Professional UAS for INDUSTRIAL INSPECTION & TASK FORCES

AIR8

MEDIUM LIFTER

Newest flight technology,
Enhanced battery performance.

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*The **AIR8** drone is designed for medium payload and medium flight range missions. It is equipped with enough power reserves for Laser scanning / LiDAR surveys, customised sensors (eg. radiometric, muon) and for heavier film camera equipment.*

*Our **AIR8** possess market-leading flight characteristics (flight time, payload capacity, redundancy and water resistance) ideal for heavy payloads such as agri sprayers and logistics.*

AIR6 SYSTEMS

Manufactured in Europe.



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Our AIR8 offers market-leading performance and stands for our guiding principles of *unrelenting perfection* and *making things possible*.

PERFORMANCE – The AIR8 HEAVY LIFTER 15 drone is designed to carry payloads of **up to 15kg**, thereby maintaining a meaningful flight time for all professional missions. It is the **true power package** in the MTOM class <45kg with 45km/h wind tolerance & waterproof rating (equal to IP 54) enabling for flights at any condition and height ASL.

REDUNDANCY – Eight rotors, two state-of-the-art flight controllers with triple IMU, dual GPS / antennas and other failsafe mechanisms, enable for full system redundancy **as required by Operating Safety Case** (OSC) for flights in urban areas and for **BVLOS missions**.

INNOVATION – Enhanced Li-Ion batteries developed in-house result in flight times of **40+ minutes**. More than 90% carbon fibre supports ruggedness & lightness, with **modular structure** for easy handling and efficient worldwide shipment. Autonomous capability, including terrain following, enables for precision survey and inspection from the air.

CUSTOMIZATIONS – Open based platform enables for the attachment of multiple primary and secondary sensors for meaningful data capture. With all weather conditions and large payload capacity, the AIR8 can be **customized for a broad range of applications**.

LiDAR Package

Essential power reserves for large area & corridor scanning

Fully integrated hardware and workflow for conducting accurate and detailed LiDAR surveys, as well as post processing software for 3D modelling / point clouds that matches the real world.



Various high-end sensors - Riegl, Velodyne, or derivatives thereof - are integrated for our LiDAR package, depending on detail, accuracy, flight time & height as well as workflow requirements. Calibrated RGB cameras, thermal, multi- and hyperspectral sensor combinations can be provided for best ground truth data, data fusion and maximum mission efficiency.

Image: AIR8 with Riegl LiDAR VUX-1 UAV with AP20

Photogrammetry Package

Highest accuracy for survey grade results

Stable and reliable PPK / PPP solution for accurate inspection and precision monitoring of structures, buildings, crop yields and many more.

Sample Sensors:
- Sony ILX-LR1
- Sony RX1 RII
- Phase One 100Mpix

PPK / PPP:
- Septentrio
- KlauPPK



Image: *Hybrid PPK/PPP Solution*

Search & Rescue Package

Tested by Task Forces worldwide

Designed for medium range SAR operations with Control Centre integration. Autonomous flights, rapid battery change and ability to mount any equipment required by the Task Forces.

- Thermal Imaging
- Air-quality sensor
- Drop-off device
- Avalanche probes

Logistics Package

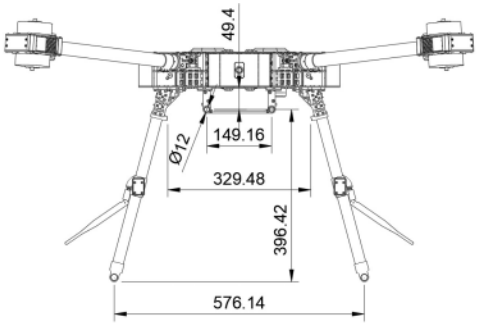
Efficient helicopter replacement

Combining movability in confined spaces with medium flight range and 15kg payload capacity makes the AIR8 the optimal logistics platform. It can be equipped with a broad range of sensors, full autonomy and LTE redundancy.

- BVLOS characteristics
- Automatic charging platform



AIR8 Mounting Rail



All dimensions are in millimeters

AIR8 Remote Control



RC7 / Pro



RC10 Pro

AIR8 Batteries with Case



AIR8 Transport Case



70 cm

70 cm

AIRFRAME	
UAV Type	OctoCopter with 4 arms and 8 rotors
Weight	c. 16 kg (with batteries/ without payload) or as required by customisation
Maximum Take Off Weight (MTOM)	< 20 kg / < 25kg / < 35 kg (at full payload)
Operating Temperature	-10 to 50°C
Flight time	40+ minutes
Max Windspeed	45 km/h
Max Altitude	4,000 m ASL
Max Speed	90 km/h
Material	90% carbon fibre construction
Propellers	8 x low-noise, foldable props

ELECTRONICS & SOFTWARE	
Motors	8 x 1900W brushless
Power Source	Li-Ion
Batteries	Standard: Set of 4 batteries with total of 30Ah 12S Li-Ion, Extended: 42Ah 12S Li-Ion
Navigation	Pixhawk Cube
Tx / Rx	SIYI or Taisync
System Redundancy	• 2 x GPSs and 2 x Tx/Rx antennas; triple IMU • Battery redundancy: self operated short-circuit protection of parallel operated Li-Ion batteries
Software	• State-of-the-art flight and missions planning software; customised embedded sensor software/ app