KLEIN TOOLS

THERMAL IMAGERS

Made for iPhone

	TI290	TI270	TI250	TI222	TI220
	Rechargeable Pro Thermal Imager with Wi-Fi	Rechargeable Thermal Imager with Wi-Fi	Rechargeable Thermal Imaging Camera	Thermal Imager for iOS Devices	Thermal Imager for Android® Devices
Accuracy	±2°C (±3.6°F) or 2% (whichever is greater) Not calibrated below -10°C (14°F)	±3°C (±5.4°F) or 3% (whichever is greater) Not calibrated below -10°C (14°F)	At More Than 212°F (100°C): ± 3°C or 3% (whichever is greater); At Less Than 212°F (100°C): ± 3°C or 3% (whichever is greater) Not calibrated below -10°C (14°F)	±2°C or 2% (whichever is greater). Not calibrated below -10°C (14°F)	±2°C or 2% (whichever is greater). Not calibrated below -10°C (14°F)
Color Palettes	Ironbow, Rainbow, and Grayscale	Ironbow, Rainbow, and Grayscale	Ironbow, Rainbow, and Grayscale	Ironbow, Rainbow, and Grayscale	Ironbow, Rainbow, and Grayscale
Display Resolution	3.5" (8.9 cm) TFT LCD 480 x 320	3.5" (8.9 cm) TFT LCD 480 x 320	2.4" (6.1 cm) TFT LCD 320 x 240	Dependent on Phone	Dependent on Phone
Emissivity	0.01 to 0.99, Adjustable	0.01 to 0.99, Adjustable	0.01 to 1.00, Adjustable	0.01 to 0.99, Adjustable	0.01 to 0.99, Adjustable
Field of View	55.6° ± 2.8°	50° ± 3°	50° ± 3°	50° ± 3°	50° ± 3°
Max Frames/Second	<9 Hz	<9 Hz	<9 Hz	<9 Hz	<9 Hz
Memory	10,000 Images	10,000 Images	MicroSD® Card (not included)	External Device	External Device
Photo Capture	●	●	●	●	●
Sensor Resolution	49,152 Pixels	10,800 Pixels	10,800 Pixels	10,800 Pixels	10,800 Pixels
Sensor Type	VOx Microbolometer	VOx Microbolometer	VOx Microbolometer	VOx Microbolometer	VOx Microbolometer
Temperature Indicators	High and Low Points; Crosshairs to Pinpoint Specific Temperatures	High and Low Points; Crosshairs to Pinpoint Specific Temperatures	High and Low Points; Crosshairs to Pinpoint Specific Temperatures	High and Low Points; Touch-Point Temperature; Crosshairs to Pinpoint Specific Temperature	High and Low Points; Touch-Point Temperature; Crosshairs to Pinpoint Specific Temperature
Time-Lapse Video	–	–	–	●	●
Video Capture	–	–	–	●	●
Temperature Alarms	●	●	●	●	●
Differential Temp	●	●	–	●	●
Image Transfer	Wi-Fi Transfer, USB-C	Wi-Fi Transfer, USB-C	MicroSD® Card (not included), Micro-USB	Images stored on and shared from connected device	Images stored on and shared from connected device
Mobile Device	Compatible with Android® 7 or iOS 11 and higher.	Compatible with Android® 7 or iOS 11 and higher.	–	Compatible with iOS devices 11 and higher	Compatible with most Android® devices versions 6.0 or higher with USB-C or Micro-USB connectors
Free Apps	GET IT ON Google Play / Available on the App Store	GET IT ON Google Play / Available on the App Store	–	Available on the App Store	GET IT ON Google Play
Spectral Range	8 to 14µm	8 to 14µm	8 to 14µm	8 to 14µm	8 to 14µm
Thermal Sensitivity	≤50 mK	≤60 mK	≤60 mK	≤60 mK	≤60 mK
Temperature Range	-4° to 752°F (-20° to 400°C)	-4° to 752°F (-20° to 400°C)	-4° to 752°F (-20° to 400°C)	-4° to 752°F (-20° to 400°C)	-4° to 752°F (-20° to 400°C)
Included	USB Charging Cable and Molded Soft-Storage Case with Carabiner	USB Charging Cable and Molded Soft-Storage Case with Carabiner	Micro-USB Charging Cable and Carrying Pouch	Hard Storage Case with Carabiner	USB-C Connector, Micro-USB Connector/Adapter, and Hard Storage Case with Carabiner
Battery Type	Rechargeable Lithium-Ion, 2000 mAh, 7.4 Wh	Rechargeable Lithium-Ion, 2000 mAh, 7.4 Wh	Rechargeable Lithium-Ion, 1350 mAh, 5 Wh	Powered from External Device	Powered from External Device
Overall Height	4.48" (11.4 cm)	4.48" (11.4 cm)	3.1" (8.0 cm)	1.07" (2.7 cm)	1.07" (2.7 cm)
Overall Length	3.1" (8 cm)	3.1" (8 cm)	3.1" (8.0 cm)	2.13" (5.4 cm)	2.13" (5.4 cm)
Overall Width	1.06" (3 cm)	1.06" (3 cm)	1" (2.5 cm)	0.73" (1.9 cm)	0.73" (1.9 cm)
Weight	7.5 oz (213 g)	7.5 oz (213 g)	8.5 oz (241 g)	1 oz (31 g)	1 oz (31 g)
Certifications	CE and UKCA	CE and UKCA	CE and UKCA	CE and UKCA	CE and UKCA