

CHC Navigation Introduces New UAV-Lidar Combination



CHC Navigation (CHCNAV) has launched its new multi-rotor BB4 drone and AlphaUni 300/900/1300 Lidar. The groundbreaking combination of the AlphaUni 300/900/1300 Lidar and BB4 UAV solutions creates one of the most comprehensive and versatile ranges for 3D mapping and geospatial data acquisition in land, air and marine applications.

"The purchase of a 3D mobile mapping system is too often constrained to a specific purpose, such as airborne or ground survey. A lot of our customers expressed the need to have a professional Lidar solution that can be used in different scenarios, offering optimal adaptability to their current and future needs," said George Zhao, CEO of [CHC Navigation](#).

"With our AlphaUni series, we are now introducing an innovative response with a multi-platform Lidar system that can be used with an aerial or marine drone, on a vehicle or

carried as a backpack. In addition, the long flight autonomy of our new BB4 UAV allows missions over large areas in a single flight for exceptional productivity".

Variety of platforms

The [new AlphaUni series](#) enhances CHCNAV's Alpha Mobile Mapping family with one of the lightest and most versatile long-range laser scanner systems available on the high-end market. The series provides optimized data sets powered by advanced GNSS/INS sensors and long-range RIEGL scanners. AlphaUni's design adapts to a variety of applications and can be installed on a variety of platforms, including multi-rotor UAV, fixed-wing VTOL UAV, vehicles, rail trolleys, backpacks, boats, and more.

The BB4 UAV is a high-end multi-rotor drone optimized for the CHCNAV AlphaUni 300/900/1300 Lidar series. Its exclusive modular design simplifies deployment in a few minutes. Its 7kg payload breaks the capacity barrier and over 45 minutes flight time redefines the Lidar airborne survey ability. The redundant CHCNAV and DJI IMU and GNSS units provide reliable centimeter RTK positioning, meeting the demand for high accuracy in the geospatial and mapping industry.