

Product Datasheet - Technical Specifications



More information in our Web-Shop at ▶ www.meilhaus.com

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Ultimate Professional Smart Acoustic Inspection

Powerful Upgrade | Long-range Detection

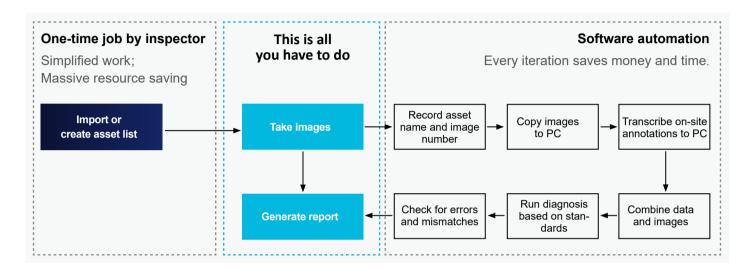


FOTRIC HT

Acoustic Imaging Cameras

NaviPdM® Venus Smart Inspection Assistant

FOTRIC H7 Acoustic Imaging Camera combined with NaviPdM® Venus enables a fully digitalized workflow from data acquisition to management, helping enterprises improve operational efficiency and safety.

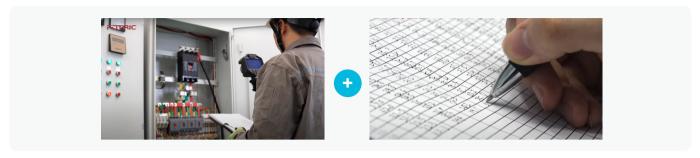


Application Scenarios

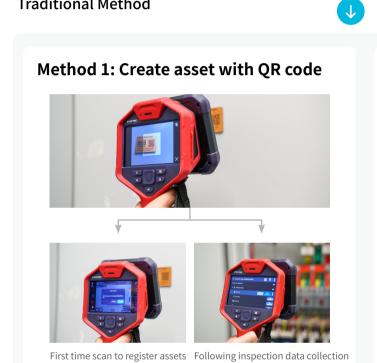
- Equipment maintenance & overhaul: Record equipment status regularly, provide early warnings of potential faults, and reduce downtime.
- Quality control: Capture key acoustic imaging data during production to ensure product consistency.
- Project management: Supply detailed acoustic imaging records to support planning and execution during equipment relocation or new project implementation.

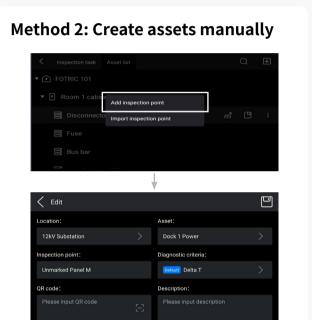


Quick Asset Creation

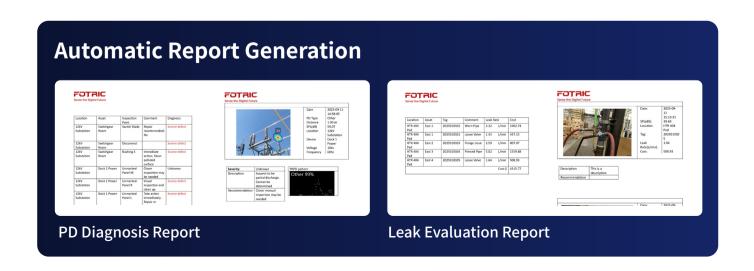


Traditional Method





NaviPdM® Asset Creation

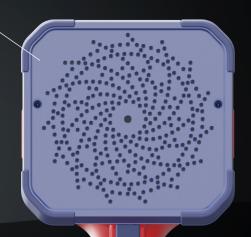


Ultra-Compact Microphone Array

- Spiral topology-optimized array with 345 MEMS digital microphones
- Ultra-high channel count enables wider sound field coverage and finer acoustic mapping, greatly improving inspection efficiency and diagnostic accuracy
- Ultra-long listening range: operational distance from 0.3m to 300m
- Lightweight yet rugged ergonomic design ensures comfortable grip and easy portability

Wide FOV · Industrial-Grade Imaging

- Acoustic image FOV: 66° × 52°
- Industrial digital camera: 13 MP resolution
- Dual LED light source design for superior illumination



Detachable Battery · Extended Endurance

 Removable lithium batteries, with two packs, continuous runtime exceeds 6 hours, meeting full-day inspection needs

Rugged & Reliable · Advanced Protection

IP54-rated durability

Smart Diagnosis



AI PD Defect Diagnosis



Smart Leak Cost Evaluation

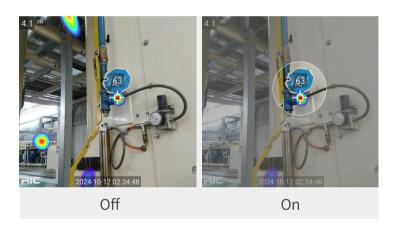
Smart Inspection



Acoustic Image Delay (T-FFTD®)

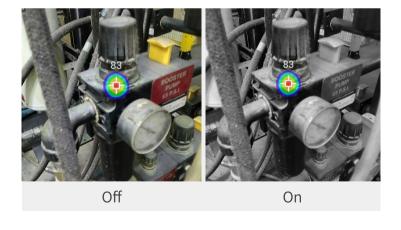
Utilizes a multi-modal transient acoustic matrix to enhance microsecond-level acoustic event retention.

Boost signal retention and enhance inspection efficiency for intermittent sound sources.



Acoustic Image Focus

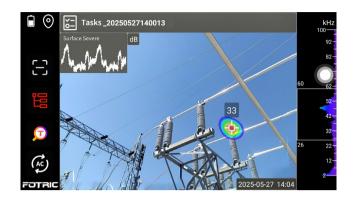
Combines adaptive dynamic noise reduction algorithms to achieve focused localization of sound sources.



Gray Scale Background

Under an industrial-grade gray-scale background, sound signals displays are more prominent.

Smart Inspection



NaviPdM® Venus

Innovative Acoustic Data Management System, enables full-process digitalization from data acquisition to management.



Partial Discharge · Automated Diagnosis

Al identifies surface discharge, floating discharge, corona discharge, and evaluates severity levels



Fast Reporting · On-Device Generation

Directly generates Word or PDF reports on the device, with preview available in the gallery.



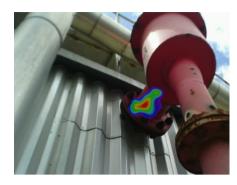
Favorite Function

Highlight, locate images quickly, and manage with ease.

Gas Leak Applications







Partial Discharge Applications







Others



Loosen Bolt



Mechanical Damage



Vacuum Leak



Leaky Tire

Specifications

Parameters	H7
Features	
Microphone Channels	345 MEMS digital microphone
Working Distance	0.3~300m(1~984ft)
NaviPdM Venus	Al Inspection Assistant
T-FFTD®	Capture instantaneous sound signals and make it stay longer in real-time acoustic display.
On-device Report Generation	Support generating word and PDF report
Acoustic Image Focus	Masks the surrounding area and focuses only on a selected part of the acoustic image.
Partial Discharge Diagnostics	Automatic diagnosis of discharge types such as surface, floating and tip (corona) discharges.
Gray-scale Background	Displayed as a digital image in black and white grey scale.
Battery	7.4V, 3500m rechargeable lithium battery, field replaceable.
Basic Parameters	
Acoustic Image FOV	66° × 52°
Acoustic Sampling Rate	200kHz
Acoustic Refresh Rate	25Hz
Frequency Range	2k~100kHz
Detection Mode	Leak Mode: Displays the leakage level; PD Mode: Displays a PRPD diagram, adapted to different AC frequencies (50/60Hz).
On-device Analysis	The device can directly analyse acoustic images.
Analysis Software	AnalyzIR professional thermal and acoustic image analysis software
Display Screen	5", 1280*720 pixels, LCD touchscreen display with Gorilla Anti-Explosion screen.
Image Mode	Single, Multi, Hologram
Digital Camera	13 megapixel, industrial-grade digital camera.
Storage Card	SD card, hot-swappable, supports up to 1TB.
Battery Operation Time	Continuous work ≥ 3h (depends on the environment and workload)
Language	
Languages	English, French, German, Italian, Japanese, Korean, Portuguese, Spanish, Thai, Traditional Chinese

Versatile Power Source

Shared battery with FOTRIC advanced handheld acoutherm and thermal cameras.





A Symphony of Sight and Sound

Where Professional Thermal Imaging Meets Professional Acoustic Technology

A dual-function product excelling in both thermal and acoustic imaging.

Combines the full capabilities of a professional thermal camera and a professional acoustic camera—delivering precise temperature measurement and high-definition imaging, while enabling fast and accurate leak evaluation and partial discharge diagnosis.



