



Aerial Photography for Roof Conditioning & Building Data Collection

Roof conditioning & building data collection.

Commission Air have been commercial photographers for 30 years specialising in providing very hi-resolution digital images, and have carried out thousands of condition surveys across the country for clients from the private and public sectors. Of particular note are:

Warwickshire County Council	190 sites
Oxfordshire County Council	520 sites
Education Funding Agency	9200 sites
Hertfordshire County Council	510 sites



Hertfordshire County Council

“ The photographs are of such high quality that we can zoom in, for example, to individual roof tiles and see the cracks in the paving slabs. ”

This document looks at the uses of aerial photography for aerial roof condition surveying but we also offer hi-resolution aerial photography for marketing and many other applications.

Current Surveying Process

The conventional way to conduct a survey is to send a surveyor on site, but gaining access to roofs is problematic. This is therefore both costly and time consuming. There are also health and safety issues to take into consideration.

To get the full benefit, the survey will also be largely dependent on how the surveyor records and interprets the information that has been gathered. The surveyor could take photographs but it is unlikely they could capture the entire roof and only selected areas will be captured. This can result in areas being missed which could have significant consequences.

Our Process – Surveying

Commission Air's aerial surveying service has proved to have many advantages over the conventional process and also significantly reduces the number of site visits required.

The survey is conducted from our helicopter using a high resolution camera which provides images of exceptional detail. In order to ensure entire coverage of the roof area we take photographs from all angles together with images of the side of the buildings which can also be used to provide additional asset data such as the condition of walls and windows.

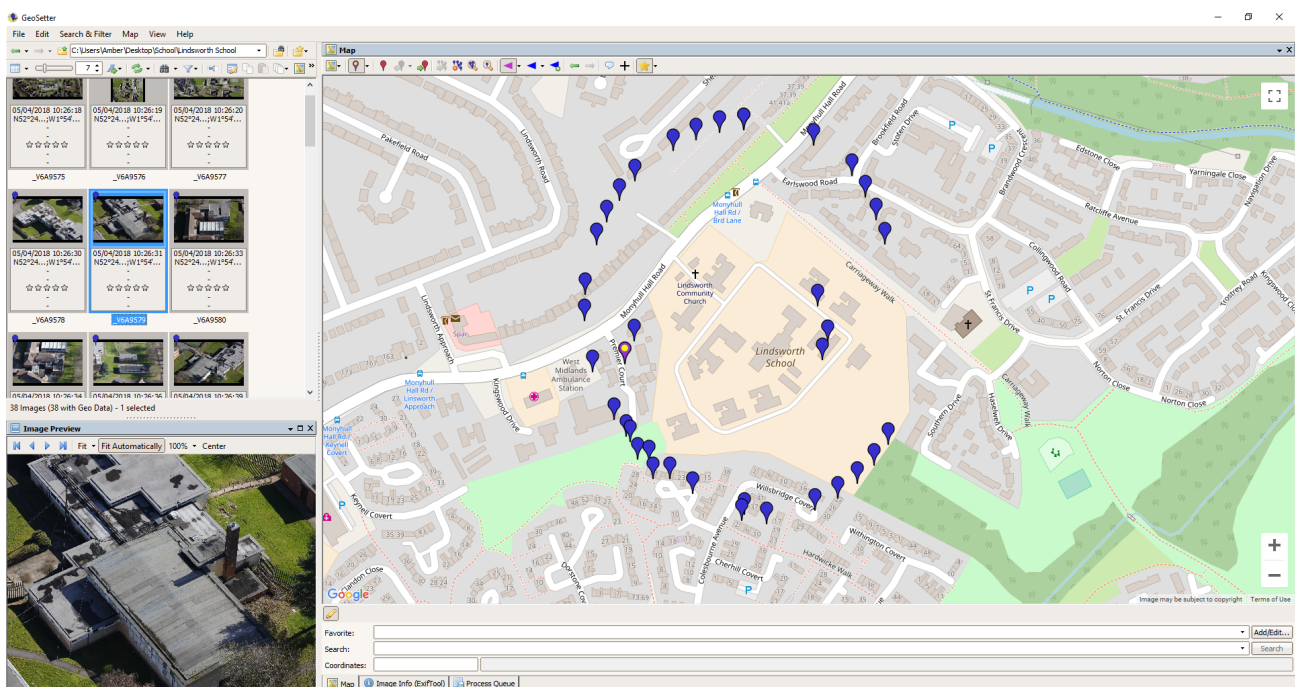
After conducting an aerial survey all the images are quality controlled and are provided in a digital format so the data can be stored centrally or on individual devices. This combined with the level of detail contained in the images means a detailed assessment can then be made remotely from any location to identify areas such as; broken tiles, damaged flashing and assess the overall condition without visiting the site. This means you can then prioritise the sites and only need to send a surveyor or a maintenance team to the sites that require attention.

Example images



Analysing the Data

As the data is held digitally it also provides a permanent record for future reviews and assessments. All images contain GPS positioning which can be used to show from what position the image was taken and give a good understanding of the site even when the site has not been visited. The data can also be used to map the sites which help in planning, implementing and managing a maintenance programme particularly where there are sites in multiple locations. See below a screenshot of the program we use to map image positions.



The benefits of Aerial Surveying

- ✓ Reduces the number of site visits reducing labour costs, travel costs and CO2 footprint
- ✓ Minimises health & safety issues
- ✓ Captures the entire site and removes the risk of missing problem areas
- ✓ Using helicopters enables us to photograph a significant number of sites
- ✓ Integrated GPS data allows for easy identification and location of sites
- ✓ Images can be accessed anywhere and anytime
- ✓ Aerial images capture a significant amount of information that can be used for other applications
- ✓ A permanent record allows for future reviews without visiting the site
- ✓ Provides highly cost effective way to grade roofs & compile building asset information

Summary

Aerial Surveying is far more efficient than traditional surveying methods in reducing timescales and saving man hours. The ability to survey multiple sites in a day using our helicopter means prices can be as low as £135. It therefore provides a highly cost effective way to manage and maintain all types of buildings and property. Contact us on 01778 344782 to see how you could benefit.

Commission Air

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