

Enhancing Reliability in Energy Transmission and Distribution

INDUSTRY

Energy Transmission & Distribution

SOLUTION

Advanced Energy ThermalSpection 724

EQUIPMENT

Substation asset monitoring and control equipment

CHALLENGE

A customer wanted to enhance substation reliability and safety by identifying potential faults before they led to outages, hazards, or equipment damage. They required an automated monitoring system capable of providing continuous, remote fault detection.

SOLUTION

Advanced Energy provided the ThermalSpection 724 system, a state-of-the-art thermal imaging camera solution designed to monitor substation equipment around the clock. Unlike conventional manual monitoring methods, this system offers automated detection, allowing real-time monitoring and prompt response to potential issues.

The ThermalSpection 724 provided:

- Thermal and visual image capture with automated continuous monitoring
- Early and remote fault detection and alarm generation
- Proprietary LumaSpec™ RT software that supports up to 24 unique cameras
- Ongoing support from Advanced Energy's extensive network throughout the entire evaluation, purchasing, and installation process



RESULTS

The ThermalSpection 724 solution delivered measurable ROI, providing value even beyond the customer's initial requirements.

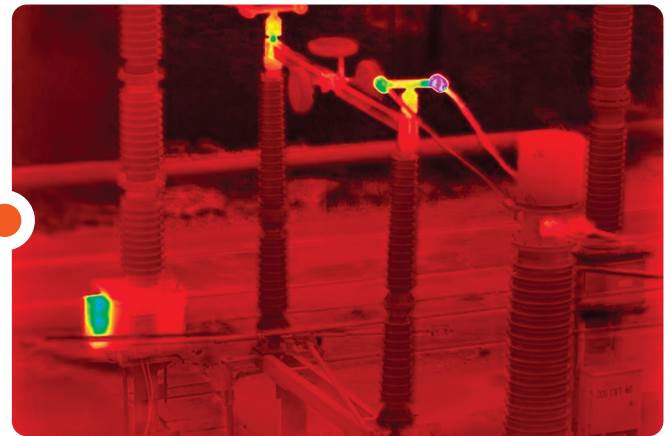
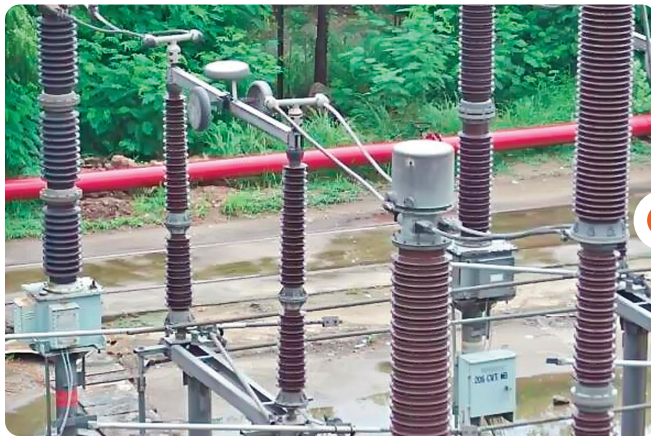
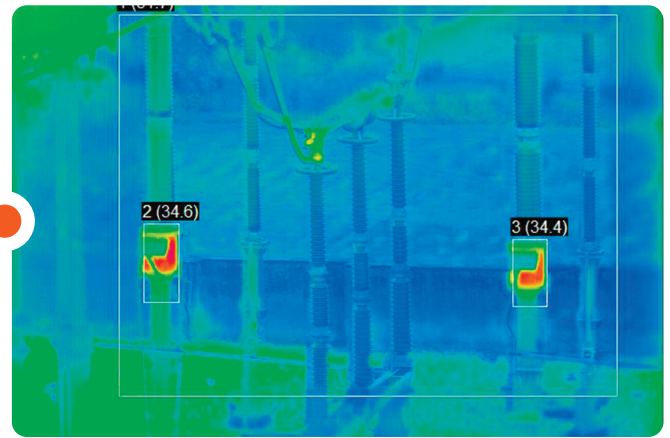
Continuous, remote, multi-camera monitoring:

- Provided a higher degree of certainty than conventional manual methods
- Reduced the need for on-site inspections while delivering more detailed insights

In addition, early fault detection and automated alarms:

- Improved safety
- Reduced downtime and maintenance costs

The ThermalSpection 724 solution, with the powerful LumaSpec RT software, allows comprehensive substation monitoring from a single point and provides real-time thermal and visual imaging with advanced data analysis for deeper operational insight.



Real-time visual and IR views enhance object detection and clarity in complex scenes.



For international contact information, visit advancedenergy.com.

powersales@aei.com
productsupport.ep@aei.com
+1 888 412 7832

PRECISION | POWER | PERFORMANCE | TRUST

Specifications are subject to change without notice. Not responsible for errors or omissions.
©2026 Advanced Energy Industries, Inc. All rights reserved. Advanced Energy and AE are U.S. trademarks of Advanced Energy Industries, Inc.