

Press Release

For Immediate Release

A new era in wind turbine blade visual inspection without stopping the rotor

Bilbao, Spain, March 20th, 2024 – SupAirVision, a pioneering force in drone-assisted wind turbine inspection technology, is proud to announce the launch of Sherlock Motion at Wind Europe Bilbao 2024. Sherlock Motion is set to redefine the standards of wind turbine blade visual inspection by facilitating inspections without interrupting turbine operations. This innovative approach not only boosts productivity but also significantly enhances maintenance management and planning. Our sophisticated safety protocols protect the asset from inherent risks of flying drones close to moving blades, meticulously planning for every scenario and ensure the safety. Sherlock Motion captures high-resolution and intelligently resynchronizes each image to the correct blade for a comprehensive reconstruction. This new product embodies the dedication of SupAirVision to enhancing turbine efficiency, safety, and the reliability of renewable energy production.

Sherlock Motion's introduction meets critical industry challenges, including the need for increased productivity, operational flexibility, time savings, safety and data quality. The technology promises a monumental shift in how wind turbine blades are inspected, offering an efficient and effective solution. This innovation enables the inspection of up to 15 wind turbines per day, optimizing maintenance schedules. The system captures HD images enabling precise and efficient defect detection without the necessity to stop the rotor. Inspections are conducted with assured safety, thanks to a sophisticated ground detection system that safeguards assets throughout the inspection process.

Equipped with a Phase One iXM-GS120 camera – a 120Mpx visual sensor – Sherlock Motion features a maximum shutter speed of 1/16000 sec. This exceptionally fast shutter speed is essential for capturing clear, detailed images of turbine blades moving at speeds up to 300 km/h, especially at the blade TIP. The ability to obtain sharp images despite the high velocity of the blades ensures precise defect detection and comprehensive documentation of the turbine's condition. Our ground system adeptly resynchronizes and reassigns each image to the correct blade, enabling the reconstruction of a comprehensive blade profile. This meticulous process allows for the complete and accurate assembly of blade images, providing relevant insights into blade condition and facilitating precise maintenance, repair, or reconstruction decisions.

Central to Sherlock Motion's breakthrough is its sophisticated safety management system, meticulously designed to navigate the complexities of operating drones near moving turbine blades. Our technology anticipates every conceivable scenario, implementing anticipated safety actions to mitigate risks. This proactive approach ensures the safety of both the drone operations and the turbine's continuous function, setting a new benchmark in secure, drone-based inspection services.

The launch of Sherlock Motion comes at a pivotal time as the wind energy sector is looking for more efficient and reliable maintenance solutions. "Maintaining wind turbine blades is critical for extending their life span" Sébastien Arnould, CEO, stated. "With Sherlock Motion, we're not just meeting this need but also setting new standards for safety, efficiency, and data quality in blade inspection." To see Sherlock Motion in action, visit our video demonstration: [click here](#).

Sherlock Motion will be available from April 2024, following its introduction at Wind Europe Bilbao 2024. SupAirVision will conduct a series of live field demonstrations across Europe in the second quarter of 2024 and invites Wind Europe attendees to visit their booth 3-C110-C for a detailed product briefing.

For those unable to attend the event or for more information about Sherlock Motion, we invite you to schedule a personalized demonstration or to contact our experts. Contact us at www.supairvision.com or by email at contact@supairvision.com.

About SupAirVision

SupAirVision is a pioneering company specializing in the inspection of wind turbine blades and towers through advanced drone technology. Our range of products, including Sherlock, Volta, and Clarity, along with our SaaS cloud solution VisionAir, empower wind energy operators to ensure the longevity and safety of their turbines through data-driven maintenance strategies.

Contact:

Julie Delmas

Product and Marketing Manager at SupAirVision

Mail: jd@supairvision.com

Mob. : +33 (0)6 77 47 83 51

Website: www.supairvision.com