

TiX560 and TiX520 Infrared Cameras

The Fluke Expert Series

Technical Data



PREMIUM IMAGE QUALITY

SPATIAL RESOLUTION

TiX560 and TiX520 *1.31 mRad*

RESOLUTION

TiX560 and TiX520

320 x 240 (76,800 pixels) and 640x480 (307,200 pixels) with SuperResolution Mode

FILTER MODE (NETD IMPROVEMENT)

TiX560

≤ 0.03 °C at 30 °C target temp (30 mK)

TiX520

≤ 0.04 °C at 30 °C target temp (40 mK

TEMPERATURE RANGE

TiX560

-20 °C to +1200 °C (-4 °F to +2192 °F)

TiX520

-20 °C to +850 °C (-4 °F to +1562 °F)

IMAGE SHARPENING

TiX560

Image sharpening improves image clarity and quality



Your view of infrared technology is about to change 180°

- Easily navigate over, under and around objects with the 180° articulating lens and see the image before you capture it
- Premium in-field viewing experience with the only
 5.7 inch responsive touchscreen LCD in its class¹—
 150 % more viewing area³
- Enhanced image quality and temperature measurement accuracy – turn your 320 x 240 images into 640 x 480 images, that's 4x's the resolution and pixels with SuperResolution
- Get an in-focus image with the touch of a button.
 LaserSharp. Auto Focus, exclusive to Fluke, uses a built-in laser distance meter that calculates and displays the distance to your designated target with pinpoint accuracy2
- See, save and share from the field and connect to the largest selection of wireless test and measurement tools with Fluke Connect™

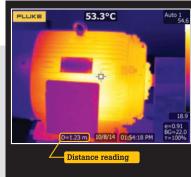
¹Compared to industrial handheld infrared cameras with 320x240 detector resolution as of October 14, 2014

²Up to 30 meters (100 feet).

³Compared to a 3.5 inch screen.



Get tough shots from any angle with a 180° degree rotating lens and the only 5.7 inch LCD.



LaserSharp® Auto Focus uses a built in laser distance meter that calculates and displays the distance to your designated target with pinpoint accuracy.



Detailed specifications

	TiX560	TiX520
Key Features		
IFOV with standard lens (spatial resolution)	1.31 1	nRad
Detector resolution	320 x 240 (76,800 pixels)	
Field of view	24 °H x 17 °V	
Minimum focus distance	15 cm (approx. 6 in)	
IFOV with optional telephoto lens	0.65 mRad	
Field of view	12 °H x 9 °V	
Minimum focus distance	45 cm (approx. 18 in)	
IFOV with optional wide-angle lens	2.62 mRad	
Field of view	46 °H x 34 °V	
Minimum focus distance	15 cm (approx. 6 in)	
SuperResolution*	On camera and in software	In software
Image sharpening	Yes	No
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	
Streaming video (remote display)	Via USB or WiFi	
Touchscreen display (capacitive)	14.4 cm (5.7 in) diagonal landscape color VGA (640 x 480) LCD with backlight	
Wireless connectivity	Yes	
Wireless compatibility	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 (where available)	
Fluke Connect™ tool compatible	Yes (where available). Connects wireless to select Fluke Connect™ enabled tools. Five simultaneous connections supported	
IR-Fusion® technology	Yes	
AutoBlend™ mode	Yes	
Picture-In-Picture (PIP)	Yes	
Continuous AutoBlend™	Set AutoBlend™ level across continuum	No
Rugged, ergonomic design	Rotatable (articulatin	g lens) >180 degrees
Thermal sensitivity (NETD)	≤ 0.045 °C at 30 °C target temp (45 mK)	≤ 0.05 °C at 30 °C target temp (50 mK)
Filter Mode (NETD improvement)	≤ 0.03 °C at 30 °C target temp (30 mK)	≤ 0.04 °C at 30 °C target temp (40 mK)
Level and span	Smooth auto and	manual scaling
Touchscreen adjustable level / span	Yes. Span and level can be easy and qu	ickly set by simply touching the screen
Fast auto toggle between manual and auto modes	Ye	es s
Fast auto-rescale in manual mode	Ye	es
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)	5 megapixel indus	trial performance
Frame rate	60 Hz or 9 Hz versions	
Laser pointer	Yes	
LED light (torch)	Yes	
Digital Zoom	2x, 4x, 8x	2x, 4x
Data storage and image capture		
Extensive memory options	Removable micro SD memory card, on-board flash memory, save	e-to-USB capability, direct download via USB-to-PC connection
Image capture, review, save mechanism	One-handed image capture,	
Post-capture Image Editing (on camera)	Yes. Conduct on camera a	
Advanced text Annotation	Yes. Including standard shortcuts as	
File formats	Non-radiometric (.bmp) or (.jpeg) or fully radiometric (.is2); no analysis software required for non-radiometric (.bmp, .jpg and .avi) files	
Memory review	Thumbnail view navigation and review selection	
Software	SmartView® software, Fluke Connect™ (where available), and SmartView® Mobile App—full analysis and reporting software	
Export file formats with SmartView®	BMP, DIB, GIF, JPE, JFIF, JPI	
software		

^{*}Coming soon via firmware upgrade.



	TiX560	TiX520
Data storage and image capture cont.		
Voice annotation	60 seconds maximum recording time per image; review	vable playback on camera; Bluetooth headset provided*
R-PhotoNotes™	Yes	
Text annotation	Yes	
Video recording	Standard and radiometric	
File formats video	Non-radiometric (MPEG - encoded .AVI) and fully radiometric (.IS3)	
Remote control and operation (for special and advanced applications)	Yes	No
Auto capture (temperature and interval)	Ye	es
Battery		
Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery packs with fiv	e-segment LED display to show charge level
Battery life	Three hours continuous use per battery pack	
Battery charge time	2.5 hours to full charge	
Battery charging system	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	
Femperature measurement		
Temperature measurement range (not calibrated	-20 °C to +1200 °C (-4 °F to +2192 °F)	-20 °C to +850 °C (-4 °F to +1562 °F)
pelow -10 °C)	20 0 10 1000 0 (1 1 10 1000 1)	
Accuracy	± 2 °C or 2 % (at 25 °C nominal, whichever is greater)	
On-screen emissivity correction	Yes (both value and table)	
On-screen reflected background temperature compensation	Yes	
On-screen transmission correction	Ye	es
Color palettes		
Standard palettes	8: Ironbow, Blue-Red, High Contrast, Amber, Ambe	: Inverted, Hot Metal, Grayscale, Grayscale Inverted
-	8: Ironbow, Blue-Red, High Contrast, Amber, Amber 8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte	, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Graysca
Standard palettes	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra	, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Graysca
Standard palettes Ultra Contrast™ palettes General specifications	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra	, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Graysca d Ultra
Standard palettes Ultra Contrast™ palettes	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte	, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Graysca d Ultra nd low-temperature
Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms)	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Graysca d Ultra nd low-temperature m (long wave)
Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) Infrared spectral band	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a: 7.5 µm to 14 µ	, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra d Ultra nd low-temperature m (long wave) (14 °F to 122 °F)
Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) Infrared spectral band Operating temperature Storage temperature	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a: 7.5 µm to 14 µ -10 °C to +50 °C	, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra, d Ultra and low-temperature m (long wave) (14 °F to 122 °F) 122 °F) without batteries
Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) Infrared spectral band Operating temperature Storage temperature Relative humidity	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a 7.5 µm to 14 µ -10 °C to +50 °C -20 °C to +50 °C (-4 °F to	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra, dultra Ind low-temperature Ind (long wave) Ind (14 °F to 122 °F) Index of the state
Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) Infrared spectral band Operating temperature Storage temperature Relative humidity Center-point temperature measurement	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a: 7.5 µm to 14 µ -10 °C to +50 °C -20 °C to +50 °C (-4 °F to	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra dultra Ind low-temperature Ind (long wave) Ind (14°F to 122°F) Ind (15°F) without batteries Independent of the provided Hotelstein on Condensing Independent on Condensing Independent of the Provided Hotelstein on Condensing Independent of
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Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) Infrared spectral band Operating temperature Storage temperature Relative humidity Center-point temperature measurement Spot temperature User-definable spot markers Center box	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a. 7.5 µm to 14 µ -10 °C to +50 °C (-4 °F to 10 % to 95 % n Ye Hot and cold 3 user-definable	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, G
Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) infrared spectral band Operating temperature Storage temperature Relative humidity Center-point temperature measurement Spot temperature User-definable spot markers Center box Safety	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a: 7.5 µm to 14 µ -10 °C to +50 °C (-4 °F to 10 % to 95 % n Ye Hot and cold 3 user-definable Expandable-contractible measurer	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, G
Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) Infrared spectral band Operating temperature Storage temperature Relative humidity Center-point temperature measurement Spot temperature User-definable spot markers Center box Safety Electromagnetic compatibility	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a: 7.5 µm to 14 µ -10 °C to +50 °C (-4 °F to 10 % to 95 % n Ye Hot and cold 3 user-definable Expandable-contractible measurer IEC 61010-1: Overvoltage Ca	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, G
Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) infrared spectral band Operating temperature Storage temperature Relative humidity Center-point temperature measurement Spot temperature User-definable spot markers Center box Safety Electromagnetic compatibility	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a: 7.5 µm to 14 µ -10 °C to +50 °C -20 °C to +50 °C (-4 °F to 10 % to 95 % m Ye Hot and cold 3 user-definabl Expandable-contractible measurer IEC 61010-1: Overvoltage Ca IEC 61326-1: Basic CISPR11, Gro	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, G
Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) Infrared spectral band Operating temperature Storage temperature Relative humidity Center-point temperature measurement Spot temperature User-definable spot markers Center box Safety Electromagnetic compatibility Australian RCM US FCC	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a: 7.5 µm to 14 µ -10 °C to +50 °C -20 °C to +50 °C (-4 °F to 10 % to 95 % m Ye Hot and cold 3 user-definabl Expandable-contractible measurer IEC 61010-1: Overvoltage Ca IEC 61326-1: Basic CISPR11, Gro	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, G
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Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) Infrared spectral band Operating temperature Storage temperature Relative humidity Center-point temperature measurement Spot temperature User-definable spot markers Center box Safety Electromagnetic compatibility Australian RCM US FCC Vibration Shock	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a: 7.5 µm to 14 µ -10 °C to +50 °C -20 °C to +50 °C (-4 °F to 10 % to 95 % n Ye Hot and cold 3 user-definabl Expandable-contractible measurer IEC 61010-1: Overvoltage Ca IEC 61326-1: Basi CISPR11, Gro IE 613 CFR 47, Part 0.03 g2/Hz (3.8 gm	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, G
Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) Infrared spectral band Operating temperature Storage temperature Relative humidity Center-point temperature measurement Spot temperature User-definable spot markers Center box Safety Electromagnetic compatibility Australian RCM US FCC Vibration Shock Drop	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a: 7.5 µm to 14 µ -10 °C to +50 °C -20 °C to +50 °C (-4 °F to 10 % to 95 % m Ye Hot and cold 3 user-definabl Expandable-contractible measurer IEC 61010-1: Overvoltage Ca IEC 61326-1: Basic CISPR11, Gro IE 613 CFR 47, Part 0.03 g2/Hz (3.8 grm	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, G
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Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) Infrared spectral band Operating temperature Storage temperature Relative humidity Center-point temperature measurement Spot temperature User-definable spot markers Center box Safety Electromagnetic compatibility Australian RCM US FCC Vibration Shock Drop Size (H x W x L) Weight (battery included)	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a. 7.5 µm to 14 µ -10 °C to +50 °C -20 °C to +50 °C (-4 °F to 10 % to 95 % n Ye Hot and cold 3 user-definable Expandable-contractible measurer IEC 61010-1: Overvoltage Ca IEC 61326-1: Basis CISPR11, Gro IE 613 CFR 47, Part 0.03 g2/Hz (3.8 gm 25 g, IEC Engineered to withstand 1 meter 27.3 cm x 15.9 cm x 9.7 cm 1.54 kg	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra dultra Ind low-temperature Ind low-temperature Ind low-temperature Ind low temperature Ind low tempe
Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) infrared spectral band Operating temperature Storage temperature Relative humidity Center-point temperature measurement Spot temperature User-definable spot markers Center box Safety Electromagnetic compatibility Australian RCM US FCC Vibration Shock Drop Size (H x W x L) Weight (battery included) Enclosure rating	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a. 7.5 µm to 14 µ -10 °C to +50 °C -20 °C to +50 °C (-4 °F to 10 % to 95 % n Ye Hot and cold 3 user-definable Expandable-contractible measurer IEC 61010-1: Overvoltage Ca IEC 61326-1: Basic CISPR11, Gro IE 613 CFR 47, Part 0.03 g2/Hz (3.8 grm 25 g, IEC Engineered to withstand 1 meter 27.3 cm x 15.9 cm x 9.7 cm 1.54 kg IEC 60529: IP54 (protected against dust, limited ingreen)	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra, dultra Ind low-temperature Ind low-temperature Ind low-temperature Ind long wave) Ind "F to 122 °F) Ind "
Standard palettes Ultra Contrast™ palettes General specifications Color alarms (temperature alarms) Infrared spectral band Operating temperature Storage temperature Relative humidity Center-point temperature measurement Spot temperature User-definable spot markers	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra Inverte High-temperature a. 7.5 µm to 14 µ -10 °C to +50 °C -20 °C to +50 °C (-4 °F to 10 % to 95 % n Ye Hot and cold 3 user-definable Expandable-contractible measurer IEC 61010-1: Overvoltage Ca IEC 61326-1: Basis CISPR11, Gro IE 613 CFR 47, Part 0.03 g2/Hz (3.8 gm 25 g, IEC Engineered to withstand 1 meter 27.3 cm x 15.9 cm x 9.7 cm 1.54 kg	Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, G

^{*}Bluetooth not available in all countries.



Ordering information

FLK-TiX560 60Hz Thermal Imager; 320x240; 60 Hz FLK-TiX560 9Hz Thermal Imager; 320x240; 9 Hz FLK-TiX520 60Hz Thermal Imager; 320x240; 60 Hz FLK-TiX520 9Hz Thermal Imager; 320x240; 9 Hz

Included with product

Thermal imager 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; rugged, hard carrying case, adjustable neck and hand strap, bluetooth headset (where available), warranty registration card and calibration certificate. Flash drive includes product manuals in English, Chinese, German, Portuguese, Spanish, French, Italian, Korean, and Japanese, Russian and Turkish and SmartView® software. (Software is also available via download at www.fluke.com/ smartviewdownload).

Optional accessories

FLK-LENS/TELE2 Infrared Telephoto Lens (2X magnification) FLK-LENS/WIDE2 Infrared Wide Angle Lens TI-CAR-CHARGER Car Charger **BOOK-ITP** Introduction to Thermography Principles Book FLK-TI-SBP4 Additional Smart Battery FLK-TI-SBC3 Additional Smart Battery Charger



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Download the app at:





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