

SharpView Product Catalog



FOTRIC Ti series

Advanced SharpView Thermal Camera



Up to
640x480
IR Resolution

Up to
30mK
Thermal Sensitivity

Up to
-20°C ~ 550°C
Temperature Range

TurboFocus®
Focus System

Robust and Versatile

TurboFocus® Intelligent Focus System

Combines thermal contrast AF, laser-assisted AF, continuous AF, touch AF, and manual focus to deliver fast, accurate, and quiet focusing. Seamlessly aligns thermal and digital images for precise analysis.



Robust Design

- 2-meter drop impact resistance makes a truly enduring equipment;
- With an IP54 protection rating, this device is built for demanding industrial environments.
- Up to 8 hours sustainability.



2-meter drop test

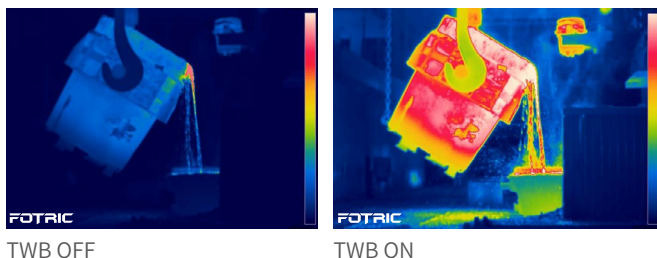
Meticulous Measurement, Impeccable Imaging

Extraordinary Accuracy

- Maintains $\pm 2\%$ accuracy under extreme temperature and high humidity conditions.
- Sensor detects thermal fluctuation as small as 30mk.

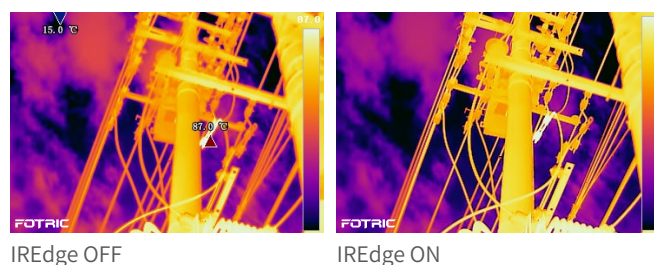
T-TWB®

Automatically adjusts the palette ribbon based on the pixel distribution across temperature ranges, offering a clearer view of temperature distribution for more efficient inspections.



IREdge®

Enhances object contours and edges to improve visibility and differentiation from the background.



Elevated User Experience

Laser-assisted Measurement

Built-in high-sensitivity laser enables instant evaluation of object distance and area, facilitating cost estimation in building/house inspections.

Ergonomic Design

- Pistol grip design, even weight balance.
- Spacious 5 inch LCD screen.
- Equipped with 8 MP digital camera.

On-device Analysis

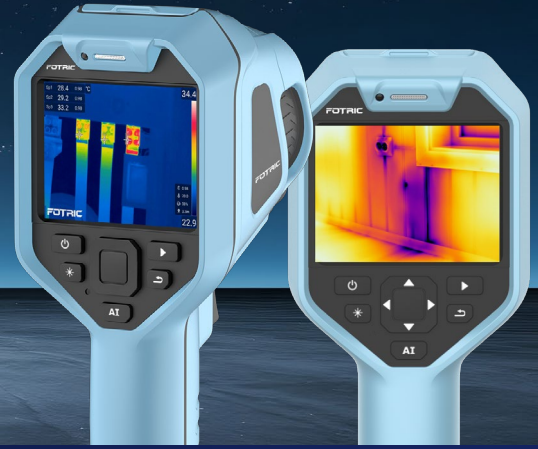
Support editing infrared image measurement parameters, applying and adjusting measurement tools, adding and deleting annotations post inspection.

Extraordinary Connectivity

The IRExplorer™ enable users to remotely access and control the camera with any device that can access web browser, including PC, laptops, and cell phones.

FOTRIC TK series

Compact SharpView Thermal Camera



384x288
IR Resolution

40mK
Thermal Sensitivity

-20~550°C
Temperature Range

Focus free or Manual focus
Focus Mode

Accurate Temperature Measurement

Precision at your fingertips – Perfect focus for flawless temperature readings.

- Manual focus, ensures concise measurement at all distances.
- 40mk thermal sensitivity, unveil subtle flaws. No damp spot ever escapes your sight.

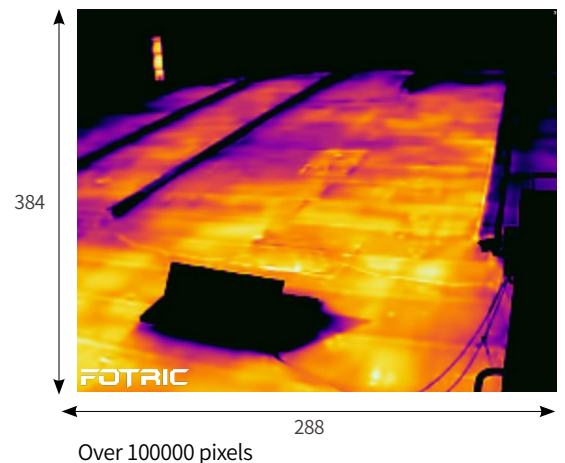


40mk thermal sensitivity reveal every anomaly

Superior Image Quality

Image quality is more about aesthetics, but directly impacts the quality of your presentation.

- 384*288 thermal pixels, presenting your findings with unprecedented clarity.
- Super resolution, boost the performance to expert level.
- T-DEF® Fusion 0~100% adjustable transparency. Select the best way present your finding.
- Touch span to highlight the anomaly against the environment.



Compact and Portable

- Responsive 3.5" LCD touch screen & fast user interface for a smooth professional experience.
- Light-weight, compact design that fits in any toolbox or overall pocket.

Robust and Intuitive Design

A perfect combination of ruggedness ingenuity.

- 8MP industrial grade digital camera, enables flawless inspection result presentation.
- Dust and water resistant (IP54), made for durability and industrial adaptability.
- Spotting moisture spot made easy with isotherm color alarm.

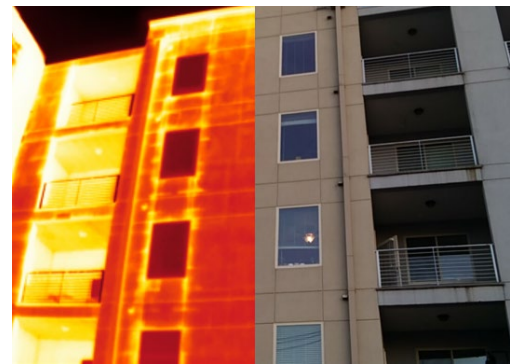
Unparallel Response Speed

Your thermal camera should never slow you down. It's all about user experience.

- Powered by Android, the camera flows as smoothly as your smartphone.

User-friendly Design

- AI programmable button enables instant calling of user-defined function.
- IRExplorer supports remote control and wireless data transfer across platforms.



Specifications

Model	Ti7	Ti5	TK8	TK7	TK6 Kit	TK5 Kit
Infrared Resolution	640 x 480	384 x 288	384 x 288		384x 288	320 × 240
Super Resolution	1280 x 960	768 x 576	768 x 576		——	——
Remote Control Function	Yes, via IRExplorer.					
Thermal Sensitivity (NETD)	<30mK @30°C (76 °F)	40mk@30° C(76 °F)				
Field of View (FOV)	44° x 33°		25° x 19°	49° x 36.8°	25° x 19°	49° × 37°
Focus Mode	TurboFocus® system for continuous, laser-assisted, thermal contrast AF, touch AF; Manual focus		Manual focus	Focus free	Manual focus	Focus free
Temperature Range	-20°C ~120°C (-4~248 °F), 0°C ~550°C (32~1022 °F), Intelligent range					-20°C ~450°C (-4~842 °F)
Measurement Accuracy	± 2°C (3.6 °F) or ± 2 %, whichever is greater (ambient temperature at 15~35° C(59~95 °F), target object temperature >0° C, calibration at 1 meter).					
ROIs	Spot: 12; Line: 3; Rectangle/ Circle: 12	Spot: 6; Line: 3; Rectangle/ Circle: 6	Spot: 6; Line: 2; Rectangle/Circle: 4		Spot: 20; Line: 10; Rectangle/Circle: 10	
On-device Analysis	Support thermal image analysis and editing.				——	——
PC Software	AnalyzIR®					
Display Screen	5 inch touch screen		3.5 inch touch screen			
Image Mode	Thermal image, Digital Camera, Picture in Picture, and T-DEF® Blend.					
Palettes	10 standard palettes		8 standard palettes		6 standard palettes	
Temp Span Mode	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)).				Auto (Minimum Temp Span 3°C (5.4 °F)), Manual (Minimum Temp Span 2°C (3.6 °F))	
Digital Camera	8MP industrial grade camera				5MP industrial grade camera	
Laser	Yes, as ranger and measurement tool.		Yes, as a pointer.			
Storage Memory	SD card, 64 GB		TF card, 32 GB			

FOTRIC TD2e Kit

Acoustic Imaging Camera



64
Microphones

58° × 45°
Field of view

0.3~60m
Operating Distance

2k~100kHz
Frequency Range

Leakage level
Detection Mode

Beyond What's Audible

The FOTRIC TD2e Kit acoustic imaging camera can detect not only audible sound (20Hz~20kHz), but also high-frequency ultrasonic signals that are beyond the range of human hearing.

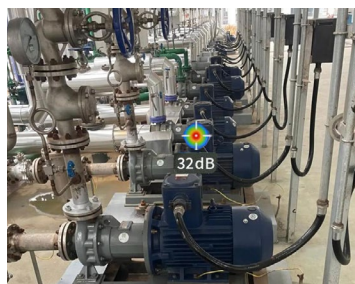
This means it can easily capture things like:



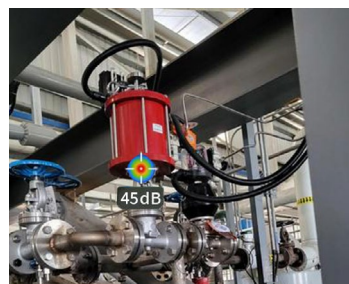
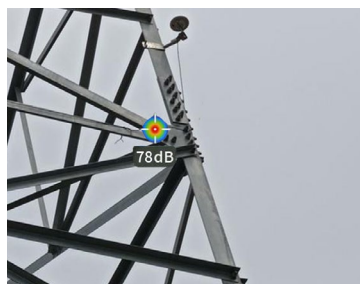
Compressed Air System Leaks



Vacuum System Leaks



Loose Joint Vibration During Operation



Pneumatic Valve Leakage Detection



- High-density microphone array with 64 MEMS digital microphones
- Industrial digital camera: 5 MP, 58° × 45° field of view
- ≥ 3 hours of single-battery runtime, removable; device rated IP54
- Multiple imaging modes: single-source, multi-source, and holographic
- Professional features: sound pressure level measurement, acoustic focusing



TD2e Kit vs Traditional Methods

	FOTRIC Acoustic Camera	Ultra-probe
Detection Speed	Fast identification (within seconds)	Relies on user experience
Visualization	Real-time heatmap display	Not visualizable
Precision	High-precision positioning	Low-precision positioning
Data Recording&Analysis	Supports image export	Not supported
Ease of Use	Pick up and shoot	Requires skilled professionals

Specifications

Model	TD2e Kit
Basic parameters	
Microphone channels	64 MEMS Digital Microphone
Acoustic image field of view (FOV)	58° *45°
Sound pressure sensitivity	0.01L/min@0.1MPa, 1.5m, $\phi 30\mu\text{m}$ orifice 0.025L/min@0.3MPa, 3.5m, $\phi 30\mu\text{m}$ orifice 0.045L/min@0.3MPa, 4.5m, $\phi 40\mu\text{m}$ orifice
Sound sampling rate	200kHz
Image Mode	Single-source, Multi-source, All-source
Working distance	0.3~60m
Positioning frequency range	2k~100kHz
Frequency range selection	Supports manual adjustment of the frequency range Supports displaying the peak frequency
Noise reduction mode	Filters out low-level sounds to reduce environmental interference
Micro detection mode	Captures faint sounds to avoid missing potential issues
Display screen	3.5-inch, 640*480 pixels, IPS LCD touchscreen with explosion-proof cover glass
Digital camera	5MP industrial-grade digital camera
Image format	jpg (acoustic image)
USB interface	USB Type-C, compliant with USB 3.0/2.0 standard
LED illumination lamp	Support flashlight illumination and flash mode
Power system	
Battery type	3.6V, 5000mAh Rechargeable Lithium Battery, Field-Replaceable
Battery operating time	≥ 3 hours per battery(depends on
Reliability and certification	
Protection rating	IP54(GB/T 4208/IEC 60529)
Drop resistance	Designed for 2-meter drop resistance
Languages	
Supported languages	English, German, French, Spanish, Portuguese, Italian, Polish, Japanese, Korean, Traditional Chinese, Thai
Standard product configuration	
Standard configuration	Main unit $\times 1$, Rechargeable Lithium Battery $\times 2$, Charging Dock, Power Adapter, USB Type-C to USB cable $\times 1$, 32GB TF card, Tool holster, Quick start guide, Packing list, Portable Soft Bag, Hard Carrying Case

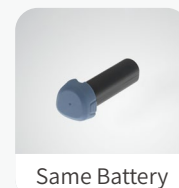
*For more detailed information please refer to the Datasheet.

Versatile Power Source

Shared battery with FOTRIC compact handheld thermal cameras.



FOTRIC TKx series



Same Battery

Company Introduction

FOTRIC Inc. is specializing in innovative thermal and acoustic sensing solutions for a wide range of industrial safety applications. Serving over 50 countries, our expertise extends to defect detection, condition monitoring, and safety assurance in sectors like manufacturing, chemical processing, metallurgy, electric utilities, oil & gas, and building infrastructure.

From our inception, precision in measurement and superior imaging technology have been our hallmarks. As a certified high-tech enterprise, FOTRIC adheres to stringent quality standards, evidenced by our ISO: 9001, FCC, CE, and KC certifications. Our leadership in the industrial safety equipment sector is marked by a commitment to continuous innovation, integrating advanced technologies for comprehensive safety solutions.

Underpinning our global presence is a robust distributor network across North America, Europe, Latin America, Southeast Asia, and other regions. This network ensures not only reliable sales channels but also sound technical support for our worldwide customers.

Embracing the motto 'Sense the Digital Future', FOTRIC envisions a world where industrial safety is enhanced by smart, interconnected technologies. Our goal is to evolve continually, offering precise, data-driven tools that empower professionals to make informed decisions for safeguarding lives and livelihoods in the digital era.



FOTRIC

Sense the Digital Future

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