AIRBORNE ROBOTICS

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UNRELENTING PERFECTION

For professional drone missions

WHO ARE WE?

AIRBORNE ROBOTICS is a manufacturer of high-performance drones based in London, UK. The group includes AIR6 SYSTEMS in Klagenfurt, Austria and Munich, Germany. We provide a professional work-tool for many industries, including:

- SURVEYING
- POWER DISTRIBUTION
- WIND ENERGY
- SOLAR
- OIL & GAS
- LOGISTICS
- AGRICULTURE & FORESTRY
- TASK FORCES

WHY AIR6 SYSTEMS?

REDUNDANCY: Enhanced fail-safety through at least two electronic circuits for missions in built-up areas and / or to comply with the required Operating Safety Case (OSC).

PERFORMANCE: Unique combination of payload capacity, flight time, power reserve and stability.

OPEN PLATFORM: Ability to mount any sensor, payload or comms system. Our customers can choose the best available equipment on the market at any time.

CUSTOMISATIONS: Our systems can be tailored for specific needs or missions. We offer direct access to our development team. We serve as extended work-bench for industrial partners who share our vision and passion.

WHAT MAKES US DIFFERENT?

10 KG

PAYLOAD CAPABLITIES
10kg - 15kg

FLIGHT TIME
40min - 60min

2X

REDUNDANCY
Fail Safety Optimisation

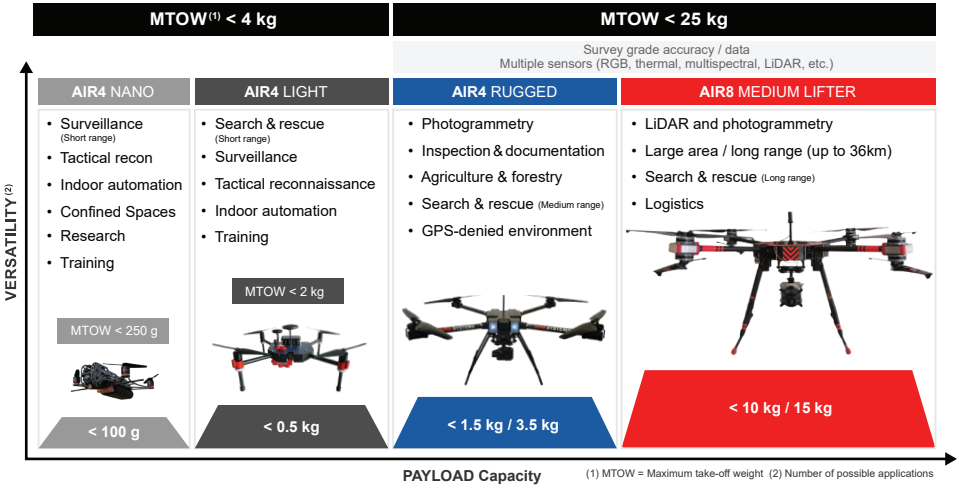
CUSTOMISED SYSTEMS

AIRBORNE ROBOTICS provide a full UAV product range to cover more than 95% of all currently possible applications. We strive to deliver only highest quality products, made in Europe. While our core business is designing & manufacturing drones, we provide our customers with end-to-end TURNKEY UAV SOLUTIONS for each application: UAV hardware, integrated sensors, customisations, operating and flight planning software, post-processing software and support & training.

NEXTGEN FEATURES

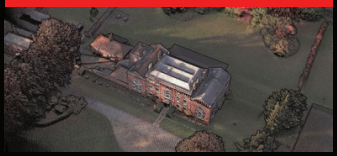
- **Simulation & Digitisation** strategy optimisation.
- **BVLOS** system design and implementation support.
- **GPS-denied** and DAA strategy.
- **Comms optimisation** (4G/5G, satcom, hybrid, comms redundancy).
- **System-of-systems** approach (UAV / satellite robot, UAV / USV).
- **End-to-end full-autonomy** strategy.

OUR PRODUCT RANGE



AIRBORNE ROBOTICS GEO-SPATIAL DATA & REMOTE SENSING

LIDAR TECHNOLOGY



Integrated aerial LiDAR enables:

- Cm-accuracy, point density and detail covering large areas.
- Digital twins - power lines, rail, wind energy, forestry, oil & gas, historic buildings, urban development.
- Broad functionality - elevation / terrain model, vegetation monitoring, growth monitoring.

With RTK / PPK / PPP we are able to deliver:

- Accurate location data on vertical assets across large areas (<1cm accuracy distortion free),orthophotos and volume calculations.
- Direct Geo-Referencing (no GCPs required) and 3D-modelling: construction, power lines & rail, offshore wind energy, forestry, agriculture, oil & gas.

PHOTOGRAMMETRY

PAYLOAD INTEGRATION & SENSORS

Multiple and heavy payloads:

- Depending on the application we are able to integrate any type of sensor or payload onto our UAVs.
- RGB, thermal, multi / hyperspectral, LiDAR, corona, muons, radiometric, gas detection, ag/forestry and spraying payloads.
- Logistics: gripper, drop-off and tethered solution.
- Navigation & identification: GPS-denied, object detection and tracking.