

AI Multisensor Cubes From Spleenlab Revolutionize The Drone Market

Compact sensor technology with artificial intelligence creates completely new application possibilities

- Intelligent sensor technology, and safe artificial intelligence in one product
- Unlimited applications for all types of aircraft and vehicles
- Automated mobility and ultra-fast 3D mapping through real-time data analysis
- Customized integration, easy handling, fast results

Saalburg-Ebersdorf. Safe automated out-of-sight flights, without GPS or inspection flights and real-time 3D mapping, are now possible with Spleenlab's VISIONAIRY CUBE_{max} and VISIONAIRY CUBE_{smart}. These two revolutionary products combine various sensors with Artificial Intelligence for the first time. What makes them special is that they are compact, lightweight and can be integrated into existing hardware systems, whether aircraft, car or boat e.g. – there are no limits to the possible applications.

Smart Sensors For Safe Operations

Automation and artificial intelligence are the future keywords for the economic success of many companies in Germany and Europe. In this context, drones in particular play a crucial role. Be it in the monitoring of infrastructure projects, the condition of crops and forests, the transport of goods and people, or the coordination of emergency forces. All these tasks require a high level of fast, precise data analysis and safe assistance and automation functions. Especially for flights out of sight and critical situations that require fast decision making. Spleenlab meets these requirements with its two unique multi-sensor products **VISIONAIRY CUBE_{max}** and **VISIONAIRY CUBE_{smart}** in combination with highly efficient AI applications, revolutionizing a dynamically developing market.

VISIONAIRY CUBE_{max} – Safe Artificial Intelligence For Flights Even Out Of Sight

Different sensors have different strengths. Together they provide maximum safety for automated mobility. For this reason, the **VISIONAIRY CUBE_{max}** combines laser scanner, radar and cameras in one product for the first time and that at a weight of less than 1.5kg. Through the also integrated AI computer and most advanced AI software, safe automated flights become reality for the first time even without continuous GPS signal or contact to a ground station. *"The interplay of sensor technology and AI enables drone manufacturers and users to additionally safeguard long-range flights. In addition to automated collision avoidance or emergency landings, sensor data can additionally be analyzed in real time on the aircraft,"* said Dr. Stefan Milz, Co-Founder and Head of Research & Development at Spleenlab. The VISIONAIRY_{max} is not limited to drone applications, but can be used and tailored for any type of vehicle, whether helicopter, boat or ground robot. Its shape, size and composition can be variably adapted to any application during custom development

VISIONAIRY CUBE^{smart} – Real-Time 3D Mapping On The Aircraft

With a laser scanner and a front camera, the **VISIONAIRY CUBE^{smart}** is no less powerful than its "big" brother. The compact design and its 0.5kg weight are optimized for the use of inspection and maintenance and operation drones. For the first time, the integrated AI computer allows the flown data to be analyzed in real time on the vehicle. This gives users not only a high degree of flexibility, but countless new application possibilities. This is because the 3D maps, which are accurate to the centimeter, enable a highly detailed and interpreted situation picture that is available to users as soon as the aircraft lands. Inspections and monitoring through real-time data analysis thus make the **VISIONAIRY CUBE^{smart}** the ideal operational aid for industry, archaeology, agriculture and forestry, emergency forces, infrastructure projects and far beyond. *"With this handy and easy-to-install sensor cube, we have created a unique product that brings the benefits of Artificial Intelligence to the air for the first time," said Florian Ölsner, Lead Software Engineer at Spleenlab. "We are excited to provide our customers with a ready-to-use solution that can quickly and accurately solve our customers' most difficult challenges."* Marian Seeliger, Global Sales Manager at Spleenlab, adds.

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About Spleenlab

Spleenlab is a highly specialized AI software company founded in 2018 with the goal of developing secure AI applications for real-time automation of drones, air-taxis and self-driving cars. In addition, the technologies and products developed by Spleenlab provide users with different capabilities for real-time AI-based 3D mapping, inspection or monitoring on the vehicle. The members of the steadily growing team bring their many years of experience as senior AI engineers, managing directors and marketing experts to the Saalburg-Ebersdorf-based company.

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