

TECHNICAL DATA

PTi120 Pocket Thermal Imager



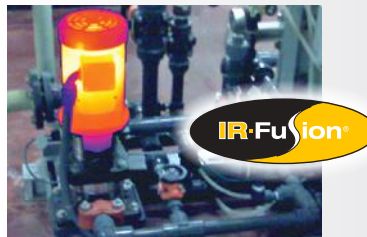
The power of a professional-grade thermal imager that fits in your pocket.

- Automatically organize and file thermal images with Fluke Connect® Asset Tagging
- Fully radiometric thermal imager gives you measurement data to the pixel with 120 x 90 infrared resolution (10,800 pixels)
- 3.5" LCD touchscreen display for easy troubleshooting
- Can withstand drop up to 1 meter
- IP54 enclosure rating
- -20 °C to 150 °C 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.



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.



With Fluke Connect® Asset Tagging you eliminate the tedium of sorting and organizing your infrared images. By simply scanning your asset's QR code or barcode, your infrared image and all of your date and time stamped information will be stored to your predefined folders.

PREMIUM IMAGE QUALITY

SPATIAL RESOLUTION
7.6 mRad

RESOLUTION
120 x 90

TEMPERATURE RANGE
-20 °C to 150 °C

ENCLOSURE RATING
IP54

IR FUSION



Specifications

| Key features | PTi120 |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IFOV (spatial resolution) | 7.6 mRad |
| Infrared resolution | 120 x 90 (10,800pixels) |
| Field of view | 50° H x 38° V |
| Distance to spot | 130:1 |
| Temperature measurement range (not calibrated below -10 °C) | -20 ° C to 150 ° C |
| Focus system | Fixed focus, minimum focus distance 22.8 cm |
| USB | Mini USB used to transfer image to PC |
| Wifi | Yes |
| Fluke Connect® Instant Upload | Yes, connect your camera to your building's WiFi network, and images taken automatically upload to the Fluke Connect® system or your local server for storage and viewing on your PC (802.11 bgn (2.4 GHz)) |
| Image quality | |
| IR-Fusion technology | Yes, adds the context of the visible details to your infrared image |
| AutoBlend mode | Continuous 0% to 100% |
| Touchscreen display | 3.5" (landscape), 320 x 240 LCD |
| Rugged, ergonomic design | Yes |
| 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 | JPG, IS2 |
| Measurement Range | -20 °C~150 °C |
| 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 cord from product to PC |
| 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 -10 °C) | -20 ° C to 150 ° C |
| Accuracy | Target temp at or over 0 °C: Accuracy: ± 2° C or ± 2 % |
| On-screen emissivity correction | Yes |
| On-screen reflected background temperature compensation | Yes |
| Color palettes | |
| Standard palettes | 6: Ironbow, Blue-Red, High Contrast, Amber, Hot Metal, Grayscale |

Specifications *continued*

| Key features | PTi120 |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General specifications | |
| Color alarms (temperature alarms) | High temperature, low temperature, and isotherms (within range) |
| 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 |
| Center-point temperature | Yes |
| Spot temperature | Hot and cold spot markers |
| Safety | EN 61010-1: CAT none, pollution degree 2, EN 60825-1: Class 2, EN 60529, EN 62133 (lithium battery) |
| Electromagnetic compatibility | EN301 489-1 V2.1.1 EN301489-17 V3.1.1 |
| US FCC | CFR, Part 15C |
| Vibration and shock | 2G, IEC 68-2-6 and 25G, IEC 68-2-29 |
| Drop | 1 meter |
| 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 |
| Warranty | Two-years |
| Supported languages | Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish |

Ordering information

FLK-PTi120 9HZ 120 x 90 Thermal Imager; BY2; 9 HZ

FLK-PTi120 9HZ/JP 120 x 90 Thermal Imager; BY2; 9 HZ, Japan

FLK-PTi120 9HZ/CN 120 x 90 Thermal Imager; BY2; 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 flukeconnect.com



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

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

Fluke Europe B.V.
PO Box 1186, 5602 BD Eindhoven, The Netherlands

For more information call:

In the U.S.A. (800) 443-5853 or Fax (425) 446-5116
In Europe/M-East/Africa +31 (0)40 267 5100 or Fax +31 (0)40 267 5222
In Canada (800)-36-FLUKE or Fax (905) 890-6866
From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116
Web access: <http://www.fluke.com>

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