

AI-powered multispectral thermal detection system for energy-efficient air mobility

Sector: Other - AI-based aerial monitoring and sustainable air mobility

Short description of the needs:

Drone and paraglider operations are limited by battery capacity, energy consumption and lack of real-time information about atmospheric thermal currents. Current navigation systems rely heavily on GPS and onboard power, which reduces flight endurance and operational efficiency. The objective is to develop an AI-powered multispectral thermal detection system combining IR, UV, NIR and RGB sensors to detect invisible thermal airflows and enable real-time thermal navigation. This solution would support longer, more energy-efficient flights, environmental monitoring, coastal surveillance and emergency services. Cooperation opportunities include pilots with drone operators, paragliding schools, civil protection authorities, meteorological institutes and research partners.

More info: For more information apply to antun.nadramija@hamagicro.hr

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Point of contact for the brief/challenge: HAMAG-BICRO

Company position in the value chain: OEM (developer of thermal sensing hardware and AI software platform)