

# A Symphony of **Sight** and **Sound**

Where Professional Thermal Imaging Meets  
Professional Acoustic Technology

**FOTRIC *P<sub>Mix</sub>***  
Acoutherm Camera

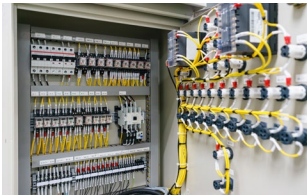


To ensure the peak performance and utmost quality at your facility, every piece of power equipment, production machinery and transmission devices must be inspected with cutting-edge technology.

Identifying potential issues and enabling predictive maintenance requires **professional thermal imaging cameras** and **professional acoustic imaging cameras**.

How do you  
keep track of  
all the potential  
hazards?

Electrical equipment overheating



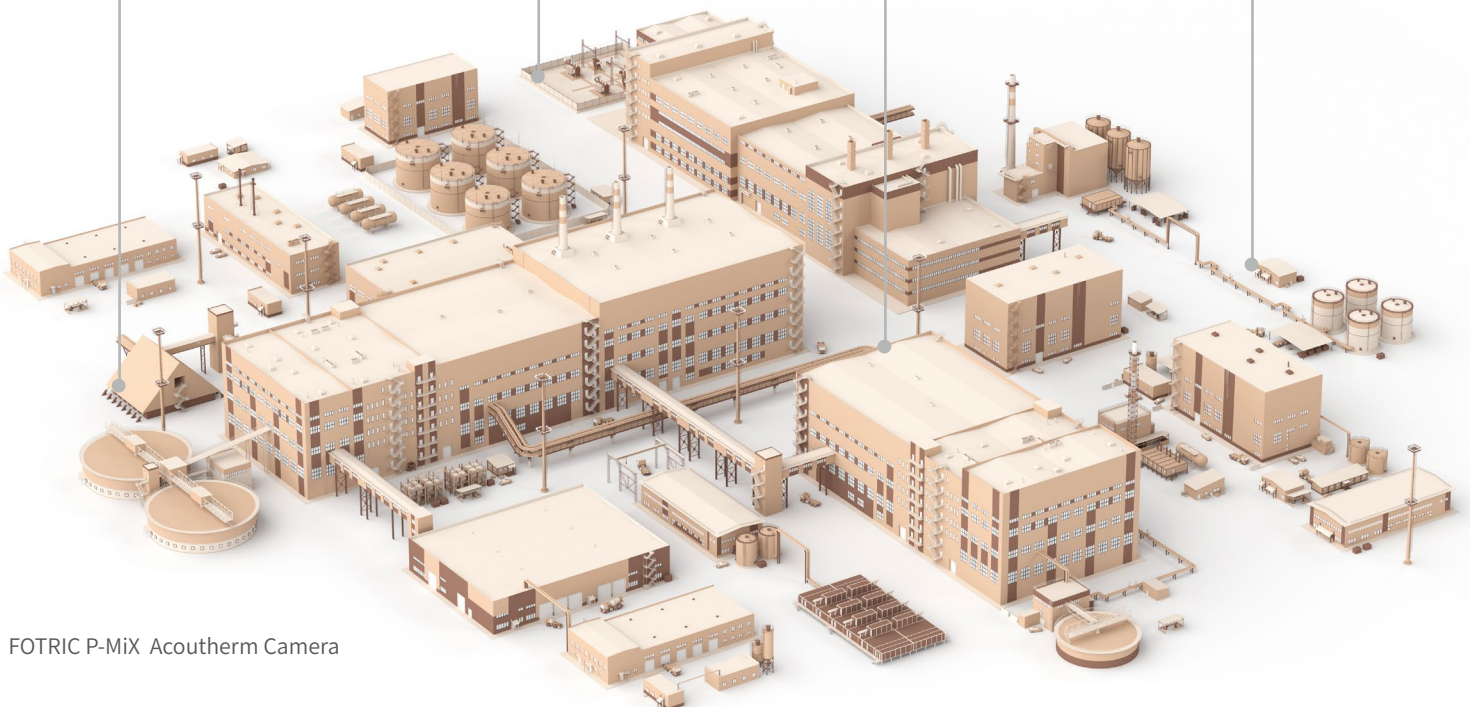
Substation partial discharge



Pipeline leakage



Noise and vibration



During routine facility inspections,

## **SEVERAL pieces of equipment**

are required.

This includes thermal camera, PD detector, leakage detector, among others.



## **However,**

these tools separately are often cost-intensive and inconvenient when every moment counts



**Cost-intensive**



**Excessive strain**

**What if ONE device  
took care of it all for you?**



# FOTRIC's leading INNOVATION:

## Acoutherm Camera

A fusion of a professional thermal camera and an advanced acoustic camera,  
harnessing their combined strength provides you with:

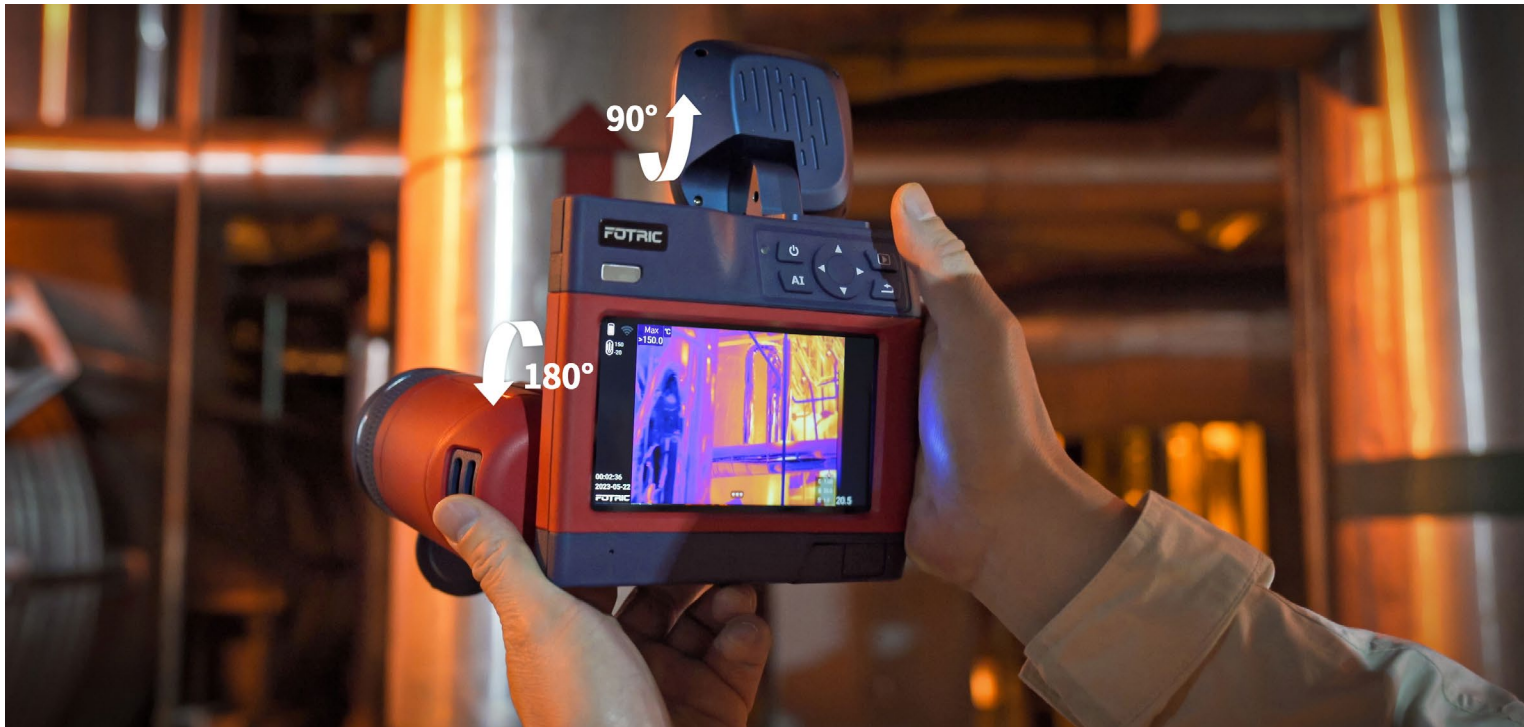
**precise measurement, high-definition imaging,**  
and evaluation of leaks and partial discharges.



# Versatile Design

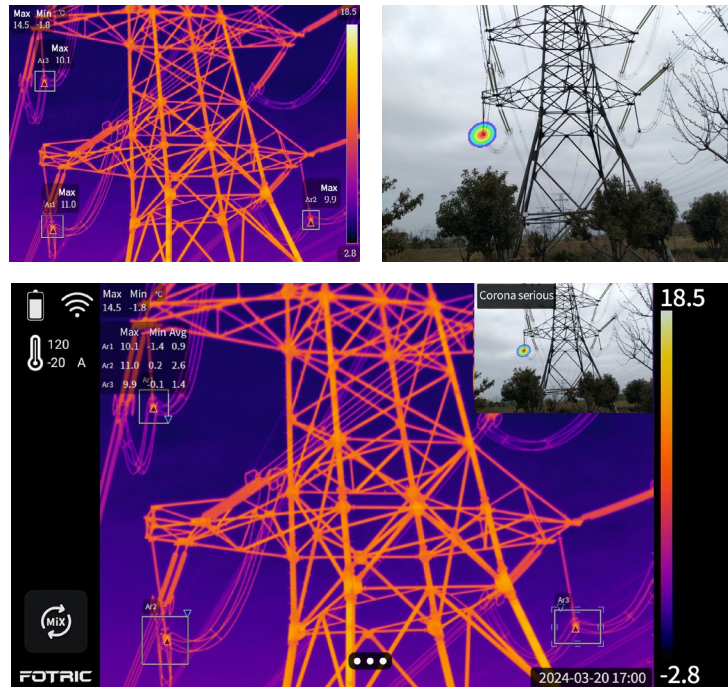
During an inspection, certain areas of the facility may be difficult to access, and the placement of equipment may make it challenging to capture the necessary images.

The FOTRIC P-MiX Camera allows you to get into tight corners and get a greater view of areas out of reach with its rotatable infrared lens barrel and acoustic microphone array. Overhead glares are eliminated, inspectors are kept safer, and your photo quality is no longer compromised by difficult angles.

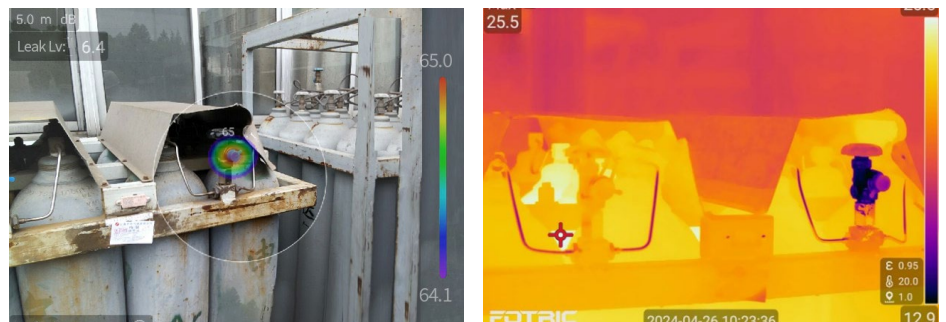


# Approach a problem from different perspectives

In industrial inspections, signals can often be ambiguous, and one method may require validation by another. A signal that is unclear in one device might be more evident in another.



For instance, when inspecting compromised insulators, a thermal camera may only show a minor temperature difference—sometimes as small as  $1^{\circ}\text{C}$ —making it easy to overlook. However, an acoustic camera can reveal a much clearer signal, identifying the type of partial discharge.



Conversely, in industrial leak detection, ambient noise and reflections can obscure acoustic readings. In such cases, pairing an acoustic camera with a thermal camera can immediately highlight the thermal anomalies caused by the rapid convection of leaking materials, confirming the presence of a leak.

# Robust and Meticulous Thermal Imaging

Thermal Mode is the perfect mechanism to switch to when encountering instruments such as:

Electrical equipment, transmission devices, high-temperature containers, insulation equipment, and other equipment with potential thermal failure risks.

## Up to 640x480 Thermal Resolution & IREdge Image Detail Enhancement

Provides clear thermal gradients for easy analysis and preserves thermal details to highlight object contour.

## A Wealth of Selectable Lenses

Single view lenses: 46° , 25° , 12° , 7°

Dual-view lenses: 25° &12° , 25° &7°

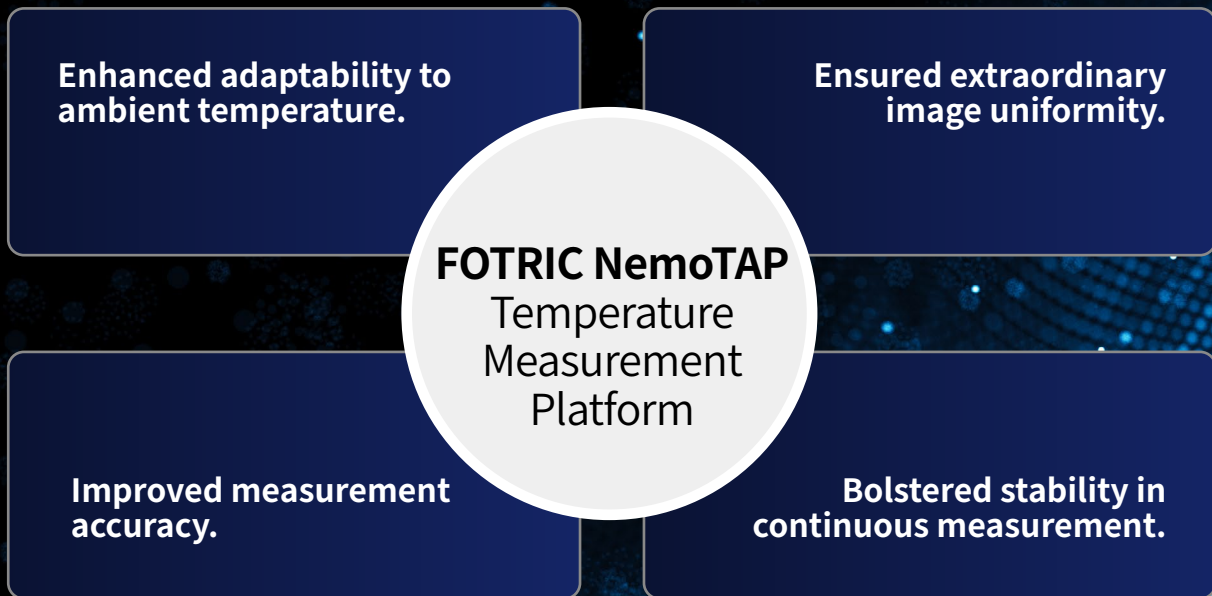
## TurboFocus® Smart Focusing

Ensures image clarity at any distance and any position, laying a solid foundation for AI recognition.

## MagicThermal®

AI-based auto-recognition and feature contour mark up.





Along your inspection route, you may encounter these problems undetectable at a glance:



Partial discharge



Gas pipeline leakage



Abnormal noise/vibration

These issues are made easily detectable by switching to Acoustic Mode.



## AI-empowered Acoustic Mode

### Up to 162 MEMS digital microphones & 13MP digital camera

Unveil acoustic details with unprecedented clarity.

### Partial Discharge Diagnosis

Surface, floating, corona discharge

### Leakage Evaluation

Leak level, leak rate, leak cost

### Filter Mode

Narrow the focus of the camera to an isolated area, screening out unwanted noise.

### Signal Delay Mode (T-FFTD®)

Extrapolate intermittent signals to enhance camera detectability.

In real-world scenarios, many equipment failures result from complex factors. Analyzing from a single dimension may not provide comprehensive or accurate insights.

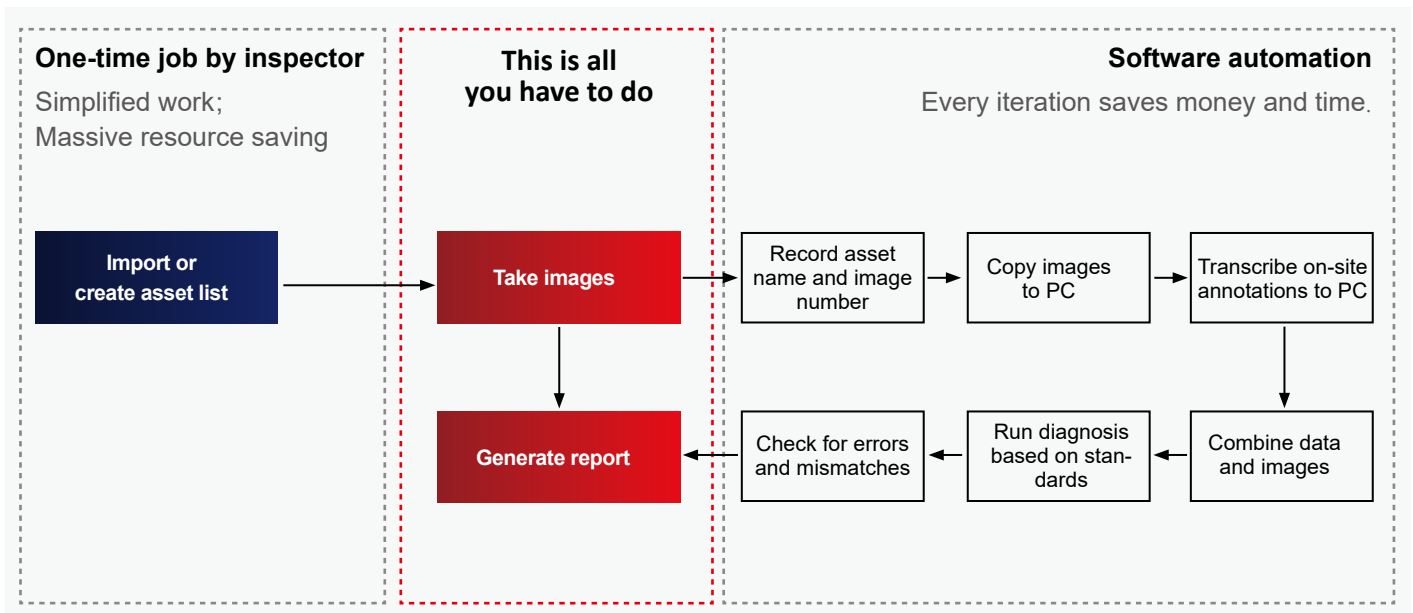
In such cases, activating the device's MiX Mode simultaneously analyzes equipment through both thermal and acoustic dimensions, thereby effectively and rapidly identifying potential hazards.



**NaviPdM®**  
Digital Inspection Assistant

## Boost Efficiency with AI-powered Automation

Approximately 90% of inspectors' time during inspections is squandered on repetitive logistical tasks. 'NaviPdM®' will handle those, allowing you to focus on what truly requires your expertise.



# AI-powered Asset Recognition & Diagnosis

## Asset recognition

- A.I. algorithm on the camera recognizes and tracks previously inspected components with measurement boxes.
- QR code-assisted assets.

## Auto-diagnosis

- NaviPdM® automatically run diagnosis on-device based on user-selected standards such as Delta-T or absolute temperature.
- It keeps a dynamic trend graph of the asset's temperature that makes predictive maintenance easy and intuitive.



Ordinary thermal camera



FOTRIC NaviPdM®

## Built on National Standards, Trusted by Experts

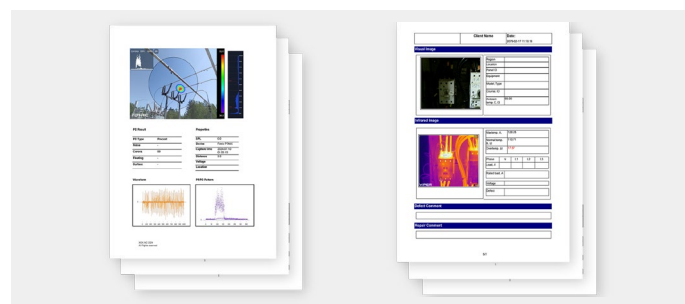
You could painstakingly compare the temperature differences in hundreds of thermal images and assign diagnoses following standards such as NFPA 70B or NETA Specifications or any other nation's standards.

Or you could let NaviPdM® do it for you.

# Professional Software

## AnalyzIR® Venus

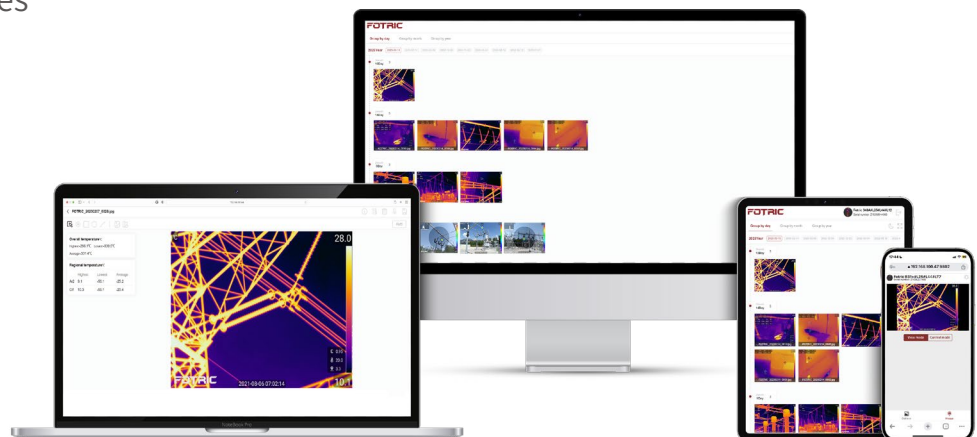
FOTRIC developed AnalyzIR software to distinctively analyze images, videos and other data captured by multiple series of products including thermal cameras, acoustic cameras, and acoutherm imaging devices.



One-click generation of professional reports

## IRexplorer™

- Remote control via WiFi  or Self-equipped Hotspot 
- No need for installation
- Across any platform  Windows  Linux  MacOS/iOS  Android
- Access and edit thermal files



# Specifications

| Model                            | P7-MiX                                                                                           | P5-MiX                                                                           |
|----------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Unique Features                  |                                                                                                  |                                                                                  |
| Mix Mode                         | Display thermal imaging and acoustic signals on the same interface, enabling cross verification. |                                                                                  |
| NaviPdM®                         | Support, AI inspection assistant                                                                 |                                                                                  |
| IRExplorer™                      | Support, cross-platform remote control and data transfer                                         |                                                                                  |
| T-DEF®                           | Support, thermal and visible light image blend, transparency 0% ~100%                            |                                                                                  |
| T-TWB®                           | Support, tempetrature visual representation normalization                                        |                                                                                  |
| IREdge                           | Support, contour detail enhancement                                                              |                                                                                  |
| MagicThermal®                    | AI-based auto-recognition and feature contour mark up.                                           |                                                                                  |
| Hardware                         |                                                                                                  |                                                                                  |
| Thermal Imaging Parameters       |                                                                                                  |                                                                                  |
| Infrared Resolution              | 640 x 480                                                                                        | 384 x 288                                                                        |
| Super Resolution                 | 1280 x 960                                                                                       | 768 x 576                                                                        |
| Detector Type                    | Uncooled infrared focal plane detector                                                           |                                                                                  |
| Thermal Sensitivity (NETD)       | <30mK@30°C (86 °F )                                                                              | <40mK@30°C (86 °F )                                                              |
| Detector Pitch                   | 17μm                                                                                             |                                                                                  |
| Spectral Range                   | 8~14μm                                                                                           |                                                                                  |
| Frame Rate                       | 30Hz                                                                                             |                                                                                  |
| Field of View (FOV)              | 25° x 19°                                                                                        |                                                                                  |
| Spatial Resolution (IFOV)        | 0.68 mrad                                                                                        | 1.14 mrad                                                                        |
| Minimum Focus Distance           | 0.25m(0.82ft)                                                                                    | 0.1m(0.33ft)                                                                     |
| Focal Length                     | 25mm(0.98")                                                                                      | 15mm(0.59")                                                                      |
| Focus Mode                       | TurboFocus® system (thermal contrast AF, laser-assisted AF, continuous AF, touch AF); Manual     |                                                                                  |
| Acoustic Imaging Parameters      |                                                                                                  |                                                                                  |
| Microphone Channels              | 162 MEMS digital microphone                                                                      | 140 MEMS digital microphone                                                      |
| Acoustic Image FOV               | 66° x 52°                                                                                        |                                                                                  |
| Sound Pressure Sensitivity       | 0.01L/min@0.1MPa, 1.5m, φ30μm leakage<br>0.025L/min@0.3MPa, 6.5m, φ30μm leakage.                 | 0.01L/min@0.1MPa, 1.4m, φ30μm leakage<br>0.025L/min@0.3MPa, 6.5m, φ30μm leakage. |
| Sound Pressure Measurement Range | 10kHz: 6~120dB SPL<br>20kHz: -7~120dB SPL<br>35kHz: 8~120dB SPL<br>50kHz: -5~120dB SPL           |                                                                                  |
| Acoustic Sampling Rate           | 200kHz                                                                                           |                                                                                  |
| Acoustic Refresh Rate            | 25Hz                                                                                             |                                                                                  |
| Working Distance                 | 0.3~100m(1~328ft)                                                                                |                                                                                  |

# Specifications

| Analysis Parameters           |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                             |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Analysis          |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                             |
| Temperature Range             | -20~120°C (-4~248 °F ), 0~650°C (32~1202 °F ), Intelligent range                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                             |
| Temperature Extension         | Support extension:<br>Lowest to -40°C (-40 °F ), the measurement accuracy may be greater than 2% in this temperature range;<br>Highest to 2000°C (3632 °F ).                                                                                                                                                                                                                           | Support extension:<br>Lowest to -40°C (-40 °F ); the measurement accuracy may be greater than 2% in this temperature range<br>Highest to 1550°C (2822 °F ). |
| Measurement Accuracy          | ± 1°C (1.8 °F ) or ± 1 %, whichever is greater (ambient temp at 25°C /77 °F , temperature range 0° C-100° C/32 °F ~212 °F ), ± 2°C /3.6 °F or ± 2 % for other temperature range                                                                                                                                                                                                        | ± 2°C /3.6 °F or ± 2 %, whichever is greater (ambient temp at 25°C /77 °F )                                                                                 |
| Measurement Spot              | 18                                                                                                                                                                                                                                                                                                                                                                                     | 10                                                                                                                                                          |
| Measurement Line              | 15                                                                                                                                                                                                                                                                                                                                                                                     | 6                                                                                                                                                           |
| Measurement Area              | 18                                                                                                                                                                                                                                                                                                                                                                                     | 10                                                                                                                                                          |
| Line Temperature Distribution | Support checking line temperature distribution                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |
| Measurement Parameters        | Emissivity, Reflected temperature, Ambient temperature, Humidity, Distance and IR window compensation.                                                                                                                                                                                                                                                                                 |                                                                                                                                                             |
| Local Emissivity              | Support changing emissivity for individual measurement tool.                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                             |
| Area Alarm                    | Area alarm; High temperature alarm and low temperature alarm.                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                             |
| Delta T/Temperature Rise      | Support                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                             |
| On Device Analysis            | Support analyzing radiometric images and videos.                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                             |
| PC Software                   | AnalyzIR®<br>NaviPdM®                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                             |
| Acoustic Measurement Analysis |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                             |
| Frequency Range               | 2~100kHz                                                                                                                                                                                                                                                                                                                                                                               | 2~100kHz                                                                                                                                                    |
| Frequency Range Selection     | Support preset frequency range for different scenarios for later selection; Support manual adjustment for frequency range.                                                                                                                                                                                                                                                             | Support preset frequency range for different scenarios for later selection; Support manual adjustment for frequency range.                                  |
| Gain Mode                     | Noisy environment:<br>Used in scenarios where there is interference from other sound sources.<br>Quiet environment: Used in scenarios where there is no interference from other sound sources. The device amplifies weak sound signals to enhance detection sensitivity.<br>Smart gain:<br>The device automatically adjusts the size of the sound signal based on its characteristics. |                                                                                                                                                             |
| Measurement Spot              | 2                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |
| Measurement Area              | 2                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |
| Detection Mode                | LQ Mode: Displays the leakage level;<br>PD Mode: Displays a PRPD diagram, adapted to different AC frequencies (50/60Hz).                                                                                                                                                                                                                                                               |                                                                                                                                                             |
| Default Detection Mode        | LQ Detection Mode                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |
| AC Frequency                  | Selectable between 50 and 60Hz                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |
| Acoustic Image Focus          | Masks the surrounding area and focuses only on a selected part of the acoustic image.                                                                                                                                                                                                                                                                                                  |                                                                                                                                                             |
| On-device Analysis            | The device can directly analyse acoustic images and holographic acoustic videos.                                                                                                                                                                                                                                                                                                       |                                                                                                                                                             |
| Analysis Software             | AnalyzIR professional thermal and acoustic image analysis software.                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                             |

# Specifications

|                                 |                                                                                                                                                                                                                                                |                  |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Leak Evaluation                 | Automatic identification of leakage points, automatic evaluation of leakage and annual energy costs.                                                                                                                                           |                  |
| Partial Discharge Diagnostics   | Automatic diagnosis of discharge types such as surface, floating and tip (corona) discharges.                                                                                                                                                  |                  |
| Display Screen                  | 5", 1280*720 pixels, LCD touchscreen display with Gorilla Anti-Explosion screen.                                                                                                                                                               |                  |
| Display Parameters              |                                                                                                                                                                                                                                                |                  |
| Thermal Imaging Display         |                                                                                                                                                                                                                                                |                  |
| Image Mode                      | Thermal\Digital\PIP\T-DEF® blend                                                                                                                                                                                                               |                  |
| Palette                         | 16 standard palettes+16 inverted                                                                                                                                                                                                               |                  |
| Minimum Temperature Span        | Auto (Minimum Temp Span 3°C /5.4 °F ), Manual (Minimum Temp Span 2°C /3.6 °F ), Touch-screen(Minimum Temp Span 2°C /3.6 °F .                                                                                                                   |                  |
| Color Alarm                     | High temperature, low temperature, and interval isotherms.                                                                                                                                                                                     |                  |
| Image Overlay                   | Display global max, min, avg and measurement parameters.                                                                                                                                                                                       |                  |
| High/Low Temperature Tracking   | Yes, for both global and regional.                                                                                                                                                                                                             |                  |
| IREdge                          | Support thermal-based contour enhancement.                                                                                                                                                                                                     |                  |
| PIP                             | Moveable and Resizable                                                                                                                                                                                                                         |                  |
| Digital Zoom                    | 1~16x, continuous                                                                                                                                                                                                                              |                  |
| Acoustic Imaging Display        |                                                                                                                                                                                                                                                |                  |
| Image Mode                      | Single, Multi, Hologram                                                                                                                                                                                                                        |                  |
| Palette                         | Support 3 palettes:<br>Red-Blue, Iron, Grey.<br>Supports transparency adjustment.                                                                                                                                                              |                  |
| Gray-scale Background           | Displayed as a digital image in black and white grey scale                                                                                                                                                                                     |                  |
| Information Overlay             | Displays results of leak evaluation;<br>Displays diagnostic results for type of partial discharge.                                                                                                                                             |                  |
| Sound Pressure Tracking         | Special marker tracking the maximum sound pressure spot.                                                                                                                                                                                       |                  |
| Digital Zoom                    | 1~10x, continuous                                                                                                                                                                                                                              | 1~4x, continuous |
| General Features and Parameters |                                                                                                                                                                                                                                                |                  |
| Capture Features                |                                                                                                                                                                                                                                                |                  |
| Digital Camera                  | Thermal: 5 megapixel, industrial grade digital camera;<br>Acoustic: 13 megapixel, industrial-grade digital camera.                                                                                                                             |                  |
| Storage Card                    | SD card, hot-swappable, supports up to 1TB                                                                                                                                                                                                     |                  |
| Single Frame Capture            | Support                                                                                                                                                                                                                                        |                  |
| Time-lapse Capture              | Set the time interval from 2 seconds to 1 hour to save the images of corresponding modes in thermal image mode (IR image, T-DEF®, Picture-in-Picture) and acoustic image mode (single-source, multi-source, holographic) at regular intervals. |                  |
| Image Format                    | JPG (radiometric thermal image), JPEG (holographic acoustic image),<br>JPG (visible light image)                                                                                                                                               |                  |
| Video Format                    | IRS or IRSX (radiometric video), MP4 (non-full radiometric video),<br>MP4 (non-holographic acoustic video)                                                                                                                                     |                  |
| Freeze Image                    | Supports single frame capture, full radiometric video and holographic sound video recording.                                                                                                                                                   |                  |
| QR Code                         | QR codes and bar codes can be scanned as tag annotations                                                                                                                                                                                       |                  |
| Voice Annotation                | Record up to 120 seconds of voice to be saved in thermal image, acoustic image, radiometric and holographic video.                                                                                                                             |                  |

# Specifications

|                                 |                                                                                                                                                                                                            |                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Text Annotation                 | Enter text via soft keyboard to save to thermal, acoustic, and radiometric video.                                                                                                                          |                                                                |
| Tags                            | Enter text via the soft keyboard to save to Thermal and Acoustic images, Radiometric video, which can then be filtered by tags in the gallery.                                                             |                                                                |
| Favorite                        | Click on the 'Favorite' button to save the Favorite status to Thermal, Acoustic images, Radiometric video and highlight it in the gallery preview screen, then filter by 'Favorite' status in the gallery. |                                                                |
| Radiometric Video               | Supports the recording of radiometric video for analysis.                                                                                                                                                  |                                                                |
| MP4 Recording                   | Support non-radiometric, digital camera video recording (for viewing only, not for analysis).                                                                                                              |                                                                |
| Gallery                         | Supports viewing, editing, and deleting already recorded images and video files.                                                                                                                           |                                                                |
| Data Connection                 |                                                                                                                                                                                                            |                                                                |
| WiFi                            | Support 2.4GHz&5GH channel, Support 802.11a/b/g/n/ac                                                                                                                                                       |                                                                |
| Bluetooth                       | Support                                                                                                                                                                                                    |                                                                |
| USB                             | USB Type-C type; USB 3.0 / 2.0 compliant, Support USB OTG.                                                                                                                                                 |                                                                |
| HDMI                            | Micro HDMI type, HDMI 1.4 compliant, Support 1080P imaging video streaming in 60Hz.                                                                                                                        |                                                                |
| FTP Data Transfer               | Connect to the device via WiFi network or the device's own WiFi hotspot, and then access the data in the device via FTP.                                                                                   |                                                                |
| PC Radiometric Video Analysis   | Real time radiometric video analysis through AnalyzIR                                                                                                                                                      |                                                                |
| Remote Access                   | Connect to AnalyzIR via USB Type-C port to view full radiometric video streams, and via HDMI HD port to connect to a display or projector.                                                                 |                                                                |
| Remote Control                  | Mobile and webpage access via IRExplorer                                                                                                                                                                   |                                                                |
| Auxiliary Features              |                                                                                                                                                                                                            |                                                                |
| Software and Firmware Upgrade   | Support local upgrade through USB                                                                                                                                                                          |                                                                |
| Laser                           | Independent key activation;<br>Laser level: 2; Wavelength: 635nm; Power: <1mW; Laser distance: 0.1~50m, Accuracy: d*0.01%±2mm.                                                                             |                                                                |
| Laser-assisted Area Measurement | Support                                                                                                                                                                                                    |                                                                |
| Real-time Distance Measurement  | Real-time calculation of the distance to the sound source from the incoming sound signal of the acoustic sensor.                                                                                           |                                                                |
| LED Flash Lamp                  | Supports torch illumination and flash light mode                                                                                                                                                           |                                                                |
| GPS                             | Support                                                                                                                                                                                                    |                                                                |
| Power System                    |                                                                                                                                                                                                            |                                                                |
| Battery                         | 3.6V, 9900mAh rechargeable lithium battery, field replaceable.                                                                                                                                             |                                                                |
| Battery Operation Time          | Continuous work with Thermal mode ≥ 4h<br>Continuous work with Acoustic mode ≥ 2.7h<br>Continuous work with MiX mode ≥ 2.7h (depends on the environment and workload)                                      | Continuous work ≥ 4h (depends on the environment and workload) |
| Charging Method                 | Support charging dock, and USB direct charging.                                                                                                                                                            |                                                                |
| Battery Charging Time           | Charge to 90% in 2.5 hours.                                                                                                                                                                                |                                                                |
| Energy Management               | Automatically screen rest time.                                                                                                                                                                            |                                                                |
| External Power Source           | Support using DC 12V to power the device.                                                                                                                                                                  |                                                                |

# Specifications

| Reliability and Certificates     |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety                           | SELV(IEC60950-1:2005)                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                   |
| EMC Compatibility                | IEC 61000-4-2                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                   |
| Enclosure Rating                 | IP54                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                   |
| Shock                            | 25g(IEC 60068-2-27:2008)                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                   |
| Vibration                        | 2g(IEC 60068-2-6:1995)                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                   |
| RoHS Compliant                   | Compliant                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                   |
| Physical Parameters              |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                   |
| Operating Temperature            | -20~50℃ (-4~122 ℉ )                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                   |
| Storage Temperature              | -40~70℃ (-40~158 ℉ ) without battery                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                   |
| Relative Humidity                | <95%RH                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                   |
| Dimension (mm)                   | 190mm*181mm*99mm                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                   |
| Weight (include battery)         | 1.6kg/3.5lb (without lens)                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                   |
| Battery Weight                   | 210g/0.46lb                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                   |
| Casing Material                  | Hard plastic: PC+ABS, Soft plastic: TPE, Magnesium alloy, Aluminum alloy, Flame retardancy rating: UL94 HB                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                   |
| Mounting Method                  | Support UNC 1/4-20 interface for tripod connection                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                   |
| Warranty                         |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                   |
| Warranty                         | 2 years                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                   |
| Recommended Calibration Interval | 2 years for thermal camera; 2 years for acoustic camera.                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                   |
| Language                         |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                   |
| Languages                        | English, Spanish, German, Traditional Chinese, Korean, Italian, Portuguese                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                   |
| Configurations                   |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                   |
| Packaging                        | FOTRIC acoutherm camera, Lens, Lens cap, Charging dock, USB to USB-C cable, Micro HDMI to HDMI cable, Documents( certificate of quality, certificate of calibration, warranty card, packing list), Quick start manual, 256G SD card, SD card reader, Power adaptor, 3 pieces of rechargeable lithium battery, Hard carrying case. | FOTRIC acoutherm camera, Lens, Lens cap, Charging dock, USB to USB-C cable, Micro HDMI to HDMI cable, Documents( certificate of quality, certificate of calibration, warranty card, packing list), Quick start manual, 128G SD card, SD card reader, Power adaptor, 3 pieces of rechargeable lithium battery, Hard carrying case. |

## Lens

| Model        | IR Resolution | Specifications    | Standard                         | Wide-angle | Telephoto | Ultra-telephoto     | Dual view 25/12      | Dual view 25/7      |
|--------------|---------------|-------------------|----------------------------------|------------|-----------|---------------------|----------------------|---------------------|
| <b>P7MiX</b> | 640*480       | FOV               | 25° x 19°                        | 46° x 35°  | 12° x 9°  | 7° x 5°             | 25° x 19° \ 12° x 9° | 25° x 19° \ 7° x 5° |
|              |               | IFOV              | 0.68 mrad                        | 1.25 mrad  | 0.33 mrad | 0.19 mrad           | 0.68 mrad\0.33 mrad  | 0.68 mrad\0.19 mrad |
|              |               | Minimum Distance  | 0.25 m                           | 0.1 m      | 1 m       | 3 m                 | 0.25 m\1 m           | 0.25 m\3 m          |
|              |               | Focal Length      | 24.8 mm                          | 13.7 mm    | 51.2 mm   | 82.5 mm             | 25.1 mm\50.7 mm      | 25.4 mm\76.8 mm     |
|              |               | Measurement Range | -20~120°C , 0~700°C , 300~2000°C |            |           | -20~120°C , 0~700°C |                      |                     |
| <b>P5MiX</b> | 384*288       | FOV               | 25° x 19°                        | 46° x 35°  | 15° x 11° | 7° x 5°             | 25° *19° \ 12° *9°   | ——                  |
|              |               | IFOV              | 1.14 mrad                        | 2.09 mrad  | 0.68 mrd  | 0.32 mrad           | 1.14mrad\0.55mrad    | ——                  |
|              |               | Minimum Distance  | 0.1 m                            | 0.1 m      | 0.25 m    | 1 m                 | 0.25m\1m             | ——                  |
|              |               | Focal Length      | 15 mm                            | 8 mm       | 24.8 mm   | 51.2 mm             | 15mm\31mm            | ——                  |
|              |               | Measurement Range | -20~120°C , 0~700°C , 300~1550°C |            |           | -20~120°C , 0~700°C |                      | ——                  |



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