

Thermography Guide

What is Thermography?

Thermography is a non-contact thermal imaging technique used to detect hidden electrical and mechanical faults by measuring temperature variations. It helps prevent breakdowns, fires, and costly downtime.

Why Thermography Matters

- Detects overheating before failure happens
- Identifies loose connections, insulation damage & weak components
- Enhances operational safety & maintenance planning

What You'll Learn in This Guide

Thermal Imaging Basics

- How infrared technology works
- Understanding emissivity & heat patterns

Equipment Selection

- Choosing the right camera for industrial applications
- Key parameters like resolution, temperature range & focus systems

Inspection Scope

- Electrical systems: LT/HT panels, breakers, UPS & cables
- Mechanical components: bearings, motors, conveyor systems
- Solar plants, transformers & distribution networks

Image Interpretation

- Hotspot diagnosis
- Severity rating & risk categorization
- Reporting standards & corrective actions

Compliance & Best Practices

- Safety precautions during audits
- Frequency of thermography inspections
- Documentation & certification requirements

Who Should Use This Guide?

- Plant Managers
- Facility Engineers
- Maintenance Teams
- Safety/Compliance Officers

Download this guide and empower your team to catch failures before they happen.