KT-160
KT-160A
THERMAL IMAGER

InfraFusion

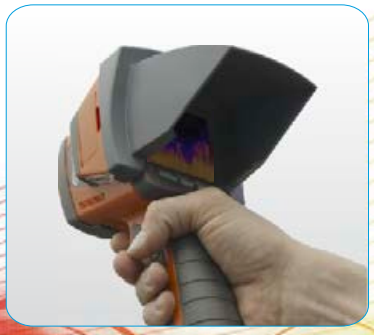
KT-160A
-20..+350°C

2m

IP 54

- A fully radiometric camera which records temperature at each point of the image
- Auto Focus (manual focus also available)
- Recording real image
- Recording in the extended jpg format (all data is included in the file but the image can be viewed as simple graphics)
- Infra Fusion technology – viewing a combined real and infrared image for effective locating of the measurement place
- Video PAL/NTSC output to connect an external display or a recording unit and perform monitoring in real time
- Simple and clear menu and programming in English and Spanish; easily navigable even for beginners
- Power supply: standard AA rechargeable cells or batteries, built-in charger
- Image refreshing rate: 50/60Hz
- Vibration and shock resistant – stable, sharp images without a tripod
- Recording of 1-minute voice comment for each image
- AGT – diaphragm and lens cover in one (protection + elimination of influence of lens self-heating)
- 8 colour palettes available
- Built-in laser sight
- 3.6” LCD display
- Large memory capacity (built-in memory + standard replaceable SD card) or a real-time transfer to a PC (USB) - unlimited recording capacity
- Water and dust proof casing (IP54); 2m drop resistant

High quality
thermography
for industry!



THERMAL IMAGER

KT-160
KT-160A

Index: WMPLKT160
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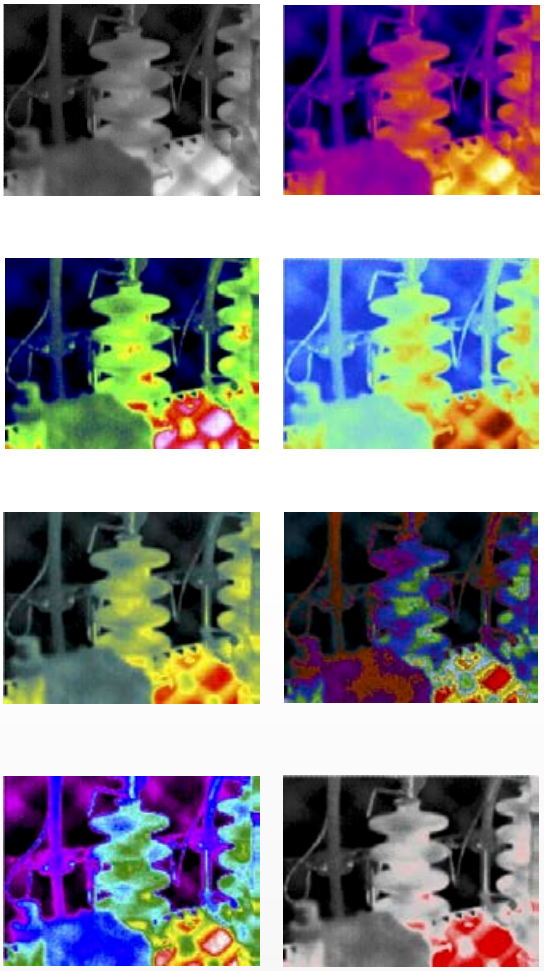
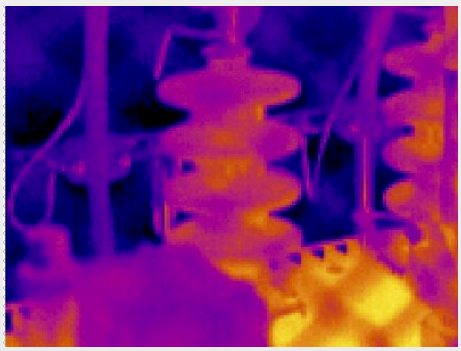
Technical specification		
	KT-160	KT-160A
Detector type	Non-cooled microbolometric matrix (160 x 120 pixel, 25µm)	
Spectral range	8-14µm	
Thermal sensitivity	≤0.1˚C at 30˚	
Field of view/ focus distance	20.6˚ x 15.5˚ / 11mm (standard lens)	
Focus	Automatic or manual	
Recording of visual images	CMOS sensor, 1600 x 1200 pixel, "true colours" mode (24-bit)	
External display	LCD TFT 3.6", high-resolution	
Video output	PAL/NTSC	
InfraFusion technology	Combining visual and IR image	
Temperature range	-20˚C do 250˚C	-20˚C do 350˚C
Accuracy	±2˚C or 2% reading	
Emissivity	Adjustable from 0.01 to 1.00 (with 0.01 increments) atmospheric transmission and outside optical conditions	
Measurement properties	Automatic correction for distance, relative humidity, atmospheric transmission and outside optical conditions	
Optical transmission correction	Automatic, based on signals from sensors	
Image storage	2 memory types: 2GB replaceable SD card and 150MB built-in memory	
File format	JPG with thermograph data, visual image of the recorded area and voice comment	
Voice comment	up to 60 sec	
Classification	A1 GaInP semiconductor, diode laser	
Power supply	AA rechargeable cells, AA alkaline batteries	
Charging	Built-in charger	
Battery operating time	More than 3 hours of continuous operation	
AC operation	AC adapter - 110/230 VAC, 50/60Hz	
Working temperature	-10˚C to 50˚C	
Storage temperature	-20˚C to 60˚C	
Humidity	Operating and storage: 10% do 95%, non-condensing	
Casing	IP54, IEC 529	
Shocks	Working: 25G, IEC 68-2-29	
Vibration	Working: 2G, IEC 68-2-6	
Communication	USB 2.0: transfer of image, measurement and voice to a PC; video image live transfer, video output	
Weight	0.73kg (with batteries)	
Dimensions	111mm x 124mm x 240mm	

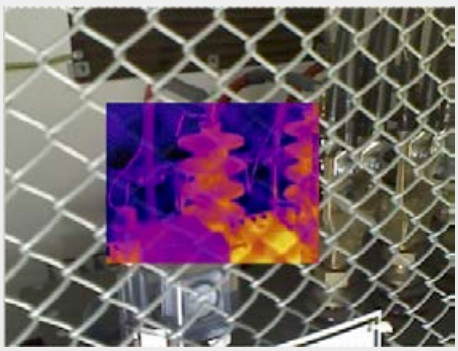


8 color palettes available

InfraFusion technology overlays
thermal image on the corresponding visual image.



THERMAL IMAGE



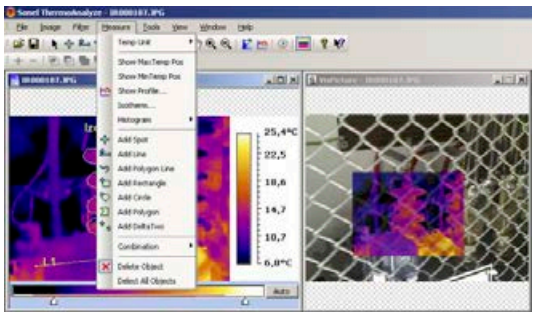
THERMAL IMAGE + REAL IMAGE

REAL IMAGE

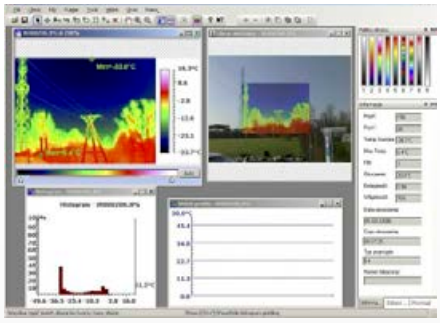
ANALYSE AND REPORT RESULTS

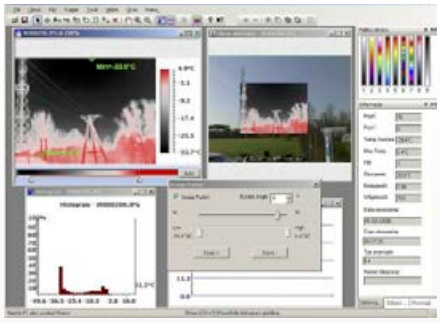
WITH THE ATTACHED SOFTWARE

Correct the emissivity for the whole or a part of the thermograph – emissivity can be corrected separately for each selected image area.
Selection of reviewed areas – select a rectangular or oval area or an area of any shape. Then you can select the joint part of selected areas, combine or cut the areas, and move their borders.
Read the temperature at any point – when the cursor is placed in the Information window, it displays continuously read temperature with current coordinates. Other saved information (maximum temperature, humidity, emissivity) is also available.

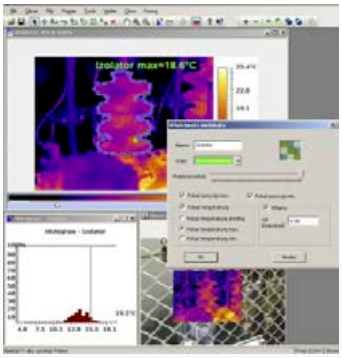


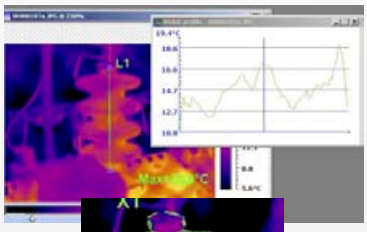
InfraFusion technology – thermograph is overlaid on a part of visual image, in a palette chosen by the user. The thermograph is overlaid with selected transparency for optimized presentation and marking of images, particularly when visual comparison of the area from the thermograph with the details on the visual image is difficult.

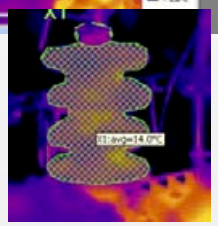




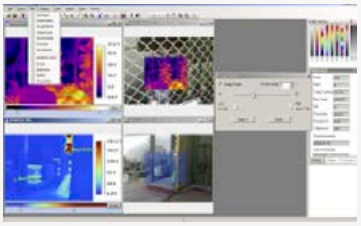
Automatic histograms for the whole image and each selected area; including graphic presentation of percent distribution of individual temperature ranges.



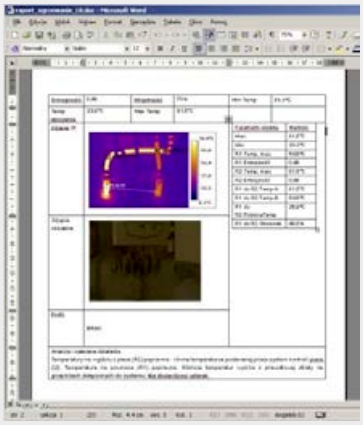




Determine and read the minimum, maximum and average temperature for the whole area or for each selected area. Select the section (straight o broken line) for which the averaged temperature can be determined and an automatic temperature distribution profile can be made.



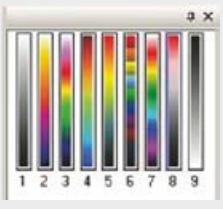
Sharpen, smooth, average, emphasize the edges of the object visible on the thermograph. Rotate or make a mirror image.

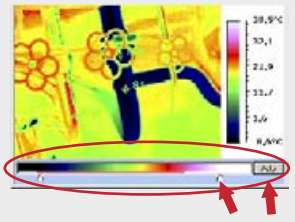


Create reports – also as an overlay for MS Word or Excel . Use the “drag and drop” method to transfer to the report all that you want to include in it: thermographs, corresponding visual images, analysis results for the whole or part of the image, histograms, etc.

Save all corrections and characteristic points for further review at a later time.

Select an optimum colour palette (from among 9 palettes available in the software) **for the best visual presentation of temperature changes.** Define the temperature range for the best presentation of the distribution (auto or manual mode).





ANALYSE AND REPORT RESULTS

WITH THE ATTACHED SOFTWARE

THERMO Analyze

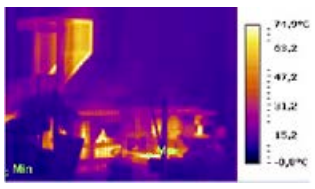
Real image

InfraFusion

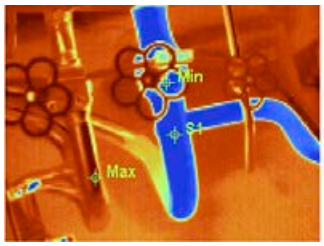
TRANSPARENCY 40%

InfraFusion

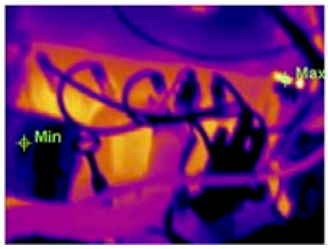
TRANSPARENCY 80%



Thermal image

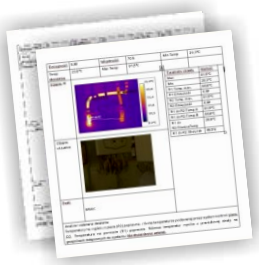


Unlimited applications **in many areas!**



MEASUREMENT

ANALYSIS



REPORT

The software licence is unlimited – you can use it on many computers simultaneously.

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