

Scaling Excellence

Top-Tier Thermal Imaging
Ground-Level Price

FOTRIC Ti series



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.



Visible light fusion thermal image (50% transparency)

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.



2-meter drop test

Meticulous Measurement Impeccable Imaging

±2%/±2°C

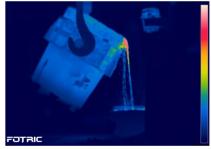
-20°C ~550°C

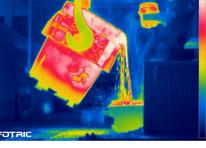
Extraordinary Adaptability

Maintains $\pm 2\%$ accuracy under extreme temperature and high humidity conditions.

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.



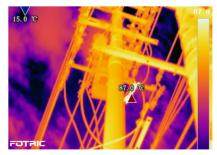


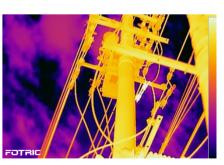
TWB OFF

TWB ON

IREdge®

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





IREdge OFF

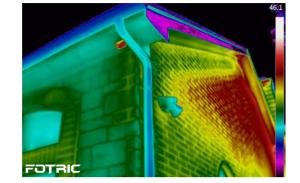
Edge ON

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Powerful Analysis, Swift Decision-making

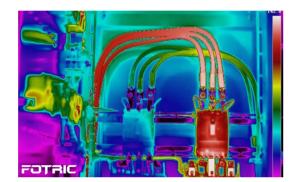
Laser-assisted Area/Length Measurement

Equipped with a high-precision laser rangefinder, this system measures distances up to 50 meters with an accuracy of d*0.01% \pm 2mm. It automatically calculates areas and lengths within the thermal image, ideal for building inspections and thermal loss assessments of large equipment.



On-device Analysis

Easily annotate images during inspections with the bookmark feature. Bookmarked images can be retrieved anytime for onboard analysis and streamlining your workflow.



Professional Analysis Software

AnalyzIR Venus software enables detailed data analysis, batch processing of inspection results, and instant report generation, enhancing the efficiency and professionalism of inspection workflows.



Specifications



Model	Ti7	Ti5
Thermal Imaging Parameters		
Infrared Resolution	640*480	384*288
Super Resolution	1280*960	768*576
IR Detector Type	Uncooled infrared focal plane detector	Uncooled infrared focal plane detector
Thermal Sensitivity (NETD)	<30mK@30°C	<40mK@30°C
Detector Pitch	17μm	17μm
Spectral Range	8~14μm	8~14µm
Image Frame Rate	30Hz	30Hz
Field of View (FOV)	44° *33°	
Spatial Resolution (IFOV)	1.2mrad	2mrad
Minimum Imaging Distance	0.1m	0.1m
Focal Length (mm)	14mm	8mm
Focus Mode	TurboFocus® system for continuous, laser-assisted, thermal contrast AF, touch AF; Manual focus	
Lens Identification	Automatic Identification	
Unique Features		
TurboFocus®	TurboFocus® Speedy Intelligent Autofocus system for continuous, laser distance, thermal contrast, and touch focus; Manual focus.	
T-DEF®	Thermal and visible light image blend, transparency 0% ~100%	
IREdge	Contour detail enhancement	
T-TWB®	Tempetrature visual representation normalization option	
Temperature Analysis		
Temperature Range	-20~120°C (-4~248 °F),0~550°C (32~1022 °F),Intelligent range	
Measurement Accuracy	\pm 2°C (3.6 °F) or \pm 2 %, whichever is greater (ambient temperature at 15~35° C(59~95 °F) , target object temperature >0° C, calibration at 1 meter)	
ROI Spot	12	6
ROI Line	3	3
ROI Area	12	6
Measurement Parameters	Emissivity, Partial emissivity, Reflected temperaure, Ambient temperature, Humidity, Distance and IR window compensation.	
On-device Analysis	Sup	port
PC Software	AnalyzIR [®]	
Image Display		
Display Screen	5 inch touch scr	een (1280 x 720)
Image Mode	sensitivi	icture in Picture, and T-DEF®, High ty mode
Palattas		entified as a gas detection lens)
Palettes Temp Span Mode	Auto (Minimum Temp Span 3°C (5.4	°F)), Manual (Minimum Temp Span nimum Temp Span 2°C (3.6 °F).
	2 C (3.0 1 /), TOUCH-3CTEEH(WIII	illiani Temp Span 2 C (5.0 T).

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Specifications

Color Alarms (temperature alarms)	High temperature, low temperature, and interval isotherms	
Image Overlay	Display global max, min, avg measurement parameters	
High/Low Temperature Tracking	Yes, for both global and ROI	
Digital Zoom	1-10x, continuous	1-8x, continuous
Capture Feature		
Digital Camera	8MP industrial grade camera	
Storage Card	Micro SD card, 64G, expandable up to 1TB	
Time-lapse Capture	corresponding modes in thermal imag	ids to 1 hour to save the images of ge mode (IR image, T-DEF®, Picture-in- ure)
Image Format	Radiometric thermal photo (JPEG.), r	non-radiometric digital camera photo
Gallery	Support viewing images and videos in the gallery as icons. Support previewing images and videos in the gallery. Support thermal image analysis in the gallery. Support filtering and deleting images and videos in the gallery	
Data Connection		
WiFi	Support 2.4GHz&5GH channel,Support 802.11a/b/g/n/ac	
Bluetooth	BT4.2 LE, Support	
USB	USB Type-C type; USB 3.0 / 2.0 compliant	
HDMI		ant,Support 1080P imaging video g in 60Hz.
Auxiliary Features		
Software and Firmware Upgrade	Support OTA remote upgrad	e and SD card local upgrade
Laser	Laser level: 2; Wavelength: 635nm; Po	key activation; ower: <1mW; Laser distance: 0.1~50m,).01%±2mm.
Laser-assisted Area Measurement	Sup	port
		P 0.1
LED Flash Lamp	Support torch illuminat	ion and flash light mode
LED Flash Lamp Power System	Support torch illuminat	•
		•
Power System	Rechargeable Li-i	ion and flash light mode
Power System Battery	Rechargeable Li-io ≥ 4 hours per battery(depends o	ion and flash light mode on, 7.4V, 3500mAh
Power System Battery Battery Operating Time	Rechargeable Li-io	ion and flash light mode on, 7.4V, 3500mAh n the environment and workload)
Power System Battery Battery Operating Time Battery Charging System	Rechargeable Li-io > 4 hours per battery(depends o Two-bay battery charger 2.5 hours to 9	ion and flash light mode on, 7.4V, 3500mAh n the environment and workload) with LED display (12V, 3A)
Power System Battery Battery Operating Time Battery Charging System Battery Charging Time	Rechargeable Li-io > 4 hours per battery(depends o Two-bay battery charger 2.5 hours to 9 User-selectable s	ion and flash light mode on, 7.4V, 3500mAh n the environment and workload) with LED display (12V, 3A) 0% full charge
Power System Battery Battery Operating Time Battery Charging System Battery Charging Time Energy Management	Rechargeable Li-io > 4 hours per battery(depends o Two-bay battery charger 2.5 hours to 9 User-selectable s	ion and flash light mode on, 7.4V, 3500mAh on the environment and workload) with LED display (12V, 3A) 0% full charge screen-off modes
Power System Battery Battery Operating Time Battery Charging System Battery Charging Time Energy Management External Power Source	Rechargeable Li-io > 4 hours per battery(depends o Two-bay battery charger 2.5 hours to 9 User-selectable s Support using DC 12	ion and flash light mode on, 7.4V, 3500mAh on the environment and workload) with LED display (12V, 3A) 0% full charge screen-off modes
Power System Battery Battery Operating Time Battery Charging System Battery Charging Time Energy Management External Power Source Reliability and Certificates	Rechargeable Li-io > 4 hours per battery(depends o Two-bay battery charger 2.5 hours to 9 User-selectable s Support using DC 129	ion and flash light mode on, 7.4V, 3500mAh on the environment and workload) with LED display (12V, 3A) 0% full charge screen-off modes V to power the device

FOTRIC Ti series



Specifications

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Drop	Engineered to withstand 2 meters (6.5 feet) drop with standard lens	
Shock	. , , ,	
	25g(IEC 60068-2-27)	
Vibration	2g(IEC 60068-2-6)	
RoHS Compliant	Compliant	
Physical Parameters		
Operation Temperature	-20~50°C (-4~122 °F)	
Storage Temperature	-40~70°C (-40~158 °F) without battery	
Relative Humidity (Operation and Storage)	<95%RH	
Dimensions	313mm*123mm*139mm	
Weight	1.0kg (lens not included)	
Battery Weight	150g	
Casing Material	Hard plastic: PC+ABS, Soft plastic: TPE, Magnesium alloy, Aluminum alloy	
Mounting Method	Support UNC 1/4-20 interface for tripod connection	
Warranty		
Warranty	2 years	
Recommended Calibration Interval	2 years	
Language		
Languages	English, Spanish, German, Traditional Chinese, Korean, Italian, Portuguese,Thai, French	
Standard Configuration		
Packaging	Infrared thermal imager, lens, lens cover, 2 batteries, battery charger, power adapter, USB type-C to USB interface cable,micro HDMI to HDMI interface cable, SD card, SD card reader, accessory bag (wrist strap, 2 wrist strap holders, 2 M4 * 8 screws, lanyard, Allen wrench), information bag (packing list,user manual, calibration certificate, warranty card), portable soft bag, portable hard case	

