

UAV HELP HISTORICAL HUNT CASE STUDY

Burghley Manor 1st to be surveyed with the new eBee UAS

Unmanned aerial surveying is becoming big business. The latest development sees the 'eBee' land on British shores being operated by KaarbonTech, an aerial surveying company. They are the first company to get the approval from the Civil Aviation Authority to fly this commercially.

The Civil Aviation Authority (CAA) implements a strict permissions system before allowing companies to operate in the UK. All pilots must pass flight tests to CAA standards and companies must have an approved operating manual showing how they complete surveys safely.

Burghley Manor is one of the largest and grandest houses of the first Elizabethan Age. Built and mostly designed by William Cecil, Lord High Treasurer to Queen Elizabeth I, between 1555 and 1587.

Mark Entwistle explains "We can provide a quality output with the eBee. The 12 square KM survey at Burghley Manor is a difficult site so well suited to this UAS. The improved imagery resolution gives our clients crystal clear orthomosaics as well as an accurate DEM. (Digital Elevation Model)"

The eBee, from Sensefly has a 16MP camera so it can shoot aerial imagery at down to 3cm/pixel resolution. The images can then be used to create maps and elevation models with a precision of 5cm.

Its aerodynamic profile allows cruising speeds of 36-57km/h (10-16m/s). The eBee can resist winds of up to 45km/h (12m/s) increasing the survey success rate in British weather.

KaarbonTech already provide aerial surveying across the UK using the Swinglet UAS, another Sensefly plane. They also process all their data in house to produce topographical maps, digital elevation models, volumetric measurements and orthomosaics for the complete service.



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