



## PRO AI-1 / PRO AI-1T INDUSTRIAL ACOUSTIC IMAGER WITH THERMAL IMAGER\*



### PRODUCT INTRODUCTION

The MetraVi Pro AI-1 and Pro AI-1T Industrial Acoustic Imagers are standalone systems for acoustic image measurements and signal analysis. No additional equipment is required for basic usage of these devices.

These rugged, versatile instruments can help to quickly and easily identify a variety of industrial conditions like electric faults and gas leaks. With pinpoint accuracy, the Acoustic Imager allows you to instantly "see" audible and ultrasonic noises that are hard to detect.

With its built-in 128 microphone array, it helps you clearly see what you might have been missing otherwise. It can help you quickly detect possible pressurised gas leaks and vacuum leaks in noisy industrial sites; applied to power systems, it can help you quickly identify potential partial discharge fault points.

The MetraVi AI-1T Acoustic Imager with Thermal Imager can change functions between Acoustic Imaging and Thermal Imaging, making maintenance diagnosis more comprehensive and efficient.

### FEATURES

- 128 digital microphone array for real-time visualisation of sound
- 7 inch full colour touchscreen
- 1280x800 resolution
- Directional pickup function for accurate diagnosis
- Batteries are replaceable manually with PD fast charging
- Remote upgrades
- Type C port
- Thermal Imager module (\*Only for Pro AI-1T)
- Supports photo mode, video mode, flexible recording of data at the scene of operation
- Supports high-capacity TF data storage card, test results can be quickly exported, and reported.



\*Images and Specifications are subject to change without prior notice



## PRO AI-1 / PRO AI-1T

### INDUSTRIAL ACOUSTIC IMAGER WITH THERMAL IMAGER\*

#### TECHNICAL SPECIFICATIONS

ATTRIBUTE	SPECIFICATION
Display	7" 1280x800 Capacitive Touchscreen
Power On Indication	Green LED
Video Frame Rate	25fps
<b>CAMERA OPTICS</b>	
Pixels	8MP
Viewing Angle	62° x 48°
Focal Length	Fixed 3.04mm
<b>ACOUSTICAL</b>	
Microphone	128-channel MEMS digital microphone
Bandwidth	2kHz ~ 55kHz, expandable
Acoustic Image Viewing Angle	62°
Sound Pressure Range	30dB ~ 120dB
<b>THERMAL MODULE (only for Pro AI-1T)*</b>	
Infrared Resolution	640 x 512 px
Spectral Response	8 ~ 14μm
NETD	25mK
<b>COMMUNICATION &amp; STORAGE</b>	
Internal Storage	8GB (only for emergency)
External Storage	Expandable TF Card, supports upto 64GB
USB Port	USB 3.0 Type-C
Headphone Jack	3.5mm
<b>POWER SUPPLY</b>	
Battery	3450mAh Replaceable, Rechargeable Lithium Ion (can be used upto 5 hours approx. depending on work environment & application)
Rated Voltage	14.4V
Charging Power	16W
Charging	Supports PD fast charging
<b>GENERAL</b>	
Size	246 x 150 x 46 mm
Weight	1250gms
Protection Grade	IP5X
Environment Temperature	-20° to 50°C
Environment Humidity	10% to 95%
Charging Temperature	0° to 50°C
Accessories	Hand Strap, Shoulder Strap, Charging Stand, Charger, DC to Type C Adaptor, 64GB TF Card, Battery x 2, Headphones, Card Reader, Protective Hard Carrying Case, User Manual, Test Report

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# **METRAVIPRO®**

**PRO AI-1 / PRO AI-1T**

**INDUSTRIAL ACOUSTIC IMAGER WITH THERMAL IMAGER\***

## **APPLICATIONS**

Visualize what you can hear and what you cannot



When an electric arc occurs, it results in ultrasonic wave element, higher than the audible frequency. Therefore, in noisy environment, ultrasonic wave element can be measured to determine whether or not electric arc have occurred and where they have occurred.

One-stop-solution for your online diagnosis



① What your eyes see



② What acoustic imager sees



③ What infrared camera sees



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