Technical Data

Fluke iSee™ Mobile Thermal Camera TC03A for Android™





The Fluke iSee™ mobile TC03A attaches directly to your Android smartphone or tablet, turning a device you already carry into a compact thermal camera with incredible image quality. Whether you are inspecting high-voltage switchgear from a safe distance or tracing heat buildup on a densely packed circuit board, this camera delivers the image clarity, temperature accuracy, and easy-to-use analysis tools to quickly find and report problems with confidence.

High-performance thermal imaging

- 384 × 288 infrared resolution delivers clear, detailed thermal images
- SuperResolution up to 768 × 576 enhances image clarity
- NETD as sensitive as 45 mK enables precise detection of subtle temperature differences
- Wide temperature range covers applications from –20 °C to 550 °C
- Spatial resolution (IFOV) of 1.14 mrad allows detection of spots as small as 0.01 m from 10 m away

Work at the right distance
Manual adjustable focus keeps your target sharp from a distance of 0.25 m on a PCB to 20 m on a power line. One camera for every scenario.

See problems that lower-resolution cameras miss
The 384x288 IR sensor with 1.14 mrad spatial resolution resolves tiny hotspots and subtle temperature differences, allowing you to spot a failing connection sooner, before it becomes a fault.

Catch faults before they cause downtime
Automatic 3-phase temperature-difference calculation highlights imbalances as soon as they appear. Audible, visual, and vibration alarms plus auto-snapshot let you know immediately, even when your eyes are elsewhere.

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Flexible inspection across distances

- Manual focus lens provides details of both near and distant targets
- 25° × 19° field of view enables efficient area coverage
- Flexible working distance starts from 0.25 m (10 inches)

Advanced analysis and diagnostics

- Automatic three-phase temperature delta calculation
- Over-temperature alarms with audible, visual, and vibration alerts
- Spot, line, and area measurement tools

Connected workflow with the Fluke iSee™ app

- Real-time image and video capture
- Integrated report generation and export capabilities
- Streamlined team communication with easy sharing

Compact and field-ready

- Lightweight design at only 55 g
- USB-C connection enables direct integration with mobile devices
- IP54 rating provides protection against dust and water
- Built for reliable daily use in industrial environments

Product anatomy



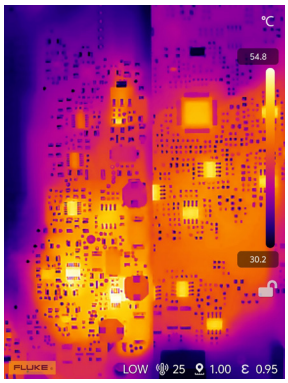
USB-C convenience, always ready

Plug directly into your Android phone with USB-C for instant use. No extra cables or setup required.

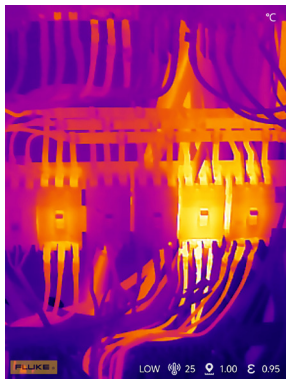
Clear focus at any distance

Adjust the lens to get sharp images both up close and far away. The iSee TC03A camera lets you fine-tune focus so your image stays crisp across different working ranges.

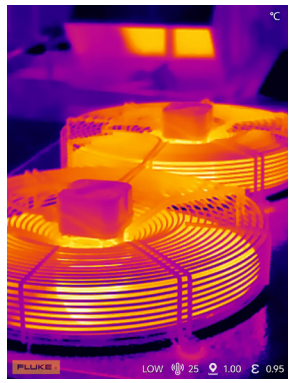
Fluke iSee™ application scenarios



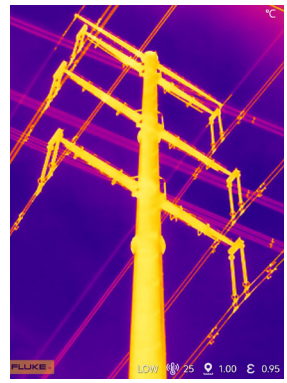
Circuit boards



Power distribution cabinets



Fans

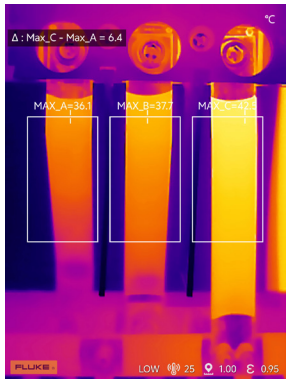


Power transmission lines

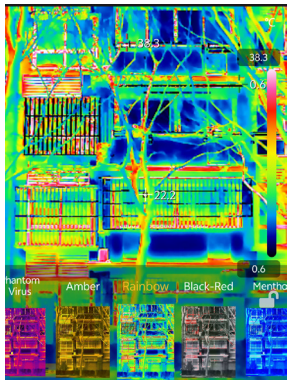
Near ***Far***

Fluke iSee™ application

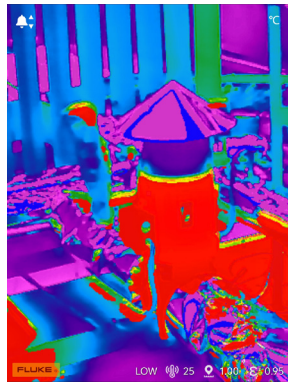
Integrated key functions of a professional thermal camera: shooting, measurement, analysis and sharing.



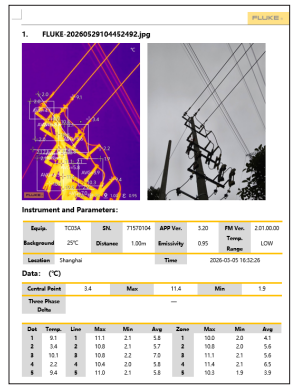
Automatic calculation of 3-phase temperature difference



Personalized color palettes



Over-temperature area alarm



Generating and sharing reports in real time

How to download the Fluke iSee™ application*

GET IT ON Google Play

Download the Fluke iSee mobile camera app from the Google Play Store

* Android™ 6.0 / HarmonyOS 2.0 and above are supported, and the OTG feature needs to be enabled on the smart device

Specifications

Performance	Fluke TC03A 9 Hz	Fluke TC03A 50 Hz
IR resolution	384×288	
Super resolution	Yes, up to 768 x 576	
Pixel size	12 µm	
Temperature range	-20 °C to 150 °C, 100 °C to 550 °C	
Temperature accuracy	± 2 % of rdg or ± 2 °C, whichever is greater (@ 23 °C ± 5 °C ambient temperature)	
Frame rate	9 Hz	50 Hz
Focal length	10.5 mm	
Focusing mode	Manual	
Nonuniformity correction (NUC)	Manual / Auto	
Thermal sensitivity (NETD)	50 mK	45 mK
Spectral range	8 to 14 µm	
Field of view (FOV)	25°×19°	
Spatial resolution (IFOV)	1.14 mrad	
General		
USB Interface	Type C	
Operating system supported	Android and HarmonyOS	
Operating temperature	0 °C to 40 °C	
Storage temperature	-30 °C to 60 °C	
Operating humidity	10% to 90% RH, non-condensing	
Power consumption	700 mW (Typical)	
Ingress protection	IEC 60529: IP54 (with the protective cover for Type-C)	
Operating altitude	2000 m	
Storage altitude	12000 m	
Dimensions	60 mm x 36 mm x 28 mm (L x W x H)	
Weight	55 g	
Warranty	2 years	
EMC environment		
International	IEC 61326-1: Electromagnetic environment for portable equipment CISPR 11: Group 1, Class A Group 1: Equipment intentionally generates and/or uses conductive-coupled RF energy, which is necessary for its internal operation. Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances. Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments. Class A Equipment (Industrial Broadcasting & Communication Equipment)	
Korea (KCC	Class A: Device meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.	
America (FCC)	47 CFR Part 15 Subpart B This product is considered an exempt device per clause 15.103.	



Ordering information

Model	FLUKE-TC03A 9HZ	FLUKE-TC03A PRO 50HZ
Model number	6125328	6125550
Description	FLUKE-TC03A 9HZ, THERMAL CAMERA, JQ2, 384X288, 9HZ, ANDROID	FLUKE-TC03A PRO 50HZ, THERMAL CAMERA, JQ7, 384X288, 50HZ, ANDROID
Includes	Fluke-TC03A 9 Hz Mobile Thermal Camera for Android™, User manual, Soft protective bag	Fluke-TC03A 50 Hz Mobile Thermal Camera for Android™, User manual, Soft protective bag

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