

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)

118640

-40 to 1200 °C (-40 to 2192 °F)

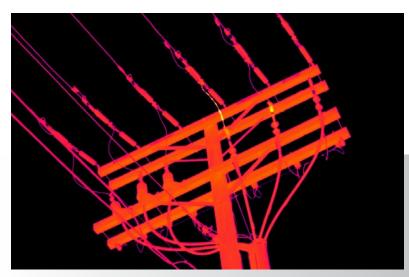
TiX620

-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 features—available 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 ${\bf software}$.



Detailed specifications

### Control C		TiX1000	TiX640 TiX620							
Part	Key features									
Public of View (FOV) volvianceard 30mm lens	IFOV with standard lens (spatial resolution)	0.57 mRad	0.84 mRad		0.85 mRad					
Specifications and Dynamic Specimen S	Detector resolution	1024 x 768 (786,432 pixels)	640 x 480	(307,200 pixels)						
Subcincionum general processor of the pr	Field of View (FOV) w/standard 30mm lens	32.4° x 24.7°	30.9° x 23.1°		32.7° × 24.0°					
Sale		Yes, MicroScan technology quadruples IR measurement pixels								
Auto focus Auto focus Auto focus Auto focus Advanced manual focus Pereinary multifocal recording Ves, Multifocal recording captures images from different focal distances and combines them into one image displaying each object sharply for the best image quality Spectral range Pereinary multifocal recording Non-radiometric infrared video recording (to 5D card). Visual and infrared video streaming (radiometric and non-radiometric) with optional Ethorare converter cable Display Extra-large 5.6 in color TTT display, 1280 × 800 pissel resolution, suitable for daylight operature IN-Partina technology Robert and Produce and Pro		Option 2: 384 x 288 (120 fps)			384 × 288 (60 fps)					
March cours Wavelength: SSS nnt (red), Lazer classe: 2 Acto focus Yes	LaserSharp® Auto Focus	Y	Yes -							
Advanced manual focus Yes	Laser distance meter									
SeeSharp multifocal recording Yes, Multifocal recording captures images from different focal distances and combines them into one image displaying each object sharply for the best image quality	Auto focus	Yes								
Spectral range Spectral range 7.5 m to 14 µm Non-radiometric infrared video recording (to ED card), Visual and infrared video streaming tradiometric and non-radiometric polyment in Ethernate converter cable Extra-large 5.6 in color TFT display, 1280 × 800 pixel resolution, suitable for daylight operations R-Pasions technology AutoBind* mode Yes Viewing options available Picture-in-picture, continuous blending, color alarma (above and below user defined temperatures) Thermal sensitivity (NETD) \$\leq\$ 0.05 \times at 30 \times Carget temp (50 mK) Filter mode \$\leq\$ 2.5 \times (4.5 \times) Whinimum span (in manual mode) Minimum span (in manual mode) Minimum span (in dusto mode) Minimum span (in dusto mode) Wes, user at a second substitution of mange and video recording Frame rate \$\leq\$ 30 Hz or 9 Hz versions \$\leq\$ 0.05 \times 4 Hz versions \$\leq\$ 0.05 \times	Advanced manual focus		Yes							
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IR-PhotoNotes™ Yes -		Integrated microphone and loudspeaker for voice annotations								
					-					
	Text annotation									



Detailed specifications

	TiX1000 TiX660		TiX640	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) -40 to 600 (-40 to 111								
	High temperature option: up to 2000 °C (3632 °F)								
Accuracy	± 1.5 K or ± 1.5 % (±1 K when target measures 0 °C to 100 °C) ± 2 K or ± 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) Emissivity (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	nperature						
Operating temperature	-25 °C to +55 °C (13 °F to 131 °F)								
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	m (8.25 in x 4.9 in x 6.1 in)	206mm x 125mm x 139mm(8.1 in x 4.9 in x 5.5						
Weight	1.95 kg	(4.3 lb)	1.4 kg (3.2 lb)						
Viewfinder	Tiltable LCoS color viewfinder di	Tiltable LCoS color viewfinder display, 800 × 600 pixel resolution							
Ergonomics	Camcorde	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	X	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	Х	-
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	X	Х	Х	-
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	Х	-
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	-	-	-	X
FLK-Xlens/Tele40	Telephoto lens	1.0 / 40 mm	1,300 mm	-	-	15.5° x 11.6°	0.4 mRad	0.2 mRad	-	-	-	X

^{*}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.

^{**}Macro3 lens must be used with the Telephoto lens (FLK-Xlens-Tele).



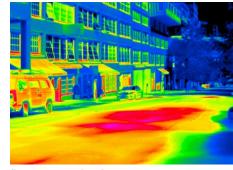


Ordering information

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



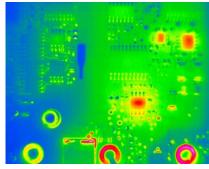
Steam vents under city street

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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:

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