

Thermal Imaging

Tech Asset Management engineers use high tech equipment to convert infra-red radiation into an image that can be seen and also quantified by the human eye.

Thermal imaging surveys can be used alone or as part of predictive maintenance system to help identify potential problems in electrical and mechanical equipment before they cause detrimental effect to their operation.

Electrical Equipment

Electrical equipment can emit excessive or abnormal heat in the event of:

- Excessive loading
- Loose or corroded terminals or connections
- High resistance joints in control panels and systems
- Overheating of electrical motors, brakes, transformers and other components
- High harmonic distortion to the electrical supply

Mechanical Equipment

Plant and machinery shows signs of heat in a number of situations:

- Excessive loading of electrical, pneumatic and hydraulic motors
- Worn or collapsed bearings and shafts on moving machinery
- Over-tightened, loose or miss-aligned drive belts and chains
- Pump impellor fatigue
- Filtration and ventilation blockages

Early diagnosis of the potential defects can prevent costly and unplanned down time of plant, equipment or supplies, and in the worst case prevent a source of ignition in the equipment.

“Surveys can be used both alone and as part of a predictive maintenance system to help identify overheating of electrical motors, brakes, transformers and other components.”



