

WHY USE INFRARED?

A picture says a thousand words; infrared thermography is the only diagnostic technology that lets you instantly visualize and verify thermal performance. Infrared cameras show you thermal problems, quantify them with precise non-contact temperature measurement, and document them automatically in seconds with professional easy-to-create IR reports.

Infrared Inspections can help reduce/eliminate:

- High Energy Bills - often high utility bills can be traced to air leaks, inefficient windows, missing insulation, inefficient cooling/heating equipment, and/or poorly insulated ducts.
- Mold & Mildew - High humidity and water damage can lead to mold and/or mildew resulting in wood rot, various structure damage and health problems
- Dust - Poorly sealed duct work can result in high levels of dust.
- Cold or Hot Rooms - differences in temperature from room to room can signify inadequate insulation, air leaks, and/or poor duct insulation.
- Medical costs by reducing indoor allergens, dust, mold, mildew, and pests. This in turn can increase productivity.
- Energy efficient buildings reduce our reliance on foreign natural gas and other fuels, while saving money and promoting local economic growth.

Our trained technicians can then examine these images and determine what areas of the house look unusually warm or cold. The technician can also find gaps in duct insulation, inefficient equipment or windows, and other problems which also contribute to high heating and cooling costs.

Homeowners with any interest in increasing the comfort of their homes, decreasing their bills, and reducing their energy consumption should certainly consider having an infrared camera technician look for insulation voids in their home. This non-invasive, quick and accurate inspection is the best way to find gaps in insulation, so that they can be repaired and improve the quality of life for the home's occupants.

Whether you are concerned about high utility bills, having trouble heating or cooling a room or a complete building, or just want to do your part in reducing your carbon footprint then please call **Illini Home Improvements** at **(217) 352-9770** to perform an assessment on your home or business. Infrared thermal inspections have assisted many residents to help achieve lower utility bills and see what they could never see before!



Sources Of Air Leaks In Your Home

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|-------------------|-----------------------------|------------------------|----------------|
| ▪ Dropped Ceiling | ▪ Water and Furnace Flues | ▪ Door & Window Frames | ▪ Vents & Fans |
| ▪ Recessed Light | ▪ Electrical Outlets | ▪ All Ducts | ▪ Rim Joists |
| ▪ Attic Entrance | ▪ Electrical Switches | ▪ Baseboards | ▪ Porch Roofs |
| ▪ Sill Plates | ▪ Plumbing & Utility Access | ▪ Chimney Flashing | ▪ Common Walls |

Air leakage occurs when outside air enters and conditioned air leaves your house uncontrollably through cracks and openings. It is unwise to rely on air leakage for ventilation. During cold or windy weather, too much air may enter the house. When it's warmer and less windy, not enough air may enter, which can result in poor indoor air quality. Air leakage also contributes to moisture & mold problems that can affect occupants' health and the structure's durability. An added benefit is that sealing cracks and openings reduces drafts and cold spots, improving comfort.

We also offer a comprehensive home energy audit, which we use to fully diagnose the causes of your home's energy issues.