



Barracuda VTOL Tactical UAS
Technical Specs

Dimensions	Wingspan Height Length	5200 mm 500 mm 2400 mm
Weight	MTOW Payload Weight	60 kg 10 kg
Performance*	Max Endurance Cruise Speed Max Speed Climb Rate Descent Rate	8 hours (with 20 min reserve) hybrid propulsion 18 - 25 m/s 35 m/s 3,2 m/s 3,2 m/s
Environment	Temperature Range Ingress Protection Max Wind Resistance Max Altitude	-30 Celsius +60 Celsius IP43 8 m/s for multicopter and VTOL mode, 12m/s in fixed-wing flight 3500 meters MSL for VTOL operation 4500 meters MSL for fixed-wing flight
Payload Options	RGB Multi EO Photogrammetry Optional (Lidar etc)	FPV wide angle with OSD function 3-axis mechanical and digital stabilized gimbal system with LWIR, RGB, and object tracking function MX Smartgeotagger Mapping Payload with Dual GNSS RTK Lidar or SAR systems can be integrated up to 10 kg
C2 and Datalink**	Type Comm Range RF Frequency Encryption	LOS Digital Direct RF System with FHS with live video stream 20 km with standard handheld GCS, 50-200 km with tracking antenna and upgraded GCS 2,4 GHz-5,8GHz for commercial missions, Mil-Spec datalinks can be integrated as an option Electronic Warfare datalink option will be selected with the customer's needs and kept confidential AES128 with standard GCS
Propulsion System	All Electric	4 electric propulsion units for VTOL, 1 hybrid propulsion unit for fixed-wing horizontal flight
Operational Specs	VTOL Capability Tactical Mapping Acoustic Footprint Logistic Footprint	Vertical take-off and landing capable Capable of RTK accuracy when used with SmartGeotagger payload Inaudible at 300m altitude AGL Commercial pick-ups are enough for 1 system, 2 operators are needed
Warranty***		The system is protected by a 1-year warranty for manufacturing and subsystem-related issues. Extended warranty and SLA options can be applicable for customer needs

*Performance values heavily depend on environmental conditions and changes with the pilot's mission planning. Adequate pilot training for sUAS is important for reaching these performance parameters and safe operations. Endurance can vary with the payload, altitude, and battery aging.

**Payload options can be changed with the customers' special needs via integration price, please get in contact with the sales and technical team.

***Weather, RF noise, and humidity affect direct RF system performance, operations must be tested before standard operations. The BVLOS option is in development and will be offered as an option.

****All warranty conditions must be confirmed by the supplier via black box data examination. After the examination report, the customer will be informed about the issue, warranty conditions, and next steps to make the aircraft operational as soon as possible.