Safely Obtain Thermal Images of Power Distribution Systems
With INSIGHT IR™

INSIGHT IR™ Provides Early Detection of Thermal Issues

Infrared scanning is a predictive maintenance procedure used to identify areas in power distribution equipment that emit excessive amounts of heat. Higher-than-normal rises in temperature can indicate a potential problem, such as a loose connection. If a problematic area is detected early, repairs can be made on equipment before the problem leads to downtime.

INSIGHT IR™ is a thermal monitoring system for LayerZero Power Systems products, designed to continuously monitor the temperatures of critical components. INSIGHT IR™ captures data from a network of fixed infrared cameras, and constantly analyzes the data to look for abnormal changes in thermal conditions.

Benefits of LayerZero INSIGHT IR™

• Generates live thermal images

• Continuously analyzes temperature

• Isolates image regions into "hot zones"

• Displays temperatures on a timeline

• Saves heatmaps as JPG files

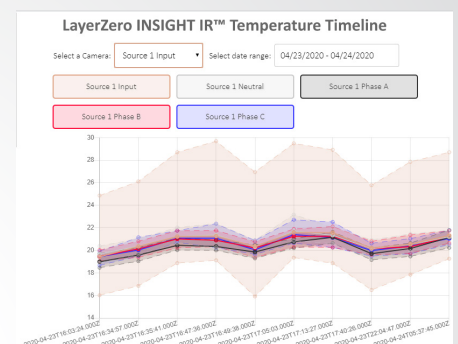• Reduces reoccurring preventive

  maintenance costs

Areas of the INSIGHT IR™ heatmap can be isolated into "hot zones", such as individual phases. Isolating temperatures makes it easier to identify the specific location of potential problems. INSIGHT IR™ blends a heatmap with a visible image, and provides image processing features such as custom colors, temperature overlays, and animated heatmaps. INSIGHT IR™ is accessible from the local display or remotely with a web browser.

Generated images can be stored and organized in an internal filesystem. Alarms utilize standard, non-proprietary MODBUS/TCP protocols. INSIGHT IR™ supports up to 16 cameras.

INSIGHT IR™ is designed to address the limitations with hand-held thermal scanning, as well as lower the cost of PMs for critical facilities. LayerZero INSIGHT IR™ is a remotely-accessible IR scanning system that continuously monitors power distribution equipment for thermal problems, and is compatible with all LayerZero Power Systems products.

INSIGHT IR™ generates a hybrid
heatmap over a visible image

INSIGHT IR™ plots temperature data
on a graph, filtered by phase

INSIGHT IR™ Supports Up To 16 Cameras

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