

What is an Infrared Scan?

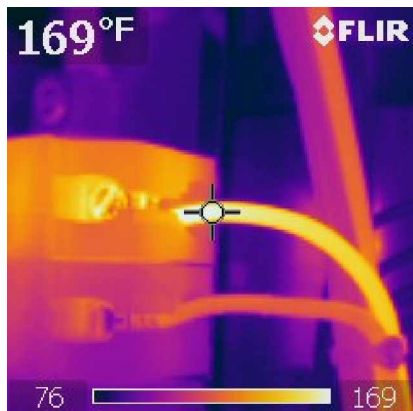
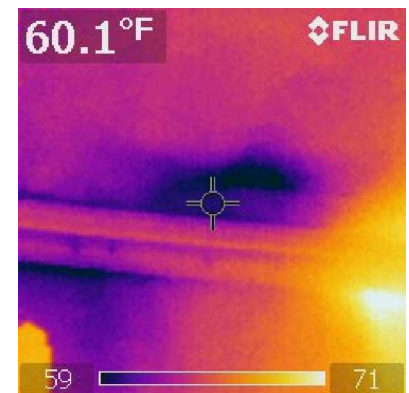
In a nutshell, an infrared scan detects the infrared radiation emitted by objects. All objects emit some level of infrared radiation. Those infrared waves are displayed as different colors in an image. The higher the object's temperature, the greater the IR radiation emitted. Our infrared camera allows us to see heat radiation and thus warm and cold as colors.

Infrared cameras have been around for several years and are used frequently by the military and industries where temperatures have to be monitored from a distance such as Jet Fighters and Electrical transformers. Since infrared energy cannot be detected by the human eye, infrared cameras are used today. Recent developments in the technology have made them feasible for use in the home inspection and energy evaluation business.



Ok, it's cool, but why might I need an infrared scan of my home or business?

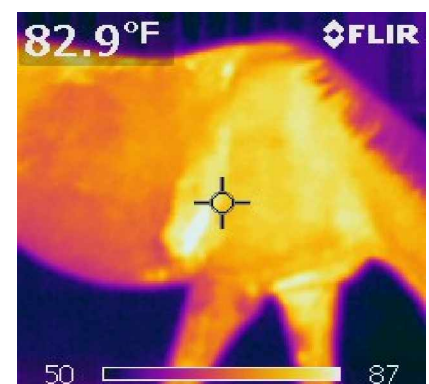
- Often an infrared scan coupled with a moisture meter, can **solve moisture problems** that may be hidden behind walls, floors or ceilings, allowing us to not only evaluate the full extent of the problem, but locate the source of the problem.
- We can **save you money** by detecting **missing insulation** in walls and ceilings like the dark areas in the image pictured on the first page. In this case, $\frac{3}{4}$ of the ceiling had no insulation and there was no access from the attic. Our diagnosis was confirmed when a contractor was called in to open up the knee wall upstairs for a better look.
- Infrared scans are done routinely when we do an energy audit that includes blower door testing. The infrared camera **shows air leakage** through some often unexpected places. Sealing up the easy to get at



- and very large air leaks can **save hundreds of dollars a year on your heating and cooling cost and increase comfort.**
- **Electrical problems** can be found before system failure and **prevent fires.** In more than a few homes we have detected overheating electrical components before they catch fire. Electrical components often look fine even when overheated to the naked eye and cannot be touched without danger of electrocution.
- Does the under slab radiant heat system work or leak. We can **save time** by, in minutes we can determine weather a problem exists and if so exactly where without invasive

investigation costing hundreds or thousands of dollars.

- We have used the infrared camera to **help your pets** by finding problems in pets such as sore legs, infected ears and saddle sores in horses.
- Through the use of an infrared camera we **can find leakage** areas and damage in EIFS exterior wall systems and large flat roofs that previously would have cost thousands of dollars to find and give you **piece of mind** that the correct areas have been addressed.
- An infrared scan can show the exact location of the leaky duct in the basement ceiling hidden by drywall or the blockage in the radiator pipe. **Non-invasive testing keeps clients happy and homes clean.**





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- Under the right conditions structural elements of a home can be evaluated and repairs designed even though they may be hidden under drywall or plaster **preventing a catastrophe**. In one case a main beam was improperly located over a poorly framed window. The only visible evidence of the problem was a cracked window in the top sash that had been replaced two times previously.

ProTec Inspection Services Inc. provides a broad range of infrared and inspection services including:

- **Home Inspections**
- **Infrared Testing**
- **Partial Inspections**
- **Radon Testing**
- **Energy Audits**
- **Commercial Inspections**
- **Mold Testing**
- **Blower Door Testing**
- **Lead Testing**

We offer a 100% guarantee on all of our services. If you are not completely satisfied when we are finished with the inspection, then you don't pay. In addition, on any full home inspection we offer a free 90 day warranty, phone consultation for life and seasonal reminders sent via email about maintenance tips, access to our contractor referral list and recommendations for your home in years to come.

I invite you to call us at **301 972-8531** for information and pricing or visit our website for more information on our services and answer any questions you may have.
We can be found at www.protec-inspections.com

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