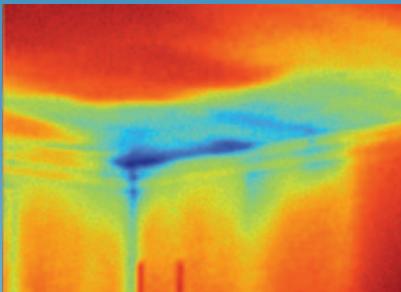


# Energy auditing and weatherization done right!

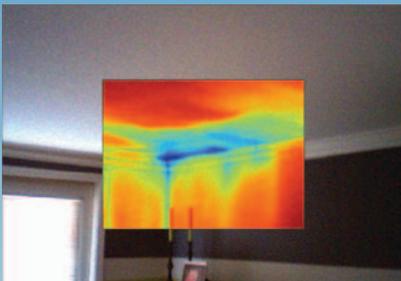


Before I purchased my Fluke thermal imager, I used the same sluggish smoke stick many auditors use. I would spend hours searching both high and low. Now with my Fluke thermal imager, I can perform a higher quality audit four times faster than I could before.

—Brent Foster, Residential Energy Auditor, Northwest Infrared LLC



A traditional infrared image highlights the problem but provides no reference to the problem location.



Picture-in-Picture, an IR-Fusion viewing mode, allows for quick and easy location of issues after an audit is complete.



Designed, manufactured and tested in the USA



## Save time and money

Locating air leaks and inadequate or damaged insulation is difficult; it's also very time consuming. Identify the exact location of problem areas quickly and easily with Fluke thermal imaging. See more, do more...in less time. Time is money!

## Keep ahead of your competition

Become a leader in the latest energy auditing technology. Where traditional tools fall short, thermal imagers provide a fast and accurate way to find problems.

- Blower doors measure the air tightness of a structure, but not the location of unwanted air flow
- Smoke pens can provide an approximate air leak location, but findings are extremely hard to document
- Pressure measurement tools (manometers) display the severity of air leaks, but require destructive drilling and probing

## Documenting and reporting made easy

When it comes to reporting, a picture is worth a thousand words—an infrared image is worth even more. A Fluke thermal imager's ability to identify and document problems is unmatched.

## IR-Fusion®

One of the most valuable features of Fluke thermal imaging is its patented IR-Fusion Technology. The combination of a visual image with an infrared image enhances identification, analysis, and reporting. By incorporating the visual reference image, clients and/or contractors tasked with making repairs can easily re-locate problems after an audit is complete. With IR-Fusion, there is no mistaking the location of a problem.

Don't be fooled by imitators. Patented IR-Fusion is the only solution with physical parallax correction, enabling the perfect alignment and blending of both infrared and visible images. Without perfect alignment of the images, problems can be missed or misdiagnosed. While many manufacturers have attempted to duplicate Fluke IR-Fusion, none have been able to match it.



## SmartView® Software

Everything you need for analysis and reporting.

- Extensive annotation, editing, and viewing options with full IR-Fusion capabilities
- 3D-IR™ delivers unique three-dimensional analysis capabilities
- Multiple reporting options and templates

## Ensure repairs are done right

The power of a Fluke thermal imager doesn't stop after it has located problems. Successful repairs can be validated by performing follow-up inspections. True professionals can increase customer value by providing peace-of-mind.



## Quick Tips: Performing successful weatherization audits

- 1. Understand building construction:** Knowledge of building methods and materials is critical. Infrared audits are best performed by someone that understands how buildings work and how they are built.
- 2. Ensure adequate temperature difference:** Successful infrared audits start with sufficient "Delta T", or temperature difference, from the inside to the outside of a structure (the larger the difference, the better).
- 3. Master your thermal imager:** The better you understand the operation of your thermal imager, the faster you can work and the more effective you will be.
- 4. Use a blower door:** By forcing a pressure differential with a blower door, an auditor can enhance thermal signatures and perform scans with minimal Delta T.

### Training and other resources

For training on energy auditing and weatherization with thermal imagers, visit [www.fluke.com/titraining](http://www.fluke.com/titraining) for webinars, hands-on seminars and application notes.

#### Webinars:

*Energy Auditing and Weatherization with Thermal Imagers (free)*

*Introduction to Thermography (free)*

#### Live training:

*IR for Weatherization and Energy Audits, The Snell Group,*

[www.thesnellgroup.com](http://www.thesnellgroup.com)



### Industry associations and standards:

RESNET – [www.natresnet.org](http://www.natresnet.org)

BPI – [www.bpi.org](http://www.bpi.org)

DOE – [www.energysavers.gov](http://www.energysavers.gov)

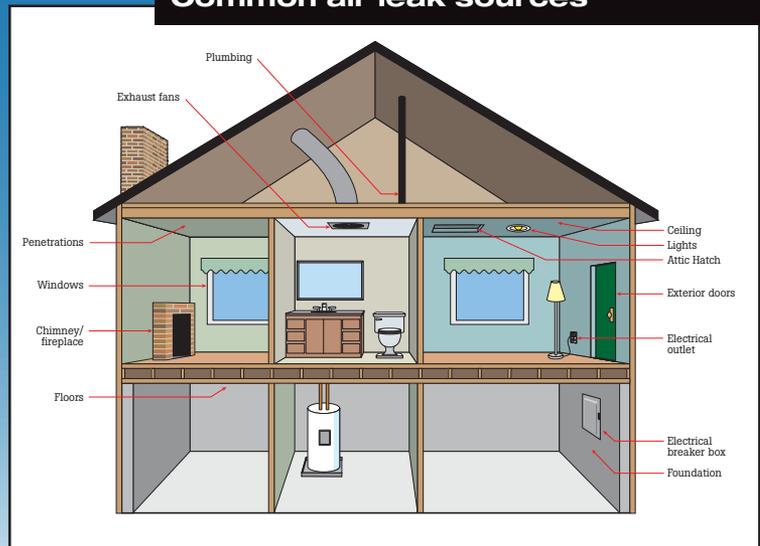
ASTM C1060 – Practice for Thermographic Inspection of Insulation Installations in Envelope Cavities of Frame Buildings.

ASTM E1186 – Air Leak Site Detection in Building Envelopes and Air Barrier Systems.

ISO 6781 – Thermal insulation, qualitative detection of thermal irregularities in building envelopes, Infrared Method.

ASTM C1153 – Standard Practice for the Location of Wet Insulation in Roofing Systems using Infrared Imaging.

### Common air leak sources



### FREE energy auditing and weatherization poster

To get your FREE energy auditing and weatherization poster featuring both residential and commercial applications go to [www.fluke.com/wxposter](http://www.fluke.com/wxposter)