



The AIRBOXER® Mission-Critical Aerial Capability

Robustness

-  LUC SAIL II certified
- STANAG 4738 documented
- Dust & Water Proof IP-67
- EMI-shielded avionics

Mission Endurance

- Endurance: 4+ Hours
- Up to 7 kg Payload
- Long-range Capability

Logistical Superiority

- Tactical Weight Class 34 kg MTOW
- Multiple Payload Integration
- Fuel Driven

Operational Security

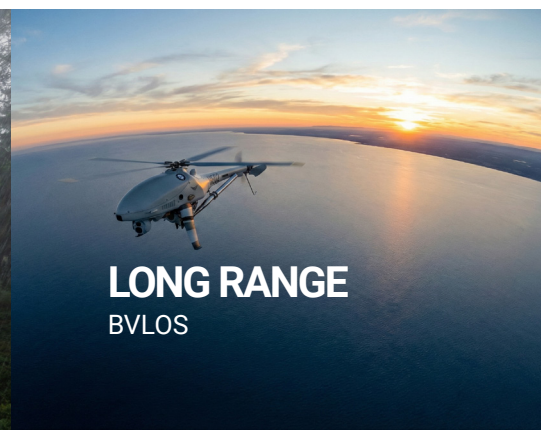
- DES/AES-Encrypted Datalink
- Tested Autorotation
- Emergency Flotation System



MARITIME
Shipboard Integration



ADVERSE WEATHER
Rain, Mist & High Wind



LONG RANGE
BVLOS



AIRBOXER[®]

Specifications

General Aircraft Specifications

Maximum Take-off Weight (MTOW)	34.2 kg
Aircraft Empty Weight	24 kg
Dimensions (LxWxH)	1839 x 632 x 575 mm
Main Rotor Diameter	1800 mm
Powerplant Configuration	80cc, 2-stroke, air-cooled, dual injection, FADEC
Onboard Generator	Alternator 28V 700W
Fuel Quantity (Standard)	8.86 l
Fuel Quantity (Optional ERF)	11.86 l

Performance & Flight Limits

Max Flight Endurance (Standard)	> 4 hours (ISA, AMSL, 3.0 kg payload)
Max Flight Endurance (ERF)	> 5 hours
Maximum Flight Range	> 200 NM / 360 km (Optional 4G)
BVLOS Capability	Successfully tested up to 100 km
Maximum Flight Speed	70 kts IAS
Speed for Maximum Range	50 kts IAS
Speed for Maximum Endurance	35 kts IAS

Environmental & Operational Limits

Operating Temperature	-10°C to +45°C
Ingress Protection (IP)	IP-56 enclosure, IP-67 avionics
Max Operational Wind	25 kts (up to 40 kts including gusts)
Humidity	95% Non-condensing
EMC (MIL-STD-810F)	200 V/m @ 1 MHz - 18 GHz

Payload Specifications

Maximum Payload Capacity	7.0 kg across multiple payload bays
Payload at Full Fuel	3.0 kg
Payload Power Supply	300W / 24VDC continuous
Communication Interface	IP Ethernet (IEEE 802.3)
Data Rate (Max Range)	> 4 Mbps (suffices for Full HD video)
Integrated Payload Types	EO/IR, VIDAR, MAD, LIDAR, acoustic sensors, CBRN sensors

Radio & Data Link

Radio Type	2x2 MIMO Radio (Low-SWaP, low-cost)
Transmission Power	Up to 10W (20W effective with TX Eigen Beamforming)
Standard Frequency (S-Band)	2200–2500 MHz
Optional Frequency (C-Band)	4400–4940 MHz
BVLOS Control (4G LTE)	200+ km with 4G coverage
Encryption (Standard)	DES standard
Encryption (Optional)	AES (up to 256-bit, FIPS 140-3 Level 2)
SATCOM	Available capability

GNSS Denied Navigation

Accurate & Reliable Navigation System for GNSS-Denied Environments

Jamming & Spoofing Detection and Protection

Precise Altitude & Position Estimation

No Maps Loading Required

Built-in Air Data System: Key for dead reckoning navigation.

Ultra-Compact and Easy to Integrate

Regulatory Compliance

- EASA LUC SAIL II certified
- STANAG 4738 Compliant