

FOTRIC

Sense the Digital Future

Compact Model Professional Experience

FOTRIC TK6

Handheld Thermal Imaging Camera



Light to Carry, Strong in Capability

Dependable for daily patrols, reliable for research tasks.



384 × 288

Infrared Resolution



17 μm

Infrared Resolution



Manual Focus



±2°C / 2%

Measurement Accuracy



≥ 4 Hours

Battery Life

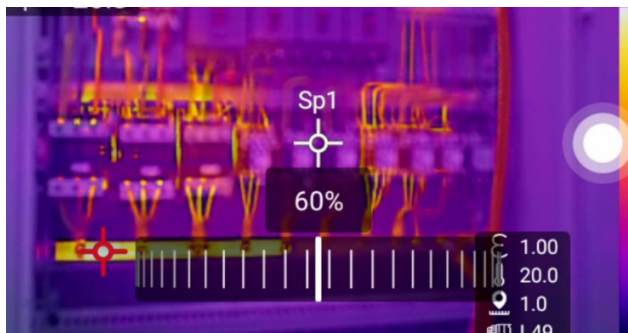


**Compact and
Light**

Bridges Entry-level to True Professional

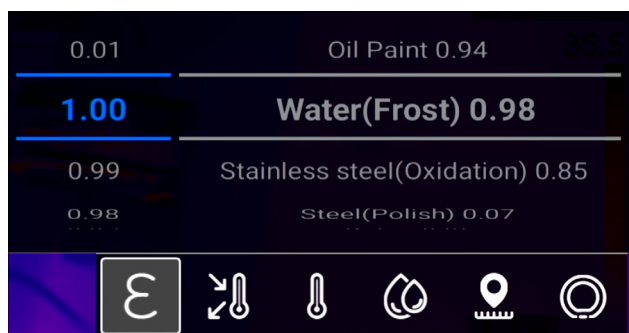
	Entry Level Thermal Cameras	FOTRIC TK6
Display	Small screen, granular image.	3.5" LCD capacitive touchscreen – Sharp detail, professional control
Detector Type	12 μm – Denser pixels, higher noise	17 μm pixel pitch – Higher IR energy per pixel, better SNR
Spatial Resolution	>1.7 mrad – Larger value, lower resolution	1.14 mrad spatial resolution – Captures finer temperature differences for precise imaging
Focusing Type	Focus-free – Clear only within set focal range	Adjustable focus – Clear images at varying distances
Temperature Measurement Performance	Basic temperature measurement – Error grows with distance	±2 °C or 2% accuracy – Multiple IR compensation settings, suitable even for research-grade measurement
Visible-light Camera	Typically 2 MP	5 MP industrial camera – Clear report images

Six Professional Edges



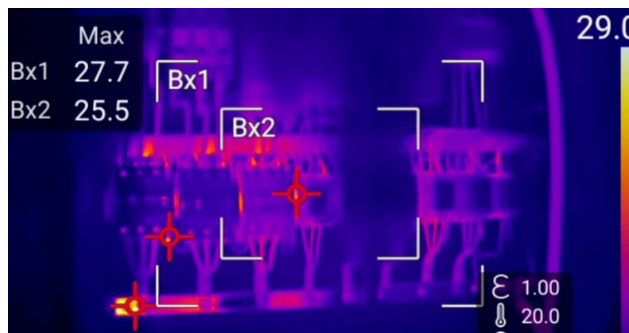
T-DEF® Blend Mode

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



Measurement Parameter Compensation

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



Versatile Measurement Tools

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



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.



Made for Continuous Operation

≥ 4 hours battery life, 2.5 h fast charge to 90%, supports USB-C external power for uninterrupted, all-day operation.

Features

Lightweight Design

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

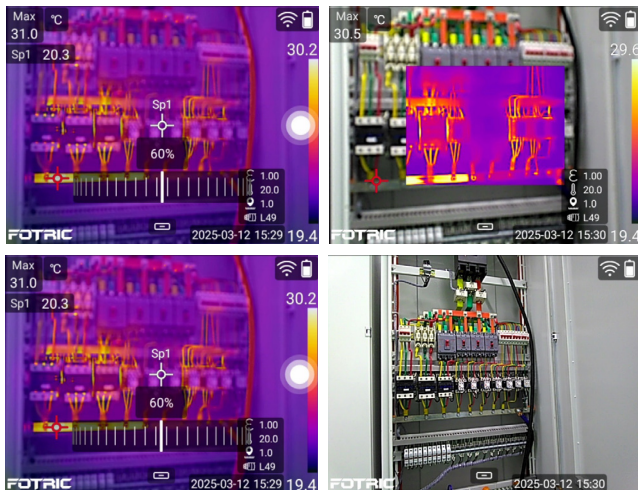
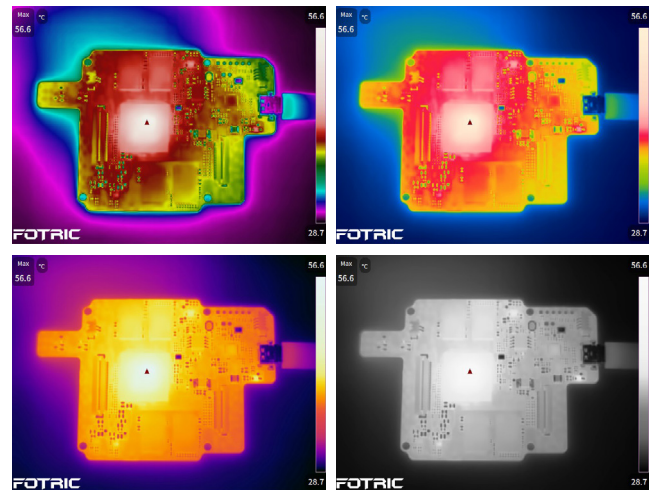


Image Modes

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



Palettes

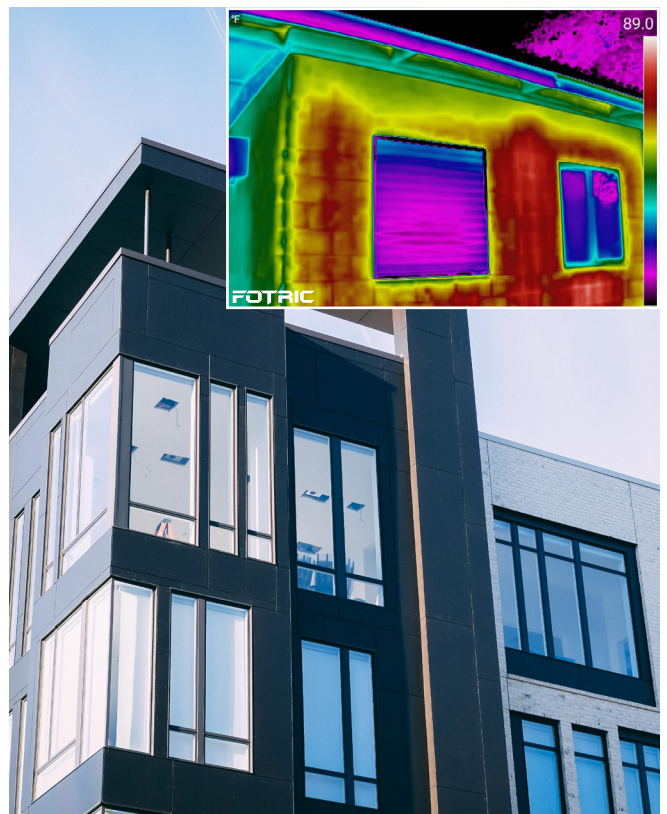
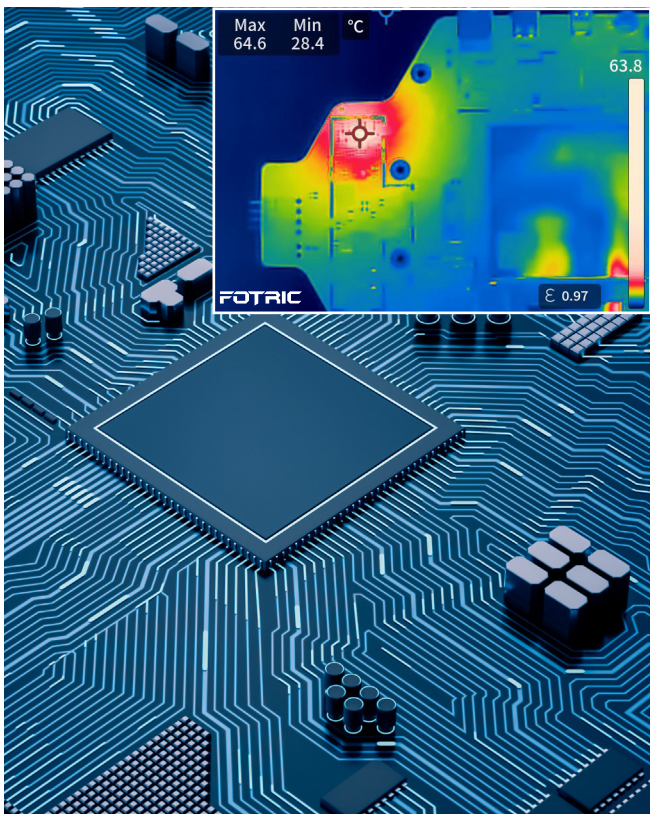
Six professional color palettes flexibly highlight temperature differences, making hidden issues immediately visible.



Color Alarm

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

Applications



Specifications

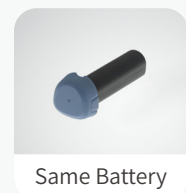
Features	
Image Frame Rate	30Hz
Measurement Spot	20
Measurement Line	10
Measurement Area	10
Image Mode	Thermal image, Digital camera, Picture in Picture & T-DEF® blend
T-DEF®	Support, thermal and visible light image blend, transparency 0% ~100%
T-TWB®	Support histogram thermal color display
Basic Parameters	
Infrared Resolution	384x 288
IR Detector Type	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

