



H.V. TEST

Specialists in High Voltage
Testing & Diagnostics

HZ-HA-270P

138 Channel Acoustic and Thermal imaging camera (Atex, 4 Hour Battery life, 13MP)

The HZ-HA-270P is an Industrial Acoustic & Thermal Imaging Camera for Partial Discharge Detection, Gas leak Detection, Mechanical Fault Detection and Temperature Detection. The camera is the latest industrial camera equipped with an acoustic array (138 Channel MEMS microphones) and thermal module with ATEX certificated.

It helps you to reduce maintenance costs for electrical equipment by offering an effective solution for partial discharge (PD) faults detection and equipped with a 640x512 resolution thermal camera, it can also be used to detect resistance faults of electrical equipment.

It supports detects, locates, classifies PD faults and Resistance faults. It also supports gas leaks and bearing fault detection functions. This is a 4 in 1 camera to suit the needs.

Projects

Repairs

Services

Training

Products



Features:

- **Cost-Effectiveness:** The partial discharge and gas leak detection functions in a single device allows for the detection of partial discharge, gas leak and bearing faults.
- **Professional Technology:** Relies on a world-class acoustics team and acoustic research institutions, more stable imaging effects and higher sensitivity in imaging performance.
- **User-Friendly:** Designed for single-hand handheld use, with a simple and understandable user interface, support automatic tuning for different applications.
- **AI-Powered:** The acoustic camera built-in AI analysis capabilities, assisting engineers in analyzing PD types, gas leakage amounts and other information.
- **Atex:** Anti-explosion, Ex ib IIIC T80°C Db

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Address: 17 Gaiety Avenue, Robindale, Randburg



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TECHNICAL SPECIFICATIONS

• Microphones	138 Microphones
• Dynamic Range of Camera	-30dB ~ 120dB
• Operating Distance	0.3m ~ 200m
• Horizontal Spatial Resolution	150mm
• Dynamic Range of multiple targets	0 ~ 18dB
• Frequency Bandwidth	Low, Medium, High, Ultra
• Microphone Self-diagnosis	Support
• Camera	13MP
• Field Of View of Camera	75°
• Low Lux	0.5Lux/F2.0
• Photo Image Resolution	4K (3840*2160)
• Digital Zoom	8x
• Video Image Resolution	1920*1080
• Storage Internal	64GB
• Video record	5min
• Display*	1920x1080P, 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
• Anti-explosion	Ex ib IIIC T80°C Db
• Weight	Approx. 1100g
• Dimension	342.5mm x 167mm x 89.9mm
• Working Temperature Range	-20°C ~ 50 °C
• Storage Temperature Range	-30°C ~ 60 °C
• Humidity	10% -95%
• Applications	-40°C ~ 85 °C
• Humidity	10% -85%
• Annotations	Yes
• Application Scenarios	Partial discharge/Gas leakage/Vibration/Temperature
• Partial Discharge Type Prediction	Corona/Floating/Surface/Noise
• Gas Leakage Value Calculation	Yes
• Analysis Software	PC/ Private Cloud
• Thermal Sensor	640x512
• Focal Length of Lens	13mm
• Temperature Range	-20°C ~ 550°C
• FOV of Lens	32.9°x26.6°
• Focal Length of Lens	13mm
• Geometrical Resolution	0.92mrad
• NETD	≤40mk
• Included	Carrying Case, Accessory kit, User Manual, Factory test report

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