



# Technical Specifications

Physical Characteristics		Infrared Characteristics	
Dimensions	185 mm x 130 mm x 149 mm* 284 mm x 144 mm x 145 mm**	Detector	Uncooled IR microbolometer
Weight	1.2 kg (2.6 lbs)	Resolution	160 x 120 pixels
Shell Colour	Orange* Orange / Black**	Sensing Material	Amorphous Silicon
Shell Material	Radel R 5100	Thermoelectric Cooler	None
Handstrap Material	Kevlar	Thermal Time Constant	10 ms typical
IR Protection Window	Hard-coated Germanium	Spectral Response	8 µm to 14 µm
Tripod Mount	¼ inch BSW fixing	Range/Sensitivity (R:S) Ratio	8800
Display Characteristics		Sensitivity (nominal)	50 mK
Technology	Colour liquid crystal display (LCD)	Scene Update Rate	50 Hz (PAL), 60 Hz (NTSC)
Viewing Mode	Wide Angle (arms length)* Universal (up to face or arms length)**	Dynamic Range	Automatic, variable dynamic range control
Size (Diagonal)	90mm (3.5")* Equivalent 165 mm (6.5" magnified)**	Modes of Operation	ICE™ (Normal and Thousand Plus)
Luminosity	250 candelas per square metre	Field of View	54 degrees
Environmental Characteristics		Focus Range	1.0 m to infinity
Operating Temperature	-35 °C to ~450 °C (-31 °F to ~840 °F) (limited exposure)	Operational Characteristics	
Operating Duration	120 °C (250 °F) for 20 minutes 260 °C (500 °F) for 8 minutes	Pushbutton Controls	Power On/Off, Image Capture and Transmitter On/Off (if fitted)
Storage Temperature	-25 °C to 55 °C (-15 °F to 130 °F) whilst retained in carry case	Readiness Time	10 seconds (nominal)
Water Resistant	IP 67, 1.0 m (3'3") depth	Image Optimisation	Automatic, no operator adjustment required
Contaminant Resistant	Yes	Video Standard	PAL or NTSC: European or American TV standard compatible
Drop	1.8 m (6') any orientation	Video Output	Composite 1.0 V, terminated into 75 Ω BNC
Electrical Characteristics		Temperature Measurement	Range: 0 °C to 1000 °C Accuracy +/- 5 °C from 0 °C 100 °C +/- 10% from 100 °C to 1000 °C
Battery Technology	Rechargeable NiMH	Colorisation	ICE™ Enhanced Dual Transparent Colour
Recharge Cycles	1000+	Colour Temperature Scale Indicator	Single palette indicator bar
Recharge Time	2.5 hours (nominal)	Digital Image Capture	Saves 30 images to on board memory
Operating Time	Up to 5 Hours with Supercell Plus batteries	Zoom	x2 Magnification

\* K250 only  
\*\*SD250 only

