

# Thermal Imaging

Ayjay Group can offer state of the art thermographic imaging reports to help monitor and diagnose the condition of your electrical installation which we recommend being carried out periodically. A thermographic inspection test will offer you visual proof of potential hotspots or overloads, allowing you to controllably counteract potential breakdowns before they occur.

## Why use Thermal Imaging?

Thermal imaging cameras help us accurately identify what our naked eyes cannot see. The use of thermal imagery can be used to identify defective or potential failures in electrical equipment without isolation before they become a risk of breakdown or worse, a fire.

Fires can have extreme consequences not only to the destruction of goods and machinery but the immense costs in production time, water damage and even loss of human life.

Thermal inspections can quickly locate hot spots, determine the severity of the problem, and help establish the time frame in which the equipment should be repaired. Examples of failures that can be detected with thermal imaging are;

- High resistance connections
- Internal fuse damage
- Internal circuit breaker faults
- Overloaded cables
- Excessive heat loads



Equipment  
Protection



Thermal Imaging  
Survey



Reduced Risk of  
Damage and Fire



## Do I need a Thermal Imagery survey?

The 'Electricity at Work Regulations' of 1989 requests a "duty of care" on landlords and employers to maintain electrical systems to prevent danger along with licensing authorities, insurance companies and commercial mortgage lenders all now requesting up to date compliant copies of this report for guarantee and cover.

## Surveys are non-intrusive...

A thermographic survey is a great way to identify electrical issues without causing any disruption to business operations. If an issue is identified as a result of the thermal survey, intrusive maintenance can then be planned effectively.

## When testing electrical installations, we can offer tests on:

- Switchgear and switchboards
- Busbar terminations
- Cable conductor temperatures
- Distribution boards
- Control panels and components
- Transformers
- Motors
- Specific equipment (e.g. compressors etc...)

Ayjay Group will also investigate and cross reference our findings with previous reports to help foresee a deflection rate of equipment, even though it's still in designed parameters.

## We also do...

Ayjay Group also offer this thermographic imagery testing to be bolted on to our EICR/emergency lighting reports for a minimal additional cost which can be carried out at the same time reducing costs to the customer.

## Cold storage

Our thermal imaging camera will also identify cold air leakage from your cold room/freezer which could be costing you additional running costs within your cold storage facility.

For further information, contact one of our team to discuss.

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