

TECHNICAL DATA

# TiX1000, TiX660, TiX640 and **TiX620 Infrared Cameras**

### The Fluke Expert Series



#### PREMIUM IMAGE QUALITY

SPATIAL RESOLUTION

TiX1000

0.57 mRad

TiX660 and TiX640

0.85 mRad

TiX620

0.84 mRad

RESOLUTION

TiX1000

1024 x 768 (786,432 pixels)

TiX660, TiX640 and TiX620

640 x 480 (307,200 pixels)

**SUPER RESOLUTION MODE** 

TiX1000

2048 x 1536 (3,145,728 pixels)

TiX660, TiX640 and TiX620 1280 x 960 (1,228,800 pixels)

**FIELD OF VIEW** 

TiX1000

32.4 ° x 24.7° (1.0/30 mm)

TiX660 and TiX640

30.9 ° x 23.1° (1.0/30 mm)

TiX620

32.7° × 24.0° (1.0/20 mm)

**TEMPERATURE RANGE** 

TiX1000 and TiX660

-40 to 2000 °C (-40 to 3632 °F) **TiX640** 

-40 to 1200 °C (-40 to 2192 °F)

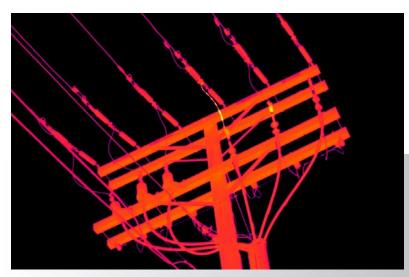
TiX620

-40 to 600 °C (-40 to 1112 °F)

#### **Fluke Infrared Cameras**

Take the guesswork out of your inspection and analysis.

- 10 times the on-camera pixels than standard 320 x 240 cameras (1024 x 768 resolution, 786,432 pixels)
- Work from safer distances—inspect areas that you could not get close to before and still get spectacular, detailed infrared images
- Get a premium in-field viewing experience for quick issue identification with the large 5.6 inch high resolution LCD screen
- Enhanced image quality and temperature measurement **accuracy**-get 4 times the resolution and pixels than standard mode with SuperResolution (up to 3,145,728 pixels)
- Save time focusing with the most advanced focus options available for consistently in focus image: LaserSharp® Auto Focus, auto focus, manual and EverSharp multifocal recording featuresavailable on one camera
- The Fluke Expert Series offers the best flexibility of the entire Fluke infrared camera portfolio to capture spectacular images close up or from a distance with up to eight lens options (2x and 4x telephoto lenses, two wide angle lenses, three macro lenses and one standard lens) so great images can be captured despite certain obstacles



**Electrical utility distribution lines** 

\*HD images are captured by the TiX1000 in SuperResolution mode and viewable in the SmartView® software.



### **Detailed specifications**

### Protects resolution   1024 x 788 f784.32 piaces)   6.03 x 87a May   6		TiX1000	TiX640 TiX620							
Pedictor resolution   Pedictor (1999 representation and Dynamic Superficeation and Superficeation and Dynamic Superficeation and Superficeation and Superficeation Superficeation (Paper 1998 Act Superficeation Superficeatio	Key features									
Polit of View (FOV) wintended 30mm lane   Superfice-Author and Dynamic   Superfice-Author	IFOV with standard lens (spatial resolution)	0.57 mRad	0.84 mRad		0.85 mRad					
Response decided and Dynamic         Option 1. 900 to 10 months on that account on the production of producti	Detector resolution	1024 x 768 (786,432 pixels)	640 x 480	(307,200 pixels)						
Supericacionion (resolution chancement)         Option 1: 840 A 400 (60 fpt) gliden 2: 848 A 208 (100 fpt) gliden 2: 840 A 200 (60 fpt) gliden 2: 840 A 20	Field of View (FOV) w/standard 30mm lens	32.4° x 24.7°	30.9° x 23.1°		32.7° × 24.0°					
### Selection of control of cont		Yes, MicroScan technology quadruples IR measurement pixels								
Auto focus		Option 2: 384 x 288 (120 fps)			384 × 288 (60 fps)					
New Note Seed	LaserSharp® Auto Focus	Y	Yes -							
Advanced manual focus         Yes           EverSharp multifocal recording         value in secreting captures image stafferent focal distances and combines them into one image dusplaying each object sharply for the best image quality           Spectral range         7.5 ymn to 16 ymn           Video recording/rideo streaming         Non-radiometric infrared video recording [to Startly, Visual and infrared video streaming [radiometric and non-radiometric] with optional filterance converter cable in the converter cable in the converter cable of	Laser distance meter									
Seperah any multitlocal recording         Feer Multiflocal recording captures images from different focal distances and combines them into one image displaying each object sharply for for the best image quality           Spectral range         Any factor to 14 june 10 years of the best image quality           Obes or coording/video streaming         Any adiometric infrared video recording its Dardity itsual and infrared video streaming   radiometric and non-alcometric) with optional part of the property of the	Auto focus	Yes								
Spectral range  Spectral range  Non-radiometric infrared video recording to ED card). Visual and infrared video streaming (radiometric and non-radiometric) with optional Enterenc converter cable  Subsequence of Extra-large 5.6 in cord in glos ED card). Visual and infrared video streaming (radiometric and non-radiometric) with optional Enterenc converter cable  Subsequence of Extra-large 5.6 in cord in glos Extra-large 5.6 in glos Ext	Advanced manual focus	Yes								
Non-radiometric infrared video recording (video streaming (radiometric and non-radiometric) with optional Ethernot converter cable  Display SExtra-large 5.6 in color TET display, 1280 × 800 pixel resolution, suitable for daylight operature.  **The Tusions** technology**  **The Tusions** technology**  **The Winding options available Picture.   Pictur	EverSharp multifocal recording									
Display   Extra-large 5.6 in color TFT display, 1280 × 800 pixel resolution, suitable for daylight operations	Spectral range	7.5 µm to 14 µm								
IP-Pursons technology           AutoBlend* mode         Yes           Viewing options available         Picture-in-picture, confirmability (NETD)         \$ 0.05 °C at 30 °C target temp (50 mK)         \$ 0.03 °C at 30 °C target temp (30 mK)         \$ 0.04 °C at 30 °C at 30 °C target temp (40 mK)           Pilter mode         Yes         Yes           Level and span         Smooth auto and manual sacing         Smooth auto and manual sacing           Minimum span (in auto mode)         4.0 °C (7.2 °F)         Wilter and the second of the office of the or 9 fte versions         30 Hz           Built-in digital camera (visible light)         Yes, up to 8 Megapixel resolution for image and video recording         30 Hz           Prame rate         30 Hz or 9 Hz versions         60 Hz or 9 Hz versions         30 Hz           Laser pointer         Yes         15 Hz versions         30 Hz           Laser pointer         Yes         15 Hz versions         30 Hz           Biblication         Yes         15 Hz versions         30 Hz           Geo-localization         Yes         15 Hz versions         30 Hz           View points         15 Hz versions         15 Hz versions </td <td>Video recording/video streaming</td> <td colspan="9"></td>	Video recording/video streaming									
AutoBiland* mode         Yes           Viewing options available         Picture-in-picture, continuous blending, color alarms (above and below user defined tempertures)           Thermal sensitivity [NETD]         \$ 0.05 °C at 30 °C target temp [50 mK]         \$ 0.03 °C at 30 °C target temp [30 mK]         \$ 0.04 °C at 30 °C target temp [40 mK]           Filter mode         Yes         Level and span         Smooth auto and manual scaling           Minimum span (in anual mode)         A 0° °C (7.2 °F)           Minimum span (in auto mode)         A 9° °C (4.5 °F)           Minimum span (in auto mode)         A 9° °C (4.2 °F)           Built-in digital camera (visble light)         A 90° Hz versions         60° Hz versions         30° Hz           Laser pointer         Yes, class 2         Leser pointer         Yes, class 2           Laser pointer         Yes, class 2         Digital zoon         Yes, class 2         Yes           Extensive memory options         Extensive memory options         Removable micro SD memory card           Image capture, review, save mechanism         Per capture image capture, review, save mechanism         Yes, conduct on-camera analysis for in-field results           Ad	Display	Extra-large 5.6 in color TFT display, 1280 × 800 pixel resolution, suitable for daylight operation								
Viewing options available         Picture-in-picture, continuous blending, color alarms (above and below user defined tempertures)           Thermal sensitivity (NETD)         \$ 0.05 °C at 30 °C target temp (50 mK)         \$ 0.03 °C at 30 °C target temp (30 mK)         \$ 0.04 °C at 50 °C target temp (30 mK)         \$ 0.04 °C at 50 °C target temp (30 mK)         \$ 0.04 °C at 50 °C at	IR-Fusion® technology									
Filter mode  Level and span  Minimum span (in manual mode)  Mi	AutoBlend™ mode	Yes								
Filter mode	Viewing options available	Picture-in-picture, cont	inuous blending, color alarms (above and belo	w user defined tempera	atures)					
Level and span       Smooth auto and manual scaling         Minimum span (in manual mode)       2.5 °C (4.5 °F)         Minimum span (in auto mode)       4.0 °C (7.2 °F)         Built-in digital camera (visible light)       Yes, up to 8 Megapixel resolution for image and video recording         Frame rate       30 Hz or 9 Hz versions       60 Hz or 9 Hz versions       30 Hz         Laser pointer       Yes, class 2         Label Dight (torch)       Yes         Digital zoom       Up to 32x         Geo-localization       Yes         Bata storage and image capture         Extensive memory options       Removable micro SD memory card         Extensive memory options       Removable micro SD memory card         Image capture, review, save mechanism       One-handed image capture, review, and save capability         Post-capture image editing (on camera)       Yes. Conduct on-camera analysis for in-field results         Advanced text annotation       Yes. Included         File formats       Lip, jpg., uwa, .avi         Memory review       SmartView software, included </td <td>Thermal sensitivity [NETD]</td> <td>≤ 0.05 °C at 30 °C target temp (50 mK)</td> <td>(30 mK)</td> <td></td>	Thermal sensitivity [NETD]	≤ 0.05 °C at 30 °C target temp (50 mK)	(30 mK)							
Minimum span (in manual mode)         2.5 °C (4.5 °F)           Minimum span (in auto mode)         4.0 °C (7.2 °F)           Built-in digital camera (visble light)         Yes, up to 8 Megapixel resolution for image and video recording           Frame rate         30 Hz or 9 Hz versions         60 Hz or 9 Hz versions         30 Hz           Laser pointer         Yes, class 2         LED light (torch)         Yes           Digital zoom         Up to 32x         Versions           Reco-localization         Yes           Palas storage and Image capture           Extensive memory options         Removable micro SD memory card           Image capture, review, save mechanism         One-handed image capture, review, and save capability           Post-capture image editing (on camera)         Yes. Conduct on-camera analysis for in-field results           Advanced text annotation         Yes. Including standard shortcuts as well as user programmable options           File formats         Jib., jpg., wav., avi           Memory review         Smart/Views software, included           Export file formats with Smart/Views         Smart/Views software, included           Export file formats with Smart/Views         BMP, DIB, GiF, JPE, JPE, JPE, JPG, PNG, TIF and TIFF           Voice annotation         Yes	Filter mode		Yes							
Minimum span (in auto mode) 4.0 °C (7.2 °F)   Bullt-in digital camera (visble light) Yes, up to 8 Megapixel resolution for image and video recording   Prame rate 30 Hz or 9 Hz versions 60 Hz or 9 Hz versions 30 Hz   Laser pointer Yes, class 2   LED light (torch) Yes   Digital zoom Up to 32x   Geo-localization Yes    Extensive memory options  Facenovable micro SD memory card  Image capture, review, save mechanism  One-handed image capture, review, and save capability  Post-capture image editing (on camera) Yes. Conduct on-camera analysis for in-field results   Advanced text annotation Yes. Including standard shortcuts as well as user programmable options   File formats .irb, jpg., wav., avi   Memory review Thumbnall view navigation and review selection   Software SmartViews software, included   Export file formats with SmartViews BMP, DIB, GIF, JFEI, JFEG, JFG, PNG, TIF and TIFF   Voice annotation Yes   Notice annotation Yes		Smooth auto and manual scaling								
Built-in digital camera (visble light)  Frame rate  30 Hz or 9 Hz versions  60 Hz or 9 Hz versions  30 Hz  1 Yes, class 2  LED light (torch)  Yes  Digital zoom  Up to 32x  Geo-localization  Yes  Teams and image capture  Extensive memory options  Removable micro SD memory card  Image capture, review, save mechanism  Post-capture image editing (on camera)  Advanced text annotation  Yes. Including standard shortcuts as well as user programmable options  File formats  Export file formats with SmartViews Software  Export file formats with SmartViews Software  Addio  In-PhotoNotes**  Pes										
Frame rate 30 Hz or 9 Hz versions 60 Hz or 9 Hz versions 30 Hz  Laser pointer Yes, class 2  LED light (torch) Yes  Digital zoom Up to 32x  Geo-localization Yes  Tala storage and image capture  Extensive memory options Removable micro SD memory card  Image capture, review, save mechanism One-handed image capture, review, and save capability  Post-capture image editing (on camera) Yes. Conduct on-camera analysis for in-field results  Advanced text annotation Yes. Including standard shortcuts as well as user programmable options  File formats Ironats SmartViews SmartViews software SmartViews software, included  Export file formats with SmartViews SmartViews SmartViews software, included  Export file formats with SmartViews SmartVi										
Laser pointer  Laser pointer  Liser										
LED light (torch)       Yes         Digital zoom       Up to 32x         Geo-localization         Yes         Data storage and image capture         Extensive memory options         Removable micro SD memory card         Image capture, review, save mechanism       One-handed image capture, review, and save capability         Post-capture image editing (on camera)       Yes. Conduct on-camera analysis for in-field results         Advanced text annotation       Yes. Including standard shortcuts as well as user programmable options         File formats       .irb, jpg., wav, .avi         Memory review       Thumbnail view navigation and review selection         Software       SmartViews software, included         Export file formats with SmartViews       BMP, DIB, GIF, JPE, JPIF, JPEG, JPG, PNG, TIF and TIFF         Voice annotation       Yes         Audio       Integrated microphone and loudspeaker for voice annotations         IR-PhotoNotes™       Yes       —		30 Hz or 9 Hz versions			30 Hz					
Digital zoom       Up to 32x         Geo-localization       Yes         Data storage and image capture         Extensive memory options         Image capture, review, save mechanism       General Memory options         Image capture, review, save mechanism       One-handed image capture, review, and save capability         Post-capture image editing (on camera)       Yes. Conduct on-camera analysis for in-field results         Advanced text annotation       Yes. Including standard shortcuts as well as user programmable options         File formats       Including standard shortcuts as well as user programmable options         File formats       Including standard shortcuts as well as user programmable options         File formats       Simple formats with SmartViews software, included         Software       SmartViews software, included         Export file formats with SmartViews       BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF and TIFF         Voice annotation       Yes         Audio       Integrated microphone and loudspeaker for voice annotations         IR-PhotoNotes™       Yes       —		Yes, class 2								
Geo-localization       Yes         Data storage and image capture         Extensive memory options       Removable micro SD memory card         Image capture, review, save mechanism       One-handed image capture, review, and save capability         Post-capture image editing (on camera)       Yes. Conduct on-camera analysis for in-field results         Advanced text annotation       Yes. Including standard shortcuts as well as user programmable options         File formats       Lirb, jpg, .wav, .avi         Memory review       Thumbnail view navigation and review selection         Software       SmartView* software, included         Export file formats with SmartView* software       BMP, DIB, GIF, JPE, JPEG, JPG, PNG, TIF and TIFF         Voice annotation       Yes         Audio       Integrated microphone and loudspeaker for voice annotations         IR-PhotoNotes™       Yes       -										
Data storage and image capture         Extensive memory options       Removable micro SD memory card         Image capture, review, save mechanism       One-handed image capture, review, and save capability         Post-capture image editing (on camera)       Yes. Conduct on-camera analysis for in-field results         Advanced text annotation       Yes. Including standard shortcuts as well as user programmable options         File formats       .irb, jpg, .wav, .avi         Memory review       Thumbnail view navigation and review selection         Software       SmartViews software, included         Export file formats with SmartViews software       BMP, DIB, GIF, JPE, JPIF, JPEG, JPG, PNG, TIF and TIFF         Voice annotation       Yes         Audio       Integrated microphone and loudspeaker for voice annotations         IR-PhotoNotes™       Yes		-								
Extensive memory options  Removable micro SD memory card  Image capture, review, save mechanism  One-handed image capture, review, and save capability  Post-capture image editing (on camera)  Advanced text annotation  Yes. Including standard shortcuts as well as user programmable options  File formats  Lirb, jpg, wav, .avi  Memory review  Thumbnail view navigation and review selection  Software  SmartView* software, included  Export file formats with SmartView* software  Voice annotation  Yes  Audio  Integrated microphone and loudspeaker for voice annotations  IR-PhotoNotes**  Removable micro SD memory card  Removable micro SD memory card  Nemory capture, review, and save capability  Fellow an			Yes							
Image capture, review, save mechanism       One-handed image capture, review, and save capability         Post-capture image editing (on camera)       Yes. Conduct on-camera analysis for in-field results         Advanced text annotation       Yes. Including standard shortcuts as well as user programmable options         File formats       .irb, jpg, .wav, .avi         Memory review       Thumbnail view navigation and review selection         Software       SmartView® software, included         Export file formats with SmartView® software       BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF and TIFF         Voice annotation       Yes         Audio       Integrated microphone and loudspeaker for voice annotations         IR-PhotoNotes™       Yes			Pomovohlo migro CD momovy gord							
Post-capture image editing (on camera)       Yes. Conduct on-camera analysis for in-field results         Advanced text annotation       Yes. Including standard shortcuts as well as user programmable options         File formats       Lirb, jpg, .wav, .avi         Memory review       Thumbnail view navigation and review selection         Software       SmartView® software, included         Export file formats with SmartView® software       BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF and TIFF         Voice annotation       Yes         Audio       Integrated microphone and loudspeaker for voice annotations         IR-PhotoNotes™       Yes       -		·								
Advanced text annotation  File formats  .irb, jpg, .wav, .avi  Memory review  Thumbnail view navigation and review selection  Software  SmartView® software, included  Export file formats with SmartView® software  SmartView® software  File formats with SmartView® software, included  Export file formats with SmartView® software  Integrated microphone and loudspeaker for voice annotations  IR-PhotoNotes™  Yes  -										
File formats  Memory review  Thumbnaîl view navigation and review selection  Software  SmartView* software, included  Export file formats with SmartView* software  BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF and TIFF  Voice annotation  Yes  Audio  Integrated microphone and loudspeaker for voice annotations  IR-PhotoNotes™  Yes  -										
Memory review     Thumbnail view navigation and review selection       Software     SmartView® software, included       Export file formats with SmartView® software     BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF and TIFF       Voice annotation     Yes       Audio     Integrated microphone and loudspeaker for voice annotations       IR-PhotoNotes™     Yes     -										
Software SmartView® software, included  Export file formats with SmartView® software  BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF and TIFF  Voice annotation Yes  Audio Integrated microphone and loudspeaker for voice annotations  IR-PhotoNotes™ Yes −										
Export file formats with SmartView® software  Noice annotation  Yes  Audio  Integrated microphone and loudspeaker for voice annotations  IR-PhotoNotes™  Yes  -		•								
Audio     Integrated microphone and loudspeaker for voice annotations       IR-PhotoNotes™     Yes     -	Export file formats with SmartView®	BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF and TIFF								
IR-PhotoNotes™ Yes -	Voice annotation	Yes								
IR-PhotoNotes™ Yes -	Audio	Integ	rated microphone and loudspeaker for voice a	nnotations						
Text annotation Yes	IR-PhotoNotes™		Yes		-					
	Text annotation	Yes								



### **Detailed specifications**

	TiX1000	TiX1000 TiX660		TiX620					
Video recording/video streaming	Yes								
Image/video storage	SD HC memory card								
Interfaces for image/data transfer	Supported in camera data ports: SD card, GigE vision, RS-232, USB 2.0, DVI-D and composite video Supported in SmartView« software: SD card								
Battery									
Batteries (field replaceable, rechargeable)	Two standard lithion ion video camera batteries with LED charge level  One standard lithion ion video camera battery with charge level indicator								
Battery charging system	External: 12 V dc to 24 V dc								
AC operation	Yes								
Temperature measurement									
Temperature measurement range	-40 °C to +1200 °C (-40 °F to 2192 °F)								
	High temperature option: up to 2000 °C (3632 °F)								
Accuracy	$\pm$ 1.5 K or $\pm$ 1.5 % ( $\pm$ 1 K when target measures 0 °C to 100 °C) $\pm$ 2 K or $\pm$ 2 %								
On screen emissivity correction	Yes								
On-screen reflected background temperature compensation	Yes								
Correction functions	LDC™ - Laser rangefinder based distance correction, emissivity (manual or material table) (manual or material table)								
	Transmissivity I Ambient temperature I Humidity (option)								
Color palettes									
Standard palettes	Rainbow, grayscale, ironbow, b	lue-red, marked, high contrast, steps, bla	ck rd, hot metal, menthol, sepia, gr	ayscale/rainbow					
General specifications									
Color alarms		High-temperature and low-ten							
Operating temperature		-25 °C to +55 °C (13 °F to 1							
Storage temperature	-40 °C to +70 °C (-40 °F to 158 °F)								
Relative humidty	10 % to 95 %, non-condensing								
Center-point temperature measurement	Yes								
Measurement functions (selection)	Multiple measurement spots, Hot/cold spot detection, Isotherms, Profiles, Differences (subtraction)								
Center box	Yes. Adjustable shapes (region of interest) for advanced analysis (min, max and avg)								
Vibration	Operational: 2G, IEC 68-2-6								
Shock	Operational: 25G, IEC 68-2-29								
Size (H x W x L)	210 mm × 125 mm × 155 m		206mm x 125mm x 139mm(8						
Weight	1.95 kg	(4.3 lb)	1.4 kg (3.2 lb)						
Viewfinder	Tiltable LCoS color viewfinder di	splay, 800 × 600 pixel resolution	None						
Ergonomics	Camcorde	r w/handle Camcorder							
Enclosure rating	IP54								
Warranty	Two-years								
Recommended calibration cycle	Two-years (assumes normal operation and normal aging)								
Supported languages	Czech, Dutch, English, Finnish, French, German, Hugarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese and Turkish.								



#### **Compatible lenses**

Available optional ler	ses* with IP54-proof bayon	et mount		1024	x 768		640 x 480			Compa	tibility	
Fluke Model	Lens description	f / Focal Length	Minimum focus dis- tance	FOV	IFOV/ Resolution	FOV	IFOV/ Resolution	IFOV (w/ SuperRes)	TiX1000	TiX660	TiX640	TiX620
FLK-Xlens/SupWide	Super wide-angle lens	1.0 / 7.5 mm	200 mm	136° x 101°	2.3 mRad	125° x 93°	3.4 mRad	1.7 mRad	Х	Х	Х	-
FLK-Xlens/Wide	Wide-angle lens	1.0 / 15 mm	500 mm	68° x 51°	1.2 mRad	62° x 46°	1.7 mRad	0.8 mRad	Х	X	Х	-
FLK-Xlens/Stan	Standard lens	1.0 / 30 mm	750 mm	32 x 25°	0.6 mRad	31° x 23°	0.8 mRad	0.4 mRad	Х	Х	Х	-
FLK-Xlens/Tele	Telephoto lens	1.0 / 60 mm	2,000 mm	16° x 12°	0.3 mRad	15° x 11°	0.4 mRad	0.2 m Rad	X	Х	X	-
FLK-Xlens/SupTele	Super-telephoto lens	1.0 / 120 mm	6,000 mm	8.1° x 6.2°	0.1 mRad	7.5° x 5.7°	0.2 mRad	0.1 mRad	Х	Х	X	-
FLK-Xlens/Macro1	M 0.2x Close-up lens for 30 mm lens	-	137 mm	86° x 63°	81 µm	78° x 58°	119 µm	-	X	Х	X	-
FLK-Xlens/Macro2	M 0.5x Close-up lens for 30 mm lens	-	47 mm	34° x 25°	32 µm	31° x 23°	47 µm	-	X	Х	X	-
FLK-Xlens/Macro3**	M 0.2x Close-up lens for 60 mm lens	-	100 mm	35° x 27°	35 µm	32° x 24°	50 µm	-	X	X	Х	-
FLK-Xlens/Wide10	Wide-angle lens	1.0 / 10 mm	250 mm	-	-	57° x 44°	1.6 mRad	0.8 mRad	-	-	-	X
-	Standard lens	1.0 / 30 mm	500 mm	-	-	33° x 24°	0.9 mRad	0.4 mRad	-	-	-	Х
FLK-Xlens/Tele40	Telephoto lens	1.0 / 40 mm	1,300 mm	-	-	15.5° x 11.6°	0.4 mRad	0.2 mRad	-	-	-	X

<sup>\*</sup>Optional lenses must be calibrated to the individual camera. If lens purchase is post camera purchase, the camera will need to be returned for calibration with the lens.

<sup>\*\*</sup>Macro3 lens must be used with the Telephoto lens (FLK-Xlens-Tele).



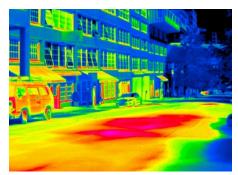


#### **Ordering information**

FLK-TiX1000 30Hz Thermal Imager; 1024 x 768; 30 Hz FLK-TiX1000 9Hz Thermal Imager; 1024 x 768; 9 Hz FLK-TiX660 60Hz Thermal Imager; 640 x 480; 60 Hz FLK-TiX660 9Hz Thermal Imager; 640 x 480; 9 Hz FLK-TiX640 60Hz Thermal Imager; 640 x 480; 60 Hz FLK-TiX640 9Hz Thermal Imager; 640 x 480; 9 Hz FLK-TiX620 30Hz Thermal Imager; 640 x 480; 30 Hz

#### Included with product

These infrared cameras are shipped with a rechargeable battery (2 for TiX1000/TiX660; 1 for TiX640/620), battery charger and adapter, AC adapter, SD card reader, protective lens cap, hand strap, neck strap, carrying case, warranty card, safety instructions, calibration certificate. Software is available via download at www.fluke.com/smartviewdownload



Steam vents under city street

Fluke. Keeping your world up and running.®

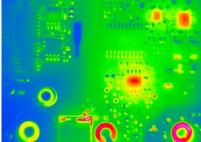
#### Fluke Corporation

PO Box 9090, Everett, WA 98206 U.S.A.

#### Fluke Europe B.V.

PO Box 1186, 5602 BD Eindhoven, The Netherlands

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**Printed circuit board** assembly inspection

#### For more information call:

In the U.S.A. (800) 443-5853 or Fax (425) 446-5116 In Europe/M-East/Africa +31 (0)40 267 5100 or Fax +31 (0)40 267 5222 In Canada (800)-36-FLUKE or Fax (905) 890-6866 From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116 Web access: http://www.fluke.com

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## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### Fluke:

FLK-Xlens/Macro1 FLK-Xlens/Macro3 FLK-XLens/SupTele FLK-XLens/SupWide FLK-XLens/Wide FLK-TiX1000

30Hz FLK-TiX1000 9 Hz FLK-TiX660 60Hz FLK-TiX640 9Hz FLK-TiX660 9Hz FLK-TiX640 60Hz FLK-Xlens/Macro2

FLK-XLens/Tele FLK-XLens/Stan FLK-XHDMI Cable FLK-XEthernet 5m FLK-XSubwindow FLK-XLens Cal FLK-XCharger FLK-XBattery FLK-XPower Plug FLK-XCalibration