



SD1000

Technical Specifications

Physical Characteristics		Infrared Characteristics	
Dimensions	284 mm x 144 mm x 145 mm	Detector	Uncooled IR microbolometer
Weight	1.2 kg (2.6 lbs)	Resolution	320 x 240 pixels
Shell Colour	Orange / Black	Thermoelectric Cooler	Integral
Shell Material	Radel R 5100	Thermal Time Constant	13 ms typical
Handstrap Material	Kevlar	Spectral Response	8 µm to 14 µm
IR Protection Window	Hard-coated Germanium	Range/Sensitivity (R:S) Ratio	3,100
Tripod Mount	¼ inch BSW fixing	Sensitivity (nominal)	50 mK
Display Characteristics		Scene Update Rate	50 Hz (PAL), 60 Hz (NTSC)
Technology	Colour liquid crystal display (LCD)	Dynamic Range	Automatic, variable dynamic range control
Viewing Mode	Universal (up to face or arms length)	Modes of Operation	Normal, Firefighting and Thousand Plus
Size (Diagonal)	64 mm (2.5") magnified – 165 mm (6.5") equivalent	Field of View	54°
Luminosity	250 candelas per square meter	Focus Range	1.0 m to infinity
Environmental Characteristics		Operational Characteristics	
Operating Temperature	-15 °C to ~450 °C (5 °F to ~840 °F) (limited exposure)	Pushbutton Controls	Power On/Off, Image Capture and Transmitter On/Off (if fitted)
Operating Duration	120 °C (250 °F) for 20 minutes 260 °C (500 °F) for 8 minutes	Readiness Time	5 seconds (nominal)
Storage Temperature	-25 °C to 55 °C (-15 °F to 130 °F) whilst retained in carry case	Image Optimisation	Automatic, no operator adjustment required
Water Resistant	IP 67, 1.0 m (3'3") depth	Video Standard	PAL or NTSC: European or American TV standard compatible
Contaminant Resistant	Yes	Video Output	Composite 1.0 V, terminated into 75 Ω BNC
Drop	1.8 m (6') any orientation	Temperature Measurement	Range: 0 °C to 1000 °C Accuracy +/- 5 °C from 0 °C 100 °C +/- 10% from 100 °C to 1000 °C
Electrical Characteristics		Colorisation	Dual Transparent Colour
Battery Technology	Rechargeable NiMH	Colour Temperature Scale Indicator	Single palette indicator bar
Recharge Cycles	1000+	Digital Image Capture	Saves 30 images to on board memory
Recharge Time	2.5 hours (nominal)	Audible Low Battery	Yes, pulsed
Operating Time	Up to 5 Hours with Supercell Plus batteries		

