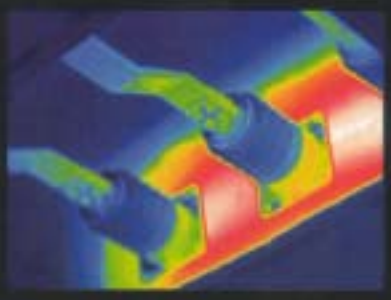
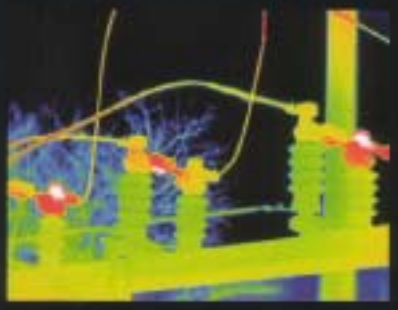


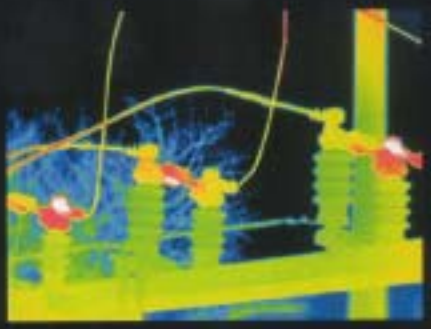
K6800™

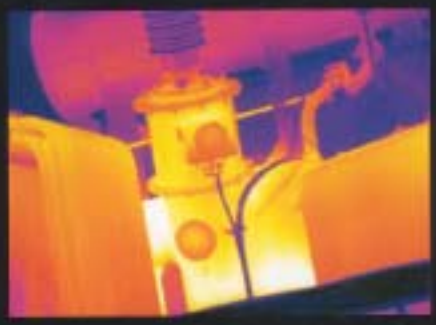
SPECTRA SCAN



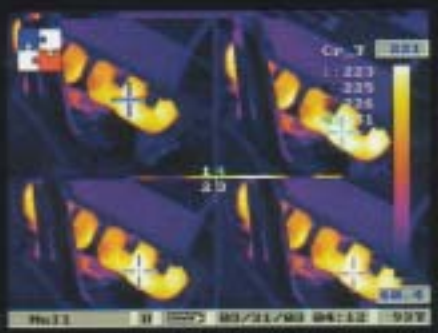
ISG
Thermal Systems Group

ISG Thermal Systems is an innovative leader in the design and development of electronic infrared camera engines and peripheral support systems. ISG offers the correct solution for your infrared imaging needs.

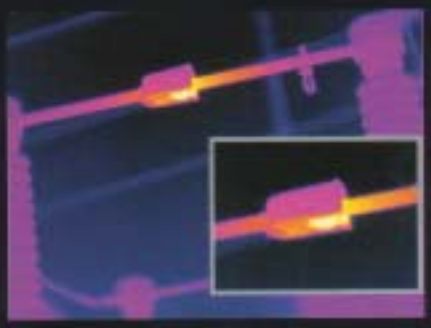




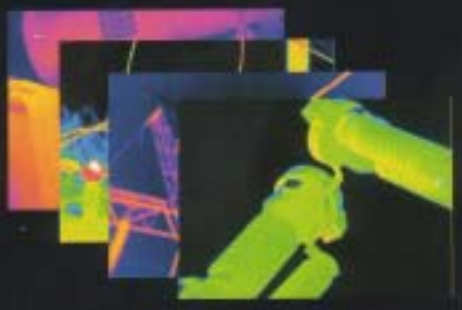
Temperature Measurement



In-Field Trending



8:1 Zoom



Digital Image Storage

Precision Direct Temperature Measurement

Four movable cursors provide accurate non-contact temperature measurement from -40°F to 3632°F (-40°C to 2000°C). Line profiling, area analysis, high or low temperature tracking, high or low temperature alarms, and isothermal analysis adds powerful utility to the K6800 SpectraScan.

On-Board Four Image Trending

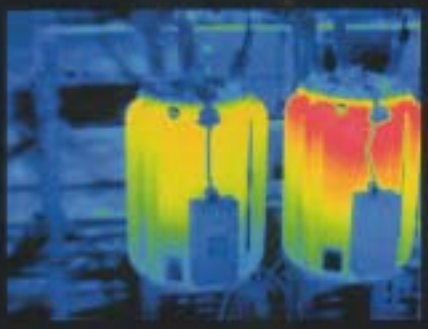
Exclusive real-time in-field trending makes image analysis easy to do, yet provides important and instant results. One push button action captures four images in sequence for precision radiometric temperature analysis on all images.

User Adjustable Incremental Zoom

Digital zoom capability is available in 80 individual settings ranging from 1:1 to 8:1, in 1/10 increments. All incremental zoom settings are spatially filtered to keep the image looking crisp and clear. The K6800 SpectraScan incorporates the industry's most powerful digital zoom feature available.

On-Board Digital Image and Voice Recording

Improve the efficiency of your thermographic surveys with fast image capture and voice recording. The K6800 is capable of storing 500 images with up to 16 seconds of embedded audio per image on convenient removable flash-memory cards.



K6800™ SPECTRA SCAN

Point & Shoot

Designed for ease of use, the K6800 SpectraScan offers one button auto-span and range which adjusts the image for optimum image definition and clarity. Thermographers can clearly identify potential problem areas while viewing images through the built-in high-resolution TFT viewfinder, or through an optional 3.5" TFT LCD panel. Single button freeze-frame and capture enables thermographers to preview images prior to storage to prevent repeat inspections to capture additional images.

Temperature Tracking

There is no need to manually adjust a single point movable temperature cursor with the K6800 SpectraScan as it can be set to auto-mode and the camera tracks the highest or lowest temperature in the scene automatically.

Uncooled Focal Plane Array Technology

State-of-the-art long wavelength uncooled microbolometer technology requires no cryogenic cooling for added reliability without sacrificing performance. High quality, precise temperature measurements, immune to solar reflections, make the K6800 SpectraScan ideal for most predictive maintenance applications.

Rugged Construction

Housed in an all-aluminum sealed case, the K6800 SpectraScan incorporates ISG Thermal Systems' unique expertise as the world leader in the design and manufacture of highly rugged firefighting infrared imaging equipment. The K6800 SpectraScan is capable of withstanding the harshest of environments and meets IP54 standards.

User Interface

The ergonomic design of the K6800 SpectraScan fits comfortably in one hand and requires no external power sources or cables for operation. The K6800 SpectraScan uses standard off the shelf, long-life, memory-free Li-ion batteries with an intelligent charging system to provide hours of use with each battery.

Superior Image Analysis and Report Generation

The K6800, in conjunction with ISG SpectraScan Analysis software, makes documenting results easier than ever before. Operating in fast-report mode allows the user, with a single mouse click, to transfer field data and images seamlessly into professional, comprehensive reports.

K6800 SpectraScan Standard Accessories

- (1) 128 Mega Byte ATA Memory Card
- (1) PC Card Adapter
- (2) Sony NP-F750 Li-ion Batteries
- (1) Battery Charger
- (1) Video Cable
- (1) Carrying Case
- (1) Comprehensive User Manual
- (1) Image Read Software
- (1) Shoulder Strap

K6800 SpectraScan Optional Accessories

- Remote View 3.5" TFT LCD panel with full remote control capabilities
- 3.5" TFT LCD panel
- High Temperature measurement Up to 3632°F (2000°C)
- Multiple lenses available
- USB Interface and software for remote camera control
- RS232C interface and software for remote camera control
- External AC power supply
- SpectraScan Analysis / report generation software

K6800™
SPECTRA SCAN

TECHNICAL SPECIFICATIONS

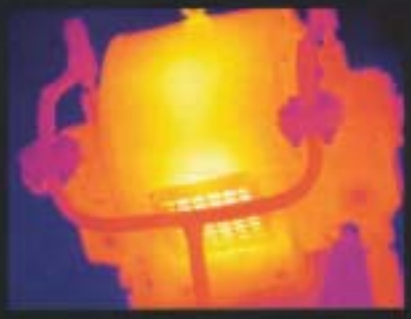


Image Performance

Lens:	50mm / 24°
Focus:	13" (330mm) to infinity
Spatial Resolution:	1.3 mrad
Image Sensitivity / NETD:	.06°C @ 30°C
Image Frame Rate:	60 Hz NTSC / 50 Hz PAL, non-interlaced
Detector Type:	Focal Plane Array(FPA) uncooled microbolometer 320 x 240 pixels
Fill Factor:	>80%
Spectral Band:	8 ~ 14 um
Image Zoom:	8X Incremental (with spatial filtering)

Image Presentation

B&W / Color Image:	Multiple palettes available
Auto Gain Control (AGC):	Automatic level, gain adjustment
Viewfinder:	Built in high-resolution TFT
Video Output:	RS-170 EIA/NTSC or CCIR/ PAL composite video

Measurement

Temperature Range:	Range 1: -40°F ~ 302°F (-40°C ~ 150°C) Range 2: 248°F ~ 1112°F (120°C ~ 600°C) Up to + 3632°F (2000°C), "Optional"
Accuracy:	± 2% or 2°C of reading
Atmospheric Transmission Correction:	Input correction for humidity, temperature, and measuring distance
Emissivity Setting:	Auto based on user input
Area Analysis:	Display max/min/avg temperature in an operator defined box
Peak Temperature Tracking:	On-screen cursor tracks highest or lowest temperature in scene
Isotherm:	Variable bandwidth and multi-color available
Temperature Span Setting:	Automatic / Manual (1/10° increment)
Temperature Range Setting:	Automatic / Manual (1/10° increment)
Measurement Modes:	Spot (up to 4), area, isotherm (up to 2), line profile
Alarms:	User defined upper or lower

Image Storage

File Format:	14-Bit radiometric IR digital image
Image Storage:	500 images / 128Mbyte flash card
Digital Voice Storage:	16 second voice clip stored with image

Environmental

Operating Temperature:	77°F ~ 122°F (-25°C ~ 50°C)
Storage Temperature:	-40°F ~ 138°F (-40°C ~ 70°C)
Humidity:	Operating and storage 10% to 95%, non-condensing
Enclosure / Protection:	IP 54 IEC60536-2
Shock Resilience:	20G
Vibration:	2G

Electrical

Power Requirements:	7.2V DC 5W "Typical"
Battery Operation:	150 Minutes (Li-ion Battery) "Typical"

Physical

Camera Weight:	3.85 Lbs. (1.75 KG), including battery
Enclosure / Protection:	IP 54 IEC 529 Housing
Tripod Mount:	1/4" - 20

Optional Features

Lenses:	7° FOV, 12° FOV, 45° FOV, 80° FOV Close focus 34 x 25mm @ 80mm distance to object Close focus 64 x 48mm @ 150mm distance to object
Lens Identification:	Automatic
External LCD:	Remote view 3.5" TFT LCD with camera control 3.5" TFT LCD Panel
Remote PC Control:	USB or RS-232C
Analysis Software:	ThermoRX image analysis / report generator software
External Power Supply:	90-240 VAC input 7.2 VDC output

ISG
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