



Electronic Environments—Your 24x7 Maintenance Experts

# Infrared Thermography

for Your Mission-Critical Facility

## Electronic Environments Capabilities:

### Data Center Energy Efficiency & Cooling Solutions

- Server Room Cooling
- Humidification
- Monitoring
- Maintenance Tuning

### Design, Engineering & Construction Services

- Design / Build
- Installation
- Power & Cooling Assessments
- Computational Fluid Dynamics (CFD)
- Infrared Thermography

### Site Services

- Preventive Maintenance
- Emergency Service
- Predictive Maintenance
- Web-based Asset Management

## Predictive Maintenance on your Critical Support Infrastructure

The electrical switchgear, UPS (uninterruptible power supply), ATS (automatic transfer switches), server systems and cooling systems must be checked with infrared thermography to detect irregularities that cannot be seen with the naked eye. Detecting irregularities in your data center's critical support infrastructure in the early stages ensures prompt corrective action before costly system failures can occur.

With predictive maintenance comes early detection allowing you to prevent equipment failure and unplanned shutdowns that can be damaging to your company.

## Benefits of Infrared Thermography

- Identify & correct hidden problems before they become unplanned outages
- Reduce risk of undetected degradation of components due to overloaded circuits or loose connections
- Cost savings obtained by preventing equipment failures and down time
- Can also be used to help identify mechanical issues such as hot spots
- Inspection and analysis by highly trained and certified professionals

## Critical electrical components that should be analyzed:

- Electrical switchgear
- Uninterruptible power supply (UPS)
- UPS distribution panels
- Power distribution units
- Automatic transfer switches



The above image is an Infrared Scan showing a loose electrical connection

Your data center or server room requires 100% uptime. To achieve this, it is essential that thermal imaging be performed on all electrical and mechanical systems in conjunction with other best practice maintenance programs.

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