

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

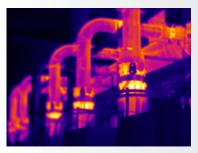


Fluke Connect® compatible

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

- Detects the location of an 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 SmartView[®] 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 focused throughout the field of view



Specifications

Explanation Superinscalaring		Ti450 SF6 Gas Leak Detector and Infrared Camera
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Superfined G40 x 480 (807,200 pixels) on infrared mode		320 x 240 (76,800 pixels)
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Solid bearing ages loss rate (e.g., high attitude clouds), < 5 mph winds, camera on tripod	<10 lbs annual gas loss rate	
Fire	10 to 50 lbs annual gas loss rate	Easier. Need good outdoor conditions—moderate temperature difference between gas and background (e.g. high altitude clouds), < 5 mph wind, camera on tripod
Paid of view 15 cm (approx. 6 in)	>50 lbs annual gas loss rate	Easiest detection in moderate conditions, temperature differential of 3 °C or greater, < 10 mph wind
Minimum focus distances 18 rauson technology Yes, to counse team of far, throughout the field of view Laser-Sharp? Auto Tocus Laser datance nearer Advanced manual focus Wireless connectivity Wireless connectivity Wireless connectivity Pube Connect* app compatible Ves*, connect your camera to your buildings Will intervok, and images taken automatically upload to the Fluke Connect app for awaying and sharing Fluke Connect instant Upload Yes*, connect your camera to your buildings Will intervok, and images taken automatically upload to the Fluke Connect app for awaying and sharing Fluke Connect instant Upload Yes*, connect your camera to your buildings Will intervok, and images taken automatically upload to the Fluke Connect app for awaying and sharing Fluke Connect instant Upload Yes*, connect your camera to your buildings Will intervok, and images taken automatically upload to the Fluke Connect instant Upload Yes*, connect your camera to your buildings Will intervok, and images taken automatically upload to the Fluke Connect to your buildings Will intervok, and images taken automatically upload to the Fluke Connect to your buildings Will intervok, and images taken automatically upload to the Fluke Connect to your buildings Will intervok, and images taken automatically upload to the Fluke Connect to your buildings Will intervok, and images taken automatically upload to the Fluke Connect of the visible details to your infrared image Repulled The Yes*, connect wirelessly to select Fluke Connect onable double and displays measurements on camera connect system for visible details to your infrared image Yes*, connect wirelessly to select Fluke Connect of the visible details to your infrared image Yes*, connect wirelessly to select Fluke Connect of the visible details to your infrared image Yes*, connect wirelessly to select Fluke Connect of the visible details to your infrared image Yes*, connect wirelessly to select Fluke Connect Connect Yes* Pull IR Pull State Individual Systems of the Systems	IFOV with standard lens (spatial resolution)	1.31 mRad, D:S 753:1
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Wireless connectivity Yes, to PC, IPhone* and IPad* (103 44 and later). Autociod** 4.3 and up, and WiF1 to LAN (where availabile) Pluke Connect app compatible Yes*, connect your camera to your smartphone, and images taken automatically upload to the Fluke Connect Assets optional software Yes*, connect your camera to your building's WiF1 network, and images taken automatically upload to the Fluke Connect Instant Upload Yes*, connect your camera to your building's WiF1 network, and images taken automatically upload to the Fluke Connect content to location Yes*, connect wirelessly to select Fluke Connect system for viewing on your smartphone or PC Fluke Connect tool compatible Yes*, connect wirelessly to select Fluke Connect system for viewing on your smartphone or PC Fluke Connect tool compatible Yes, dods the context of the visible details to your intrated image AutoBlend** mode Yes, Min, Mid, Max IR plus full visible on camera: continously variable in software Pcture—in-picture (PIP) Yes RFVisible Alarm Yes Full Visible Injett Regedized touchscreen display Ruggedized touchscreen display Ruggedized touchscreen display Ruggedized touchscreen display Ruggedized fourheacened sign for one—handed use Yes Thermal sensitivity (NETD) The mode (NETD) Fast suito toggle between manual and auto modes Past suito toggle between manual and auto modes Past suito-rescale im manual mode Aliminum span (in auto mode) Past suito-rescale im manual mode) Frame rate Billit in digital camera (visible light) Frame rate Billit in digital camera (visible light) Frame rate Billit in digital camera (visible light) Removable 4 GB micro SD memory card, 4 GB internal flash memory, save to USB flash drive capability upload to Pluke Connect's Cloud storage Image capture, review, save mechanism Removable 4 GB micro SD memory card, 4 GB internal flash memory, save to USB flash drive capability upload to Pluke Connect's Cloud storage Image capture, review, save mechanism Removable 4 GB micro SD memory card		
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Digital zoom 2x and 4x Data storage and image capture Extensive memory options Removable 4 GB micro SD memory card, 4 GB internal flash memory, save to 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 Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.isz); 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 Bitmap (.bmp), GIF, JPEG, PNG, TIFF Voice annotation Yes IR PhotoNotes™ Yes (save up to 5 notes per IR image) Text annotation Yes		***
Data storage and image capture Extensive memory options Removable 4 GB micro SD memory card, 4 GB internal flash memory, save to 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 Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for non-radiometric (.bmp, .jpg and .av1) 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 Bitmap (.bmp), GIF, JPEG, PNG, TIFF Voice annotation Yes IR PhotoNotes™ Yes (save up to 5 notes per IR image) Text annotation Yes	LED light (torch)	Yes
Extensive memory options Removable 4 GB micro SD memory card, 4 GB internal flash memory, save to 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 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 Bitmap (.bmp), GIF, JPEG, PNG, TIFF Voice annotation Yes IR PhotoNotes™ Yes (save up to 5 notes per IR image) Text annotation Yes	Digital zoom	2x and 4x
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Memory review Software Software Export file formats with SmartView® desktop software Voice annotation Text annotation Find in and ying and avi) files Thumbnail and full screen review SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Bitmap (.bmp), GIF, JPEG, PNG, TIFF Yes Yes (save up to 5 notes per IR image) Text annotation Yes	Image capture, review, save mechanism	One-handed image capture, review, and save capability
Software 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	
Export file formats with SmartView® desktop software Voice annotation Text annotation Software System Bitmap (.bmp), GIF, JPEG, PNG, TIFF Yes Yes Yes (save up to 5 notes per IR image) Yes	Memory review	
software Voice annotation IR PhotoNotes™ Text annotation Yes Sitmap (.Dmp), GIF, PPEG, PNG, TIFF Yes Yes Yes Yes Yes Yes Yes		
IR PhotoNotes™ Yes (save up to 5 notes per IR image) Text annotation Yes	software	
Text annotation Yes		
	Text annotation Video recording	Yes Standard and radiometric



Data atawaya and imana mentura (mentingal)	Ti450 SF6 Gas Leak Detector and Infrared Camera
Data storage and image capture (continued) 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 o a smartphone; or via HDMI to a TV monitor
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 +1500 °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, Amber 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 against water spray from all directions)
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.



Ordering information

FLK-Ti450 SF6 60 Hz Gas Detector and Infrared Camera

Included with product

Infrared camera with standard 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 and 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.



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







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



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