



Accessory Kits


| Standard Accessory Kit | |
|------------------------|---|
| Power Source | 2x rechargeable NiMH batteries |
| Charging Facility | Desktop battery charger with power supply and lead |
| Accessories | Standard, manual-adjust lanyard |
| Documentation | Operating Manual & Quickstart Guide |
| Storage Container | Eco-Box (made from recyclable materials) with foam insert |



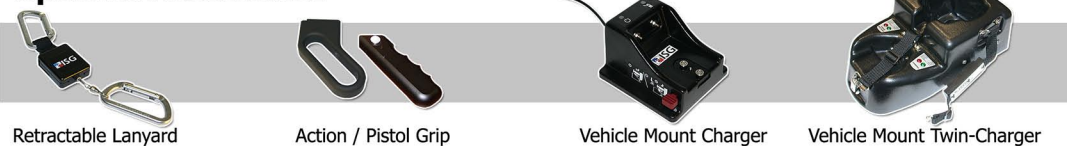
| Hard-case Accessory Kit | |
|-------------------------|--|
| Power Source | 2x rechargeable NiMH batteries |
| Charging Facility | Desktop battery charger with power supply and lead |
| Accessories | Standard, manual-adjust lanyard |
| Documentation | Operating Manual & Quickstart Guide |
| Storage Container | Durable, hard carry-case with foam insert |



| Vehicle Accessory Kit | |
|-----------------------|---|
| Power Source | 2x rechargeable NiMH batteries |
| Charging Facility | Vehicle Mount Charger with lead and Operating Manual |
| Accessories | Standard, manual-adjust lanyard |
| Documentation | Operating Manual & Quickstart Guide |
| Storage Container | Eco-Box (made from recyclable materials) with foam insert |



Optional Accessories



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Product Information

The K1000 and SD1000 are the latest firefighting thermal imagers from ISG INFRASYS. The 1000 Series product range has been exclusively developed to suit the specific and demanding requirements of the most extreme environments in the world.

Choose from the K1000 thermal imager with Standard Viewing System, or the SD1000 with Universal Viewing System, based on your specific requirements. The K1000 and SD1000 are uniquely crafted, high specification products with numerous features available, including ICE™, Image Capture, Direct Temperature Measurement, Zoom, Time and Date and Selectable Colour Palettes.

Features & Benefits

| | |
|-----------------|---|
| ICE™ | See more scene information, such as a casualty or an escape route to facilitate informed decision making and enhance user safety. |
| Image Capture | Capture and save up to 30 still frame images, and browse and view saved files on-screen using the simple 2-button control pad. |
| Zoom | Magnify the thermal image for a better assessment of the scene, whilst remaining at a safe and secure distance. |
| Colour Palettes | Select from a variety of different colour palettes to further enhance the thermal scene and tailor the product to suit your requirements. |
| Time & Date | On-screen display of time and date offers additional user information as well as capability to stamp saved files for later reference. |



Technical Specifications

| Engine Characteristics | K1000 | SD1000 |
|---------------------------------|-------------------------------|-------------------------------|
| Detector Type | Uncooled Microbolometer (ASi) | Uncooled Microbolometer (ASi) |
| Sensor Material | Amorphous Silicon | Amorphous Silicon |
| Resolution | 384 x 288 pixels | 384 x 288 pixels |
| Thermoelectric Cooler | None | None |
| Spectral Response | 8 µm to 14 µm | 8 µm to 14 µm |
| Sensitivity (nominal) | 50 mK | 50 mK |
| Dynamic Range | > 1000° C | > 1000° C |
| Range : Sensitivity Ratio (R:S) | 13,500 | 13,500 |
| Scene Update Rate | 50 Hz (PAL), 60 Hz (NTSC) | 50 Hz (PAL), 60 Hz (NTSC) |

| Performance Characteristics | K1000 | SD1000 |
|-----------------------------|---------------------------------------|---------------------------------------|
| Modes of Operation | ICE™ (Normal and 1000+) | ICE™ (Normal and 1000+) |
| Operating Duration | 20 mins @ 120° C, 8 mins @ 260° C | 20 mins @ 120° C, 8 mins @ 260° C |
| Operating Temperature | -40° C to ~450° C (limited exposure) | -40° C to ~450° C (limited exposure) |
| Storage Temperature | -40° C to 75° C (up to 24 hours) | -40° C to 75° C (up to 24 hours) |
| DTM Range | 0° C to 1000° C | 0° C to 1000° C |
| DTM Accuracy | +/- 5° C (<100° C), +/- 10% (>100° C) | +/- 5° C (<100° C), +/- 10% (>100° C) |
| ATM Range | 0° C to 600° C | 0° C to 600° C |
| Spot Measurement Ratio | 480:1 | 480:1 |
| Detection Range | 320 metres | 320 metres |

| Physical Characteristics | K1000 | SD1000 |
|-------------------------------|-------------------------|-------------------------|
| Dimensions | 185 x 130 x 149 mm | 284 x 145 x 144 mm |
| Weight (without battery) | 1.2 Kg | 1.2 Kg |
| Shell Material | Radel 5100 | Radel 5100 |
| Shell Colour | Orange and Black | Orange and Black |
| Hand Strap Material | Kevlar | Kevlar |
| IR Protection Window Material | Germanium (non-scratch) | Germanium (non-scratch) |
| Tripod Mount | ¼ inch BSW fixing | ¼ inch BSW fixing |
| Water Resistant | IP67, 1 metre depth | IP67, 1 metre depth |
| Drop | 2.0 metres | 1.8 metres |

Technical Specifications (continued)

| Display Characteristics | K1000 | SD1000 |
|-------------------------|-------------------------|-------------------------------|
| Display Technology | Colour LCD | Colour LCD |
| Display Size (diagonal) | 90 mm | 165 mm equivalent (magnified) |
| Luminance | 250 cd / m ² | 230 cd / m ² |
| Viewing System | Standard (team) | Universal (up-to-face / team) |

| Optical Characteristics | K1000 | SD1000 |
|--------------------------|------------------------|------------------------|
| Lens Size | 12 mm | 12 mm |
| Focus Range | 1.5 metres to infinity | 1.5 metres to infinity |
| Field of View (diagonal) | 54° | 54° |

| Operational Characteristics | K1000 | SD1000 |
|-----------------------------|---------------------------------------|---------------------------------------|
| Pushbutton Controls | Power button and Function button | Power button and Function button |
| Start-up Time (nominal) | < 10 seconds | < 10 seconds |
| Video Standard | PAL (EU) or NTSC (USA) TV compatible | PAL (EU) or NTSC (USA) TV compatible |
| Video Output | 75 Ω BNC (composite 1.0 V) | 75 Ω BNC (composite 1.0 V) |
| Image Optimisation | Automatic | Automatic |
| Colourisation | ICE™ Enhanced Dual Transparent Colour | ICE™ Enhanced Dual Transparent Colour |
| Temperature Scale Indicator | ICE™ indicator colour palette | ICE™ indicator colour palette |
| Additional Colour Palettes | Autumnal, Ironbow, Rainbow, Black Hot | Autumnal, Ironbow, Rainbow, Black Hot |
| Polarity Switch | Yes (ICE™ and Autumnal palettes only) | Yes (ICE™ and Autumnal palettes only) |
| Capture Feature | Image Capture | Image Capture |
| Time and Date Stamp | Yes | Yes |
| Zoom Feature | x2 and x4 magnifications | x2 and x4 magnifications |

| Power Characteristics | K1000 | SD1000 |
|-------------------------|-------------------|-------------------|
| Battery Technology | Rechargeable NiMH | Rechargeable NiMH |
| Battery Weight | 0.5 Kg | 0.5 Kg |
| Operating Time | Up to 5 hours | Up to 5 hours |
| Recharge Time (nominal) | 2.5 hours | 2.5 hours |
| Recharge Cycles | 1000+ | 1000+ |