

AVILUS

RESCUE. PROTECT. PROVIDE.

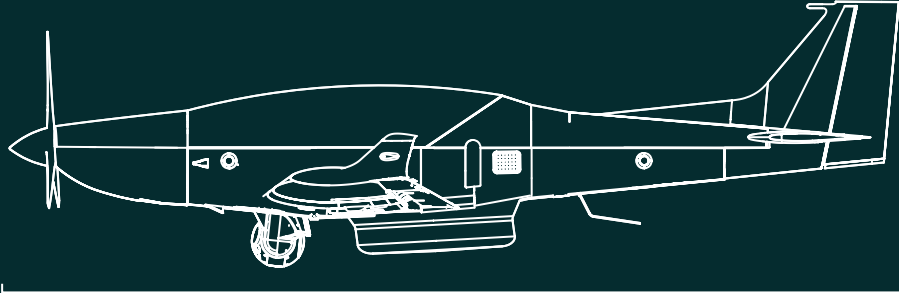


9Z*01

Bussard

Bussard

The German Reconnaissance Drone



7.8 m

A Ranger Class drone for intelligence, surveillance, target acquisition, reconnaissance (ISTAR) and close air support (CAS). The unmanned system is based on a certified ultralight aircraft, combined with military grade

avionics and cutting-edge sensor technology – all made in Germany. The platform provides unmatched cost-effectiveness and operational capability for addressing modern military challenges.



Surveillance

Exceptional radar detection range combined with a high-resolution advanced multi-spectral imaging system.



Target Acquisition

Radar and gimbal work in tandem to detect, classify, and identify potential threats.



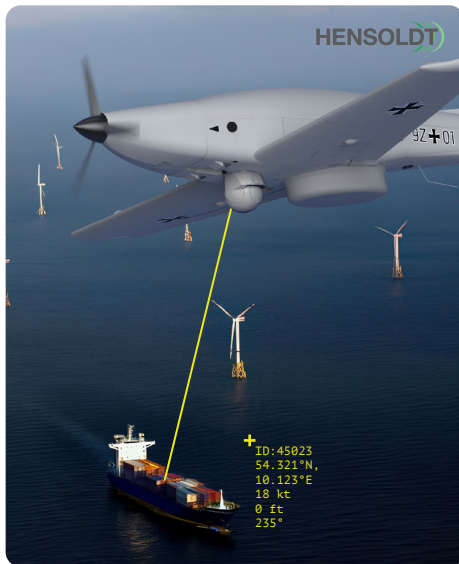
Self Protection

Flare countermeasures ensure platform survivability in high-threat environments.



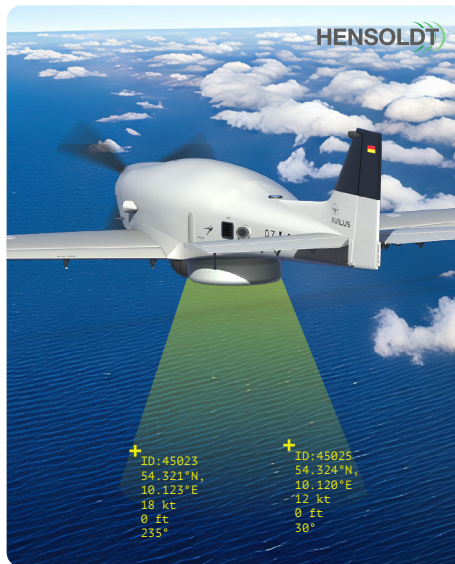
Mission Support

Bussards work in teams, where as one identifies the target, and the other is responsible for striking



Hensoldt ARGOS

An electro-optical and infrared (EO/IR) gimbal equipped with a laser designator, providing advanced multi-spectral imaging and targeting capabilities.



Hensoldt PRECISR

A state-of-the-art airborne surveillance system with an exceptional detection range of up to 370 km to monitor vast areas with minimal operational assets.



Avilus RAS CORE Air

A military grade avionics system providing reliable guidance, navigation and flight control even in contested environment. Suitable for manned to unmanned conversion.

Get in touch with us

Avilus is a manufacturer and operator of a new class of dual-use drones for medical evacuation, logistics, and ISR support.

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Bussard - 9Z

Feature	Metric	Imperial
Enclosing Diameter	7.8m	25 ft
Propeller Diameter	1.8m	5.9 ft
Packing Size	20ft ISO-container	
Cruise Speed	170 km/h	92 kts
Max. Speed	290 km/h	156 kts
Service Ceiling	7600 m	25000 ft
Max. Range	2500 km	1350 nm
Max. Endurance	14 h	14 h
Take-Off Distance	400 m	1312 ft
Landing Distance	300 m	984 ft
Radar Payload	65 kg	143 lbs
Optical Payload	53 kg	117 lbs
Self-Protection Payload	24 kg	53 lbs
Total Payload	142 kg	313 lbs
Max. Take-Off Weight	800 kg	1764 lbs
Max. Power	117 kW	160 hp
Engine	turbo-charged piston engine or regenerative, multi-fuel turbine	
Fuel	piston: unleaded gasoline, turbine: F-35 (Jet-A1), F-44 (JP-5), Diesel, UL91, AVGAS.	
Propeller	automated variable-pitch propeller for maximum efficiency	
Safety	multi-layer fail-safe system design	
Flight Control	primary and secondary flight control system	
Navigation	satellite and inertial navigation	
Data Links	multiple LOS and BLOS links including high-bandwidth satellite communication	
Rescue System	automated ballistic parachute deployment	
Ground Control	mobile-duplex GCS, vehicle integratable	
Battle Management	integrated for planning, dispatching and monitoring	