

TECHNICAL DATA

Fluke iSee™ Mobile Thermal Camera - TC03A/TC03A PRO



Key features

- 384×288 professional-grade resolution, delivering a high-definition experience
- Professional ISP image algorithms further optimize imaging
- Adjustable focusing lens, allowing for clear imaging of both near and far targets
- $\pm 2\%$ or $\pm 2^\circ\text{C}$ accuracy ensures reliable results
- IFOV 1.14 mrad high spatial resolution, capturing tiny hotspots and subtle temperature differences
- $-20 \sim 550^\circ\text{C}$ range, covering wide applications
- Up to 50 Hz frame rate, delivering smooth images without any smear
- $25^\circ \times 19^\circ$ FOV, inspection can be completed in one step
- 3-phase temperature difference calculated automatically and displayed in real time
- Audible/visual/vibration alarms on over-temperature for automatic snapshot/recording, responding to abnormal situations promptly
- Professional thermal imaging software offers comprehensive temperature analysis of spots, lines and areas
- Online editing and real-time sharing of images, videos and reports to achieve efficient communication
- 55g lightweight, portable and easy to carry
- IP54, dust-proof, water-resistant and oil-resistant

[To Download the Fluke iSee™ APP](#)

Product overview: Fluke iSee™ Mobile Thermal Camera - TC03A/TC03A PRO

Professional and descriptive quality

- 384×288 professional-grade resolution, delivering a high-definition experience
- Professional ISP image algorithms further optimize imaging
- $\pm 2\%$ or $\pm 2\text{ }^{\circ}\text{C}$ accuracy ensures reliable results
- IFOV 1.14 mrad high spatial resolution, capturing tiny hotspots and subtle temperature differences

Versatile and handy

- Adjustable focusing lens, allowing for clear imaging of both near and far targets
- $-20 \sim 550\text{ }^{\circ}\text{C}$ range, covering wide applications
- Up to 50 Hz frame rate, delivering smooth images without any smear
- $25^{\circ} \times 19^{\circ}$ FOV, inspection can be completed in one step

Intelligent, insight into details

- 3-phase temperature difference calculated automatically and displayed in real time
- Audible/visual/vibration alarms on over-temperature for automatic snapshot/recording, responding to abnormal situations promptly
- Professional thermal imaging software offers comprehensive temperature analysis of spots, lines and areas
- Online editing and real-time sharing of images, videos and reports to achieve efficient communication

Lightweight and portable

- 15 standard and custom color palettes, presenting a variety of personalized images
- 55g lightweight, portable and easy to carry
- IP54, dust-proof, water-resistant and oil-resistant
- Optimized Fluke iSee APP interface and menu design offer a smooth operation experience

Specifications: Fluke iSee™ Mobile Thermal Camera - TC03A/TC03A PRO

Models	TC03A/9Hz	TC03A/25Hz	TC03A PRO/50Hz
IR Resolution	384 x 288		
SuperResolution	Yes, up to 768 x 576		
Pixel size	12 μm		
Temperature range	$-20\text{ }^{\circ}\text{C}$ to $150\text{ }^{\circ}\text{C}$, $100\text{ }^{\circ}\text{C}$ to $550\text{ }^{\circ}\text{C}$		
Temperature accuracy	$\pm 2\%$ of rdg. or $\pm 2\text{ }^{\circ}\text{C}$, whichever is greater		
	(@ $23\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ ambient temperature)		
Frame rate	9 Hz	25 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 μ m	
Field of View (FOV)	25° x 19°	
Spatial Resolution (IFOV)	1.14 mrad	
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 (L x W x H)	60 mm x 36 mm x 28 mm	
Weight	55 g	
Warranty	2 years	
EMC Environment	International IEC 61326-1: Electromagnetic environment for portable equipments 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. Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment) 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. United States (FCC) 47 CFR Part 15 Subpart B. This product is considered an exempt device per clause 15.103.	

Ordering information



Fluke TC03A PRO/50Hz

Fluke iSee™ Mobile Thermal Camera - TC03A PRO/50Hz

- Fluke TC03A PRO Mobile Thermal Camera
- Packaging box
- User manual
- Soft protective bag

Fluke TC03A/25Hz

Fluke iSee™ Mobile Thermal Camera - TC03A/25Hz

- Fluke TC03A Mobile Thermal Camera
- Packaging box
- User manual
- Soft protective bag

Fluke TC03A/9Hz

Fluke iSee™ Mobile Thermal Camera - TC03A/9Hz

- Fluke TC03A Mobile Thermal Camera
- Packaging box
- User manual
- Soft protective bag

Fluke. *Keeping your world up and running.®*

Fluke Corporation

PO Box 9090, Everett, WA 98206 U.S.A.

For more information call:

In the U.S.A. (800) 443-5853

In Europe/M-East/Africa

+31 (0)40 267 5100

In Canada (800)-36-FLUKE

From other countries +1 (425) 446-5500

BUT. FLUKE SOUTH EAST ASIA PTE LTD

Menera Satu Sentra Kelapa Gading #06-05

Jl. Bulevar Kelapa Gading Kav. LA# No. 1

Summarecon Kelapa Gading

Jakarta Utara 14240

Indonesia

Tel: +62 21 2938 5922

Email: info.asean@fluke.com

www.fluke.com/id-en

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