

# Thermal Imaging

Industrial inspection and non-destructive testing by visualisation of temperature distribution. Used in preventive/predictive maintenance with trend analysis, also in pre/post-outage and new-installation surveys.

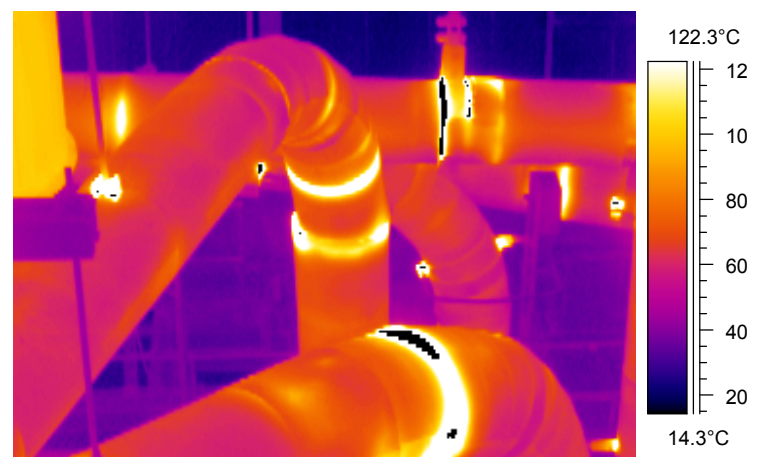
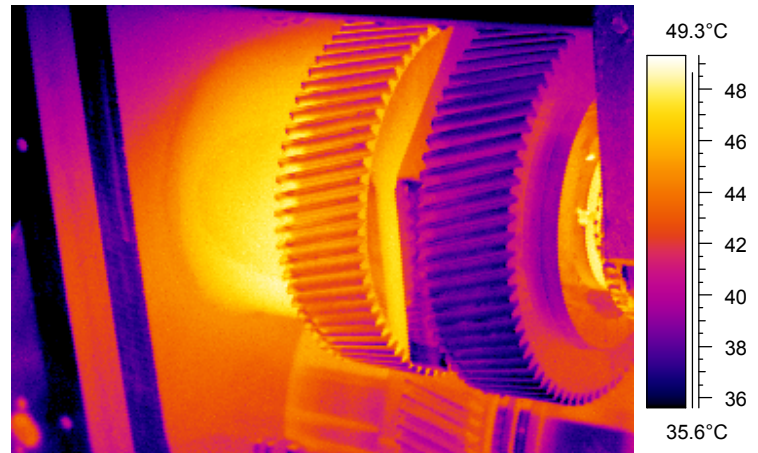
## Main Features

- Temperature ranges cover  $-10^{\circ}\text{C}$  to  $1500^{\circ}\text{C}$
- Accuracy better than  $\pm 2^{\circ}\text{C}$
- Resolution  $0.1^{\circ}\text{C}$  at  $30^{\circ}\text{C}$
- Manual/automatic level and span settings
- Emissivity/background/atmospheric transmission corrected
- High-resolution, colour, laser-printed reports with thermal/photographic images, tables and graphs
- Spot, area, profile and isotherm functions
- Maximum, minimum and average temperatures/differences



## Applications include

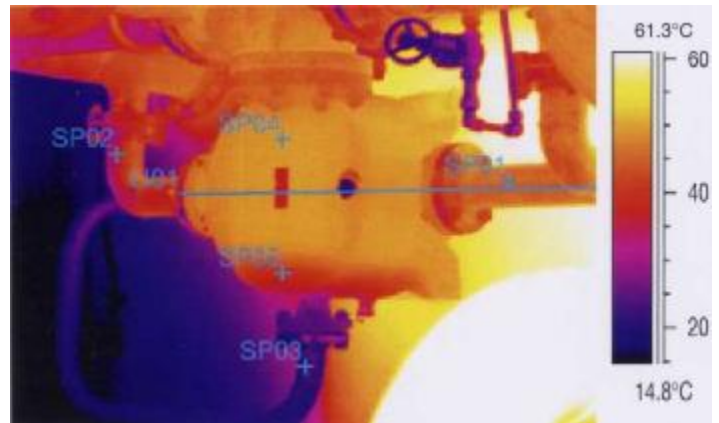
- Location of steam leaks under lagging
- Condition of lagging and thermal insulation
- Detection of breakdown in refractory linings
- Identification of passing valves, steam traps, etc.
- Location of furnace-tube hot-spots
- Monitoring of fluid levels in tanks and vessels
- Detection of overheating in bearings, gear-boxes etc.
- Location of hot-spots in electrical systems which include transformers, switch-gear, transmission-lines, bus-bars, circuit-breakers, fuses, cables, motors, generators, brush-gear, etc.
- Heat dissipation in printed-circuit boards and electronic equipment
- Energy audits and building diagnostics
- Scientific, archaeological and forensic applications
- Medical, veterinary and equestrian investigations
- Plus many others, limited only by the ingenuity of the user



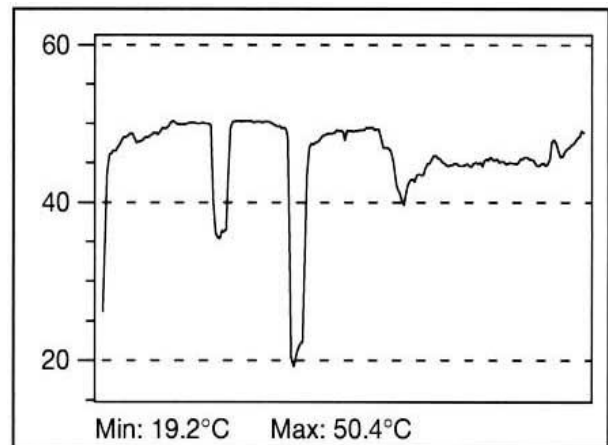
## Visual Image



## Thermal Image



## Graph along line L101



## Spot temperatures SP01-SP05 and max/ min/average along L101

Label	Temp
SP01	41.8°C
SP02	41.3°C
SP03	29.7°C
SP04	49.8°C
SP05	43.6°C

Label	Temp
L101: max	50.4°C
L102: min	19.2°C
L103: avg	45.9°C