

Infrared Cameras Can See It

Infrared cameras can provide valuable information not detectable with the naked eye. Many problems show uncharacteristic thermal signatures before actual failure occurs. Here are some examples below:

Building Energy Loss

Energy loss in residential, commercial, and essential facilities can be substantial and can go undetected for years, robbing the owners and polluting the environment. Infrared cameras find energy seeping out of buildings in locations that would otherwise be unknown. When areas of high energy loss are discovered, measures can be taken to repair the problem and reduce energy usage. Without infrared technology, determining what areas of a building are most responsible for energy loss would be an expensive and time intensive process. Infrared technology can read between the lines, and get to the bottom of your energy loss quickly. **FDJ Engineering** can provide building energy audit services



Idaho State Capitol Building Infrared Image Taken by FDJ Engineering

Building Water Infiltration

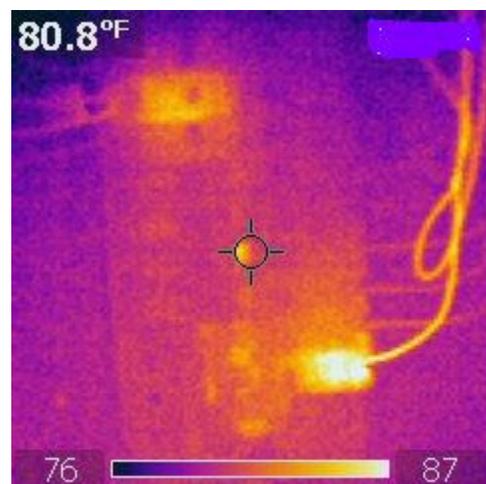
Water has unique properties that allow it to retain and lose heat at a different rate than common building materials. The absorption of water into building materials changes heat transfer properties. These properties allow infrared cameras to detect potential areas of water leaks in buildings, which can otherwise be difficult to find, and require significant destructive testing. In many situations, water leaks can hide behind walls, roofs, and floor cavities causing extensive damage. Infrared cameras can also assist with not only finding areas of water damage, but finding the source. The infrared image on the right shows water damage below a defective window. **FDJ Engineering** can provide water infiltration inspection services.



Infrared Image Water Leak below Window

Electrical Equipment Inspection

Infrared cameras can detect problems with electrical equipment before they become major issues. Equipment heat signatures can provide valuable information in determining potential failure areas. The infrared image on the right shows some breakers inside an electrical panel with high heat signatures, indicating possible breaker failure or equipment overload condition. Finding hot spots with Infrared cameras is the pro-active method of maintenance to prevent failures and potential catastrophes before they occur. **FDJ Engineering** can provide electrical equipment infrared inspection services.



Infrared Electrical Panel

The samples of infrared cameras given above are just the “tip of the ice berg” when it comes to infrared camera capabilities. **FDJ Engineering and Construction, PC** has two FLIR Infrared cameras, the B-CAM and P660. We also have years of experience in Forensic Engineering and Construction. Check out our website (www.fdjengr.com) for more information about how we can assist you with your particular needs or call our office at 208-368-0045.