

TECHNICAL DATA

TiS60+ Thermal Camera





POWERFUL, EASY-TO-USE FLUKE CONNECT™ SOFTWARE

The TiS60+ Thermal Camera is compatible with Fluke Connect.

- Modern visual design
- Intuitive navigation—easier to learn, easier and faster to work in
- Simplified work flows
- Simplified reporting work flow and better report templates

Get the job done right the first time

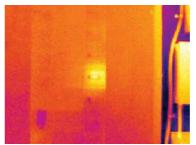
Boost your team's performance with 320 x 240 resolution. Infrared images taken with the TiS60+ capture smaller temperature differences from further away. If you are new to thermal imaging or if your camera is being used by a team with varying levels of thermal imaging experience, the TiS60+ offers easy-to-use fixed focus.

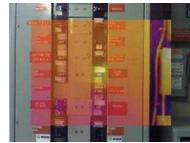
- 320 x 240 resolution for the clarity and image detail you need
- 3.5 inch LCD screen so you can recognize issues in the field
- · Easy to use fixed focus, just point and shoot
- Measure up to 400 °C to handle all your applications
- One-handed image capture, review and save capability

See the problem and the location in one image with IR-Fusion™ technology

IR-Fusion technology, patented by the Fluke Corporation, automatically captures a digital visible light image at the same time as an infrared image. The camera blends the two images together, pixel for pixel, in a single display. You can then view the image in full infrared, full visible light or at several degrees of blending in between.

The location of an infrared target can be precisely identified even if the infrared contrast is low and there is very little structure in the infrared image.





Full infrared

50~% blending, picture-in-picture mode



50 % blending



Specifications

IFOV with standard lens (spatial resolution) 1.86 mRad, D.S 532.1 Field of view 34.1 "H x 25.6 "V Minimum focus distance 46 cm (18 in) Focus system Fixed Wireless connectivity Ves, to PC, IPhones and IPAd [#] (IOS 4s and later), Android" 4.3 and up, and WiFi and LAN (where available) Fuke Connect app compatible Ves, to PC, IPhones and IPAd [#] (IOS 4s and later), Android" 4.3 and up, and WiFi and LAN (where available) Fuke Connect App compatible Ves", connect your camera to your smartphone, and images team submatically upload to th Pluke Connect Assets optional software IR Pusion" technology Ves", assign images to assets and create work orders. Easily compare measurement types- whether mechanical, electrical or infrared images—in one location IR Pusion" technology Yes AudoBlend" mode Yes Picture-In-Picture (PIP) Yes Rugedized display S.5 inch (8.9 cm landscape) 320 x 240 LCD Egenonic design Designed for one-handed use Thermal sensitivity (NETD)** S 0.045 °C at 30 °C larget temp (45 mK) Evel and span Smooth auto and manual scaling Fat auto-rescale in manual mode Yes Minimum span (in natura imode) S °C (9.0 °T) Built-in digital camera (visible light) Them atta Fane rate One-handed image capture, review, and save capability Inage tip f	Key Features	TiS60+
Field of view 34.1 "H x 28.6 °V Minimum focus distance 46 cm (15 in) Focus system Fixed Wireless connectivity Yes, to FC, iPhone* and iPad* (i05 4s and ister), Android** 4.3 and up, and WiFi and LAN (where available) Fluker* Connect app compatible Yes*, connect your camera to your anartphone, and images taken automatically upload to th Pauker Connect Assets optional software Wireless connectivity Yes*, connect your camera to your smartphone, and images taken automatically upload to th Pauke Connect Assets optional software Wireless Yes*, connect your camera to your smartphone, and images taken automatically upload to th Pauke Connect Assets optional software Wires*, assign images to assets and create work orders. Easily compare measurement types- whether mechanical, electrical or infrared images—in one location R Pusion** technology Yes AutoBlend** mode Yes Rugedized display 3.5 inch (8.9 cm landscape) 320 x 240 LCD Ergenomic design Designed for one-handed use Thermal sensitivity (NETD)** < 0.045 °C at 30 °C target temp (45 mK)	Infrared resolution	320 x 240 (76,800 pixels)
Minimum locus distance 46 cm (18 in) Focus system 60 cm (18 in) Focus system Ves, to PC, iPhone* and iPad [®] (iO3 4s and later), Android* 4.3 and up, and WiFi and LAN (where available) Fukes** Connect app compatible Ves*, connect not camera to your smartphone, and images taken automatically upload to the Fukes Connect app compatible Fukes Connect Assets optional software Ves*, consect app compatible Fusion** technology Ves*, consider and create work orders. Easily compare measurement types- whether mechanical, electrical or infrared images- in one location Ri Fusion*** technology Ves*, consider and create work orders. Easily compare measurement types- whether mechanical, electrical or infrared images- in one location Riggidized display Good Social So	IFOV with standard lens (spatial resolution)	1.86 mRad, D:S 532:1
Focus system Fixed Wireless connectivity Yes, to PC, IPhone* and IPd1* [03 4s and later, Android** 4.3 and up, and WIF1 and LAN (where available) Fluke*** Connect app compatible Yes*, connect your camera to your smartphone, and images taken automatically upload to th Pluke Connect Assets optional software Yes*, connect your camera to your smartphone, and images taken automatically upload to th Pluke Connect Assets optional software IR Fusion** technology Yes*, assign images to assets and create work orders. Easily compare measurement types- whether mechanical, electrical or infrared images -in one location IR Fusion** technology Yes*, assign images to assets and create work orders. Easily compare measurement types- whether mechanical, electrical or infrared images -in one location Picture-In-Picture [PIP] Yes Ruogedized display 3.5 inch [3.9 cm landscape] 320 x 240 LCD Ergonomic design Designed for one-handed use Thermal sensitivity (NETD)** \$ 0.045 °C at 30 °C target temp [45 mK] Level and span Smooth auto and manual scaling Past auto-rescale in manual mode Yes Minimum span (in auto mode) \$ C (4.5 °T) Built-in digital camera (visible light) SMP Frame rate < 9 Hz or 30 Hz	Field of view	34.1 °H x 25.6 °V
Wireless connectivity Yes, to PC, iPhone* and iPad [®] (iOS 4s and later), Android [™] 4.3 and up, and WiFi and LAN [Where available] Fluke* Connect app compatible Yes*, connect your camera to your smartphone, and images taken automatically upload to th Fluke Connect Assets optional software Wireless connectivity Yes*, assign images to asasts and create work orders. Easily compare measurement types whether mechanical, electrical or infrared images-in one location IR Pusion [™] tochnology Yes AutoBiend [™] mode Yes Picture-In-Picture (PIP) Yes Wiregedized display 3.5 inch (8.9 cm landscape) 320 x 240 LCD Ergonomic design Designed for one-handed use Thermal sensitivity (NETD)** S 0.045 °C at 30 °C target temp (45 mK) Level and span Smooth auto and manual scaling Stat auto-rescale in manual mode Yes Minimum span (in auto mode) S °C (4.5 °P) Built-in digital camera (visible light) Filme rate Frame rate Yes LED light (brch) No Data storage and image capture, review, save mechanism One-handed image capture, review, and save capability Inage file formats One-handed image capture, review, and save capability Memory	Minimum focus distance	46 cm (18 in)
Where so Connect app compatible (where available) Fluke" Connect app compatible Yes", connect your camera to your smartphone, and images taken automatically upload to th Pluke Connect Assets optional software Yes", assign images to assets and create work orders. Easily compare measurement types— whether mechanical, electrical or infrared images—in one location IR Fusion" technology Yes", assign images to assets and create work orders. Easily compare measurement types— whether mechanical, electrical or infrared images—in one location Rugodized display Good Social (Lectrical Order) Picture-In-Picture (PIP) Yes Rugodized display Good Social (Lectrical Order) Formal sensitivity (NETD)** GOO45 °C at 30 °C target temp (45 mK) Level and span Smooth auto and manual scaling Fast auto-rescele in manual mode Yes Minimu span (in auto mode) SC (4.5 °F) Minimu span (in auto mode) SMP Fast auto-rescele in fange capture Yes Extensive memory options No Data stocrage and image capture. Yes Extensive memory options Internal 4GB memory and 4GB micro SD card Image fall formats One-handed image capture, review, and save capabilitry Memory revi	Focus system	Fixed
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number number AutoBlend" mode Yes Picture-In-Picture (PIP) Yes Ruggedized display 3.5 inch (8.9 cm landscape) 320 x 240 LCD Ergonomic design Designed for one-handed use Thermal sensitivity (NETD)** \$ 0.045 °C at 30 °C target temp (45 mK) Level and span Smooth auto and manual scaling Pist auto-rescale in manual mode Yes Minimum span (in auto mode) 5 °C (9.0 °F) Built-in digital camera (visible light) Smooth auto and manual scaling Frame rate < 9 Hz or 30 Hz	Fluke Connect Assets optional software	Yes*, assign images to assets and create work orders. Easily compare measurement types— whether mechanical, electrical or infrared images—in one location
Picture-In-Picture (PIP) Yes Ruggedized display 3.5 inch (8.9 cm landscape) 320 x 240 LCD Ergonomic design Designed for one-handed use Thermal sensitivity (NETD)** \$ 0.045 °C at 30 °C target temp (45 mK) Level and span Smooth auto and manual scaling Fast auto-rescale in manual mode Yes Minimum span (in anual mode) 2.5 °C (4.5 °F) Minimum span (in auto mode) 5 °C (9.0 °F) Built-in digital camera (visible light) SMP Prame rate < 9 Hz or 30 Hz	IR Fusion™ technology	Yes
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Thermal sensitivity (NETD)** \$ 0.045 °C at 30 °C target temp (45 mK) Level and span Smooth auto and manual scaling Fast auto-rescale in manual mode Yes Minimum span (in manual mode) 2.5 °C (4.5 °F) Minimum span (in auto mode) SMO °C target temp (45 mK) Built-in digital camera (visible light) SMP Frame rate < 9 Hz or 30 Hz	Ruggedized display	3.5 inch (8.9 cm landscape) 320 x 240 LCD
Level and spanSmooth auto and manual scalingFast auto-rescale in manual modeYesMinimum span (in manual mode)2.5 °C (4.5 °F)Minimum span (in auto mode)5 °C (9.0 °F)Built-in digital camera (visible light)SMPFrame rate< 9 Hz or 30 Hz	Ergonomic design	Designed for one-handed use
Fast auto-rescale in manual mode Yes Minimum span (in manual mode) 2.5 °C (4.5 °F) Minimum span (in auto mode) 5 °C (9.0 °F) Built-in digital camera (visible light) SMP Frame rate < 9 Hz or 30 Hz	Thermal sensitivity (NETD)**	\leq 0.045 °C at 30 °C target temp (45 mK)
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Minimum span (in auto mode)S °C (9.0 °F)Built-in digital camera (visible light)SMPFrame rate< 9 Hz or 30 Hz	Fast auto-rescale in manual mode	Yes
Built-in digital camera (visible light)SMPFrame rate< 9 Hz or 30 Hz	Minimum span (in manual mode)	2.5 °C (4.5 °F)
Frame rate< 9 Hz or 30 HzLaser pointerYesLED light (torch)NoData storage and image captureExtensive memory optionsInternal 4GB memory and 4GB micro SD cardImage capture, review, save mechanismOne-handed image capture, review, and save capabilityImage file formatsNon-radiometric BMP or JPEG or fully-radiometric is2Memory reviewYesSoftwareFluke Connect desktop software—full analysis and reporting software with access to the Fluke Connect systemAnalyze and store radiometric data on a PCYesExport file formats with Fluke Connect software60 seconds maximum recording time per image; reviewable playback on camera; Bluetooth headset required (sold separately)IR-PhotoNotesYes-3 imagesText annotationsNoVideo recording and formatsSoftwaresRemote control operationsNo	Minimum span (in auto mode)	5 °C (9.0 °F)
Laser pointerYesLED light (torch)NoData storage and image captureExtensive memory optionsInternal 4GB memory and 4GB micro SD cardImage capture, review, save mechanismOne-handed image capture, review, and save capabilityImage file formatsOne-handed image capture, review, and save capabilityImage file formatsSoftwareMemory reviewYesSoftwareFluke Connect desktop software-full analysis and reporting software with access to the Fluke Connect systemAnalyze and store radiometric data on a PCYesExport file formats with Fluke Connect softwareSoftwareVoice annotation60 seconds maximum recording time per image; reviewable playback on camera; Bluetooth headset required (sold separately)IR-PhotoNotesYes-3 imagesText annotationsNoVideo recording and formatsNoRemote control operationsNo	Built-in digital camera (visible light)	5MP
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SoftwareFluke Connect systemAnalyze and store radiometric data on a PCYesExport file formats with Fluke Connect softwareis2, BMP, GIF, JPEG, PNG, TIFFVoice annotation60 seconds maximum recording time per image; reviewable playback on camera; Bluetooth headset required (sold separately)IR-PhotoNotesYes—3 imagesText annotationsNoVideo recording and formatsSoftwareRemote control operationsNo	Memory review	Yes
Export file formats with Fluke Connect softwareis2, BMP, GIF, JPEG, PNG, TIFFVoice annotation60 seconds maximum recording time per image; reviewable playback on camera; Bluetooth headset required (sold separately)IR-PhotoNotesYes-3 imagesText annotationsNoVideo recording and formatsNoRemote control operationsNo	Software	
software IS2, BMP, GIF, JPEG, PNG, TIFF Voice annotation 60 seconds maximum recording time per image; reviewable playback on camera; Bluetooth headset required (sold separately) IR-PhotoNotes Yes-3 images Text annotations No Video recording and formats No Remote control operations No	Analyze and store radiometric data on a PC	Yes
Voice allocation headset required (sold separately) IR-PhotoNotes Yes-3 images Text annotations No Video recording and formats No Remote control operations No	Export file formats with Fluke Connect software	is2, BMP, GIF, JPEG, PNG, TIFF
Text annotations No Video recording and formats No Remote control operations No	Voice annotation	60 seconds maximum recording time per image; reviewable playback on camera; Bluetooth headset required (sold separately)
Video recording and formats No Remote control operations No	IR-PhotoNotes	Yes-3 images
Remote control operations No	Text annotations	No
	Video recording and formats	No
Auto capture (temperature and interval) Yes	Remote control operations	No
	Auto capture (temperature and interval)	Yes

* Not all features of Fluke Connect are available in all countries. Please check availability with your authorized Fluke distributor. ** Best possible



Specifications continued

Key Features	TiS60+
Battery	
Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery pack with five-segment LED display to show charge level
Battery life	4 hours continuous use per battery pack
Battery charging 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
Temperature measurement	
Temperature range (not calibrated below -10 °C)	–20 °C to 400 °C (–4 °F to 752 °F)
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	No
Line temperature graph	No
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, Hot Metal Ultra, Grayscale Ultra, Grayscale Inverted Ultra
General specifications	
Color alarms	High temperature, low temperature, isotherms (within range)
Infrared spectral band	7.5 μm to 14 μm
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-definable spot markers	3
User defined measurement boxes	Expandable-contractible measurement box
Hard case	Rugged hard carrying case with soft transport bag, including adjustable strap
Safety standards	IEC 61010-1: Overvoltage category II, Pollution Degree 2
Electromagnetic combability	IEC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A
Australian RCM	RCM IEC 61326-1
US FCC	EN61326-1; FCC Part 5, EN 55011: Class A, EN 61000-4-2, EN 61000-4-3
Vibration	2G, IEC 68-2-6
Shock	25G, IEC 68-2-29
Drop	Engineered to withstand 2 meter (6.5 feet) drop
Sized (H x W x L)	26.7 cm x 10.1 cm x 14.5 cm (10.5 in x 4.0 in x 5.7 in)
Weight (battery included)	0.72 kg (1.6 lb.)
Enclosure rating	IP54 (protected against dust, limited ingress; protection against water spray from all direction
Warranty	Two-years (standard)
Recommended calibration cycle	Two-years (assumes normal operation and normal aging)
Supported languages	Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish
RoHS compliant	Yes



Ordering information

FLK-TIS60+ 30HZ THERMAL IMAGER FLK-TIS60+ < 9HZ THERMAL IMAGER

Included

Infrared camera; ac power supply (including universal ac adapters); two-bay smart battery charger; 2 rugged lithium ion smart batteries; USB cable; 4 GB micro SD card; rugged, hard carrying case; soft transport bag; adjustable hand strap. Available by free download: desktop software and user manual.

Optional accessories

FLK-BLUETOOTH Bluetooth Headset FLK-TI-TRIPOD3 Tripod Mounting Accessory BOOK-ITP Introduction to Thermography Principles Book FLK-TI-SBP3 Additional Smart Battery FLK-TI-SBC3B Smart Battery Charger TI-CAR CHARGER Car Charger

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



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 $\ensuremath{^{\mathrm{TM}}}$ video calls and emails.
- The TiS60+ infrared camera is part of a growing system of connected test tools and equipment maintenance software. Visit the Fluke website to learn more about the Fluke Connect system.

Find out more at **fluke.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 5GB of storage is free.

Smartphone 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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4 Fluke Corporation Fluke TiS60+ Thermal Camera

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