

SENS-0-COPTER

SENS-0-COPTER is a long endurance UAV (Unmanned aerial vehicle, Multicopter) designed to acquire and deliver multiple sensory data in situations and areas where manned inspection is too costly, dangerous or even not possible. The UAV and the sensor-unit are based on open-source Hard- and Software to keep the development time low and to benefit from proven designs. The system will be tailored to our special needs: rain and snow resistant, long endurance, flight time up to 90 min, long range, up to 50km (one way). The gathered data (temperature, air pressure, altitude, GPS position, air quality, hydrogen sulphide, magnetic field, UV-, visible-, NIR- and IR-camera, radioactive level) will be sent over WLAN/LTE into the cloud to store the data. The user can use a web interface to display the processed data (combined with GPS/Time) on a map. Possible applications: Environmental monitoring, air quality, emissions, contaminated areas, radioactive levels, gas leakages, civil protection, weather data, volcano research, natural disaster, mobile network signal strength, quality control, documentation purposes.

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