ZERO GYRO

Vibration-Free Range Extender for UAVs

The focus of the incubation program is the vibration-free Range Extender technology—a motor-generator—which represents a major innovation that directly aligns with the priorities of the technology sector. Electric mobility and unmanned aerial vehicles (UAVs) are currently key segments of future mobility, and their importance is growing not only due to environmental regulations but also because of increasing demands for operational efficiency and precision in technologies used in the civilian and defense sectors. The vibration-free Range Extender addresses all these key priorities by not only extending the range of electric and hybrid vehicles but also significantly improving the precision and reliability of their use in critical operations. This technology helps strengthen the competitiveness of the European technology sector on a global scale.

Unique Selling Points:

- The technology completely eliminates the vibrations and gyroscopic torque typically generated by internal combustion engines.
- The vibration-free Range Extender not only ensures longer operating time, but also high-quality photos, videos, and measurements even while the motor-generator is running (also suitable for ultra-sensitive instruments).
- Easy integration into existing platforms and use of existing internal combustion engine components (standard and alternative fuels, including H2O).

Product

Motor-generator

Technology readiness

Development

Proof of concept

▶ Prototype

First implementation

Extensive implementation

1/2025

B2B