

TECHNICAL DATA

Ti450 SF6 Gas Leak Detector and Infrared Camera



SUPERIOR IMAGE QUALITY

GAS DETECTION

SF₆ (Sulfur hexafluoride)

THERMAL SENSITIVITY (NETD)

≤ 0.025 °C at 30 °C target temp (25 mK)

RESOLUTION

320 x 240 in both infrared and gas modes 640 x 480 with SuperResolution mode, only in infrared mode



Fluke Connect® compatible

SF₆ gas leak detector combined with Fluke's top performing pistol grip infrared camera

- Detects and pinpoints the exact location of the SF6 leak-without shutting down equipment
- 320 x 240 resolution for gas and infrared images; SuperResolution increases to 640 x 480, only in infrared mode.
- Get in-focus images in both infrared and gas modes with a touch of a button with LaserSharp[®] Auto Focus
- Wirelessly connect your camera to the Fluke Connect* system to make faster decisions. Team members can see the same data and collaborate on identifying the problem or authorize work before you've left the inspection site.
- No need for pencil and notebook:
 - IR-PhotoNotes[™] annotation system-captures digital images of equipment details, e.g. serial numbers and surrounding area conditions
 - Record any additional notes with voice annotation and save them with the image
- Compatible with smart lenses that require no calibration when swapping them between compatible cameras
- Optimize images, perform analytics, generate quick, customizable reports and export images to the format of your choice with Smart-View* desktop software, included with your purchase
- Capture clear, accurate infrared images focused throughout the entire field of view with MultiSharp™ Focus
- Small and lightweight, fits easily into your tool box

100 % Focused-Every object. Near and far. MultiSharp™ Focus.



Manual focus-only front pipe in focus



MultiSharp™ Focus produces an image





Specifications

Detector resolution SuperfaceJultion SuperfaceJultion SuperfaceJultion SuperfaceJultion SuperfaceJultion SuperfaceJultion SuperfaceJultion Set detection SF, gas loak detection conditions Fig. gas loak detection conditions SF, gas loak detection conditions SF, gas loak detection conditions SF, gas loak detection conditions SExcellent outdoor conditions—moresaty—large temperature difference between gas and background, no wind SGO be annual gas loss rate Good outdoor conditions—moderate temperature difference between gas and background, no wind SFO be annual gas loss rate Easy detection in moderate conditions Easy detection in moderate conditions Easy detection in moderate conditions 13.1 mRad, DS 73.31 SF 75.01 SF 15.1 mRad, DS 73.31 SF 15.1 mRad, DS 73.31 SF 16.1 mRad, DS 73.31 SF 16.2 mRad, SF 73.31 SF 16.3 mRad, DS 73.31 SF 16.3 mRad, DS 73.31 SF 16.4	Key features	Ti450 SF6 Gas Leak Detector and Infrared Camera
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Provide standard lons (spatial resolution) 1.31 mRad, D.S 753:1	10 to 50 lbs annual gas loss rate	
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MultiSharp™ Focus Yes, focused near and far, throughout the field of view Laser distance meter Advanced manual focus Wireless connectivity Yes, to PC, IPhone® and ipad (160.5 &s and alter). Android™ 4.3 and up, an WiFi to LAN (where available) Fluke Connect app compatible Fluke Connect Assets optional software Fluke Connect Instant Upload Fluke Connect Instant Upload Fluke Connect Instant Upload Yes*, connect your camera to your smartphone, and images taken automa cally upload to the Pluke Connect app for saving and sharing Yes*, connect your camera to your building® will network, and images taken automa create work orders. Easily compare meis surment types in one location Yes*, connect your camera to your building® will network, and images taken automatically upload to the Fluke Connect applied to the Fl	Minimum focus distance	15 cm (approx. 6 in)
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Full IR Yes Full Visible light Rugged ergonomic design for one-handed use Thermal sensitivity (NETD) Filter mode (NETD improvement) Level and span Fast auto toggle between manual and auto modes Fast auto-rescale in manual mode Minimum span (in manual mode) Frame rate Laser pointer LED light (torch) Digital zoom Data storage and Image capture Extensive memory options Image capture, review, save mechanism Memory review Software Export file formats with SmartView® desktop software Ves Ves 3.5 inch (landscape) 640 x 480 LCD Yes 3.6 or (1,5 and) Yes Smooth auto and manual scaling Yes Smooth auto and manual scaling Yes 2.0 °C (3.6 °F) Minimum span (in manual mode) 3.0 °C (5.4 °F) 5 megapixel industrial performance 60 Hz Yes Data storage and Image capture Extensive memory options Removable 4 GB micro SD memory card, 4 GB internal flash memory, save USB flash drive capability, upload to Fluke Connect® Cloud storage One-handed image capture, review, and save capability Non-radiometric (.bmp) or (.jpeg) or (lpeg) or (lpe	Picture-in-picture (PIP)	Yes
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Built-in digital camera (visible light) Frame rate Laser pointer Let light (torch) Digital zoom Data storage and image capture Extensive memory options Removable 4 GB micro SD memory card, 4 GB internal flash memory, save USB flash drive capability, upload to Fluke Connect® Cloud storage Image capture, review, save mechanism One-handed image capture, review, and save capability Image file formats Memory review Software SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Export file formats with SmartView® desktop software Wice annotation Yes Text annotation Yes Yes (save up to 5 notes per IR image) Text annotation Yes	Minimum span (in manual mode)	2.0 °C (3.6 °F)
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Laser pointer LED light (torch) Digital zoom Data storage and image capture Extensive memory options Removable 4 GB micro SD memory card, 4 GB internal flash memory, save USB flash drive capability, upload to Fluke Connect® Cloud storage Image capture, review, save mechanism One-handed image capture, review, and save capability Image file formats Memory review Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for non-radiometric (.bmp, .jpg and .avi) files Thumbnail and full screen review SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Export file formats with SmartView® desktop software Export file formats with SmartView® desktop software Woice annotation Yes Text annotation Yes (save up to 5 notes per IR image) Text annotation	Built-in digital camera (visible light)	5 megapixel industrial performance
Description Description Description Description Description Description Description Description Description Removable 4 GB micro SD memory card, 4 GB internal flash memory, save USB flash drive capability, upload to Fluke Connect® Cloud storage USB flash drive capability, upload to Fluke Connect® Cloud storage One-handed image capture, review, and save capability Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for non-radiometric (.bmpjpg and .avi) files Thumbnail and full screen review SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Export file formats with SmartView® desktop software Export file formats with SmartView® desktop software Voice annotation Yes Text annotation Yes (save up to 5 notes per IR image) Text annotation	Frame rate	60 Hz
Digital zoom Data storage and image capture Extensive memory options Removable 4 GB micro SD memory card, 4 GB internal flash memory, save USB flash drive capability, upload to Fluke Connect® Cloud storage Image capture, review, save mechanism One-handed image capture, review, and save capability Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for non-radiometric (.bmp, .jpg and .avi) files Thumbnail and full screen review SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Export file formats with SmartView® desktop software Export file formats with SmartView® desktop software Woice annotation Yes Text annotation Yes (save up to 5 notes per IR image) Text annotation	Laser pointer	Yes
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Removable 4 GB micro SD memory card, 4 GB internal flash memory, save USB flash drive capability, upload to Fluke Connect® Cloud storage Image capture, review, save mechanism One-handed image capture, review, and save capability Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for non-radiometric (.bmp, .jpg and .avi) files Thumbnail and full screen review SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Export file formats with SmartView® desktop software Export file formats with SmartView® desktop software Woice annotation Yes Text annotation Yes (save up to 5 notes per IR image)	Digital zoom	2x and 4x
USB flash drive capability, upload to Fluke Connect® Cloud storage Image capture, review, save mechanism One-handed image capture, review, and save capability Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for non-radiometric (.bmp, .jpg and .avi) files Memory review Software SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Export file formats with SmartView® desktop software Export file formats with SmartView® desktop software Woice annotation Yes Text annotation Yes (save up to 5 notes per IR image) Text annotation Yes	Data storage and image capture	
Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for non-radiometric (.bmp, .jpg and .avi) files Memory review Thumbnail and full screen review Software SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Export file formats with SmartView® desktop software Woice annotation Yes IR PhotoNotes™ Yes (save up to 5 notes per IR image) Text annotation Yes	Extensive memory options	USB flash drive capability, upload to Fluke Connect® Cloud storage
software required for non-radiometric (.bmp, .jpg and .avi) files Memory review Thumbnail and full screen review Software SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Export file formats with SmartView® desktop software Woice annotation Yes IR PhotoNotes™ Yes (save up to 5 notes per IR image) Text annotation Yes	Image capture, review, save mechanism	
SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Export file formats with SmartView® desktop software Bitmap (.bmp), GIF, JPEG, PNG, TIFF Voice annotation Yes IR PhotoNotes™ Yes (save up to 5 notes per IR image) Text annotation Yes	Image file formats	software required for non-radiometric (.bmp, .jpg and .avi) files
Export file formats with SmartView® desktop software Bitmap (.bmp), GIF, JPEG, PNG, TIFF Voice annotation Yes IR PhotoNotes™ Yes (save up to 5 notes per IR image) Text annotation Yes	•	
Software Voice annotation Yes IR PhotoNotes™ Yes (save up to 5 notes per IR image) Text annotation Yes		access to the Fluke Connect system
Text annotation Yes (save up to 5 notes per IR image) Yes	software	
Text annotation Yes		
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Data storage and image capture (continued)	Ti450 SF6 Gas Leak Detector and Infrared Camera
File formats video	Non-radiometric (MPEG-encoded .AVI) and fully-radiometric (.IS3)
Remote display viewing	Yes, see the live stream of the camera display on your PC, smartphone, or TV monitor. Via USB, WiFi hotspot, or WiFi network to SmartView software on a PC; via WiFi hotspot to the Fluke Connect* app on a smartphone; or vi
Remote control operation	Yes, through SmartView® desktop software or Fluke Connect mobile app
Auto capture (temperature and interval)	Yes
Battery	
Batteries (field-replaceable, rechargeable)	3-4 hours per battery (*Actual life varies depending on settings and usage
Battery charge time	2.5 hours to full charge
Battery charging options	Two-bay battery charger or in-imager charging. Optional 12 V automotive charging adapter
AC operation	AC operation with included power supply (100 V AC to 240 V AC, 50/60 Hz
Power saving	User selectable sleep and power off modes
Temperature measurement	
Temperature measurement range (not calibrated below -10° C)	-20 °C to +1200 °C (-4 °F to +2192 °F)
Accuracy	± 2 °C or 2 % (at 25 °C nominal, whichever is greater)
On-screen reflected background temperature compensation	Yes
On-screen transmission correction	Yes
Live line marker	Yes
Color palettes	
Standard palettes	8: Ironbow, Blue–Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted
Ultra Contrast™ palettes	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra, Ambe Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Inverted Ultra
General specifications	
Color alarms (temperature alarms)	High temperature, low temperature, and isotherms (within range)
Infrared spectral band	7.5 µm to 14 µm (long wave)
Operating temperature	-10 °C to +50 °C (14 °F to +122 °F)
Storage temperature	-20 °C to +50 °C (-4 °F to +122 °F) without batteries
Relative humidity	10 % to 95 % non-condensing
Center-point temperature measurement	Yes
Spot temperature	Hot and cold spot markers
User-definiable spot markers	3 user-definable spot markers
Center box	Expandable-contractible measurement box with MIN-MAX-AVG temp display
Safety	IEC 61010-1: Overvoltage category II, Pollution Degree 2
Electromagnetic compatibility	IEC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A
Austrialian RCM	IEC 61326-1
US FCC	CFR 47, Part 15 Subpart B
Vibration	0.03 g2/Hz (3.8 g), 2.5 g IEC 68-2-6
Shock	25 g, IEC 68-2-29
Drop	Engineered to withstand 2 meter (6.5 feet) drop with standard lens
Size (HxWxL)	27.7 cm x 12.2 cm x 16.7 cm (10.9 in x 4.8 in x 6.5 in)
Weight (battery not included)	1.04 kg (2.3 lb)
Enclosure rating	IEC 60529: IP54 (protected against dust, limited ingress; protection aga
Warranty	Two-years (standard), extended warranties are available
Recommended calibration cycle	Two-years (assumes normal operation and normal aging)
Supported languages	Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish

^{*}SmartView analysis and reporting software is available in all countries but Fluke Connect is not. Please check availability with your authorized Fluke distributor.







Preventive maintenance simplified. Rework eliminated.

Save time and improve the reliability of your maintenance data by wirelessling syncing measurements using the Fluke Connect® system. The Ti450 SF₆ is part of a growing system of connected test tools and equipment maintenance software.

Find out more at flukeconnect.com







All trademarks are the property of their respective owners. WiFi or cellular service required to share data. Smartphone, wireless service and data plan not included with purchase. First 5 GB of storage is free. Phone support details can be viewed at fluke.com/phones.

Smart phone wireless service and data plan not included with purchase. Fluke Connect is not available in all countries.



Powerful, easy-to-use SmartView[®] desktop software.

It's easier than ever to optimize thermal images, perform analytics, generate quick, customizable, reports, and export images to the format of your choice.

Ordering information

FLK-Ti450 SF6 60 Hz Gas Detector and Infrared Camera

Included with product

Infrared camera with standard lens and 2x lens; adjustable hand strap; AC power supply and battery pack charger (including universal AC adapters); two rugged lithium ion smart battery packs; USB cable; HDMI video cable; 4 GB micro SD card; HDMI eye piece; 2x Infrared Telephoto lens; tripod holder; rugged, hard carrying case.

Available by free download

SmartView* desktop software and user manual Software can be downloaded at www.fluke.com/smartviewdownload

Optional accessories

FLK-LENS/4XTELE2 Infrared Telephoto Lens, (4X magnification) FLK-LENS/WIDE2 Infrared Wide Angle Lens TI-CAR-CHARGER Car Charger FLK-TI-VISOR3 Sun Visor **BOOK-ITP** Introduction to Thermography Principles Book FLK-TI-BLUETOOTH Bluetooth headset FLK-TI-SBP3 Additional Smart Battery FLK-TI-SBC3B Additional Smart Battery Charger

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

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