FOTRIC

Sense the Digital Future

Compact Model Professional Experience

FOTRIC TK6

Real Sensor · Real Focus · For Real Professionals



Real Sensor

- A ceramic-packaged detector, professional benchmark for accuracy and detail
- A true 384×288 infrared detector, ensuring durability, accuracy, and reliability in demanding industrial environments
- A 17 μm pixel-pitch detector, that results in a stronger signal-to-noise ratio and sharper, higher-contrast thermal images



Real Focus

- A hallmark of professional imagers, makes true professional imaging achievable for every technician
- Enables users to achieve precise clarity across varying distances, ensuring accurate temperature readings
- With a minimum imaging distance of 0.15m, it can even clearly reflect the temperature of a PCB

Real Professional

- With an IFOV of 1.14 mrad, it's capable of capturing finer temperature differences and achieving more accurate imaging
- 5-megapixel industrial-grade digital camera; Images will remain clear even in report
- 3.5-inch IPS LED touchscreen display with Gorilla explosion-proof glass

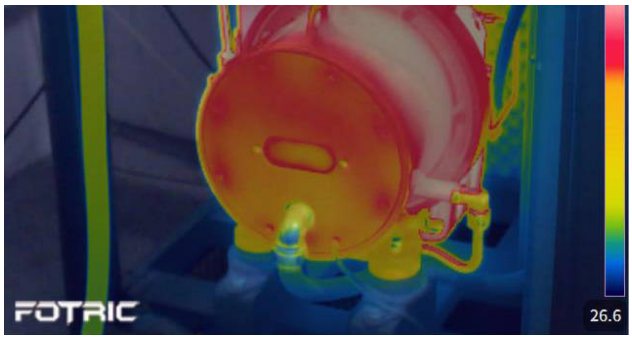


Six Professional Edges



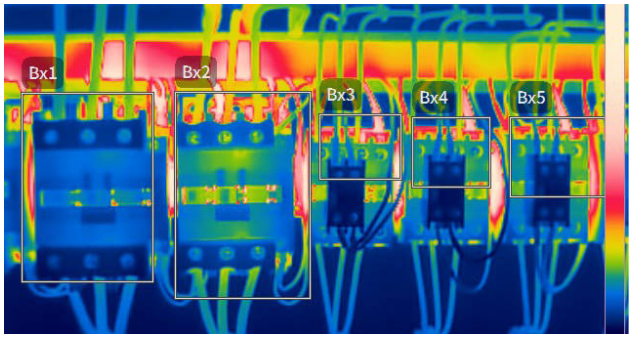
Professional Display Screen

3.5-inch, 640 x 480 pixels, IPS LCD touch display



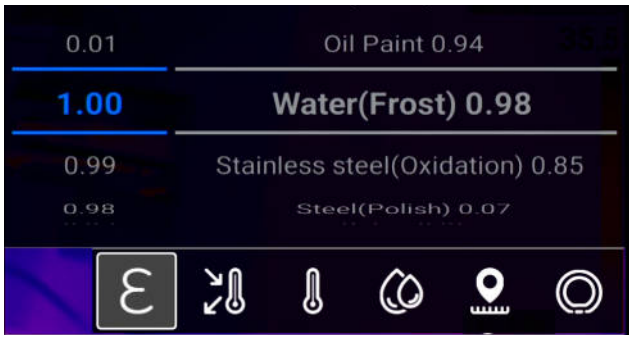
T-DEF® Blend Mode

Exclusive T-DEF® visible-light temperature measurement with infrared transparency adjustable from 0%–100%, automatically aligned with IR imaging.



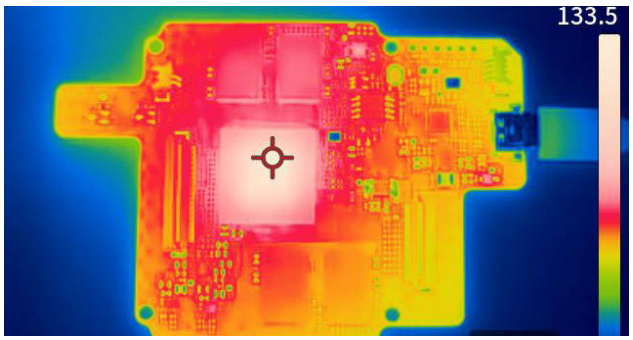
Versatile Measurement Tools

Supports 20 measurement points, 10 measurement boxes, and 10 measurement lines, covering complex scenes far beyond comparable products.



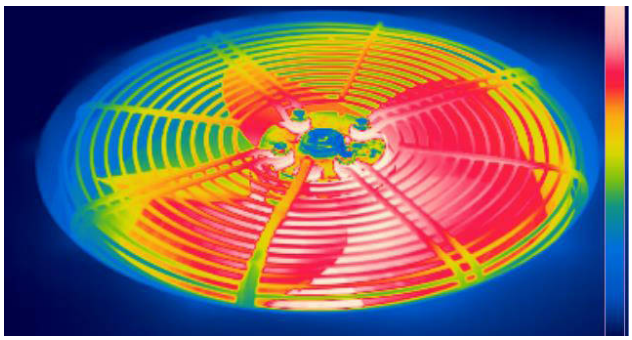
Measurement Parameter Compensation

Full parameter correction including emissivity, ambient temperature, reflected temperature, and IR window transmittance, ensuring research-grade measurement accuracy.



Ultra-close Imaging

Imaging from as close as 0.15 m, ideal for PCBs, electrical connection points, and precision components, breaking the conventional thermal camera application limits.



High Refresh Rate

30 Hz high-frame-rate real-time imaging, smooth and lag-free, capturing transient temperature rises and dynamic targets.

Features

Lightweight Design

Integrates easily into a toolkit or can be carried on the belt—effortless portability.



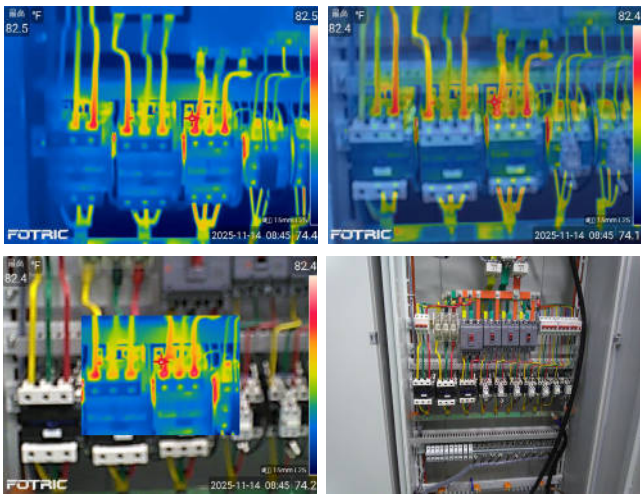
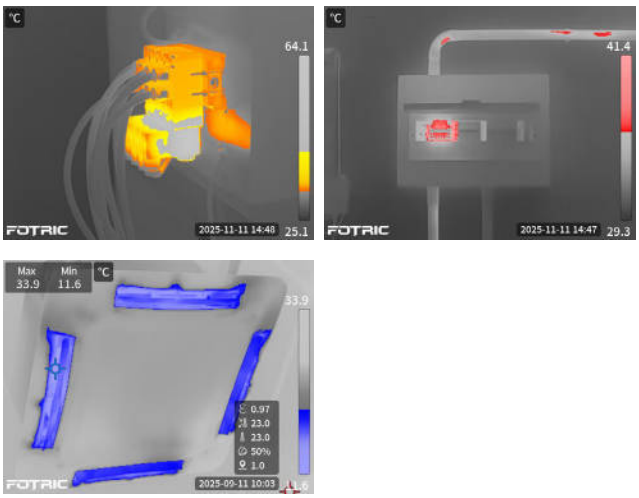


Image Modes

Switch freely between infrared detection, blend mode, picture-in-picture overlay, and visible-light mode for more intuitive diagnostics.

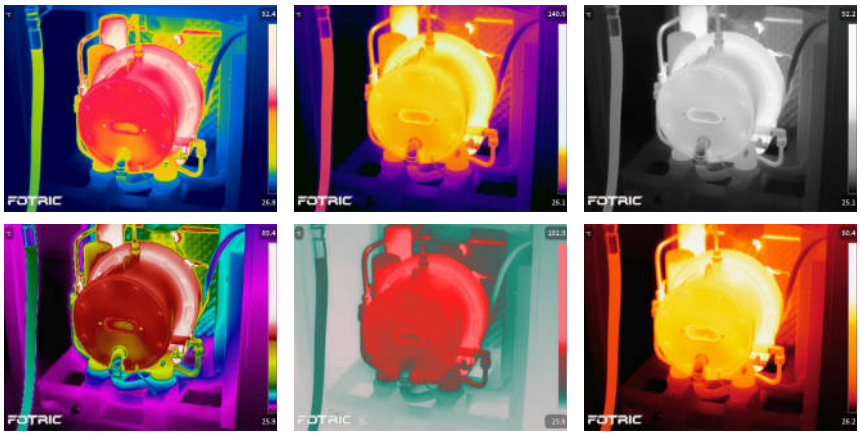


Color Alarm

Instantly highlight over-temperature, under-temperature, and temperature range anomalies, so irregularities are obvious at a glance.

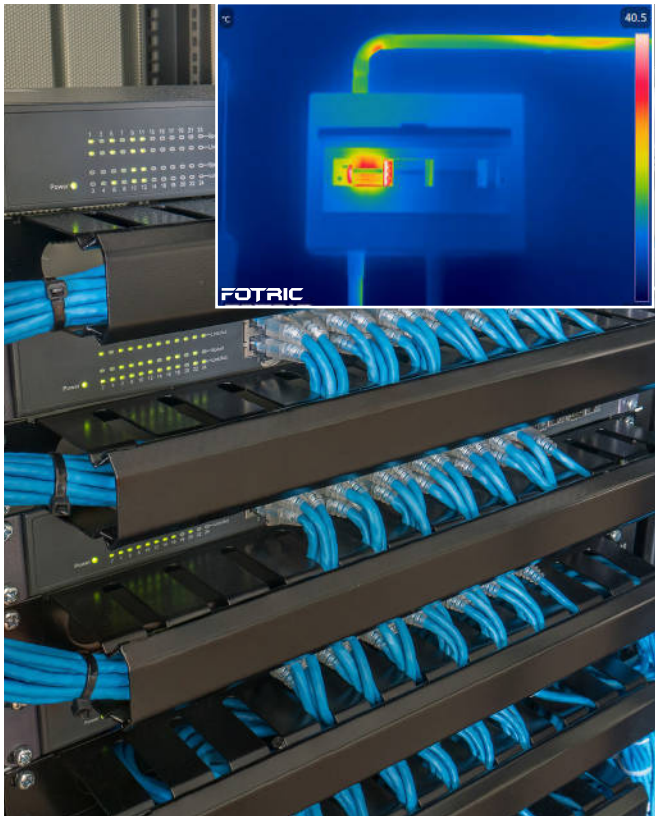
Palettes

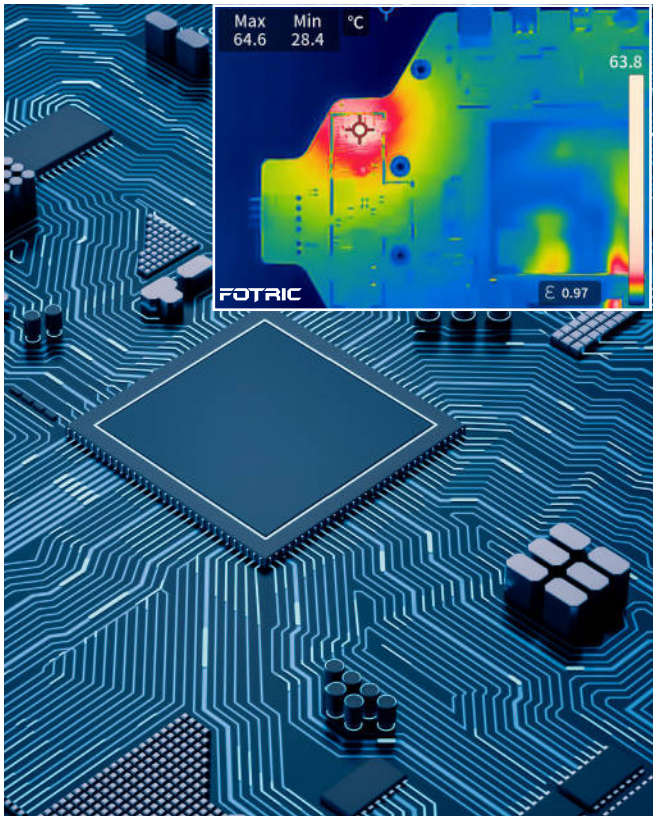
Six professional color palettes flexibly highlight temperature differences, making hidden issues immediately visible.

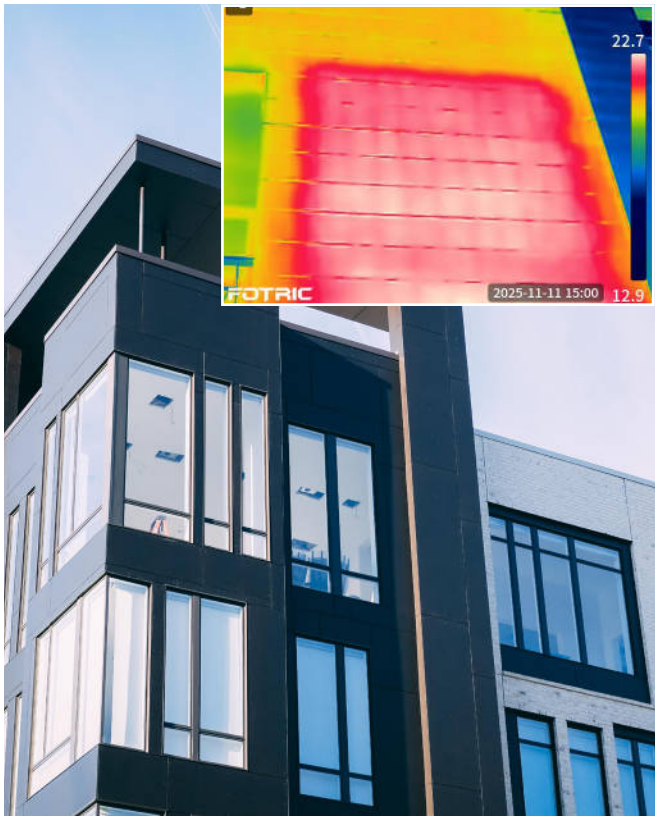


Applications









Specifications

Features	
Image Frame Rate	30Hz
Measurement Spot	20
Measurement Line	10
Measurement Area	10
Image Mode	Thermal image, Digital camera, Picture in Picture & T-DEF® blend
T-DEF®	Support, thermal and visible light image blend, transparency 0% ~100%
T-TWB®	Support histogram thermal color display
Basic Parameters	
Infrared Resolution	384x 288
IR Detector Type	A ceramic-packaged detector, uncooled FPA infrared detector
Thermal Sensitivity（NETD)	40mk(0.04° C)@30° C(86 °F)
Detector Pitch	17μm
Spectral Range	8-14μm
Field of View (FOV)	25° x 19°
Spatial Resolution (IFOV)	1.14 mrad
Minimum Imaging Distance	0.15m
Focus Mode	Manual focus
Complete Temperature Range	-20~550°C (-4~1022 °F)
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)
PC Software	AnalyzIR®
Display Screen	3.5 inch Touch Screen
Palettes	6 Palettes
Digital Camera	5 MP industrial camera
Storage Card	TF card, 32GB max capacity
File Format	Radiometric thermal photo(JPEG.), digital camera photo
Battery Type	Rechargeable Li-ion, 3.6V, 5000mAh
Battery Operating Time	⩾ 4 hours
Language	
Language	English

Versatile Power Source

Shared battery with FOTRIC compact acoustic imaging camera.



FOTRIC TDx series



Same Battery

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