

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

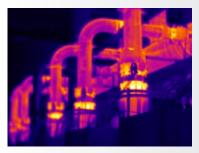


Fluke Connect® compatible

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.







MultiSharp™ Focus produces an image





Specifications

Descendance and superfections	Key features	Ti450 SF6 Gas Leak Detector and Infrared Camera
Superflesolution Gas detection Sr. gas leak detection conditions 10 to 80 lbs annual gas loss rate Good outdoor conditions—noderate learners and background, no wind Flow that standard lens (spatial resolution) 1.31 mind. Dis 793.1 1.51 mind. Dis 793.1 1.52 mind. Dis 793.1 1.52 mind. Dis 793.1 1.54 mind. Dis 793.1 1.55 mind. Di	<u> </u>	320 x 240 (76 800 pixels)
Gas detection SP. gas had detection conditions (10 bs annual gas loss rate 10 to 50 lbs annual gas loss rate 10 to 50 lbs annual gas loss rate S0 the annual gas loss rate 10 to 50 lbs annual gas loss rate S0 the annual gas loss rate S0 the annual gas loss rate FIVO with standard lons (epatial resolution) Filed of view Minimum focus distance IR Fusion* technology Wes, in-clous images with the touch of a button Yes, focused near and far, throughout the field of view Laser distance motor Yes, calculates distance to the target for precisely focused images and display distance on access and later, Androist* 4.3 and up and target a	SuperResolution	320 x 240 (76,800 pixels) 640 x 480 (307,200 pixels)
SP. gas leak detection conditions 10 to 50 the annual gas loss rate Solt he annual gas loss rate Solt he annual gas loss rate Solt he annual gas loss rate Flow of view ITOV with standard lens (spatial resolution) Floid of view Minimum focus distance IF Pusion' technology Minimum focus distance IF Pusion' technology Minimum focus Yes, to caused near and far, throughout the field of view Laser clistance meter Advanced manual flous Yes, cocused near and far, throughout the field of view Yes, cocused near and far, throughout the field of view Yes, cocused near and far, throughout the field of view Yes, cocused near and far, throughout the field of view Yes, cocused near and far, throughout the field of view Yes, cocused near and far, throughout the field of view Yes, cocused near and far, throughout the field of view Yes, cocused near and far, throughout the field of view Yes, cocused near and far, throughout the field of view Yes, cocused near and far, throughout the field of view Yes, cocused near and far, throughout the field of view Yes, cocused near and far, throughout the field of view Yes, connect view consectivity Yes, connect view consectivity c	Gas detection	
Section Sect	SF ₀ gas leak detection conditions	
And background, no wind Easy detection in moderate conditions Field of view Field of view Ready detection in moderate conditions If Pastor technology Wes, no camera—full screen Wes, on camera—full screen Yes, conceded not not be field of view Laser distance meter Advanced manual focus Yes, calculates distance to the target for precisely focused images and displays distance on screen Advanced manual focus Yes, calculates distance to the target for precisely focused images and displays distance on screen Advanced manual focus Yes, calculates distance to the target for precisely focused images and displays distance on screen Advanced manual focus Yes, calculates distance to the target for precisely focused images and displays distance on screen Wireless connectivity Pluke Connect app compatible Pluke Connect app compatible Pluke Connect Assets optional software Yes, connect your camera to your samptipone, and images taken automated can be contained to the property of the connect app for saving and sharing Yes', assign images to assets and create work opters. Early compare me surement types in one jocation Yes', connect your camera to your building's WIPL perwork, and images taken automatedly upload to the Pluke Connect app for saving and sharing Yes', connect your camera to your building's WIPL perwork, and images taken automatedly upload to the Pluke Connect system for viewing on your sample of the property	<10 lbs annual gas loss rate	
Provide standard lons (spatial resolution) 1.31 mRad, D.S. 753-1	10 to 50 lbs annual gas loss rate	
Field of view ## X17 ** ## Minimum focus distance ## Fusion* technology ## Wire connect fusion compatible ## Fusion* technology ## Auto Focus ## Auto Focus ## Auto Focus ## Autored manual focus ## Ves., focused near and far, throughout the field of view ## Autored manual focus ## Ves., focused near and far, throughout the field of view ## Autored manual focus ## Ves. ## Ves., focused near and far, throughout the field of view ## Autored manual focus ## Ves. ## Ves., focused near and far, throughout the field of view ## Ves., focused near and far, throughout the field of view ## Ves., focused near and far, throughout the field of view ## Ves., focused near and far, throughout the field of view ## Ves., focused near and far, throughout the field of view ## Ves., focused near and far, throughout the field of view ## Ves., calculates distance to the larget for procisely focused images and ## distance on the larget for procisely focused images and ## Ves., connect your camera to your smartphone, and images taken automated. ## Ves., connect your camera to your smartphone, and images taken automated. ## Ves., connect your camera to your smartphone, and images taken automated. ## Ves., connect your camera to your smartphone, and images taken automated. ## Ves., connect your camera to your smartphone or PC. ## Ves., connect your camera to your smartphone, and images taken automated. ## Ves., connect your camera to your smartphone or PC. ## Ves., connect your camera to your smartphone or PC. ## Ves., connect your camera to your smartphone or PC. ## Ves., connect your camera to your smartphone or PC. ## Ves., connect your camera to your smartphone or PC. ## Ves., connect your camera to your smartphone or PC. ## Ves., connect your camera to your smartphone or PC. ## Ves., connect your camera to your smartphone or PC. ## Ves., connect your camera to your smartphone or PC. ## Ves., do not smartphone or PC. ## Ves., connect your camera to your smartphone or PC. ## Ves., was an automa	>50 lbs annual gas loss rate	Easy detection in moderate conditions
Minimum focus distance IR Fusion' technology MultiSharp' Focus Laser distance meter Advanced manual focus Yes, coused near and far, throughout the field of view Ves, in-focus images with the touch of a button Yes, calculates distance to the target for precisely focused images and displays distance on screen Advanced manual focus Yes, to PC, I'Phone' and IPdd' (IOS 4s and later), Android'* 4.3 and up, an Wireless connectivity Fluke Connect app compatible Fluke Connect app compatible Fluke Connect app compatible Fluke Connect Assets optional software Fluke Connect tool compatible Fluke Connect lool compatible Fluke Connect fool compatible Fluke Connect tool comp	IFOV with standard lens (spatial resolution)	1.31 mRad, D:S 753:1
IR Fusion* technology Whitishap* Pocus Laser distance meter Advanced manual focus Wireless connectivity Fluke Connect app compatible Fluke Connect assets optional software Fluke Connect natural Upload Fluke Connect Instant Upload Fluke Connect loot compatible Fluke Connect ool compatible Fluke Connect ool compatible Fluke Connect ool compatible Fluke Connect Instant Upload Fluke Connect Instant Upload Instant Upload Instant Upload Instant Upload Instant Instant Upload Instant Ins	Field of view	24 °H x 17 °V
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* (60,54 s and alter), Android™ 4.3 and up, an WiF1 to LAN (where available) Fluke Connect app compatible Fluke Connect Assets optional software Fluke Connect Instant Upload Fluke Connect Ins	Minimum focus distance	15 cm (approx. 6 in)
Laser distance meter Advanced manual focus Yes, calculates distance to the target for precisely focused images and displays distance on server and process of the staget for precisely focused images and displays distance on server with the fouch of a button Yes, calculates distance to the target for precisely focused images and displays distance on screen with the found of a button Yes, connect and iPad* (60 & sand later), Android** 4.3 and up, an Wirl to LAN (where available) Yes*, connect your camers to your smartphone, and images taken automate cally upload to the Fluke Connect app for avaing and habring. Fluke Connect Assets optional software Fluke Connect Instant Upload Yes*, connect your camers to your buildings Wirl network, and images taken automated by the fluke Connect system for viewing on your same through the fluke Connect system for viewing on your same through the fluxe Connect system for viewing on your same through the fluxe connect system for viewing on your same through the fluxe connect system for viewing on your same through the fluxe connect system for viewing on your same through the fluxe connect of the connect of the fluxe connect of t	**	
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Wire less connectivity Yes. to PC, IPhone* and iPad* (10S 4s and later), Android™ 4.3 and up, an Wir to LAN (where available) Yes*, connect your camera to your smartphone, and images taken automa cally upload to the Place Connect app for saving and sharing Fluke Connect Assets optional software Pluke Connect Instant Upload Fluke Connect tool compatible Yes*, connect your camera to your building Will network, and images to assets and create work orders. Easily compare me surement types in one location Yes*, connect your camera to your building Will network and images taken automatically upload to the Fluke Connect system for viewing on your camera to your building will network and images to asset the context of the visible details to your infrared image Yes, adds the context of the visible details to your infrared image Yes, Min, Mid, Max IR plus full visible on camera; continously variable in software Pull IR Yes Full IR Yes Yes Ruggedized touchscreen display Rugged. ergonomic design for one-handed use Yes Thermal sensitivity (NETD) Yes Level and span Fast auto toggle between manual and auto modes Fast auto-rescale in manual mode Yes Minimum span (in manual mode) Software 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 and an application of the Pluke Connect of Cloud storage of Contract of C	Laser distance meter	
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Fluke Connect app Connect app Connect app for awang and sharing Fluke Connect Assets optional software Ves*, assign images to assets and create work orders. Exally compare mesurement types in one location Yes*, connect your camera to your building's WiPi network, and images taken automatically upload to the Pluke Connect yether or viewing ony to smartphone or PC Yes*, connect swirelessly to select Fluke Connect or abled tools and dis plays measurements on camera soreen Yes, dads the context of the visible details to your infrared image Yes, Min, Mid, Max IR plus full visible on camera; continously variable in software Yes Picture-in-picture (PIP) Yes Rugyedized touchscreen display Rugyed, ergonomic design for one-handed use Thermal sensitivity (NETD) Filter mode (NETD improvement) Level and span Smooth auto and manual scaling Yes Past auto-rescale in manual mode Winimum span (in nanual mode) Wes Laser pointer Extensive memory options Removable 4 GB micro SD memory card, 4 GB internal flash memory, save USB flash drive capability, upload to Fluke Connect Scioud storage One-handed image capture, review, save mechanism Memory review SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Extensive memory options SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Export file formats with SmartView® desktop Software Ves (save up to 5 notes per IR image) Text annotation Yes Yes (save up to 5 notes per IR image)	Wireless connectivity	
Fluke Connect Instant Upload Yes*, connect your camers to your buildings WIF) network, and images taken automatically upload to the Pluke Connect existent for viewing on your camers to your buildings WIF) network, and images taken automatically upload to the Pluke Connect* enabled tools and displays measurements on camera screen Yes*, connect swirelessly to select Fluke Connect* enabled tools and displays measurements on camera screen Yes, adds the context of the visible details to your inferred image Yes, Min, Mid, Max IR plus full visible on camera; continously variable in software Yes Pull IR Yes Pull IR Yes Pull IR Yes Pull Visible light Yes Pull Wisible light Yes Pull Remail sensitivity (NETD) Fitter mode (NETD improvement) Level and span Smooth auto and manual scaling Fast auto-rescale in manual mode Winimum span (in manual mode) Winimum span (in nauto mode) Bullt-in digital camera (visible light) Frame rate Laser pointer 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 SmartView desktop software—full analysis and reporting software with access to the Pluke Connect system Export file formats with SmartView® desktop Software Ves Export file formats with SmartView® desktop Filter annotation Yes Filter annotation Yes Filter annotation Yes SmartView desktop software—full analysis and reporting software with access to the Pluke Connect system Filter annotation Yes Filter and the full scale to all and in server the wind and man	Fluke Connect* app compatible	cally upload to the Fluke Connect app for saving and sharing
taken automatically upload to the Fluke Connect system for viewing on your smartphone or PC Fluke Connect tool compatible Fluke Connect tool compatible Fluke Connect tool compatible Fluke Connect tool compatible Fluke Connect wirelessly to select Fluke Connect* enabled tools and displays measurements on camera screen Yes, adds the context of the visible details to your infrared image Yes, Min, Mid, Max IR plus full visible on camera; continously variable IR Fusion* technology Yes, adds the context of the visible details to your infrared image Yes, Min, Mid, Max IR plus full visible on camera; continously variable In software Full IR Yes Full IR Yes Full Visible light Yes Ruggedized touchscreen display Rugged, ergonomic design for one-handed use Thermal sensitivity (NETD) Fiter mode (NETD improvement) Yes Level and span Fast auto toggle between manual and auto modes Fast auto toggle between manual and auto modes Fast auto toggle between manual mode Yes Minimum span (in manual mode) Fast auto-rescale in manual mode Yes Minimum span (in manual mode) Soft (3.4 °F) Simatphonia and training performance Frame rate 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 fale formats Memory review Software 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 Thumbnail and full screen review Software 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 Thumbnail and full screen review Software Software Extensive memory options Removable 4 GB micro SD memory card, 4 GB internal flash memory, save used and trave capability upload to Fluke Connect® Cloud storage Thumbnail and full screen review Thumbnail and full screen review Full sample. For th	Fluke Connect Assets optional software	
Plays measurements on camera screen Yes, adds the context of the visible details to your infrared image Yes, Min, Mid, Max IR plus full visible on camera; continously variable in software Picture-in-picture (PIP) Yes IR/Visible Alarm Yes Full Visible Ight Ruggedized touchscreen display Smooth auto and manual scaling Yes Fast auto-rescale in manual mode Yes Formar rate Go Hz Laser pointer Yes 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 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 Software 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 fully-radiometric (is2), no analysis software required for non-radiometric (.bmp), jpg and .avi) files Thumbnall and full screen review SmartView desktop software—full analysis and reporting sof	Fluke Connect Instant Upload	taken automatically upload to the Fluke Connect system for viewing on y
Yes, adds the context of the visible details to your infrared image Yes, Min, Mid, Max IR plus full visible on camera; continously variable in software Yes, Min, Mid, Max IR plus full visible on camera; continously variable in software Yes	Fluke Connect tool compatible	
AutoBlend™ mode Picture-in-picture (PIP) Yes IR/Visible Alarm Yes Full IR Full IR Full IR Full Visible light Rugged, ergonomic design for one-handed use Thermal sensitivity (NETD) Fliter mode (NETD improvement) Level and span Fast auto toggle between manual and auto modes Fast auto toggle between manual mode Minimum span (in manual mode) Minimum span (in anual mode) Minimum span (in auto mode) Frame rate Laser pointer Laser pointer Laser pointer Extensive memory options Image capture, review, save mechanism Memory review Software Export file formats with SmartView® desktop software RIP PotoNotes™ Yes (save up to 5 notes per IR image) Yes (save up to 5 notes per IR image) Yes (save up to 5 notes per IR image) Yes (save up to 5 notes per IR image) Yes (save up to 5 notes per IR image)	IR Fusion® technology	
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Full IR 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 Smooth auto and manual scaling Yes Smooth auto and manual scaling Yes 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 Pluke 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 (.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 Vice annotation Yes Yes (save up to 5 notes per IR image) Text annotation Yes	Picture-in-picture (PIP)	Yes
Full Visible light Ruggedized touchscreen display Rugged, ergonomic design for one-handed use Thermal sensitivity (NETD) Yes Smooth auto and manual scaling Fast auto toggle between manual and auto modes Fast auto-rescale in manual mode Minimum span (in manual mode) Wes Minimum span (in auto mode) Substitution digital camera (visible light) Frame rate Laser pointer Leb 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 One-handed image capture, review, save mechanism Memory review SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Export file formats with SmartView® desktop Software Ves (save up to 5 notes per IR image) Text annotation Yes Yes 1. Sinch (landscape) 640 x 480 LCD Yes Smooth auto and manual caling Yes Smooth auto and manual scaling Yes	IR/Visible Alarm	
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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) Minimum span (in auto mode) Built-in digital camera (visible light) Frame rate Camera (Passe and Image Capture) Extensive memory options Image capture, review, save mechanism Memory review Software Export file formats with SmartView® desktop software Ves Ves SmartView desktop software Yes Smooth auto and manual scaling Yes 2.0 °C (3.6 °F) 3.0 °C (5.4 °F) 5 megapixel industrial performance Frame rate 60 Hz Yes LED light (torch) Yes One-handed image capture, review, and ave capability Software required for non-radiometric (.bmp.) pig and .avi) files Memory review SmartView desktop software—full analysis and reporting software with access to the Fluke Connect system Bitmap (.bmp), GIF, JPEG, PNG, TIFF Ves Ves (save up to 5 notes per IR image) Text annotation Yes Text annotation		
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Fast auto-rescale in manual mode Minimum span (in manual mode) Minimum span (in auto mode) Built-in digital camera (visible light) Frame rate Laser pointer 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 USB flash drive capability, upload to Fluke Connect® Cloud storage Memory review Mon-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for non-radiometric (.bmp, .jpg and .avi) files Export file formats with 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 with access to the Fluke Connect system Export file formats with SmartView® desktop software with access to the Fluke Connect system Export file formats with SmartView® desktop software with access to the Fluke Connect system Export file formats with SmartView® desktop software with access to the Fluke Connect system Export file formats with SmartView® desktop software with access to the Fluke Connect system Export file formats with SmartView® desktop software with access to the Fluke Connect system Export file formats with SmartView® desktop software with access to the Fluke Connect system Export file formats with SmartView® desktop software with access to the Fluke Connect system Export file formats with SmartView® desktop software with access to the Fluke Connect system Export file formats with SmartView® desktop software with access to the Fluke Connect system should be accessed t	Level and span	Smooth auto and manual scaling
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Minimum span (in auto mode) Built-in digital camera (visible light) Frame rate Laser pointer Laser pointer Led light (torch) Digital zoom Pata 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 Memory review Mon-radiometric (.bmp) or (.jpeg) or fully-radiometric (.bsz); no analysis software required for non-radiometric (.bmp, .jpg and .avi) files Memory 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 Yes (save up to 5 notes per IR image) Text annotation Yes	Fast auto-rescale in manual mode	Yes
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)
Frame rate Laser pointer Laser pointer Let light (torch) Digital zoom Parame rate 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 Memory review 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 Bitmap (.bmp), GIF, JPEG, PNG, TIFF Voice annotation Yes Text annotation Yes (save up to 5 notes per IR image) Text annotation	Minimum span (in auto mode)	3.0 °C (5.4 °F)
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 Yes (save up to 5 notes per IR image) Text annotation	Built-in digital camera (visible light)	5 megapixel industrial performance
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 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 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 (.bs2); 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 Export file formats with SmartView® desktop software Yes IR PhotoNotes™ Yes (save up to 5 notes per IR image) Text annotation Yes	Laser pointer	Yes
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 Export file formats with SmartView® desktop software Woice annotation Yes Yes (save up to 5 notes per IR image) Text annotation Yes	LED light (torch)	**
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 (.bs2); no analysis software required for non-radiometric (.bmp, .jpg and .avi) files Memory 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 Yes (save up to 5 notes per IR image) Text annotation Yes	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 Trumbinail 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 Wice annotation Yes 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
mage he formats software required for non-radiometric (.bmp, .jpg and .avi) files 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	Software Export file formats with SmartView® desktop	access to the Fluke Connect system
Text annotation Yes (save up to 5 notes per IR image) Yes	software	
Text annotation Yes		





	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 on 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 +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, 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 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, Japa- nese, 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.

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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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