

THE BEST JUST GOT BETTER



**HIGHEST
RESOLUTION
EVER!**

With **384x288**
Detector.



1000
SERIES

*State-of-the-art thermal imaging
cameras for firefighting.*

 **ISG**
Thermal Systems Ltd.

ENHANCING YOUR SAFETY



ISG has been developing thermal imaging technology for almost 20 years. We pride ourselves on our exceptional product range and customer service, as well as our world famous image clarity, unrivalled in the industry worldwide.

Our in-house specialist development team work tirelessly on improving our products as well as developing the technology available to the industry. This enables ISG to remain at the forefront of infrared technology development, allowing us to offer leading thermal imaging products on a global scale.



The **K1000** and **SD1000** thermal imaging cameras are uniquely crafted, high specification products with numerous features exclusive to ISG. With a variety of options available, you can be assured that your thermal imager will be built to meet your specific needs, and be capable of operating in the world's most extreme environments.

The **K1000** and **SD1000** use an ultra high resolution detector (384 x 288 pixels) which when coupled with our patented image processing technology, ICE™, provides a crystal-clear image of even the most extreme scenes. The **1000 Series** are quite literally the best value for money high-resolution thermal imagers available anywhere in the world.

ISG's latest development, ICE™, is the world's most advanced image enhancement technology and is exclusive to ISG. This extraordinary development provides the user with crystal-clear image clarity that has never been available before.



This picture (below) demonstrates just some of the substantial benefits that are available with ICE™ technology. ICE™ boosts the background contrast of the thermal image to provide the user with the detail and clarity needed to facilitate informed decision making.



Our ICE™ technology features in all of ISG's firefighting product lines as standard, and our latest camera design, the **K1000** and **SD1000**, is no exception. Its light-weight, compact build makes this thermal imaging camera the most technologically advanced imager for its size and offers simply the best imaging capability available in the world.

The **1000 Series** enhances user safety by providing the clearest image ever to increase the information available to the firefighter. The best just got better.

FEATURES & BENEFITS



The *K1000* and *SD1000* have numerous features and benefits, each put in place to offer you the most advanced, safety-enhancing piece of equipment you could ever need. No matter what the emergency, the *1000 Series* thermal imagers never fail to impress.

Listed below are some of the key features and benefits available with this state-of-the-art thermal imager.

SPECIAL FEATURES

Ultra High Resolution	384 x 288 detector helps provide a crystal clear image, essential for firefighter safety.
ICE™	See foreground and background details at the same time, to enhance image clarity.
1000+ Mode	Image scene temperatures above 1000° C for enhanced safety in extreme conditions.
Zoom Feature	Enhance the thermal image by magnifying to x2 or x4 with our latest Zoom Feature.

STANDARD FEATURES

Automatic Mode Selection	The appropriate mode is automatically selected for ease-of-use.
Easy-to-Use Controls	Simple, 2-button control pad with easy-to-navigate menu functions.
Image Capture	Store and save up to 30 images for training or review at a later date.
Vast Operating Time	Supercell Batteries provide up to 5 hours operating time for lengthy missions.

DESIGN FEATURES

Lightweight	At just 1.2kg, the lightweight design helps ease mobility and reduce fatigue.
Small	Tightly compacted into a palm-sized package to reduce bulkiness.
Durable	Waterproof to IP67 standard, impact resistant up to 2m drop (any orientation).
High-Heat Tolerant Housing	Fire-hardened outer shell enables performance in all extreme conditions.

ISG thermal imagers are designed with your safety in mind. Our unique safety features have come from years of research and development to help enhance the safety of firefighters. By increasing the information available to the firefighter, they can make better, more informed decisions which could be potentially life saving.

The *K1000* and *SD1000* use the most advanced, state-of-the-art technology to deliver a crystal-clear thermal image. This in turn provides even more information from the scene and surroundings, enhancing firefighter safety and improving their decision-making capability.

The *1000 Series* thermal imagers also have a number of Optional Features available. Please contact us for more information.

OPTIONS & ACCESSORIES



OPTIONS

The *K1000* and *SD1000* are available in a variety of optional packages, each with different accessories included, essential for ensuring maximum efficiency of your thermal imager.

OPTION 1 - STANDARD KIT

- 1x Thermal Imager (with straps)
- 1x Rechargeable Battery
- 1x Desktop Battery Charger Kit
- 1x Standard Lanyard
- 1x Product Documents Pack
- 1x Durable, padded Eco-Transport Box



OPTION 2 - HARD-CASE KIT

- 1x Thermal Imager (with straps)
- 2x Rechargeable Batteries
- 1x Desktop Battery Charger Kit
- 1x Standard Lanyard
- 1x Product Documents Pack
- 1x Durable, padded hard carry-case

OPTION 3 - VEHICLE KIT

- 1x Thermal Imager (with straps)
- 2x Rechargeable Batteries
- 1x Vehicle Battery Charger Kit
- 1x Standard Lanyard
- 1x Product Documents Pack
- 1x Durable, padded Eco-Transport Box

ACCESSORIES

A variety of accessories are available for you to customise your *K1000* and *SD1000* camera kit to best suit your specific requirements:



Rechargeable Battery



AA Battery



Desktop Battery Charger



Vehicle Mount Charger



Standard Lanyard



Retractable Lanyard



Pistol Grip



Action Grip



Stand-Alone Receiver



Mini-Receiver



Laptop Receiver



Product Documents

Please specify when you order which accessories you would like included with your thermal imager.

TECHNICAL SPECIFICATION

1000
SERIES

PHYSICAL

Dimensions	K: 185 mm x 130 mm x 149 mm (7.2" x 5.1" x 5.9") SD: 284 mm x 144 mm x 145 mm (11" x 5.7" x 5.7")
Weight	1.2 kg (2.6 lbs)
Shell Colour	Orange / Black
Shell Material	Radel R 5100
Handstrap Material	Kevlar
IR Protection Window	Hard-coated Germanium

DISPLAY

Technology	Colour LCD
Viewing System	K: Standard (arms length) SD: Universal (up-to-face or arms length)
Size (Diagonal)	K: 90 mm (3.5") SD: 165 mm (6.5") equivalent (magnified)
Luminance	K: 230 cd / m ² SD: 250 cd / m ²

ENVIRONMENTAL

Operating Temperature	-35 °C to ~450 °C (-31 °F to ~840 °F)
Operating Duration	20 min @ 120 °C (250 °F), 8 min @ 260 °C (500 °F)
Storage Temperature	-25 °C to 55 °C (-15 °F to 130 °F) in carry case
Water Resistant	IP 67, 1.0 m (3'3") depth
Drop	K: 2 m (6'6") any orientation SD: 1.8 m (6') any orientation

ELECTRICAL

Battery Technology	Rechargeable NiMH
Operating Time	Up to 5 Hours with Supercell Plus batteries
Recharge Cycles	1000+
Recharge Time	2.5 hours (nominal)

INFRARED

Detector	Uncooled IR microbolometer (ASi)
Resolution	384 x 288 pixels
Thermoelectric Cooler	None
Thermal Time Constant	10 ms typical
Spectral Response	8 µm to 14 µm
Sensitivity (nominal)	50 mK
Scene Update Rate	50 Hz (PAL), 60 Hz (NTSC)
Dynamic Range	> 1000° C
Modes of Operation	ICE™ (Normal and Thousand Plus)
Field of View	54°
Focus Range	1.0 m to infinity

OPERATIONAL

Pushbutton Controls	Power, Image Capture / Transmitter (if fitted)
Readiness Time	< 10 seconds (nominal)
Image Optimisation	Automatic
Video Standard	PAL or NTSC: EU or USA TV standard compatible
Video Output	Composite 1.0 V, terminated into 75 Ω BNC
Temp. Measurement Range	0° C to 1000° C (Accurate to +/- 5° C (0° C to 100° C) and +/- 10% (100° C to 1000° C))
Temp. Meas. Spot Distance	480:1
Colourisation	ICE™ Enhanced Dual Transparent Colour
Temp. Scale Indicator	ICE™ indicator palette
Digital Image Capture	Saves 30 images to on board memory
Zoom Feature	x1, x2 and x4 magnification



For more
information
on the K1000 or
SD1000 please contact us:



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