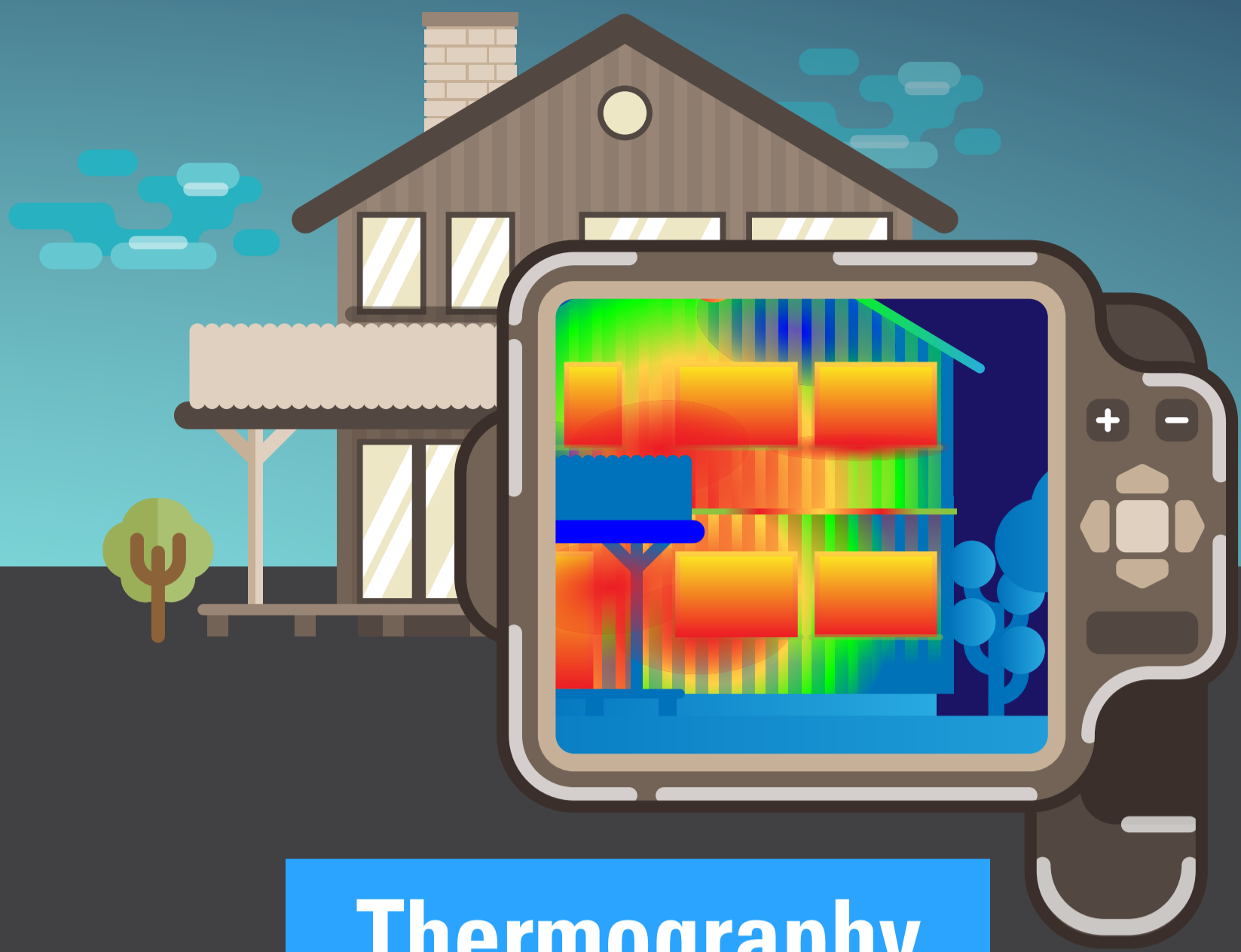


RISKY BUSINESS

What You Need To Know About...



Thermography

Thermography measures the energy or heat of an object by using an infrared camera. All objects including electrical equipment give off infrared energy. The higher an object's temperature, the more infrared energy it gives off. Excessive heat differentials within electrical components indicate problems within the equipment.

Thermography is a practical way to detect problems at critical points in a building's electrical distribution system that can lead to an electrical fault and fire event, so that they can be corrected before a loss occurs.

EMERGING TRENDS:

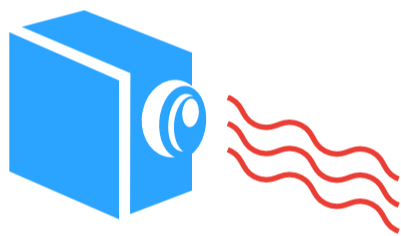


The infrared imaging market is expected to **grow by 7.78 percent** over the next five years.¹

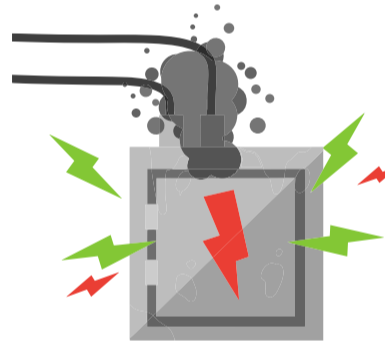


The U.S. accounted for the **largest share** of the infrared imaging market in 2019.²

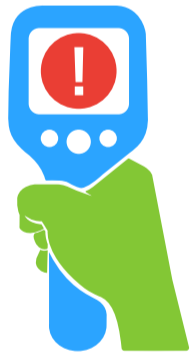
FACTS:



The first practical use of infrared technology was in 1929.³

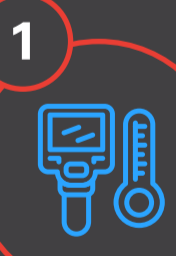


A single electrical fault can mean an average repair or replacement cost of \$3,000, including components and labor.⁴

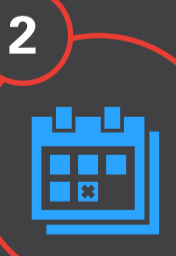


The average cost for an infrared scan, analysis and report is \$1,000 to \$1,200 per day. A qualified technician is required to remove/replace the electrical panel covers before and after the infrared scan.⁵

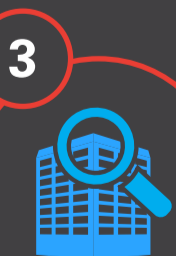
IMPACT ON EQUIPMENT BREAKDOWN:



Infrared thermography is a form of predictive maintenance, meaning that problems are identified before they become larger and more difficult to manage. Predictive maintenance eliminates breakdowns by 70 to 75 percent.⁶



The National Fire Protection Association (NFPA) 70B §11.17.5 suggests that every commercial and industrial building in the U.S. should have an infrared survey at least once a year.⁷



Infrared surveys can mitigate most electrical hazards within a buildings electrical system, when problems are identified, corrected and a scan is carried out at the recommended intervals.

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References

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⁵ <http://hgi-fire.com/blog/fire-prevention-through-infrared-scan-of-electrical-equipment/>

⁶ <https://www.coleparmer.com/tech-article/applying-infrared-thermography-to-predictive-maintenance>

⁷ <https://www.infraredimaging.com/electrical-infrared/>