

SKIRON-X



Group 2 Tactical Unmanned Aircraft System

OPTIMIZED FOR SIMPLE AND EFFECTIVE ISR MISSIONS

The Skiron Expeditionary sUAS combines the simple operation of an electric vertical take-off and landing (eVTOL) configuration with the longer endurance of a fixed-wing design. It has a range of up to 47 miles (75 km), and an EO/IR camera payload provides precise ground resolution for airborne intelligence, surveillance, and reconnaissance (ISR). Powered by a battery or fuel cell, SKIRON-X is highly customizable to meet a wide range of applications.



Hybrid VTOL fixed-wing

Launch and land without auxiliary equipment. Lift rotors enable vertical launch and landing, while the fixed wing design allows for longer flight time.



Simplified operations

Engineered for operation by non-pilot personnel. User-friendly mission planning software facilitates rapid training and allows for mission adjustments even during flight.



Flexible payload

Modular nosecone design, enabling swift payload changes and customized integrations. EO/IR, EW, communications relay, lethal systems payload agnostic.



Long endurance

Flight endurance exceeds 3.5 hours on battery power. Fuel cell version extends flight time to 7 hours.



Small footprint

Designed for efficient deployment. Transportable by standard pick-up truck with a two-person crew. Supports mobile missions using an omni-directional antenna.



Autonomy

Implementation and integration of behaviors to support any payload. Advanced autonomy enhances aircraft capabilities without requiring extensive operator training.

Attributable cost model with streamlined procurement options. Contact us for more information, existing IDIQ procurement mechanisms available for expedited acquisition.

AIRCRAFT SPECIFICATIONS		
	SKIRON-X	SKIRON-XLE
Length	2.2 m / 7 ft 3 in	2.4 m / 7 ft 10 in
Wingspan	5.0 m / 16 ft 6 in	
Propulsion system	40Ah Li-ion rechargeable battery	800W hydrogen fuel cell with rechargeable LiPo battery and fuel tanks
Max Payload	2.26 kg / 5 lb	1.45 kg / 3.2 lb
Takeoff weight	22.2 kg / 49 lb with Trillium HD55 and battery	24.5 kg / 54 lb with Trillium HD55, fuel cell, tanks
Flight endurance	3.5 hours	7 hours
Max speed	26 m/s / 50 knots	
Cruise speed	19 m/s / 36 knots	
Max cruise altitude	12,000 ft density altitude	
Typical operating altitude	500 ft - 4000 ft AGL	
Navigation	Anti-jam GPS/GNSS solution available.	
Payload attachments	One standard nose mount; optional belly mount	



SYSTEM SPECIFICATIONS		
Aircraft container size	26 in x 24 in x 94 in	
Aircraft container weight	82 kg / 180 lbs	
Setup time	10 min	20 min
Integrated payload	Trillium gimbals, HD25 to HD55. Custom integration available.	

GROUND CONTROL STATION SPECIFICATIONS	
Software	Kutta UGCS software
Size + Weight	35 lbs / 19 in (L) 15 in (W) 8 in (D)
Networking	Wired or wireless
Range of Operations	Integrated Silvus radio with dual omni attachment. Ethernet/IP/ RF interface to connect to long range antenna
Display	Two Toughbooks: 14 inch monitor and 15.6 inch sunlight-readable monitor
Handheld (optional)	KTAC capable. Can be worn as a chest mounted device, placed in a pocket, or held with one hand. Compatible with the Android Tactical Assault Kit (ATAK).

DATA LINK SPECIFICATIONS	
Datalink standard	Silvus SC4200EP <i>Blue UAS Framework Certified</i>
C2 link range	6 km with 1W radio and omni ant; 75 km with 10W radio and tracking ant
Frequency	S-band; customizable dual S & C bands
Link rate	Up to 20 Mbps
Output power	Up to 10 W
Standard Encryption	AES256; FIPS 140-3 Level 2 <i>LPI/LPD and Anti-Jam Options Available</i>

INTEROPERABILITY				
ATAK interoperability	Custom payload integration capable	MISB compatible live video with KLV metadata	Aided target recognition capable	Built on MOSA principles, ensuring transparency and modularity.