

## JC Termografia RD- FAQ's

- 1) How does thermography save me money?
  - A) Thermography saves you money by analyzing and detecting possible faults before they occur, thus saving the high costs of replacement after failure as well as lost revenue due to facility outages.
- 2) Is the process difficult?
  - A) No – A licensed electrician (myself) with 25+ years of experience will come and accompanied by your maintenance personnel will remove panel covers and scan equipment, no shutdown of equipment should be necessary.
- 3) Is the thermal scan the solution for all electrical problems?
  - A) No – A thermal scan is used to detect heat anomalies, the scan in conjunction with voltage and current measurement form the quantitative part of the assessment. Other items such as age, visual inspection and inspectors' prior knowledge form the qualitative part of the assessment.
- 4) Is an Infra-red scan expensive?
  - A) The cost for a full infra-red analysis depends on how many items you wish to scan. The report for Playa Laguna was approximately 12 hours to scan, analyze data and write report, cost would be ~\$1500 USD, the report for Super 8 in Canada was 8 hours and cost would be ~\$1000CDN.
- 5) Are your rates expensive?
- 6) No – typically in Canada or North America thermographic companies charge \$200/hour. Why are your rates so low?
  - A) JC Termografia RD has low overhead and the rates were selected for the country/economy that we are operating in. Typically \$150CDN per hour in Canada and \$75USD per hour in Dominican Republic. Call for a quote and to discuss rates.
- 7) Can motor/pump bearing failure be detected before failure occurs?
  - A) Yes - Most electrical or mechanical parts that are damaged or ready to fail will generate heat. The camera will detect this heat and show it in graphic form. This graphic form once analyzed will show a possible lubrication problem or mechanical component in early stage of deterioration.
- 8) Can water leaks in walls and ceilings be detected?
  - A) Yes – usually water intrusion in walls and ceilings will appear as colder areas. Once detected the area will be scanned with the FLIR-MR265 and exact % of moisture can be determined.
- 9) Can pool leaks be detected?
  - A) Yes – the area that is leaking into the ground will appear cooler than the other surrounding areas.
- 10) Can a thermal analysis help in reducing my air conditioning costs?
  - A) Yes – Air conditioning typically accounts for 60% of a facility's electrical bill. By scanning individual rooms, heat ingress can be detected. Once you know where the heat is entering then usually there are some easy insulation/sealing fixes that will reduce AC loss.
- 11) Is a yearly thermal scan required?
  - A) Not necessarily, a yearly rescan may be required if you are tracking bearing component failures, rescan to verify electrical fixes, rescan to verify AC fixes, pools scan as necessary if you believe there is a leak.
- 12) Can a thermal scan save my computer server / switch equipment from failure?
  - A) Yes – By scanning computer server racks, ambient overtemperatures can be detected, computer/switch fan failures detected, unusually hot / overloaded power supplies can be detected.
- 13) Can a thermal scan save me from a facility wide power outage?
  - A) Possibly, by scanning the main incoming power system and transformers and associated switchgear, it is possible to detect electrical hotspots which might fail and have facility wide power loss implications.