

Aerial Solution for Geo-referenced Orthomosaics and DEM



Lehmann Aviation, manufacturer of professional micro civil drones, has announced a new aerial solution for geo-referenced orthomosaics and DEM: the LA300 fully automatic personal drone which is now working with the GoPro Hero3+ camera, in addition to the Nokia Lumia 1020.

In 2013 Lehmann Aviation launched LA300, a fully automatic personal drone working with the Nokia Lumia 1020 and designed for mapping and DEM. The last months' flight tests have proven compatibility of the GoPro Hero3+ camera (in addition to the Nokia Lumia 1020 41MP camera) with the LA300 for orthomosaics and DEM which makes the drone a very suitable, professional, rugged solution for mapping and surveying.

How it works

LA300 is a fully automatic, professional UAV designed for most accurate mapping and surveying. To obtain the geo-referenced orthomosaics or DEM, the user has to perform 3 simple steps ([watch the video here](#)):

Step 1: Download the free Lehmann Aviation software - OperationCenter - to any Windows8 Tablet, Windows Phone 8 or PC.

Step 2: Make the flight path by simply «drawing» on a touchscreen Windows8 device the area of interest (on the map) and entering the waypoints. The software will then automatically generate the mission.

Step 3: Transmit the data to the drone by Wi-Fi, launch it by hand and wait until the aerial robot comes back (to any chosen point) with HD images or video on the SD card.

Step 4: Use OperationCenter to geotag each image after the flight (with LAT/LONG/ALT/YAW/PITCH/ROLL information).

The pictures then can be processed in the most popular orthomosaic/DEM software to generate professional orthomosaics and 3D models.

The drone flies at a range of up to 15 km, at speeds of 20-80 km/h. It is also done to be flown in harsh environments, between -25°C up to +60°C (-13°F up to 140°F), with winds up to 35 km/h (20kt). The LA300 weights 950 grams (including Nokia Lumia 1020 or GoPro Hero3+ camera), with a wingspan of 92cm and a length of 45cm. The drone is launched by hand and needs just few metres of space to land.