TiS60+

Thermal Imager

Product Specifications

General Specifications

Temperature	
Operating	-10 °C to 50 °C (14 °F to 122 °F)
Storage	-20 °C to 50 °C (-4 °F to 122 °F) without batteries
Relative humidity	10 % to 95 % non-condensing
Altitude	
Operating	2000 m
Storage	12 000 m
Display	8.9 cm (3.5 in) diagonal landscape color QVGA 320 x 240 LCD with backlight
Battery	Lithium-ion rechargeable battery
Battery life, as tested	≥4 hours continuous without WiFi (Actual life depends on settings and usage)
Charge time	≤2.5 hours to full charge
Charge temperature	0 °C to 40 °C (32 °F to 104 °F)
Battery charge	Ti SBC3B Two-Bay Battery Charger or in-Imager charging.
AC power adapter	AC operation with included power supply, universal adapters included Output: 15 VDC, 2 A
Power save	User-selectable sleep and power off
Safety	IEC 61010-1: Pollution Degree 2
Wireless radio SIMPLIFIED EU DECLARATION OF CONFORMITY Hereby, Fluke declares that the radio equipment contained in this Product is in compliance with Directive 2014/53/EU. The full text of the EU declaration is available at the following internet address: www.fluke.com/RED	
Frequency	2412 MHz to 2462 MHz
Output power	<100 mW
CMIIT	2016DJ0822
Electromagnetic Compatibility (EMC)	
International	IEC 61326-1: Portable Electromagnetic Environment; IEC 61326-2-2 CISPR 11: Group 1, Class A
	Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself. *Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.* *Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.*
Korea (KCC)	Class A Equipment (Industrial Broadcasting & Communication Equipment)
	Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.
USA (FCC)	47 CFR 15 Subpart C Sections 15.207, 15.209, 15.249
Vibration	10 Hz to 150 Hz, 0.15 mm, IEC 60068-2-6
Shock	25 g, IEC 60068-2-29
Drop	Engineered to withstand 2 m
Size (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 (includes battery)	0.72 kg (1.6 lb)
Ingress protection rating	IEC 60529: IP54

Detailed Specifications

Temperature range **(not calibrated below -10 °C)**	-20 °C to 400 °C (-4 °F to 752 °F)
Accuracy	$\pm$2 °C or 2 % (at 25 °C nominal, whichever is greater)
Thermal image features	
Image capture frequency	<9 Hz or 30 Hz
Detector resolution	320 x 240
Total pixels	76 800
Pitch size	17 μm
Thermal sensitivity (NETD)	$\leq$0.045 °C at 30 °C target temp (45 mK)
Spectral band	7.5 μm to 14 μm (long wave)
Field of View (H X V)	34 ° x 25 °
Spatial resolution (IFOV)	1.86 mRad D:S 532:1
F stop number	F1.01
Minimum focus distance	46 cm (18 in)
Focus system	Fixed
IR-Fusion™ technology	Adjustable Autoblend™ mode
Visual (visible light) features	
Operating range	$\geq$0.5 m (no focus)
Resolution	minimum: 640 x 480 maximum: 1.3 megapixel x 5.0 megapixel
Field of View (H X V)	62 ° x 49 °
Focus system	Fixed
Palette	Grayscale, Ironbow, High Contrast, Amber, Hot Metal, Blue Red
Image Capture and Data Storage	
Internal storage memory capacity	4 GB
Micro SD memory card	4 GB (>1000 images)
File Formats	Non-radiometric (.jpg or .bmp) or Fully-radiometric (.is2). No analysis software is required for .jpg files. Fluke Connect desktop software is required for .is2 files.
Memory Review	Thumbnail and full screen review
Text Annotation	Yes (.is2 file format only, not .jpg file format)
Wireless Connectivity	PC and WiFi to LAN (where available)