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Press Release.

DeltaQuad Evo stretches colorized LiDAR mapping in a single flight to 500 ha

Amsterdam and Montpellier – June 15th, 2023 – Partnering with LiDAR mapping solutions manufacturer, YellowScan, Dutch drone manufacturer DeltaQuad integrated a colorized LiDAR solution in their most recent Evo Unmanned Aerial Vehicle (UAV). DeltaQuad Evo is the first fixed-wing Vertical Take-off and Landing (VTOL) UAV to offer a combined Yellowscan LiDAR & RGB system worldwide.

Unmatched terrain coverage

Combining the Yellowscan system with the DeltaQuad Evo is a big step forward in the world of mapping, offering georeferenced colorized LiDAR with unparalleled terrain coverage. Currently, more powerful quadcopters can carry combined LiDAR & RGB systems with flight times of up to 30 minutes, covering around 100ha. Some fixed-wing VTOLs can carry LiDAR systems covering up to 400 ha but don't have integrated RGB sensors, meaning they have to conduct the same flight patterns twice to capture the RGB data. DeltaQuad Evo sets a new standard with a flight time of 2,5 h, covering up to 500 ha with the YellowScan LiDAR & RGB system in a single flight.

With up to 200 data points per square meter, the Yellowscan system provides highly detailed and accurate terrain information. Processing of gathered data is managed with YellowScan CloudStation software, in which data processing is strikingly fast and easy, adding to the efficiency of large mapping projects. In addition, the integration of an RGB sensor enables the colorization of georeferenced LiDAR points, enhancing usability and improving the identification of intricate details.

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SAS au capital de 157 342 €
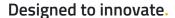SIRET: 813 091 543 00021
TVA : FR24813091543

Future-proof modular design

The modularity of DeltaQuad Evo allows its users to build a multipurpose sensor ecosystem. The universal payload bay can be used to carry payloads up to 3 kg, with the opportunity to combine two different sensors during one flight (RGB, Multispectral, Thermal, ISR, or any customized sensor) or swap one of these sensors with an auxiliary battery to reach up to 4.5 hr of flight time. The open payload bay design ensures that future sensor developments can be integrated into DeltaQuad Evo, and the "Click & Go" mechanism with automated payload recognition makes it easy to swap payloads without any tooling.

Celebrating the partnership

Both companies are proud of the outcomes of this partnership. As Tristan Allouis, cofounder and CEO of YellowScan, states: "Working with DeltaQuad is a thrilling experience as we collaborate to create inventive solutions for demanding applications. Our shared dedication ensures the delivery of highly efficient and reliable solutions for our valued customers." For Douwe Zeeman, CEO of DeltaQuad, this is another example of customer-centric co-creation. He is proud to add another valuable feature to the DeltaQuad Evo, enabling more efficient data gathering in the mapping industry.

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About DeltaQuad

DeltaQuad is a front-runner in long-range eVTOL fixed-wing UAVs. Designing and manufacturing its smart technology in the Netherlands, they provide solutions for mapping, inspection, and surveillance. Offering reliable and versatile eVTOL platforms, DeltaQuad is committed to supporting ambitious companies with innovative solutions.

Learn more about DeltaQuad Evo at www.deltaquad.com/evo
Find us on social media: Twitter, Facebook, and LinkedIn.

About YellowScan

YellowScan designs, develops, and builds LiDAR mapping solutions for professionals that require performance, robustness, and accuracy. Their hardware and software solutions are easy-to-use data collection tools that come with training and support from technical experts. Their products come with embedded laser scanners, INS, GNSS receivers, and onboard computing. Each system is designed to meet the highest precision and accuracy needs for 3D mapping. Their LiDAR solutions are used worldwide in surveying, forestry, environmental research, archaeology, industrial inspection, civil engineering, and mining sectors.

More information at www.yellowscan.com

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