

## TECHNICAL DATA

# PTi120 Pocket Thermal Imager



### The power of a professional-grade thermal imager that fits in your pocket.

- Continuous touchscreen IR-Fusion™, slide your finger across the screen to adjust the setting.
- Automatically organize and file thermal images with Fluke Connect™ Asset Tagging
- Fully radiometric thermal imager with 120 x 90 infrared resolution (10,800 pixels)
- 3.5" LCD touchscreen display for easy troubleshooting
- Can withstand drop up to 1 meter
- Water and dust resistant—IP54 enclosure rating
- -20 °C to 400 °C (-4 °F to 752 °F) temperature measurement range

### Rugged portable thermal camera for industrial inspection.



Small enough to carry every day without worry. Pocket sized. Stands up to dirt and water. Quick scans of electrical equipment, machinery and other assets.

### PREMIUM IMAGE QUALITY

**SPATIAL RESOLUTION**  
7.6 mRad

**RESOLUTION**  
120 x 90

**TEMPERATURE RANGE**  
-20 °C to 400 °C (-4 °F to 752 °F)

**ENCLOSURE RATING**  
IP54

**IR-FUSION**



The 3.5" LCD touchscreen offers IR-Fusion to blend a visible light image with an infrared image to more easily locate problems. Simply slide your finger across the screen to adjust the setting.



Eliminate hours at the computer organizing your thermal images, let Asset Tagging do all that work for you. No more dragging and dropping or renaming files in the office, just scan a QR code on your asset, capture your thermal images and they automatically are sorted by asset. Start spending your time analyzing your images and creating reports instead of sorting your files one at a time.

## Specifications

Key features	PTi120
Infrared resolution	120 x 90 (10,800pixels)
IFOV (spatial resolution)	7.6 mRad, D:S 130:1
Field of view	50° H x 38° V
Minimum focus distance	29 inches (50 cm)
Focus system	Fixed focus
Data transfer	Mini USB used to transfer image to PC
Wireless connectivity	Yes, (802.11 b/g/n (2.4 GHz))
Fluke Connect Instant Upload	Yes, connect your camera to your building's WiFi network (802.11 b/g/n (2.4 GHz)), and images taken automatically upload to the Fluke Connect system or your local server for storage and viewing on your PC
Image quality	
IR-Fusion technology	AutoBlend continuous 0 % to 100 %. Yes, adds the context of the visible details to your infrared image
Display	3.5" LCD touchscreen (landscape)
Display resolution	320 x 240 LCD
Thermal sensitivity (NETD)	60 mK
Frame rate	9 Hz
Data storage and image capture	
Memory	≥ 2 GB internal flash memory
Image capture, review, save mechanism	One-handed image capture, review, and save capability
Image file formats	Non-radiometric (jpeg), or fully radiometric (.is2); no analysis software required for non-radiometric (jpeg) files
Software	Fluke Connect desktop software—full analysis and reporting software with access to the Fluke Connect system
Export file formats with software	.bmp, .dib, .jpg, .tif, .tiff
Battery	
Batteries (rechargeable)	Internal rechargeable lithium ion battery
Battery life	≥ 2 hours continuous (without WiFi)
Battery charging time	≤ 1.5 hours
Battery charging system	Micro USB port
AC operation	With separate AC to USB adapter Not included in box
Power saving	Automatic Shutdown: 5, 10, 15 and 20 minutes or never
Temperature measurement	
Temperature measurement range (not calibrated below 0 °C)	-20 ° C to 150 ° C (-4 °F to 752 °F)
Accuracy	Target temp at or over 0 °C: Accuracy: ± 2° C or ± 2 % at 25°C, whichever is the greater.
On-screen emissivity correction	Yes via material selection
On-screen reflected background temperature compensation	Yes
Center-point temperature	Yes
Spot temperature	Hot and cold spot markers
Color palettes	
Standard palettes	6: Ironbow, Blue-Red, High Contrast, Amber, Hot Metal, Grayscale

## Specifications continued

Key features	PTi120
<b>General specifications</b>	
Infrared spectral band	8 µm to 14 µm (long wave)
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to 158 °F)
Relative humidity	95 % non-condensing
Safety	IEC 61010-1: Pollution Degree 2
Electromagnetic compatibility	EN 61326-1, CISPR 11: Group 1, Class A
US FCC	CFR, Part 15C
Vibration and shock	10 Hz to 150 Hz, 0.15 mm, IEC 60068-2-6; 30 g, 11 ms, IEC 60068-2-27
Drop	Engineered to withstand 1 meter drop
Size (H x W x L)	8.9cm x 12.7cm x 2.5cm (3.5 in x 5.0 in x 1.0 in)
Weight	0.233 kg (0.514 lb)
Enclosure rating	IP54 (protected against dust, limited ingress; protection against water spray from all directions)
Warranty	Two-years (standard)
Supported languages	Czech, Dutch, Danish, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish

## Ordering information

**FLK-PTi120 9HZ 400C** 120 x 90 Thermal Imager; 9 HZ  
**FLK-PTi120 9HZ 400C/CN** 120 x 90 Thermal Imager; 9 HZ, China

### Included

Infrared camera; USB cable; soft transport bag; adjustable lanyard. Available by free download: Fluke Connect software and user manual.

Visit your local Fluke website or contact your local Fluke representative for more information.



### Share images from the field. Collaborate and report immediately.

Get the most out of your PTi120. Download Fluke Connect today. Save time by sending your images to the team while working in the field.

The Fluke Infrared Cameras are part of a growing system of connected test tools and equipment maintenance software.

Find out more at [fluke.com](http://fluke.com)



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

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