB SPL 60kHz: 20dB SPL
Operating Distance	0.3m~200m
Horizontal Spatial Resolution	150mm
Dynamic Range of multiple targets	0 ~ 18dB
Frequency Bandwidth	2kHz ~ 100kHz
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*	720P, 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 Ex ib IIC T4 Gb
Dimension	342.5mm* 167mm* 89.9mm
Working Temperature Range	-20°C ~ 50 °C
Storage Temperature Range	-30°C ~ 60 °C
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



■ Packaging list

1. Acoustic Imaging Camera
2. Charger
3. Power bank
4. Carrying Case
5. User Manual
6. Factory test report
7. Accessory kit

■ Notes

Please note that parameters are subject to change, and we encourage you to refer to Hertzinnno's official announcements for the most up-to-date information.

Hertzinnno reserves the right to provide final explanations for any changes that may occur.

