

How To Get the Most Out of Infrared Inspection

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Thermal Imaging: 12 Steps Toward Better Electrical Inspection

If you're having unscheduled electrical outages for any reason, the chances are good that you need to look at how to improve your infrared inspection program. Thermal imaging is much less about what kind of infrared camera you use than it is about using the infrared camera you have well. Here are twelve steps, some simple and others less so, that will help improve the results you are getting from this remarkable technology.



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Secrets to an Effective Infrared Condition Monitoring Program: IR Routes

It is widely acknowledged that the most efficient infrared condition monitoring program is one that has a strong foundation of well designed and thoughtfully constructed routes. The key to success in your unique environment is to understand the six generic types of routes used by thermographers and where they can be applied.



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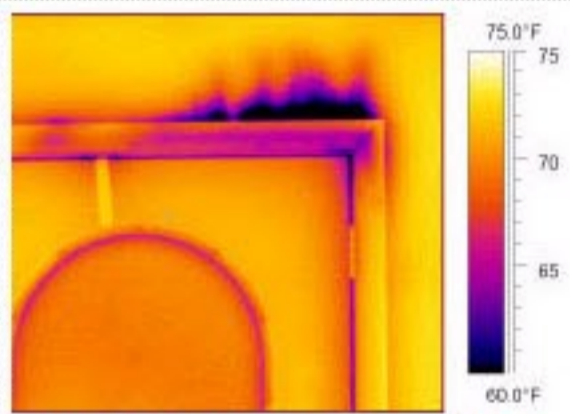


Improved Safety During Infrared Inspections of Electrical Equipment

There are 5-10 serious arc flash incidents every day in North America. These incidents result in approximately 2000 workers being treated in burn centers annually. It is estimated that arc flash incidents cost organizations hundreds of millions of dollars. Updated just this year, NFPA 70E now includes specific references to thermal imaging and makes a number of important clarifications on electrical safety.



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Testing Building Envelope Systems Using Infrared Thermal Imaging

This paper discusses the numerous applications for thermal imaging technology currently being used to inspect building envelopes. These include validation of structural details, verification of energy performance (conduction and air leakage), location of moisture intrusion, and the identification of structural and system degradation of roofs and facades. Examples will be given for each application and the basic conditions required will be discussed.

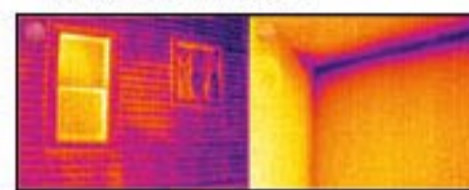


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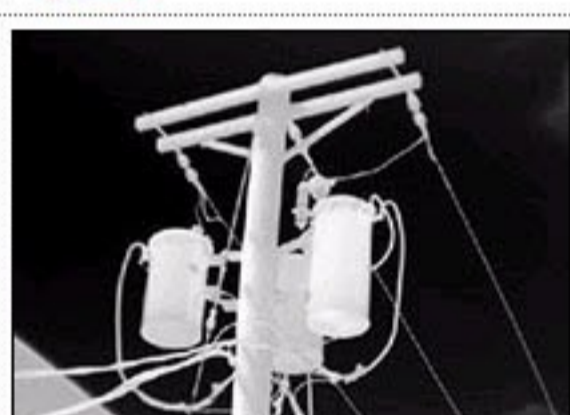
Locating Levels in Tanks and Silos Using Infrared Thermal Imaging

Infrared thermal imaging is a powerful tool for locating and verifying levels in tanks and silos. When properly used, thermal imaging can reveal not only the liquid/gas interface, but also sludge buildup and floating materials such as waxes and foams. Similar techniques can be used to locate levels and bridging problems in silos containing fluidized solids.

This paper discusses the parameters and limitations that must be addressed, shows techniques that can be employed, and illustrates the discussions with numerous thermal images.



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Understanding Infrared Camera Thermal Image Quality

You've no doubt purchased a digital camera sometime over the past few years to replace your old film camera. Often thermal camera brochures offer list specification that you, as a user, may never be able to confirm or even understand.

This paper's objective is to help you simplify your understanding of how image quality is determined. Covered are three topics that directly influence thermal image quality: pixel resolution, thermal sensitivity, and non-uniformity correction. A number of related topics are discussed as well.



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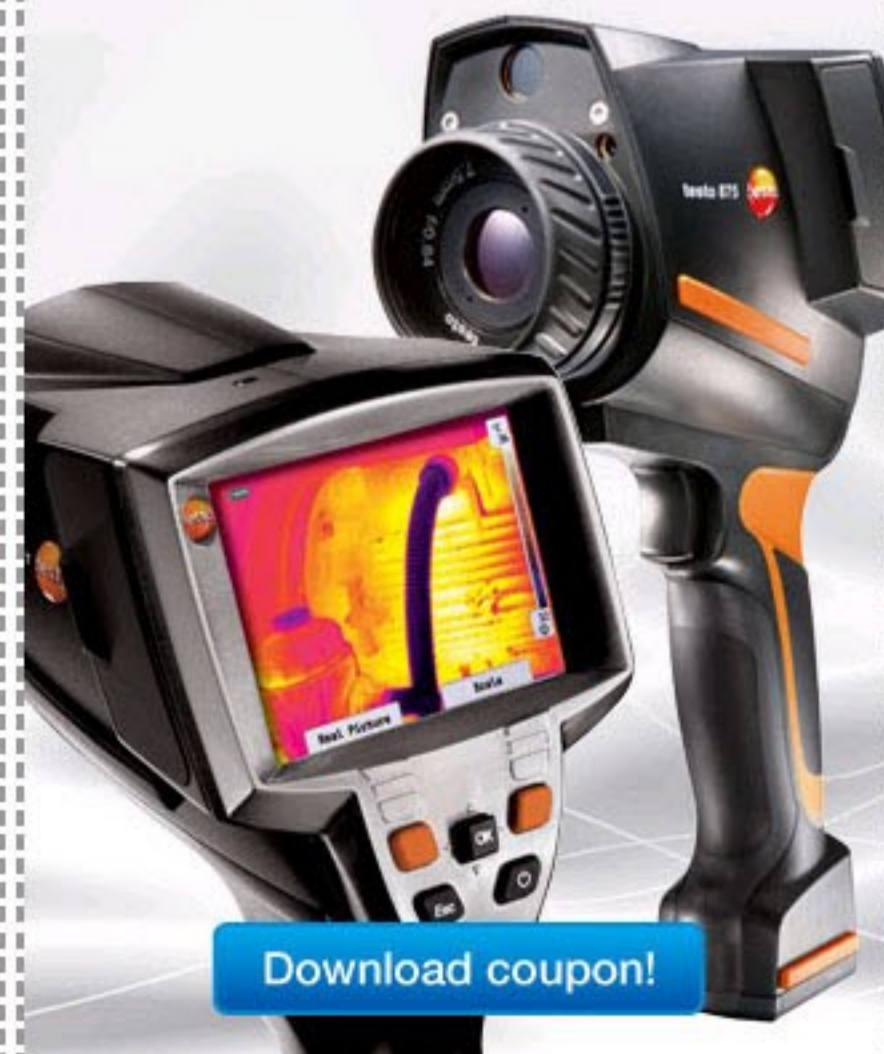
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