



IR Thermography

Eliminate the risk of your data center downtime and safety with Compu Dynamics' Infrared Thermography services.

Two top priorities for every data center are sustaining uninterrupted uptime for their customers and ensuring the safety of their employees. Successfully meeting those goals requires regular inspection and scanning of hot spots and malfunctions in the data center's electrical and mechanical equipment. IR Thermography can help you prevent equipment failures, serious safety hazards, and costly downtime.

Benefits of IR Thermography



Regular IR scanning identifies equipment deficiencies early, allowing for repairs before issues escalate into failures or malfunctions.



Detecting heat resistance helps prevent dangerous situations like arc flashes, protecting employees from life-threatening hazards.



The National Fire Protection Association (NFPA) mandated annual IR scans for electrical maintenance, ensuring compliance and safety.



It's not just for legacy infrastructure. Even brand-new equipment should be immediately scanned to identify defects or issues stemming from the manufacturer or the installation process.

What is IR Thermography?

Infrared (IR) Thermography is a technology used to capture the heat emitted by objects or surfaces. This technology translates thermal energy into visible light, enabling the observation and analysis of temperature variations. Data center operators and owners use IR Thermography to monitor and analyze resistance and heat buildup within electrical equipment, to ensure efficient and safe operations.

IR scanning should be conducted by professionals with specialized knowledge and training in thermal imaging, diagnostic techniques, and analyzing capabilities by interpreting the data they collect.




Benefits of working with Compu Dynamics

Our certified thermographers and electrical engineers are equipped with the latest tools and extensive experience to conduct thorough IR scans.

- ✓ **End-to-End Project Management:** Scheduling and performing the IR scan during peak load without service interruption gives you the most accurate insights. Our trained project managers ensure a seamless execution of the project.
- ✓ **Infrared and Standard Photographs:** In addition to infrared photographs, our team provides standard photos of equipment scanned, so that the maintenance personnel can see system conditions in the IR spectrum and what the human eye can see.
- ✓ **Comprehensive Reporting:** Every IR thermography customer receives a detailed feedback report outlining every piece of equipment evaluated and maintenance recommendations.
- ✓ **Peace of Mind:** Customers always have the option to have Compu Dynamics remediate any problems discovered during the inspection.
- ✓ **Safety and Compliance:** Our services help you meet NFPA standards and maintain a safe working environment.
- ✓ **Proactive Maintenance and Cost Savings:** Including Compu Dynamics' IR Scanning in your maintenance plans ensures your systems remain in peak operating condition and helps early detection of issues preventing operational disruptions and revenue loss.

During our infrared (IR) scanning in a data center or commercial building, several key issues and anomalies are typically examined, including:

- Overloaded circuit breakers
- Loose connections
- Hot spots inside the equipment
- Potential fire or shock hazards to personnel
- Air leaks in mechanical systems
- Bearings and motors in air handlers
- Temperature variations
- And many more



Ensure the reliability and safety of your data center with Compu Dynamics' IR Thermography services. Contact us today to schedule a consultation and learn more about how we can help you maximize efficiency and minimize downtime.