

INFRARED THERMOGRAPHY

Infrared thermography has become a vital ingredient of today's industrial maintenance reliability programs. From electrical systems to building efficiencies, this proven PDM technology has consistently identified potential problems. These problems, if left uncorrected, can lead to catastrophic failures that could result in equipment damage, loss of production and even personal injury. The IMT division of IBT Inc. has certified technicians and state-of-the-art Thermal Imaging Equipment that can identify these problems before they cause devastation to your equipment, your personnel, or your bottom line.

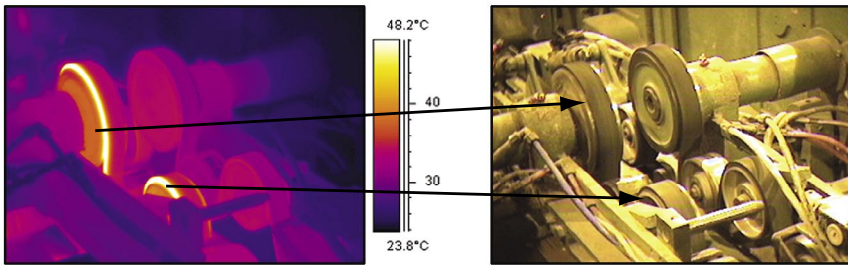
Infrared energy is invisible to the human eye. Thermal Imaging Equipment is necessary to detect and measure the infrared emissions. Most electrical and mechanical components get hot before they fail. The measure of overall temperature and, more important at times, the measure of the temperature difference between components can warn of a developing problem.

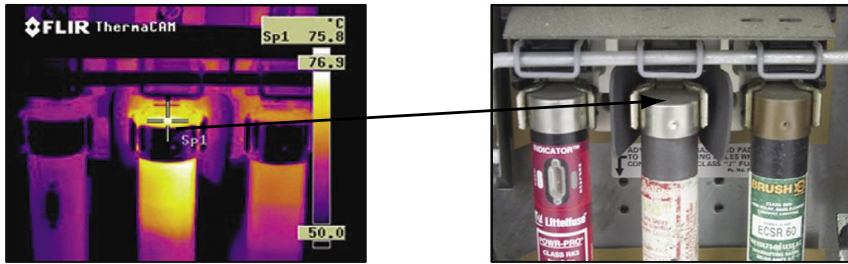
- ▲ **More productive use of maintenance crews and production equipment by scheduling repairs instead of fighting emergency breakdown repairs.**
- ▲ **Energy savings through furnace/boiler efficiencies, poor electrical connections and building efficiencies.**
- ▲ **Personal safety from the prevention of fires and catastrophic failures.**
- ▲ **Insurance companies recognize the safety benefits to personnel and facilities by requiring Infrared Inspections. Many insurance companies offer lower premiums when Infrared Scanning is conducted.**

- Electrical Switch Gear, Breakers, And Bus Bars**
- Transformer Connections**
- Mechanical Couplings On Rotating Equipment**
- Process Piping And Heat Exchangers**
- Motor And Generator Connections, And Windings**
- Bearings**
- Friction In Drive Gears And Drive Belts**
- Refractory Systems (e.g., boilers, kilns)**
- Steam Traps And Piping Insulation**
- Tank Levels And Insulation Problems**
- Industrial / Commercial Freezers**



**Industrial Maintenance
Technologies Division**

Date	Location	Equipment	Technician
2-18-04	Un-named Plant	High Speed Drive	John
			
<p>Problem: V-Belt pulleys show excessive heating.</p> <p>Recommendations: Inspect belt and pulleys, check alignment and ensure tension is correct.</p>			
Ambient Temperature		67° F	
Emissivity		0.98	

Date	Location	Equipment	Technician
2-21-03	Un-named Plant	Fused Disconnect	John
			
<p>Problem: Center phase, line side showing excessive heating compared to adjacent phases.</p> <p>Recommendations: Disassemble, clean, dress all points, reassemble and set torque to specifications.</p>			
Ambient Temperature		67° F	
Emissivity		0.95	

If you would like additional information on any of our Industrial Maintenance Technologies Services, or to schedule service, contact your local IBT Branch Service Center or call IBT toll-free at 1-800-332-2114.

