TiS55+/TiS75+

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 touchscreen landscape color QVGA (640 x 480) LCD with backlight
Battery	Lithium-ion rechargeable battery
Battery life, as tested	≥3.5 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 charging system	Ti SBC3B Two-Bay Battery Charger, (included with TiS75+) 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	
Frequency	2400 MHz to 2483.5 MHz
Output power	<100 mW
CMIIT	2020DJ4342 (TiS55+) 2020DJ4341 (TiS75+)
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	30 g, 11 ms, IEC 60068-2-27
Drop	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	≤2.27 kg (5 lb)
Ingress protection rating	IEC 60529: IP54
Supported Languages	Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish

Detailed Specifications

	TiS55+	TiS75+
Temperature range	-20 °C to 550 °C (not calibrated below -10 °C)	
Accuracy	±2 °C or 2 % (whichever is greater) at 25 °C ambient temperature	
Thermal Image Features		
Frame rate	9 Hz or 27 Hz	
Infrared resolution	256x192	384x288
Thermal sensitivity (NETD)	≤0.04 °C at 30 °C target temp (40 mK)	≤0.04 °C at 30 °C target temp (40 mK)
Spectral band	~(8.0 μm to 14 μm) long wave	
Field of View (H X V)	28 ° x 20 °	42 ° x 30 °
Spatial resolution (IFOV)	1.91 mRad	
Minimum focus distance	0.5 m	
IR-Fusion™ technology	Adjustable Autoblend™ mode	
Visual (visible light) features		
Operating range	≥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 °	
Palette	Grayscale, Ironbow, High Contrast, Amber, Hot Metal, Blue Red	
Image Capture and Data Storage		
Internal storage memory capacity	~500 images	
Micro SD memory card	≥4 GB (>1000 images)	
File Formats	Non-radiometric (.jpg) or Fully-radiometric (.is2).	Non-radiometric (.jpg, .avi) or Fully-radiometric (.is2, .is3).
	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, .is3 file format only, not .jpg file format)	
Wireless Connectivity	PC and WiFi to LAN (where available), Bluetooth	