

TECHNICAL DATA

Fluke TiS65 PRO Thermal Imager



Key features

- 320 x 240 infrared resolution
- 3.5-inch touchscreen
- Measure up to 600 °C, suitable for many application scenarios, such as equipment maintenance, R&D and quality control
- Manual focus and Focus free
- Built-in route inspection function to simplify and standardize inspection
- Preset shortcut button key for quick access to function
- Share image wireless via transfer to mobile phones or PCs
- Delta T calculation of 3 phase systems
- QR code scanning for asset tagging
- Supported with Fluke Connect Express reporting software
- Rugged and durable, 2-meter drop tested and >5 hours battery life

Product overview: Fluke TiS65 PRO Thermal Imager

Enhanced performances for detailed analysis

320 x 240 high-definition infrared resolution. The robust quality lens with SuperResolution mode enables user to achieve high image quality. Various close-distance applications can be supported such as electrical maintenance, process control and utilities inspection.

Simplify complex tasks with one-click operation

Just 4 steps to help you efficiently complete inspection and reporting

Step 1: Select pre-saved measurement parameters

For scenarios or critical equipment that require frequent testing, the quick Action button enables instant access to the saved test parameters, ensuring consistent test procedures every time and reducing setup time.



Step 2: Scan the QR code for automatic naming

Scan the asset QR code to automatically assign the asset identity to the captured thermal images. This helps the user quickly sort out the files on the imager, PC, or mobile phone.

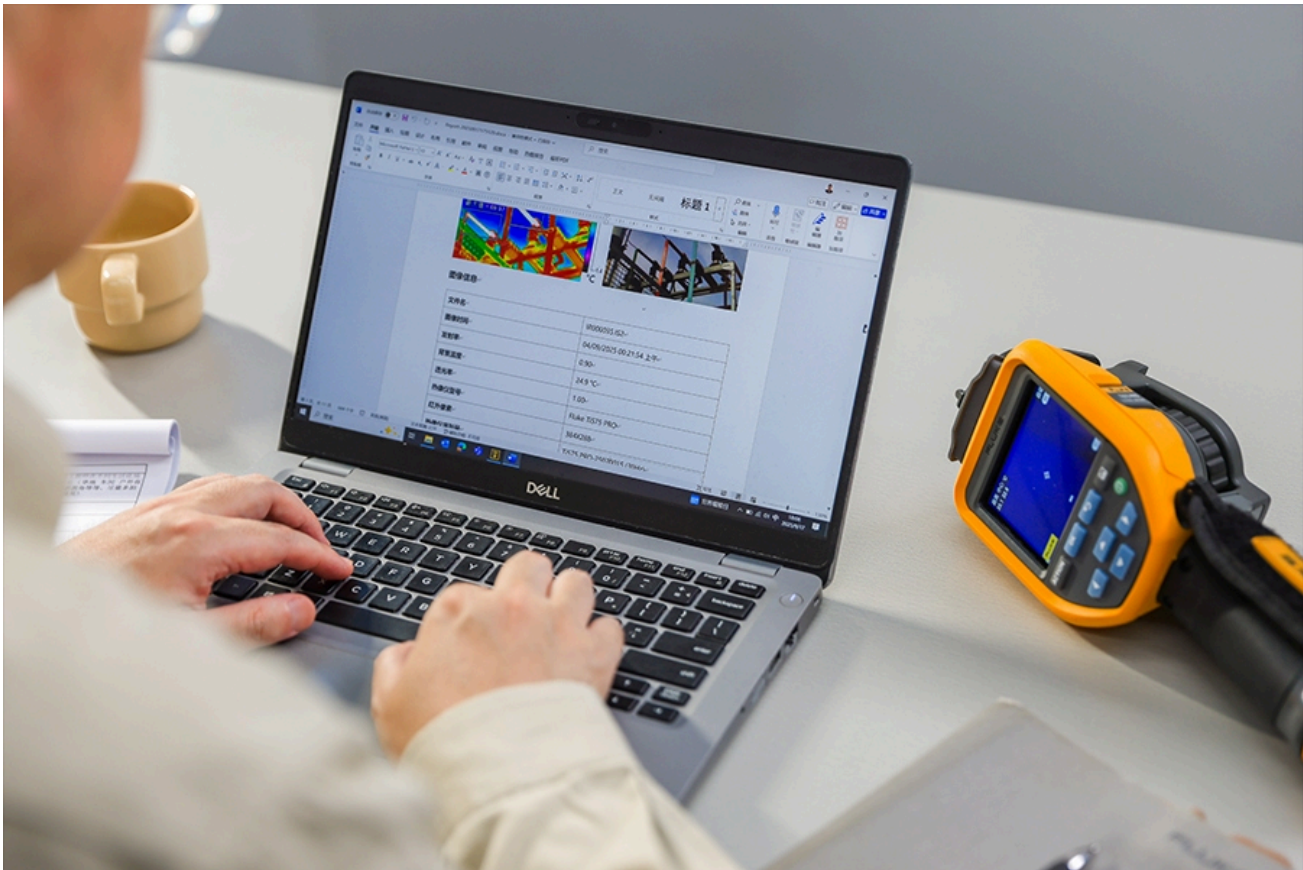


Step 3: Transfer thermal images wirelessly

Thermal images can be transferred wirelessly to a mobile phone or PC, which eliminates the need for wired transfer method. The ability to do quick sharing to PC or mobile phone allows on-site problems to be reported promptly.

**Step 4: Automatic Reporting with one-click**

With the free Fluke Connect Express analysis software, you can now edit thermal images, analyze temperature trends, generate report with a single click, and customize report templates to support various types of inspection jobs.



Route-based inspection of assets

With built-in route inspection function, pre-set inspection routes help track inspection progress in real-time to avoid missed inspections. This offers a new digitized option for scenarios where QR codes do not work.

Portable and easy to carry around

It is lightweight and portable with a large 3.5-inch touchscreen. The Fluke ergonomic design enables on-site inspections with one hand. Agile Focus technology shortens the manual focus knob rotating path < 67°, presenting clear thermal images faster and more flexibly for targets of different distances and sizes.

Specifications: Fluke TiS65 PRO Thermal Imager

Model	TiS65 PRO
Key Features	
Infrared resolution	320 x 240 (76,800 pixels)
SuperResolution	640 x 480
Detector type	Uncooled focal plane infrared detector
Infrared Spectral response	8 to 14 μm
Field of view	42°: 42° x 32° or 25°: 25° x 19°

IFOV	42°: 2.29 mRad 25°: 1.36 mRad
Minimum focus distance	42°: 0.1 m 25°: 0.15 m
Focus system	Manual focus + focus free
Agile Focus	Yes
Digital Zoom	1-4x
Wireless connectivity	Yes, direct transfer thermal images wirelessly to mobile phones or PCs
Standard software: Fluke Connect Express	Yes, functions such as thermal image analysis, historical trend generation, custom reports, and inspection management supported
Asset tagging	Yes, name thermal images automatically by scanning QR codes or barcodes and save them as asset tags for thermal images
IR-Fusion technology	Blend continuous 0 % to 100 %. 1% step for adding visible details to infrared images
Picture-in-Picture (PIP)	Yes
Display screen	3.5" (8.9 cm landscape) Touchscreen 640 x 480 LCD
Ergonomic design	Designed specifically for one-handed use
Thermal sensitivity	<= 40 mk (0.04 °C)
Temperature level and span	Smooth auto and manual scaling
Fast auto-rescale in manual mode	Yes
Minimum span (in manual mode)	3 °C
Minimum span (in auto mode)	3 °C
Built-in digital camera (visible light)	13 mp
Frame rate	30 Hz
Dew point calculation	No
Temperature Measurement	
Temperature span	-20 °C to 600 °C
Temperature range	-20 °C to 150 °C 0 °C to 600 °C
Accuracy	±2 °C or 2%, whichever is greater (ambient temperature of 18 to 28 °C)
On-screen temperature correction	Yes, emissivity, background temperature, measurement distance and transmission correction supported
Standard palettes	10 Gray, Ironbow, High Contrast, Amber, Hot Metal, Blue-Red, Amber Inverted, Gray Inverted, Rainbow, Steps
Spot temperature	Center spot (unmovable)

Auto high/low temperature capture	High and low temperature points marked and tracked automatically
User-definable spot markers	Points: 5 Lines: 5 Areas: 5
Custom temperature difference calculation	3
3-phase maximum temperature difference calculation	Yes
Image mode	Infrared, visible light, PIP, visible light and infrared fusion
Audible alarm	Alarm objects: highest temperature point, lowest temperature point, center point, custom point or line or area, 3-phase maximum temperature difference, custom temperature difference Alarm conditions: Above the temperature, below the temperature
Color alarm	Yes, above the temperature, below the temperature, within the temperature span, outside the temperature span
Preset measurement parameters (profile)	Up to 50 profiles can be saved
Data Storage and Image Capture	
Storage	Standard with a 64 GB SD card Expandable up to 1 TB memory size
Image capture, review, save mechanism	One-handed image capture, review, and save capability
Image file formats	JPEG (with temperature data)
Memory review	Yes
Voice annotation	Yes, 60 s maximum audio recording via a Bluetooth Audio Headset
IR-PhotoNotes	Yes. Up to 3 extra visible light images captured can be included in JPEG files
Text annotations	Yes, multiple languages supported
Severity annotations	Yes, annotations for the 4 severity levels: normal, moderate, severe, and extreme
Video recording and formats	Standard video format: mp4
Fully-radiometric infrared data streaming	No
Auto capture (temperature and interval)	Yes, user-selectable time interval for capturing images.
Route Inspection Function	
Create and manage inspection routes	Yes, use the Fluke Connect Express software
Start, execute and manage inspection routes	Yes, use the thermal imager
Thermal images classified and archived automatically according to inspection routes	Yes
Automatic reporting and trend summaries	Yes
Battery	
Batteries (field-replaceable, rechargeable)	Lithium-ion rechargeable battery

Battery life	>5 hours (Actual life depends on settings and usage)
Battery charging time	< 4 hours to full charge
Battery charging system	Ti SBC3B Two-Bay Battery Charger used or charged via the Type-C interface
External power supply	AC operation through the included power adapter with the output: 15 VDC, 2 A
General Specifications	
Preset shortcut keys	6
Laser	Yes
Flashlight	Yes
Type-C interface	Yes, charging and data transfer supported
Operating temperature	-10 °C to 50 °C
Storage temperature	-20 °C to 60 °C, without batteries
Relative humidity	10% to 95% non-condensing
Safety standards	IEC 61010-1: pollution degree 2
Electromagnetic compatibility	IEC 61326-1: Industrial Electromagnetic Environment; CISPR 11: Group 1, Class A
Australia RCM	RCM IEC 61326-1
Radio frequency (WIFI and Bluetooth)	2.4 GHz
Radio output power (WIFI and Bluetooth)	<100 mW
Laser	IEC 60825-1, Class 2; 650 nm; <1 mW
Drop	Engineered to withstand 2 m drop
Ingress protection	IEC 60529: IP52
RoHS3 Directive	Yes
Other Specifications	
Size (L x H x W)	~ (26.7 cm x 10.1 cm x 14.5 cm)
Weight (battery included)	950 g
Supported Languages	Simplified Chinese, Traditional Chinese, English, Korean, Japanese
Warranty	2 years
Recommended calibration period	2 years
Standard accessories	One thermal imager, Two batteries, One 2-Bay Battery Charging Base, One soft bag, One hard case, One SD card, One AC adapter



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

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04/2026

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