

Opti-mize AC500

Acoustic Imaging Camera

- Fast leak detection.
- Acoustic + thermal imaging.
- Reliable industrial inspections.



132 MEMS
Microphones



5.8"
Touchscreen



Acoustic +
Thermal Imaging



Explosion-Proof

Advanced acoustic inspections made easy

The Opti-mize AC500 combines real-time acoustic imaging with integrated thermal inspection. Designed for demanding industrial maintenance, it helps users detect leaks, locate discharge sources and identify abnormal noise quickly and accurately.



Leak localization



Thermal anomaly detection



Adjustable frequency bands

Key benefits



132 MEMS microphone array



Adjustable 2–100 kHz frequency band



0.5–50 m working distance



5.8 inch capacitive touchscreen



IP54 protected housing



ExIICT4Gb explosion-proof certification

Smart operating tools



One-touch capture



Acoustic + thermal all-in-one



Laser ranging 0–30 m



SD card data export

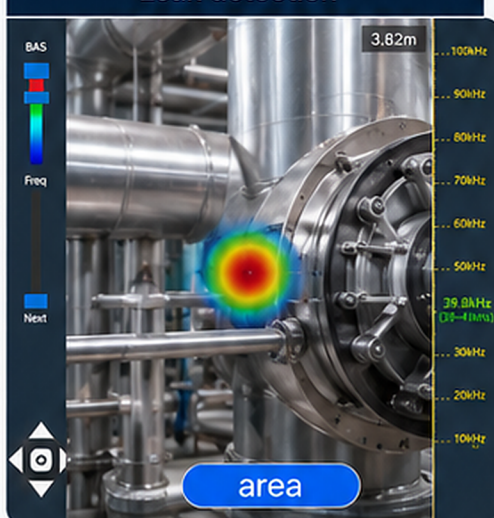


Type-C / HDMI connectivity

Locate problems before they escalate

The AC500 helps maintenance teams visualize sound, confirm thermal anomalies and investigate difficult faults from a safe distance. It is ideal for preventive maintenance, troubleshooting and condition monitoring in industrial environments.

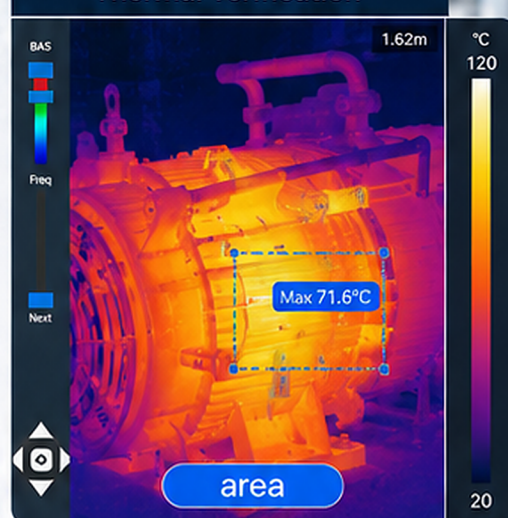
Leak detection



Partial discharge inspection



Thermal verification



Typical applications



Compressed
air systems



Gas &
vacuum leaks



Electrical
inspections



Mechanical
noise analysis



Petrochemical
plants



Power
generation

Why users choose the AC500



Fast response

Captures leakage,
discharge and
abnormal noise in
as little as 0.01 s.



Non-contact inspection

Inspect from a
distance without
interrupting operation.



Adjustable filtering

Tune frequency
bands to reduce
ambient noise.



Integrated thermal imaging

Verify thermal
anomalies in
one device.



Rugged design

Built for demanding
industrial working
conditions.

Specifications

Performance you can rely on.

TECHNICAL SPECIFICATIONS

	Display screen	5.8 inches bright color
	Resolution	1920 × 1080
	Touch screen	Capacitive screen
	Storage medium	≥64 GB, SD card supported
	Number of microphones	132 MEMS digital microphones
	Frequency band	2 kHz – 100 kHz, adjustable
	Sound pressure sensitivity	-26 dBFS (1 kHz, 94 dB SPL)
	Working distance	0.5 – 50 m
	Acoustic imaging pixels	13 million / 4208 × 3120
	Acoustic FOV	>40°
	Frame rate	25 fps
	Thermal infrared pixels	640 × 512
	Thermal infrared FOV	32.9° × 26.6°
	Temperature range	-20 to 120°C / 0 to 500°C
	Temperature accuracy	±3% of range
	Laser ranging	0 – 30 m
	Battery	7.4 V 4500 mAh
	Charging time	3 hours
	Working time	>2.5 h
	Working temperature	-10 to 50°C
	Storage temperature	-20 to 70°C
	Relative humidity	≤85% RH
	Ingress protection	IP54
	Certification	ExIICT4Gb



Acoustic imaging

132 MEMS microphones with advanced algorithms deliver precise acoustic imaging and leak localization.



Thermal module

High-resolution thermal infrared imaging for contactless temperature measurement and hotspot detection.



Data & connectivity

Type-C / HDMI connectivity and SD card data export for efficient reporting and documentation.



Rugged industrial use

Robust construction with IP54 protection and explosion-proof certification for demanding industrial environments.



Typical applications



Power



Petrochemical



Industrial inspection



Chemical



Gas



Marine