

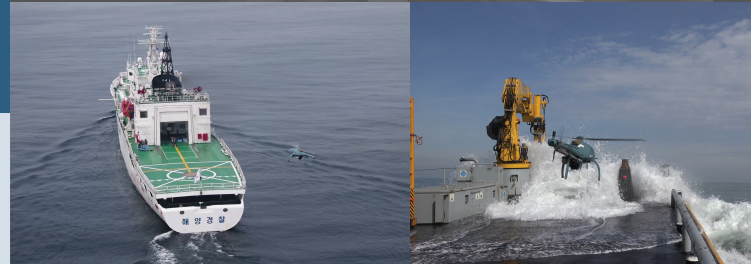


About the Airboxer®

The Airboxer® is a long-range, fuel-driven unmanned helicopter (VTOL UAV). Because of its size, weight and capabilities, it **creates a class on its own** and brings **industrial reliability** into the UAV market in an unprecedented small size. High Eye believes its product should be **safe to operate** under nearly all circumstances and conditions, throughout the year.



Why the Airboxer®?



► ROBUSTNESS

- STANAG 4738 documented
- Dust and Water Proof IP-67
- EMI-shielded
- Corrosion Protected
- Rugged and Weatherproof

► PERFORMANCE

- Endurance: **3 to 4 Hours**
- **Up to 7 kg** Payload
- **MTOW: 32 kg**
- **Long-range** Capability
- **Multiple Hours** of Hovering

► PRACTICAL

- **Multiple Payload** Integration
- **Low Logistical Footprint**
- **Lightweight** (21 kg empty)
- **Heavy Fuel Driven** (Jet A1)

► SAFETY

- Multiple **Redundancies**
- Tested **Autorotation**
- **Emergency Flotation** System
- **DES-Encrypted** Datalink



HIGH EYE

AIRBOXER®

SPECIFICATIONS



GENERAL

Aircraft storage dimensions	1661 X 539 X 600 mm
Aircraft empty weight	21 kg
Maximum take-off weight	32 kg
Powerplant configuration	2-stroke, air-cooled, dual injection, FADEC
Fuel type & quantity	Jet A1 (NATO F-35), JP-5 (NATO F-44)
Fuel quantity	8.5 l
Maximum hover endurance	> 2.5 hours (ISA / AMSL / 3.0 kg payload)
Maximum flight endurance	> 4 hours (ISA / AMSL / 3.0 kg payload)
Maximum flight range	> 300 NM / 550 km
(Vx) Speed for maximum endurance	35 kts IAS
(Vy) Speed for maximum range	45 kts IAS
(Vne) Maximum flight speed	75 kts IAS
Hover service ceiling	> 10,000 ft (density altitude, MTOW)
Environmental	IP-56 enclosure, IP-67 avionics
Precipitation	Medium rain / light hail
Humidity	95% Non-condensing
Temperature	-10°C To +45°C
EMC	200 V/m @ 1 MHz - 18 GHz (MIL-STD-810F)
Flight control system layout	Complete single failure redundancy
Autopilot capability	Automatic / semi-automatic / autorotation
Communication frequency	900 - 5900 Mhz Bands (2200 - 2500 MHz default)
Communication bandwidth	5 / 10 / 20 Mhz
Communication range	50 km (line-of-sight, average conditions, LRA system)
Communication encryption	DES standard (other standards optional)

PAYLOAD

Integrated payload types	EO / IR / AIS / ADS-B / VIDAR / MAD
Maximum payload weight	7.0 kg
Maximum payload weight - full fuel	3.35 kg
Payload power supply	350W / 24VDC continuous
Payload communication	IP Ethernet (IEEE 802.3)
Payload data rate at max. range	> 4 Mbps

MAINTENANCE

Maintenance type	Part 145 compliant
Time Between Inspections	50 Hours/annual
Airframe TBO	1,000 Hours
Engine TBR	200 Hours/4th annual

CONTACT US



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