

Handheld Acoustic Camera



SonoHawk Base Kit

SonoHawk Base Kit is the newest generation sensitivity acoustic imaging system specifically engineered for the detection of partial discharge issues in high-voltage electrical systems and gas leaks in compressed gas systems.

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.

The camera supports both audible and ultrasonic frequency. It facilitates precise sound source localization for advanced diagnostics.

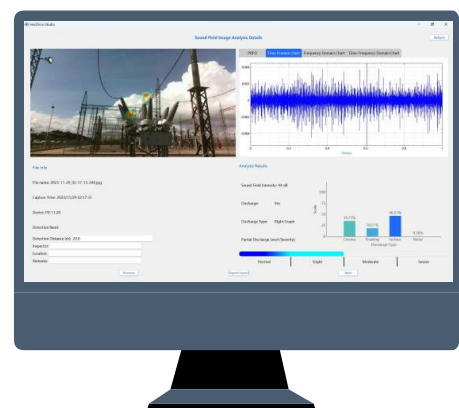
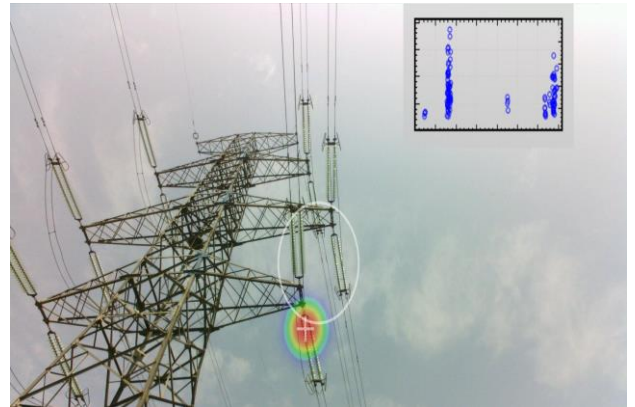
As the world's lightest acoustic camera, it's perfect for inspectors and professionals to swiftly identify efficiency loss and potential failures.

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

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

Key Features

- 138 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
- AI Based Auto-Detection of fault in Software



■ Specification

Model	SonoHawk Base Kit
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 ~ 65kHz
Microphone Self-diagnosis	Support
General	
Camera	13MP
FOV	75°
Low Lux	0.5Lux/F2.0
Photo Image Resolution	4K (3840*2160)
Imaging Frame	60 FPS
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
Weight	Approx. 1100g
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

Handheld Acoustic & Thermal Camera



SonoHawk Pro Kit

SonoHawk Pro Kit 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.

SonoHawk Pro Kit supports both audible frequency and ultrasonic frequency, for steady-state or high transient sound sources, static or moving objects can obtain excellent detection result.

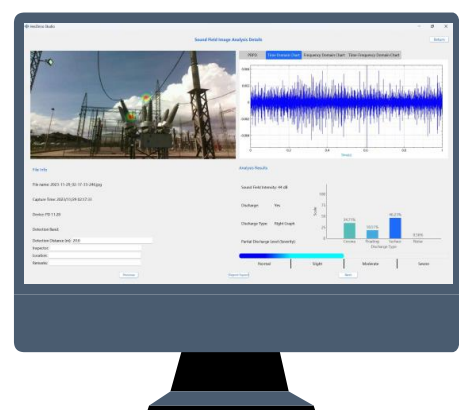
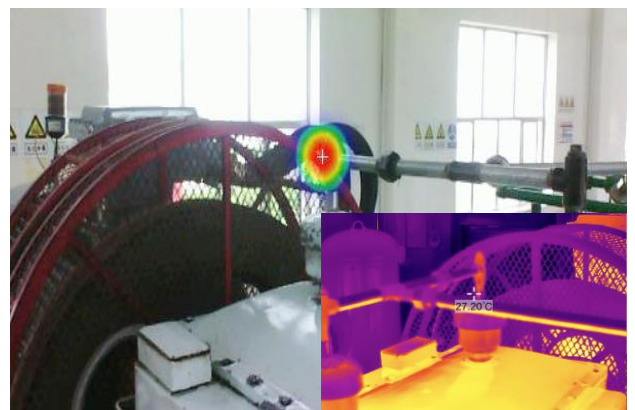
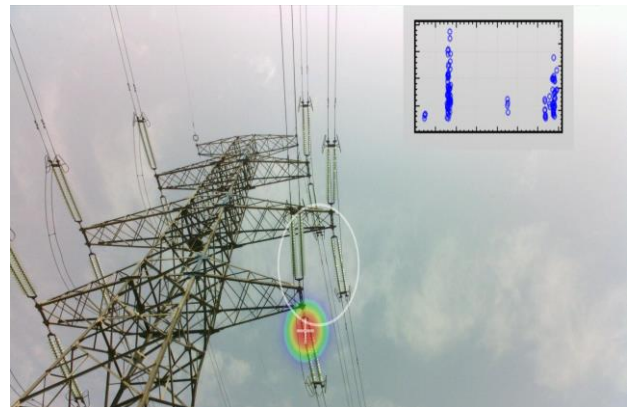
With a 640*512 resolution thermal module, it supports temperature measurement range from -20 to 550°C, with a NETD (Noise Equivalent Temperature Difference) as low as 40mk.

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

Driven by SonoHawk'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
- AI Based Auto-Detection of fault



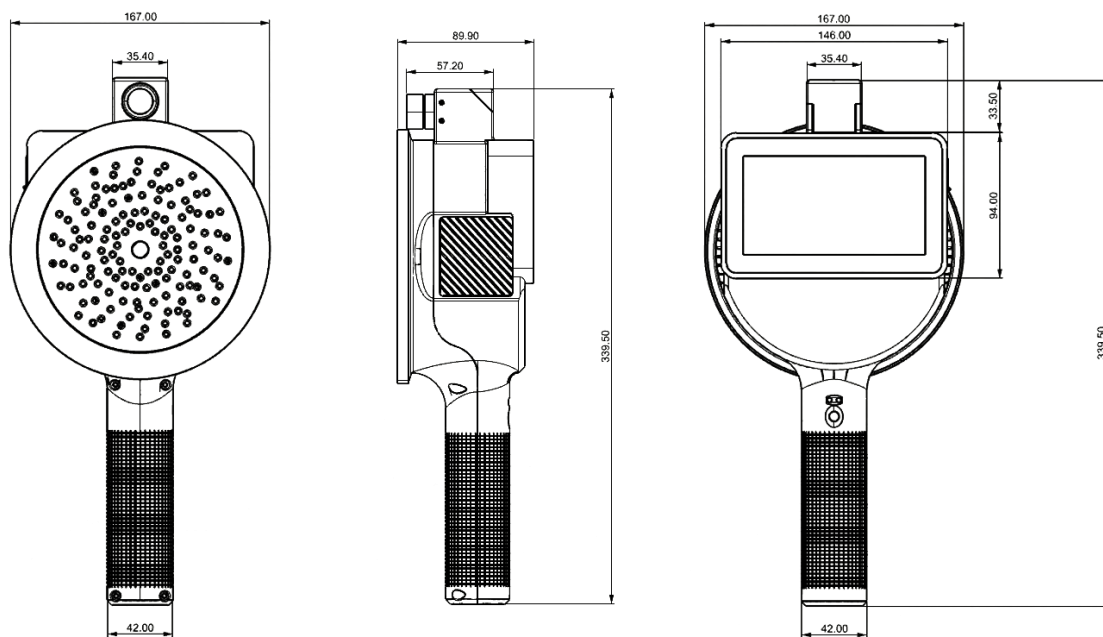
■ Specification

Model	SonoHawk Pro Kit
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 ~ 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)
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 (With spare battery up to 16h)
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°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	SonoHawk Pro Kit
Thermal Sensor	640*512
Temperature Range	-20°C ~ 550°C
FOV of Lens	32.9°x26.6°
Geometrical Resolution	0.92mrad
NETD	≤40mk

■ Dimension



■ Package list

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