

Thermal Imagers



Ti55FT

FLUKE. Ti5X IR FlexCam® Thermal Imagers

Featuring 320 x 240 detectors with industry-leading thermal sensitivity (0.05°C NETD) for high resolution, ultra-high-quality results. 60 Hz acquisition rate detector displays temperatures live on a large 5-inch LCD color display.

Features:

- 180° articulating flexible lens to view images in every situation
- Three lens options are available to cover many applications
- Fully radiometric for detailed temperature analysis and tracking
- Personalized instrument set-up for multiple use
- SmartFocus for best image quality & accurate temp measurement
- CompactFlash memory cards store 1000 IR images plus fully radiometric temperature data
- SmartView reporting and analysis software included
- Optional telephoto (54mm) and wide angle (10.5mm) lenses are available for most models.



Includes: Heavy duty carrying case; two rechargeable battery packs and charger; AC adapter (for Ti55 only); Video cable; 512 MB compact flash card; Compact flash card reader and USB cable; PCMCIA compact flash card reader; Neck strap; User manual on CD; Calibration certificate. **Two-Year Warranty.**

Features	Ti50FT (with IR Fusion)	Ti55FT (with IR Fusion)
Temperature range to cover broad industrial applications	-20 to 350°C (-4 to 662°F)	-20 to 600°C (-20 to 1112°F)
High temperature option	1200°C (2192°F)	1200°C (2192°F)
High thermal sensitivity for viewing small temp differences (NETD)	≤0.07°C (70mK)	≤0.05°C (50mK)
AutoCapture for making intermittent problems visible		X
On-board analysis functions		X
User-defined text annotations for simplified reporting		X
IR-Fusion blending to easily pinpoint components	X	X
IR/Visible Alarm function		X
Laser pointer for easy targeting	X	X
Flash and torch light quality image in dark environments	X	X
Cat No.	FLU-Ti50FT-20	FLU-Ti55FT-20
PRICE	\$18,490.00	\$21,990.00



T-Series Thermal Imaging Cameras

Features:

- **Visible Light Digital Camera** – 3.1MP (2048 X 1536) resolution with illumination provides sharp images
- **Fusion Picture In Picture (PIP)** – Displays thermal image super-imposed over a digital image
- **± 2% Accuracy** – Reliable temperature measurement
- **Thumbnail Image Gallery** – Allows quick search of stored images
- **1x-2x Continuous Zoom** – With auto/manual focus and optional interchangeable lenses
- **Rotating Lens** – Tilts up to 120° for easy viewing angle
- **Delta T** – Calculates differential temperature between two user selected spot measurements
- **Li-Ion Rechargeable Battery** – Lasts >4hrs continuous use; Replaceable
- **Copy To USB** – Easy upload to USB memory stick
- **Laser Locatir™ Pointer** – Pinpoints a reference spot and aligns a marker on the image
- **IR Window Correction** – Accounts for transmission loss through IR windows
- **Bluetooth™ Wireless Communication**



EXT-T400

- **Voice Comment Recording** – On Images - Can be integrated onto report

Includes: SD Memory Card, (2) Li-ion rechargeable batteries with 100-260VAC AC Adaptor/Charger, 2-bay battery charger, QuickReport® software, USB Mini-B cable, video cable, sun shield, stylus pen, Bluetooth® USB micro adapter and headset, camera lens cap, and hard transport case. **Two-Year Warranty.**

Cat No.	EXT-T200	EXT-T300	EXT-T360	EXT-T400
Temperature Range	-4°F to 662°F (-20°C to 350°C)	-4 to 1202°F (-20° to 650°C)	4 to 1202°F (-20° to 650°C)	-4 to 2192°F (-20° to 1200°C)
Image Storage	1000 radiometric JPEG images (SD card memory)-			
Frame Rate	9Hz	30Hz	30Hz	30Hz
Field of View/Min Focus Distance	25° x 19°/1.31ft (0.4m)			
Focus	Manual/Automatic			
Continuous Digital Zoom	2X	2X	4X	8X
Thermal Sensitivity (NETD)	<0.08°C at 30°C	<0.05°C at 30°C	<0.05°C at 30°C	<0.05°C at 30°C
Detector Resolution (pixels)	240 x 180	320 x 240	320 x 240	320 x 240
Display	Built-in touch screen 3.5" color LCD			
Image Modes	Thermal/Visual/PIP	Thermal/Visual/PIP	Thermal/Visual/PIP/Fusion	Thermal/Visual/PIP/Fusion/Panorama
Image Annotation	Voice (60 second)	Voice (60 second)	Voice (60 second); text comments, sketch, image markers on IR/Visual	Voice (60 second); text comments, sketch, image markers on IR/Visual
Lens	25° (optional 6°, 15°, 45°, 90° lens available)			
Measurement Modes	5 Spotmeters, 5 Box areas, Isotherm, Auto hot/cold spot, Delta T			
Weight	1.94lbs (0.88kg), including battery			
PRICE	\$8,450.00	\$9,950.00	\$12,450.00	\$14,950.00

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Thermal Imagers

FLUKE®

On-camera blending of visible and infrared images! Ti10, Ti25, Ti27, Ti29, Ti32 Industrial/Commercial Thermal Imagers

NEW!

Find and fix problems fast with the leading family of affordable thermal imagers. Use one to find a potential problem before it becomes a costly disaster and you'll appreciate just how much Fluke thermal imagers can save in time, money and even lives. Designed for industrial and commercial environments, they deliver outstanding image quality, versatility, and affordability without compromise. The Ti32 and the new Ti27 and Ti29 feature a powerful FPA sensor, field-installable upgradeable lenses, industry-leading $\leq 50\text{mK}$ thermal sensitivity to see even the smallest temperature differences, high temperature or dew point alarms, better level/span adjustment, thumbnail view memory, new display options and more. Superior infrared and spatial resolution coupled with a high definition display creates the sharpest images in their price classes. With a rugged design, integrated lens cover, protected display and 6-1/2 foot drop test, they can tackle the harshest environments.

Features: Patented IR-Fusion® technology combines visual image with IR image in full screen or picture-in-picture view for easy identification and reporting of problems. Large 640 x 480 color LCD display. 2 GB SD memory card will store at least 1200 fully radiometric (.is2) IR and linked visual images each with 60-second voice annotations, transferable to PC via included multi-format USB card reader. Easy-to-use one-handed operation with intuitive 3-button menu. Adjustable hand strap for righties and lefties.

Includes: SmartView® analysis and reporting software, 2 GB SD memory card, USB card reader, rechargeable internal battery and battery charger (Ti10, Ti25), two (2) Li-ion smart battery packs and charger (Ti27, Ti29 & Ti32), hard and soft carrying cases. 2-Year Warranty.



Ti32



Optional Visor for Bright Light

Model	Ti10	Ti25	Ti27	Ti29	Ti32
Cat. No.	FLU-TI10	FLU-TI25	FLU-TI27	FLU-TI29	FLU-TI32
Temperature measurement range (not calibrated below -10°C)	-20°C to 250°C ^o (-4°F to 482°F)	-20°C to 350°C ^o (-4°F to 662°F) 2 ranges	-20°C to 600°C ^o (-4°F to 1112°F)	-20°C to 600°C ^o (-4°F to 1112°F)	-20°C to 600°C ^o (-4°F to 1112°F)
Accuracy	±2°C or 2% whichever is greater				
Thermal field of view	23° horizontal x 17° vertical				
Minimum focus distance	Thermal lens: 15 cm (6"), Visible light lens: 46 cm (18")				
Thermal sensitivity (NETD)	≤0.13°C at 30°C (130 mK)	≤0.09°C at 30°C (90 mK)	≤0.05°C at 30°C (50mK)	≤0.05°C at 30°C (50mK)	≤0.045°C at 30°C (45mK)
Detector type	160 x 120 focal plane array, uncooled microbolometer	160 x 120 focal plane array, uncooled microbolometer	240 x 180 focal plane array, uncooled microbolometer	280 x 210 focal plane array, uncooled microbolometer	320 x 240 focal plane array, uncooled microbolometer
Minimum span (auto/manual)	10°C/5°C	5°C/2.5°C	5°C/2.5°C	5°C/2.5°C	5°C/2.5°C
Focus	Manual, one-handed Smart Focus capability				
Measurement modes	Center point	Center point and hot and cold markers	Center point and hot and cold markers	Center point and hot and cold markers	Center point and hot and cold markers
On-screen emissivity correction	No	Yes	Yes	Yes	Yes
On-screen reflected background Temperature Compensation	No	Yes	Yes	Yes	Yes
On-screen transmission correction	No	No	Yes	Yes	Yes
Set-up controls	Date/time, °C/°F, language	Date/time, °C/°F, language, hot & cold spot image	Date/time, °C/°F, language, hot & cold spot image, Display settings	Date/time, °C/°F, language, hot & cold spot image, Display settings	Date/time, °C/°F, language, hot & cold spot image, Display settings
Power	Internal rechargeable battery, 3-4 hours continuous operation or AC adaptor		2-Li-On rechargeable smart battery packs (4+ hours continuous operation)		
Price	\$4,495.00	\$7,495.00	\$6,495.00	\$7,495.00	\$8,995.00
Optional Visor for Bright Light	No. FLU-TI-VISOR\$74.99				

FLIR® I-Series Thermal Imaging Cameras

Weighing just 12 oz., these are the smallest, lightest thermal imaging cameras available. Ideal for a broad range troubleshooting activities. High accuracy and thermal sensitivity help you find problems faster and easier. Convenient features such as a 2.8" high resolution LCD color display screen, focus free lens, one-hand navigation pad and large memory thumbnail image gallery make them easy to use – even for beginners. Li-ion rechargeable battery operates for 5 hours and has a display to show battery status. Rugged double molded design with easy grip handle. **Includes:** FLIR QuickReport™ software for analysis of radiometric images, 512MB miniSD™ card, 110-240V AC adaptor/charger, USB cable, built-in manual lens shutter, hand strap and protective hard carrying case.

Model	i3	i7
Cat No.	EXT-I3	EXT-I7
Temperature Range	32° F to 122° F	32° F to 482° F
Accuracy	±2%	2%
Thermal Sensitivity (NETD)	<0.15°C @ 25°C	0.1°C @ 25°C
Detector Resolution (pixels)	60/60	120/120
Spot meter/Area Box	Spot	Spot/Area/Isotherm
Focus	Fixed	Auto-focus
Image Storage (SD Card)	5,000	5,000
Price	\$1,195.00	\$1,995.00



NEW!

i7

Accessories:

No. EXT-1196961 15° Lens (15°, f=30mm) with case\$1,750.00
No. EXT-1196960 45° Lens (45°, f=10mm) with case\$1,750.00

No. EXT-T197410
No. EXT-T910711

Li-Ion Rechargeable Battery\$35.00
Power Supply Charger\$45.00

Thermal Imagers

FLIR E-Series Thermal Imaging Cameras

Presenting the best performance and value ever engineered into compact thermal imaging cameras. The new E-series is designed to fit beautifully into both your budget and the palm of your hand.

Superior Thermal Imaging – Up to 76,800 pixels (320 x 240) for better long-range accuracy and the highest level of point & shoot camera IR resolution.

Improved Digital Camera – 3 megapixel resolution provides the clearest visible light pictures in its class, and includes a bright LED lamp that doubles as a flashlight.

New Large Landscape Touchscreen - Brighter than other brands, the E-Series touchscreen provides an intuitive interface that takes full advantage of the entire 3.5" display with no image cropping.

New Wi-Fi Connectivity – Use the FLIRViewer App to send images and data to an iPhone® or iPad® and share reports and critical information quickly.

Laser Pointer – Pinpoint a reference spot with a laser and mark it on the image for precise detection.

Accurate Temperature Measurements – Calibrated within 2% or ±2°C.

Annotation – Add voice comments via Bluetooth headset and text notes from the touchscreen keypad.

Scalable P-i-P and Thermal Fusion – Overlay thermal and visible images for easy location identification and clearer documentation.

Multiple Measurements – Use touchscreen to add up to 3 box areas and 3 moveable spots to gather more detailed temperature information.

InstantReport – Generate a professional PDF document directly from the camera on site.

MeterLink – Wirelessly transmit vital diagnostic data from clamp and moisture meters directly to the camera and annotate thermal images to further support findings and decisions.

Plenty of Extras – 4 hour Li-Ion battery, 2 year warranty, radiometric JPG to SD card, uncooled microbolometer.

Composite video out, 60 Hz frame rate. 1.82 lbs (0.825 kg) including lens.

NEW!



Model	E30	E40	E50	E60
Resolution	160 x 120	160 x 120	240 x 180	320 x 240
Total Pixels	19,200	19,200	43,200	76,800
Thermal Sensitivity	<0.10°C	<0.07°C	<0.05°C	<0.05°C
Temperature Range	-4°F to 482°F (-20°C to 250°C)	-4°F to 1,202°F (-20°C to 650°C)	-4°F to 1,202°F (-20°C to 650°C)	-4°F to 1,202°F (-20°C to 650°C)
Zoom	—	2x Continuous Digital	4x Continuous Digital	4x Continuous Digital
3 MP Video Camera w/Lamp	—	x	x	x
Picture-in-Picture	—	Fixed	Scalable	Scalable
Fusion	—	—	x	x
Moveable Spots	1	3	3	3
Box Areas	1	3	3	3
Delta T	—	x	x	x
Annotation: Voice/Text	—	x	x	x
MPEG4 Video Recording	—	x	x	x
Wi-Fi to iPhone/iPad	—	x	x	x
MeterLink	—	x	x	x
InstantReport	—	—	—	x
FLIR Tools	x	x	x	x
Cat No.	EXT-E30	EXT-E40	EXT-E50	EXT-E60
Price	\$2,500.00	\$3,995.00	\$5,495.00	\$7,495.00



Hygro-Thermometer Clock

Display time, temperature and humidity in large LCD display. Attractive indicator can be placed on desktop or mounted on wall. Displays temperature in either °C or °F. Provides Max/Min readings for temperature and humidity. Range: 14.0 to 140.0 °F (-10 to 60 °C) Relative Humidity from 10 to 85%. Comes with AAA battery. 4.3" x 2.8" x .8", 4 oz. No. EXT-445702\$32.99



NEW!

HeatWatch™ Humidity/Temperature Stopwatch

Digital up/down timer displays temperature, humidity, and heat index with user-adjustable alarm. Stopwatch/chronograph mode has 1/100 second resolution, 99 lap counter with 30 lap/split memory, fastest/slowest/average lap recall and 10-hour countdown timer with audible beeper warning for the last 5 seconds. Calendar mode displays day, month, and date. Includes: 39" (1m) lanyard and one 3V CR2032 battery. No. EXT-HW30\$44.99



EasyView™ Dual Input Type K Thermometer

Features:
 • Wide temperature range with 0.1°/1° resolution; Compact rugged design with large backlit display; Data Hold, auto power off, low battery and overrange indication; Records max/min readings for later recall.
Includes: built-in stand, protective holster, (2) Type K bead wire temperature probes and (6) AAA batteries. No. EXT-EA10\$119.99
 • Thermometer with NIST Certificate of Calibration No. EXT-EA10-NIST\$184.99



Hygro-Thermometer

One inch high digits on LCD provide simultaneous measurements of temperature and humidity. Complete with stand or wall mounting bracket and AAA battery. Switch between °C or °F. Stores Max/Min readings. Range: 14 to 140°F (-10 to 60 °C) Relative Humidity from 10 to 99%. 4.3" x 3.9" x .8", 4 oz. No. EXT-445703\$41.99



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Fluke 500 Series Infrared & Contact Thermometers

Fluke 500 series digital laser thermometers make even complex measurements easy. Quickly navigate advanced features to adjust emissivity, start data logging, or turn on and off alarms. With a rugged, easy-to-use, ergonomic design, these two-in-one contact and non contact thermometers can stand up to tough industrial, electrical, and mechanical environments. **All Include:** Batteries; Hard carrying case or holster; Operators Guide. Two-Year Warranty.

Model	A. Fluke 561	B. Fluke 566	C. Fluke 568
Temperature Range	-40°F to 1022°F (-40°C to 560°C)	-40°F to 1202°F (-40°C to 650°C)	-40°F to 1472°F (-40°C to 800°C)
Distance to Spot Ratio	112:1	30:1	50:1
Accuracy	±1% of reading or ±1%°C (±2°F), whichever is greater; below 0°C/32°F, ±1%°C (±2°F), g±0.1°/1°	< 0°C (32°F): ±(1.0°C (2.0°F) + 0.1°/1°C or °F); >0°C (32°F): ±1% or ±1.0°C (±2.0°F), whichever is greater	< 0°C (32°F): ±(1.0°C (2.0°F) + 0.1°/1°C or °F); >0°C (32°F): ±1% or ±1.0°C (±2.0°F), whichever is greater
Resolution	0.1°C (0.1°F)	0.1°C (0.1°F)	0.1°C (0.1°F)
Emissivity	Adjustable	Adjustable	Adjustable
Min/Max/Avg.	MIN/MAX/DIF	MAX, MIN, AVG	MAX, MIN, AVG
Datalogging	No	Yes	Yes
Hi/Lo Alarm	No	Audible & two-color visual	Audible & two-color visual
Batteries	2 AA Batteries	2 AA Batteries	2 AA batteries & USB when used with a PC
Cat No.	FLU-FLUKE-561	FLU-FLUKE-566	FLU-FLUKE-568
Price	\$178.95	\$397.95	\$524.99

Fluke 50 Series II Thermometers

Fluke's rugged 50 Series II thermometers offer high accuracy with fast response times to quickly capture your measurement and show you trends. Choose from our "Just the Facts Chart" to get the functionality, thermocouple support and data logging you need. (USA)

Model	A. 54 Series II	B. 53 Series II	C. 52 Series II	51 Series II
Thermocouple Types	K, J, T, E, R, S, N	K, J, T, E, R, S, N	K, J, T, E	K, J, T, E
Number of Inputs	Dual	Single	Dual	Single
Time Stamp	Time of Day	Time of Day	Relative Time	Relative Time
Splash/Dust Resistant	X	X	X	X
Dual Display w/Backlight	X	X	X	X
MIN/MAX/AVG Record	X	X	X	X
Compatible w/ Toolpak™	X	X	X	X
(T1-T2) Readout	X		X	
Logging up to 500 points	X	X		
IR Port for Download to PC	X	X		
Measurement Range	-418°F to 2501°F	-418°F to 2501°F	-418°F to 2501°F	-418°F to 2501°F
Display Resolution	0.1°C/F/K < 1000° 1°C/F/K ≥ 1000°	0.1°C/F/K < 1000° 1°C/F/K ≥ 1000°	0.1°C/F/K < 1000° 1°C/F/K ≥ 1000°	0.1°C/F/K < 1000° 1°C/F/K ≥ 1000°
Warranty	Three-Year	Three-Year	Three-Year	Three-Year
Cat No.	FLU-FLUKE-54-2	FLU-FLUKE-53-2	FLU-FLUKE-52-2	FLU-51-2
Price	\$393.95	\$341.95	\$288.95	\$241.95
Calibrated Cat No.	FLU-FLUKE-54-2-CAL	FLU-FLUKE-53-2-CAL	FLU-FLUKE-52-2-CAL	FLU-FLUKE-51-2-CAL
Price	\$481.00	\$432.00	\$370.00	\$323.00



FLUKE 971 Temperature Humidity Tester

Temperature and humidity are two important factors in maintaining optimal comfort levels and good indoor air quality. Quickly and conveniently take accurate humidity and temperature readings with the Fluke 971. The Fluke 971 is invaluable for facility maintenance and utility technicians, HVAC-service contractors, and specialists who assess indoor air quality (IAQ). Lightweight and easy to hold, the 971 is the perfect tool for monitoring problem areas. With a rugged holster and twist-open protective sensor cover, the Fluke 971 is built to perform and made to last.

- Backlit dual display of humidity and temperature
- Measures dew point and wet bulb temperatures
- 99 record storage capacity
- Ergonomic design w/ belt clip & protective holster
- Min/Max/Avg Data hold
- Quick-response capacitance sensor with twist-open protective cover
- Compact and lightweight (188 g/6.6 oz)
- Temp. range from -20 °C to 60 °C (-4°F to 140 °F)
- Relative humidity from 5% to 95%
- Low battery indicator

No. FLU-971 971 Temperature/Humidity Tester\$245.00



EXTECH INSTRUMENTS A FLIR COMPANY

Humidity and Temperature Chart Recorder

Monitor and record temperature and humidity and generate warnings when conditions are outside limits. Easily configured, mounts on desk or wall to view trends with date/time stamp. Measures humidity 10 to 95% and temperature -20°F to 140°F. LabView software calculates and graphs dewpoint, wet bulb and GPP. Audible and visual alarm with Hi/Low setpoints. **Includes:** Built-in stand, detachable probe with 3' cable, RS-232 cable to USB adaptor, LabView software, 100-240 VAC, 50/60 Hz adaptor, 3 AA batteries. No. EXT-RH520A.....\$269.99



Humidity and Temperature USB Datalogger

Features: Measures and logs up to 32,000 readings (16,000/each parameter); Includes Windows® software for dew point indication; Selectable data sampling rates from 2 seconds to 24 hours; User-programmable alarm thresholds for RH and temperature; Temperature measurement range: -40 to 158°F; humidity: 0 to 100%RH. **Includes:** 3.6V Lithium battery. No. EXT-RHT10\$84.99

