

TECHNICAL DATA

3550 FC Thermal Imaging Sensor



FLUKE CONNECT COMPATIBLE

Use with Fluke Connect Condition Monitoring Software and flexible cloud accessibility.

CONDITION MONITORING

Strengthen your maintenance program with real-time condition monitoring of your equipment.

REMOTE MONITORING

View real-time equipment measurements via the internet.

IMPROVED UPTIME

Fast and cost-effective setup and maintenance, reduced maintenance costs.

Fluke 3550 FC Thermal Imaging Sensor sends sequential thermal images to the Fluke Connect® Cloud where they can be accessed by the Fluke Connect Condition Monitoring Software. Identify the source of the issue, as it develops, with center-point temperature and real-time alarms.

Positionable

Get around tough spots and mount out of the way. Even in tight or inaccessible locations, you can set up and start monitoring with thermal images in a matter of minutes.

Flexibility

With battery power, use high performance mode to obtain the most accurate images for up to 6 to 8 hours or energy saving mode that can capture sequential images for up to three days. Sensor can be used indefinitely with the AC power supply.

Data logging and alarms

- Data logging with alarms so that you can leave but stay in touch
- Identify potential equipment degradation or events by comparing sequential thermal images taken over time

Remote monitoring

- Use the Fluke Connect Condition Monitoring dashboard from your computer or handheld device for remote monitoring or sending work orders
- Make informed decisions on critical situations with real-time data

Fluke Connect® Condition Monitoring Software

- Detect fault development by reviewing historical trends and current condition of your equipment
- Mobilize your team using work orders powered by the measurement data they need



| Infrared camera | | |
|--------------------------------|--|--|
| Infrared camera temperature | Temperature range | -10 °C to 200 °C (14 °F to 392 °F) Accuracy: ± 5 °C (9 °F) or (± 5 % as tested) |
| | Temperature measurement | (9 °F), add .2 °C |
| | Accuracy | ± 5 °C (9 °F) .2 °C or 0.2 %, whichever is greater, for each °C from 25 °C, at 25 °C (ambient), minimum of 10 minute warm-up |
| | Emissivity | 0.95 fixed |
| Image performance | Resolution | 80x60 |
| | Thermal sensitivity (NETD) | ≤ 200 mK |
| | Infrared spectral band | 7.5 to 14 micron |
| | Field of view | 36° W x 27° H |
| | Focus mechanism | Fixed focus |
| | Minimum focus distance | 20 inches |
| Image presentation | Palette | Blue-red, grayscale, inverted grayscale, high-contrast, hot metal, ironbow, amber, inverted amber |
| | Level and span | "Autoscale" for the level and span (palette min/max) |
| Image capture and data storage | Storage medium | 60 MB of on board memory to store images while the unit is not connected to Wifi. |
| | Image transfer | Fluke Connect® Condition Monitoring Software |
| | File format | Non radiometric .is2 |
| General specifications | | |
| Battery type | Li-ion 7.4 V, 22 Wh, 3 Ahr | Customer replaceable |
| Battery life | 6 to 8 hours of continuous use | Actual life depends on settings and usage |
| Battery charge time | 4 hours to full charge | |
| AC power supply | AC power supply input | Voltage range 100 V ac to 240 V ac |
| | V ac | Current 0.8 A Frequency 50/60 Hz |
| Wireless networking | Frequency | 2.4 Ghz, 802.11 b/g/n |
| | Output power | <100 mW |
| Wireless networking range | Open air, unobstructed | 50m |
| Temperature | Operating | -10 °C to +50 °C (14 °F to 122 °F) |
| | Storage | -20 °C to +60 °C (-4 °F to 140 °F) |
| Relative humidity | 0 % to 95 % non-condensing | |
| | 10 °C to 30 °C (50 °F to 86 °F) ≤ 95 % | |
| | 30 °C to 40 °C (86 °F to 104 °F) ≤ 75 % | |
| | 40 °C to 45 °C (104 °F to 113 °F) ≤ 45 % | |
| Safety rating | IEC 61010-1 | Pollution Degree 2 |
| | IEC 62133, UN 38.3 | Lithium battery |
| Certifications | US FCC—CFR 47, Part 15 Subpart B Class A | |
| Enclosure rating | IP 54, IEC 60529 (protected against dust, limited ingress; protection against water spray from all directions) | |
| Drop | 2 meter maximum | |
| Size (LxWxH) | 47.1 mm x 88.7 mm x 123.8 mm (1.9 in x 3.5 in x 4.9 in) | |
| Weight | 360 g (0.8 lbs) with batteries | |
| Warranty | 2 years limited warranty https://www.else.sk/product.php?id_product=1041 | |



Ordering information

FLUKE 3550 FC Thermal Imaging Sensor

Included

3550 FC Thermal Imaging Sensor, Power Cord, Rechargeable Battery, Positionable Bracket Kit: 360 Bracket, Gimbal, Screw Base, Magnet Base, 2x Adhesive Disks and Quick Start Guide



Preventive maintenance simplified. Rework eliminated.

Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect system.

- Eliminate data-entry errors by saving measurements directly from the tool and associating them with the work order, report or asset record.
- Maximize uptime and make confident maintenance decisions with data you can trust and trace.
- Access baseline, historical and current measurements by asset.
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer.
- Share your measurement data using ShareLive™ video calls and emails.
- The 3550 FC is part of a growing system of connected test tools, condition monitoring and equipment maintenance software. Visit the website to learn more about the Fluke Connect system.

Find out more at **flukeconnect.com**



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Smart phone wireless service and data plan not included with purchase. Within your provider's wireless service area and subject to your plan's pricing and other terms. Fluke Connect is not available in all countries. Some Fluke Connect features require a subscription subject to payment terms and may not be available in all countries.

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

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