

Aerial inspection of heat loss from buildings

What is Roofscan?

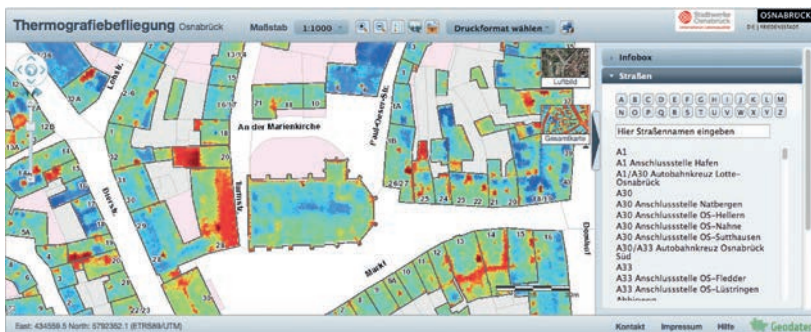
Roofscan inspects heat loss from houses and other buildings. Roofscan visualises rooftop energy loss using aerial thermal imagery. Temperature differences can indicate energy loss through a roof. When combined with regular aerial photography and building outlines, Roofscan gives a clear, detailed image of heat loss at an individual building level. Roofscan allows building owners to take action, thus saving energy and reducing fuel bills. Roofscan can be used by energy suppliers and also by local governments and housing corporations to prioritize building upgrades.

How does Roofscan work?



Roofscan uses a professional thermal infrared camera to make the level of radiation emitted by houses visible, so that temperature variations at roof level can be determined with great accuracy. By mounting the camera vertically in an airplane, thermal imagery is captured whilst flying. All the individual images combined form a thermal map of the entire surveyed city. Roofscan is best performed in the wintertime, after sunset, when the differences between indoor and outdoor temperatures result in the best image quality.

What does Roofscan look like?



Roofscan Osnabrück - interactive online access [source: geo.osnabrueck.de/thermal/]

How reliable is Roofscan?

Roofscan has been developed in the Netherlands by Miramap and was first used in 2008, for the City of Nijmegen. Since then, several large projects have been successfully performed and delivered, including Amsterdam, London and Osnabrück.

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