

TECHNICAL DATA

# Ti480, Ti450, Ti400 and Ti300 Infrared Cameras

# The Fluke Professional Series



#### SUPERIOR IMAGE QUALITY

SPATIAL RESOLUTION

Ti480 0.93 mRad

Ti450 and Ti400 1.31 mRad

Ti300 1.75 mRad

**RESOLUTION** 

Ti480 640 x 480

SuperResolution mode: 1280 x 960

Ti450 320 x 240

SuperResolution mode: 640 x 480

**Ti400** 320 x 240

**Ti300** 240 x 180

**FIELD OF VIEW** 

**Ti480** 34 °H x 24 °V

Ti450, Ti400, Ti300 24 °H x 17 °V

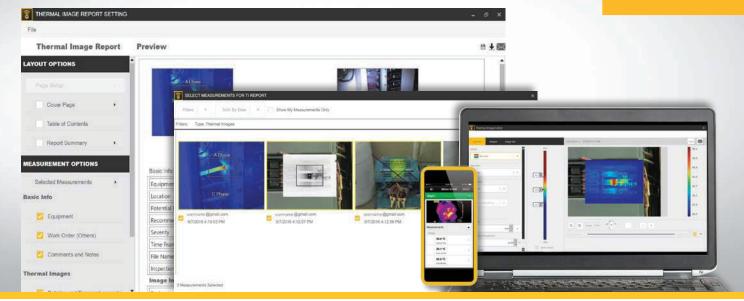


## Fluke Connect® compatible

#### Focus redefined.

- Capture a clear, accurate image focused throughout the field
  of view with MultiSharp™ Focus. Simply point and shoot—the
  camera automatically processes a stack of images focused near
  and far (Ti480 and Ti450)
- Get an instant in-focus image of your designated target.
   LaserSharp\* Auto Focus, exclusive to Fluke, uses a built-in laser distance meter that calculates and displays the distance from your designated target with pinpoint\* accuracy
- Get 4x the pixel data with **SuperResolution**, which captures multiple images and combines them to create a 1280 x 960 image (Ti480) or a 640 x 480 image (Ti450)
- Save time—wirelessly sync images directly from your camera to the **Fluke Connect**\* **system**, and attach to an asset record or work order. Make faster decisions by accessing inspection measurements from anywhere. Team members can instantly see the same data, at the inspection site and the office.
- Reduce the need to take notes in the field with two helpful features:
  - IR-PhotoNotes™ annotation system—captures digital images of the surrounding area to reference conditions or actual location
  - Any additional details can also be saved to the file with voice annotation
- Highlight areas that are outside your pre-set 'normal' temperature ranges quickly with color alarms
- See the details you need with interchangeable smart lenses—2x and 4x telephoto and wide angle—no calibration required
- Included Fluke Connect\* SmartView\* desktop software: Optimize
  thermal images, perform analytics, generate quick, customizable,
  robust reports and export images to the format of your choice in
  the cloud







#### Powerful, new, easy-to-use Fluke Connect® SmartView® desktop software.

Now available, a comprehensive and connected software platform that represents the future of integrated equipment maintenance, monitoring, analysis and reporting. It's easier than ever to optimize thermal images, perform analytics, generate quick, customizable, robust reports, and export images to the format of your choice in the cloud. And you will be able to integrate with Fluke Connect—the largest integrated system of maintenance software and tools in the world.

- Modern visual design
- · Intuitive navigation-easier to learn, easier and faster to work in
- Simplified work flows
- Simplified reporting workflow and better report templates
- · Fluke Connect Cloud storage

Fluke Connect SmartView® desktop software is included with your camera purchase.

Download at fluke.com/FlukeConnectTI

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







MultiSharp Focus, available on the Ti450.



## **Detailed specifications**

	Ti480	Ti450	Ti400	Ti300	
Key features					
Detector resolution	640 x 480 (307,200) or 1280 x 960 with SuperResolution	320 x 240 (76,800 pixels) or 640 x 480 with SuperResolution	320 x 240 (76,800 pixels)	240 x 180 (43,200 pixels)	
SuperResolution	Yes, on camera and in software. Captures and combines 4x the data to create a 1280 x 960 image	Yes, on camera and in software. Captures and combines 4x the data to create a 640 x 480 image	-		
IFOV with standard lens (spatial resolution)	0.93 mRad, D:S 1065:1	1.31 mRad	, D:S 753:1	1.75 mRad, D:S 565:1	
Field of view	34 °H x 24 °V		24 °H x 17 °V		
Minimum focus distance	15 cm (approx. 6 in)				
IR-Fusion* technology	Full screen				
MultiSharp™ Focus	Yes, focused near and far,	throughout the field of view	-		
LaserSharp® Auto Focus	Yes, for consistently in-focus images. Every. Single. Time.				
Laser distance meter	Yes, calculates distance to the target for precisely focused images and displays distance on screen				
Advanced manual focus	Yes				
Wireless connectivity	Yes, to PC, iPhone∗ and iPad® (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN (where available)				
Fluke Connect* app compatible	Yes*, connect your camera to your smartphone, and images taken automatically upload to the Fluke Connect app for saving and sharing				
Fluke Connect* Assets optional software	Yes*, assign images to assets and create work orders. Easily compare measurement types in one location.				
Fluke Connect* Instant Upload	Yes*, connect your camera to your building's WiFi network, and images taken automatically upload to the Fluke Connect system for viewing on your smartphone or PC				
Fluke Connect* tool compatible	Yes*, connects wirelessly to select Fluke Connect enabled tools and displays measurements on camera screen.				
IR-Fusion <sup>®</sup> technology	Yes, adds the context of the visible details to your infrared image				
AutoBlend™ mode	Min, Mid, Max IR plus full visible on camera; continously variable in software				
Picture-In-Picture (PIP)	Yes				
Ruggedized touchscreen display	3.5 inch (landscape) 640 x 480 LCD				
Rugged, ergonomic design for one-handed use	Yes				
Thermal sensitivity (NETD)**	≤ 0.05 °C at 30 °C target temp (50 mK)	≤ 0.03 °C at 30 °C target temp (30 mK)	≤ 0.05 °C at 30 °C t	target temp (50 mK)	
Level and span	Smooth auto and manual scaling				
Fast auto toggle between manual and auto modes	Yes				
Fast auto-rescale in manual mode	Yes				
Minimum span (in manual mode)	2.0 °C (3.6 °F)				
Minimum span (in auto mode)	3.0 °C (5.4 °F)				
Built-in digital camera (visible light)	5MP				
Frame rate	60 Hz or 9 Hz versions				
Laser pointer	Yes				
LED light (torch)	Yes				
Digital zoom	2x a:	nd 4x		-	
Data storage and image capture					
Extensive memory options	Removable 4 GB micro SD men	nory card, 4 GB internal flash mem permane		ility, upload to Fluke Cloud™ for	
Image capture, review, save mechanism	One-handed image capture, review, and save capability				

<sup>\*</sup>Fluke Connect SmartView\* analysis and reporting software is available in all countries but Fluke Connect is not. Please check availability with your authorized Fluke distributor.
\*\* Best possible



## **Detailed specifications**

ReplaceMoters		Ti480	Ti450	Ti400	Ti300		
Flake Connect desktop software—full analysis and reporting software with access to the Flake Connect system Export 16 formats with Plake Connect system Ex	Image file formats	Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for					
Rimap (herps, GT, FEG, PEG, TIF   An observation of the state of the s	Memory review		Thumbnail and f	ull screen review			
offware  ### Annotation  ### A	Software	Fluke Connect deskto	p software—full analysis and repo	orting software with access to the	Fluke Connect system		
The ThotoNokeer' The Th		Bitmap (.bmp), GIF, JPEG, PNG, TIFF					
Tree annotation  After an anotation  After an	Joice annotation	60 seconds maximum recording time per image; reviewable playback on camera, optional bluetooth headset available but not required					
Also necording  The formats wido   Non-randometric IMPEG - encoded API) and fully-radiometric (183)  Venue see the live stream of the camera display on your PC, searth, hence, or TV monitor. Vis USS, WITH hotspot, or WITH necessary of the camera display on your PC, searth, hence, or TV monitor. Vis USS, WITH hotspot, or WITH necessary of the camera display on your PC, searth, hence, or TV monitor. Vis USS, WITH hotspot, or WITH necessary of the camera display on your PC, searth, hence, or TV monitor. Vis USS, WITH hotspot, or WITH necessary of the comment metals of the PT search of the PT searc	R-PhotoNotes™		Yes (5 i	mages)			
Non-neticements Wife©	ext annotation		Ye	es			
Ves., see the live stream of the camera display on your PC, martybone, or YW bell of Palse Connect observed on a PC, via WPD hought to the Palse Connect observed on a PC, via WPD hought to the Palse Connect observed on a PC, via WPD hought to the Palse Connect observed on a PC, via WPD hought to how the American PC, via WPD hought to palse with five-segment LED display to show charge level attempt the palse of the pal	lideo recording	Standard and radiometric					
Filate Connect software on a PC, via Wirk Induspot to the Fluke Connect* app on a smartphone or via HDMI to a TW  Ves. through Fluke Connect SmartView* desixtop software or Fluke Connect mobile app  —  Wes. through Fluke Connect SmartView* desixtop software or Fluke Connect mobile app  —  Wes. through Fluke Connect SmartView* desixtop software or Fluke Connect mobile app  —  Wes. through Fluke Connect SmartView* desixtop software or Fluke Connect mobile app  —  Wes. Through Fluke Connect SmartView* desixtop software or Fluke Connect mobile app  —  Wes. Through Fluke Connect SmartView* desixtop software or Fluke Connect mobile app  —  Wes. Through Fluke Connect SmartView* desixtop software or Fluke Connect mobile app  —  Wes. Through Fluke Connect SmartView* desixtop software or Fluke Connect mobile app  —  Wes. Through Fluke Connect SmartView* desixtop software or Fluke Connect mobile app  —  ### A Contract of the Connect Smart View* desixtop software or Fluke Connect mobile app  —  ### A Contract View and the Smart View* desixtop software or Fluke Connect mobile app  ### A Contract View and the Smart View* desixtop software or Fluke Connect mobile app  —  ### A Contract View and the Smart View* desixtop software of Fluke Connect Mobile and table	le formats video	Non-radiometric (MPEG - encoded .AVI) and fully-radiometric (.IS3)					
With capture [temperature and interval]   West	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 Fluke Connect® app on a smartphone; or via HDMI to a TV monitor					
Sattery that place able, rechargeable, sechargeable, stering and usage)  2-3 hours per battery (Mettaul life varies depending on a writings and usage)  3-4 hours per battery (Actual life varies depending on a writing and usage)  3-5 hours to full charge  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)  User selectable sleep and power for dodes  Temperature measurement  Temperature measurement (Annual Company)  Temperature measurement (Annual Company)  The screen emissivity correction  Temperature measurement  Temperature  Temperature measurement  Temperature measurement  Temperature  Temperature measurement  Temperature measurement	Remote control operation	Yes, through Fluke Connec	ct SmartView® desktop software or	Fluke Connect mobile app	-		
Sateries (Bild-replaceable, rechargeable)  Satery (He S	Auto capture (temperature and interval)		Ye	es			
Settery life  (Partual life varies depending on settings and usage)  (Partual life varies depending on settings and usage lessed to life varies depending on settings and usage lessed as less on settings and usage less on settings and usage less on	Battery						
'Pactual life varies depending on settings and usage)	Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery packs with five-segment LED display to show charge level					
Rattery charging system  AC operation  AC operation  AC operation included power supply (100 V AC to 240 V AC 50/60 Hz)  User selectable sleep and power of modes  **Comparative measurement range  Comparative referred blockground temperature  Comparative measurement range  Comparative referred blockground temperature  Colors palaties  Colors pa	Sattery life	(*Actual life varies depending					
AC operation with included power supply [100 V AC to 240 V AC, 50/60 Hz]  tower saving  User selectable sleep and power off modes  (Coperature measurement range including the beautiful to the sleep and power off modes  (Coperature measurement range including the beautiful to the sleep and power off modes  (Coperature measurement range including the beautiful to the sleep and power off modes  (Coperature measurement range including the sleep and power off modes  (Coperature measurement range including the sleep and power off modes  (Coperature measurement range including the sleep and power off modes  (Coperature measurement range including the sleep and power off modes  (Coperature measurement range including the sleep and power off modes  (Coperature measurement range including the sleep and power off modes  (Coperature measurement processes and power processes and power off modes  (Coperature measurement processes and power processes and po	Battery charge time	2.5 hours to full charge					
User saving	lattery charging system	Two-bay ba	attery charger or in-imager chargin	ng. Optional 12 V automotive char	ging adapter		
Comparature measurement trange   S - 20 °C to +800 °C   C - 20 °C to +1200 °C (- 4 °F to +2192 °F)   -20 °C to +800 °C   C - 4 °F to 1472 °F    120 °C (- 4 °F to +1292 °F)   -20 °C to +800 °C   C - 4 °F to 1472 °F    120 °C (- 4 °F to 1472 °F    120 °F    120 °C (- 4 °F to 1472 °F    120 °F	AC operation	AC	operation with included power sup	pply (100 V AC to 240 V AC, 50/60	Hz)		
Semperature measurement range in calibrated below -10 °C)   -4 °F to 1472 °F)   -20 °C to +850 °C +4 °F to 1472 °F)   -20 °C to +850 °C +4 °F to 1472 °F)   -20 °C to +850 °C +4 °F to 1472 °F)   -20 °C to +850 °C +4 °F to 1472 °F)   -20 °C to +850 °C +1200 °C (-4 °F to +2192 °F)   -20 °C to +850 °C +1200 °C (-4 °F to +2192 °F)   -20 °C to +850 °C +1200 °C (-4 °F to +2192 °F)   -20 °C to +850 °C +1200 °C (-4 °F to +2192 °F)   -20 °C to +850 °C +1200 °C (-4 °F to +2192 °F)   -20 °C to +850 °C +1200 °C (-4 °F to +2192 °F)   -20 °C to +850 °C +1200 °C (-4 °F to +2192 °F)   -20 °C to +850 °C +1200 °C (-4 °F to +2192 °F)   -20 °C to +850 °C +1200 °C (-4 °F to +2192 °F)   -20 °C to +850 °C (-4 °F to +2192 °F)   -20 °C to +	Power saving	User selectable sleep and power off modes					
Indicalibrated below -10 °C)	Cemperature measurement						
An-screen emissivity correction An-screen reflected background temperature omepensation An-screen reflected background temperature omepensation An-screen reflected background temperature omepensation An-screen transmission correction An-screen transmission correction An-screen transmission correction An-screen transmission correction  Yes  Ves  Ves  S: Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted B: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra Inverted Ultra  Soloral appectifications  Ves  Ves  Ves  Ves  Ves  Ves  Ves  V			-20 °C to +1200 °C	(-4 °F to +2192 °F)	-20 °C to +650 °C (-4 °F +1202 °F)		
An accreent reflected background temperature ompensation  New time marker  Ves  Ves  Volor palettes  Ritra Contrast** palettes  R	ccuracy	$\pm$ 2 °C or 2 % (at 25 °C nominal, whichever is greater)					
ompensation inve ince transmission correction inve line marker inverted inter Contrast palettes inverted inverted inverted inverted Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Inverted inverted Ultra inverted Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra inverted Ultra inverted Ultra, Hot Metal Ultra, Grayscale Ultra inverted Ultra inverted Ultra, Hot Metal Ultra, Grayscale Ultra inverted Ultra inverted Ultra, Hot Metal Ultra, Grayscale Ultra inverted Ultra inverted Ultra, Hot Metal Ultra, Grayscale Inverted inverted Ultra inverted Ultra, Hot Metal Ultra, Grayscale Ultra inverted Ultra inverted Ultra inverted Ultra inverted Ultra inverted Ultra inverted Ultra, Hot Metal Ultra, Grayscale Inverted inverted Ultra inverted Ultra, Hot Metal Ultra, Grayscale Inverted inverted Ultra inverted Ultra, Hot Metal Ultra, Grayscale Inverted inverted Ultra inverted Ultra inverted Ultra inverted Ultra inverted Ultra inverted Ultra, Hot Metal Ultra, Hot Metal Ultra, Grayscale Ultra inverted Ultra invert	n-screen emissivity correction	Yes (both value and table)					
Size line marker  Solor palettes  Sit Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Unverted (Bitta Contrast*) palettes  Sit Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra Inverted Ultra  Beneral specifications  Color alarms (temperature alarms)  Infrared spectral band  To 5 µm to 14 µm (long wave)  Deperating temperature  Poerating temperature  Poeratin			Ye	es			
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 Inverted Ultra, Hot Metal Ultra, Grayscale Ultra Inverted Ultra Contral specifications    High temperature, low temperature, and isotherms (within range)   Infared 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 (14 °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   Joser-definable spot markers   3 user-definable spot markers   Joser-definable spot markers   3 user-definable spot markers   Series   Expandable-contractible measurement box with Min-MAX-AVG temp display   Safety   EC 61010-1: Overvoltage category II, Pollution Degree 2   Selectromagnetic compatibility   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A   Safety   EC 61010-1: Overvoltage category II, Pollution Degree 2   Selectromagnetic compatibility   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A   Secondard   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A   Secondard   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A   Secondard   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A   Secondard   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A   Secondard   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A   Secondard   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A   Secondard   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A   Secondard   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A   Secondard   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A   Secondard   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A   Secondard   EC 61326-1: Basic EM environment. CISPR 11: Group 1, Class	On-screen transmission correction		Ye	es			
8: Ironbow, Biue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale Inverted 8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra Inverted Ultra  Concrat specifications  Concra	Live line marker	Ye	es				
8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra Inverted Strain Inverted Ultra In	Color palettes						
Color alarms (temperature alarms)  Color alarms (temperature alarms (temperature) alarms (temperatur	Standard palettes			•	•		
Color alarms (temperature alarms) Infrared spectral band T.5 µm to 14 µm (long wave)  Departing temperature -10 °C to +50 °C [14 °F to 122 °F]  Storage temperature -20 °C to +50 °C [-4 °F to 122 °F]  Storage temperature -20 °C to +50 °C [-4 °F to 122 °F]  Center-point temperature measurement Ves  Spot temperature Hot and cold spot markers  User-definable spot markers  Center box Expandable-contractible measurement box with MIN-MAX-AVG temp display  Safety Expandable-contractible measurement box with MIN-MAX-AVG temp display  Exp	Jltra Contrast™ palettes	8: Ironbow Ultra, Blue-Red Ultra			Ultra, Grayscale Ultra, Graysc		
Infrared spectral band  7.5 µm to 14 µm (long wave)  Correcting 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  Yes  Spot temperature  Hot and cold spot markers  User-definable spot markers  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  Australian 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 (If x W x L)  277 cm x 12.2 cm x 16.7 cm (10.9 in x 4.8 in x 6.5 in)  Weight (battery included)  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	General specifications						
Coperating 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  Perturbent temperature measurement  Yes  Spot temperature  Hot and cold spot markers  Spot temperature  Expandable spot markers  Senter box  Expandable-contractible measurement box with MIN-MAX-AVG temp display  Expandable-contract	-		• • •				
Storage temperature  -20 °C to +50 °C (-4 °F to 122 °F) without batteries  Relative humidity  Center-point temperature measurement  Spot temperature  Boot temperature  Spot temperature  Hot and cold spot markers  Spot markers  Spot temperature  Spot temperature  Spot temperature  Spot temperature  Hot and cold spot markers  Spot markers  Spot markers  Spot temperature  Spot temperature  Spot temperature  Hot and cold spot markers  Spot marker  Spot marker  Spot markers  Spot marker  Spot marker  Spot marker  Spot marker  Spot ma	nfrared spectral band	7.5 µm to 14 µm (long wave)					
Relative humidity  Center-point temperature measurement  Spot temperature  Hot and cold spot markers  Juser-definable spot mar			-10 °C to +50 °C (14 °F to 122 °F)				
Center-point temperature measurement Spot temperature User-definable spot markers User							
Spot temperature  User-definable spot markers  User-definable spot markers  Steender box  Expandable-contractible measurement box with MIN-MAX-AVG temp display  Electromagnetic compatibility  Electromagnetic electromy Electromy Electromy Electromy Electromy Electromy Electromy E	•						
Ser-definable spot markers  Center box  Expandable-contractible measurement box with MIN-MAX-AVG temp display  Betty  Bet							
Expandable-contractible measurement box with MIN-MAX-AVG temp display  Befety  BEC 61010-1: Overvoltage category II, Pollution Degree 2  BEC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A  BEC 61326-1  BS FCC  CFR 47, Part 15 Subpart B  Fibration  O.03 g2/Hz (3.8 g), 2.5 g IEC 68-2-6  From Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Fize (H x W x L)  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Fize (H x W x L)  Fi		-					
IEC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A  Australian RCM  IEC 61326-1  JS FCC  CFR 47, Part 15 Subpart B  Vibration  O.03 g2/Hz (3.8 g), 2.5 g IEC 68-2-6  Shock  Top  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Size (H x W x L)  Weight (battery included)  Enclosure rating  IEC 60529: IP54 (protected against dust, limited ingress; protection against water spray from all directions)  Warranty  Recommended calibration cycle  IEC 60529: August 10.00 and normal aging)		·					
Electromagnetic compatibility  Australian RCM  EEC 61326-1  IEC 61326-							
Australian RCM  JEC 61326-1  JEFCC  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  Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Size (H x W x L)  Reight (battery included)  CICCOSURE rating  IEC 60529: IP54 (protected against dust, limited ingress; protection against water spray from all directions)  Warranty  Recommended calibration cycle  Two-years (assumes normal operation and normal aging)							
SFCC CFR 47, Part 15 Subpart B  Jordan Divide CFR 47, Part 15 Subpart B  Jorda							
Abritation 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 (H x W x L) 27.7 cm x 12.2 cm x 16.7 cm (10.9 in x 4.8 in x 6.5 in)  Weight (battery 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)							
Shock 25 g, IEC 68-2-29  Drop Engineered to withstand 2 meter (6.5 feet) drop with standard lens  Size (H x W x L) 27.7 cm x 12.2 cm x 16.7 cm (10.9 in x 4.8 in x 6.5 in)  Weight (battery 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)							
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Size (H x W x L)  27.7 cm x 12.2 cm x 16.7 cm (10.9 in x 4.8 in x 6.5 in)  Weight (battery included)  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  Two-years (assumes normal operation and normal aging)		<b>U</b>					
Weight (battery 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  Two-years (assumes normal operation and normal aging)	•						
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  Two-years (assumes normal operation and normal aging)							
Warranty Two-years (standard), extended warranties are available Recommended calibration cycle Two-years (assumes normal operation and normal aging)	* ' '						
Recommended calibration cycle Two-years (assumes normal operation and normal aging)	· ·						
	•						
Supported languages L. Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Si		a 1 p	•				
Chinese, Spanish, Swedish, Traditional Chinese, and Turkish	Supported languages	Chinese, Spanish, Swedish, Traditional Chinese, and Turkish					

#### **Ordering information**

FLK-Ti480 60 Hz Infrared Camera FLK-Ti480 9 Hz Infrared Camera FLK-Ti450 60 Hz Infrared Camera FLK-Ti450 9 Hz Infrared Camera FLK-Ti400 60 Hz Infrared Camera FLK-Ti400 9 Hz Infrared Camera FLK-Ti300 60 Hz Infrared Camera FLK-Ti300 9 Hz Infrared Camera

#### Included

Infrared camera with standard infrared lens; 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; rugged, hard carrying case; soft transport bag and adjustable hand strap. **Available by free download:** Fluke Connect\* SmartView\* desktop software and user manual.

#### **Optional accessories**

FLK-LENS/TELE2 Infrared Telephoto Lens (2X magnification), Ti480, Ti450, Ti400, Ti300
FLK-LENS/4XTELE2 Infrared Telephoto Lens (4X magnification), Ti450, Ti400, Ti300
FLK-LENS/WIDE2 Infrared Wide Angle Lens, Ti480, Ti450, Ti400, Ti300

TI-CAR-CHARGER Car Charger FLK-TI-VISOR3 Sun Visor

**BOOK-ITP** Introduction to Thermography Principles Book **TI-TRIPOD3** Tripod Mounting Accessory

FLK-TI-BLUETOOTH Bluetooth headset

FLK-TI-SBP3 Additional Smart Battery

FLK-TI-SBC3B Additional Smart Battery Charger

#### Kits

FLK-TI400 60HZ/FCA\* Infrared Camera, 3000 FC DMM, a3001FC iFlex Module

FLK-TI300 60HZ/FCA\* Infrared Camera, 3000 FC DMM, a3001FC iFlex Module

**FLK-TI400 60HZ/FCC\*** Infrared Camera, 3-a3001FC iFlex Modules, 805 Vibration Tester

FLK-T1400 9HZ/FCA Infrared Camera, 3000 FC DMM, a3001FC iFlex Module

FLK-TI300 9HZ/FCA Infrared Camera, 3000 FC DMM, a3001FC iFlex Module

**FLK-T1400 9HZ/FCC** Infrared Camera, 3-a3001FC iFlex Modules, 805 Vibration Tester

Visit www.fluke.com to get complete details on these products or ask your local Fluke sales representative.

#### \*Only available in certain countries.

RF connection time (binding time) may take up to 1 minute.

#### The Expert Series

Go expert with the Fluke TIX580, TiX560, TiX520 or TiX500, and get up to 640 x 480 resolution along with maximum flexibility of a screen that rotates a full 240 degrees and a 5.7 inch touchscreen LCD. Includes in-field analysis and post-capture image processing on camera, along with other expert-level features and more lens options.





#### Preventive maintenance simplified. Rework eliminated.

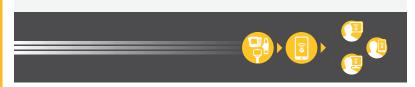
Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect\* system.

- 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.
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer.
- · Access baseline, historical and current measurements by asset.
- Share your measurement data using ShareLive™ video calls and emails.
- The Ti4XX Series and Ti300 is part of a growing system of connected test tools and equipment maintenance software. Visit the website to learn more about the Fluke Connect\* system.

#### 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.

Fluke. Keeping your world up and running.®

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