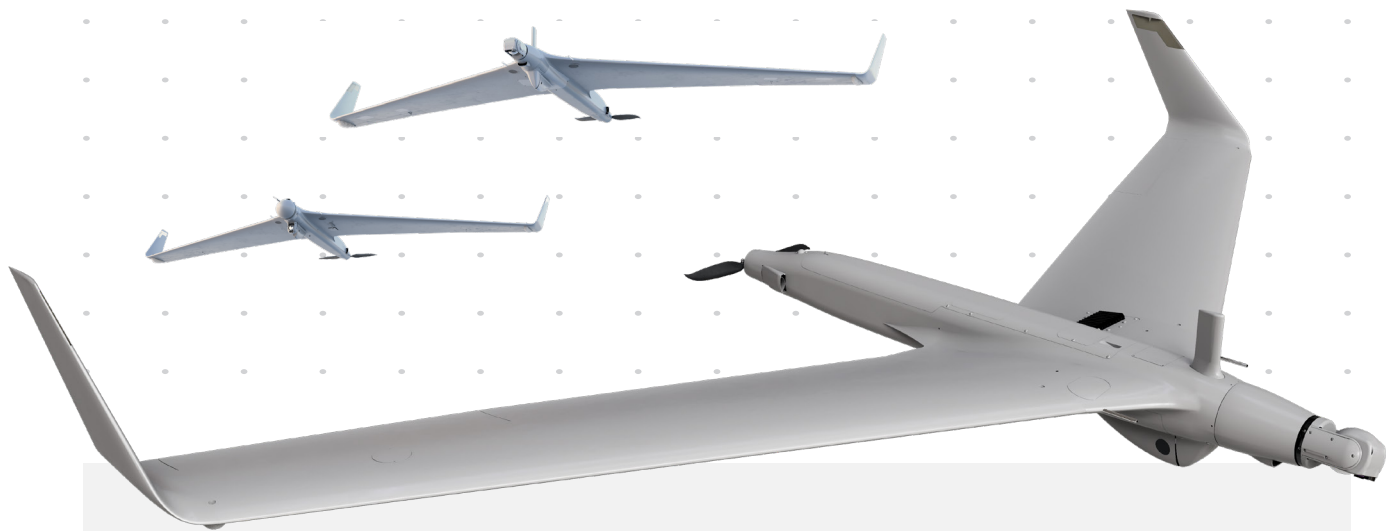


ORBITER 2[®] STS

(SENSOR TO SHOOTER) UAS SYSTEM



AERONAUTICS™



ORBITER 2 STS (Sensor to Shooter) UAS System

ORBITER 2 STS Mission Kit is based on two combat-proven, fixed-wing, electric UAVs ORBITER 2 ISR and ORBITER 2 LM Both UAVs share common platform, common ground segment and operational Software.

The STS mission kit offers superior performance, fast sensor-shooter mission cycle and operational flexibility in challenging weather conditions with a small logistics footprint. The system and proprietary control software are compliant with NATO STANAG such as 4703 and 4609.

Specifications



MTOW
13 kg



Environmental
25-40 knt / (-20) - +49°C / 2-5 mm/h
(Wind/Temp/Rain)



Wing span 2.95 m
Length 1.4 m



Operational Flight Altitude (AGL)
500-3,000 ft.



Applications & Payloads

- Superior ISR performance suited to a variety of missions
- Continuous and prolonged area surveillance
- Fast Sensor to shooter cycle closure and BDA
- Advanced image processing capabilities – VMD, ATR
- Enhanced digital datalink - long LOS range | relay | AES-256 | hopping
- Advanced flight control & precision navigation system (including in GPS-denied areas)
- Highly transportable | rapid assembly & turnaround
- Designed to meet airworthiness standards CAAI, STANAG 4703 and STANAG 4609
- Ground Connectivity to C4I



Main Features

- Camera-guided flight
- Rapid deployment, 7-minutes to launch
- Simple assembly, rapid turnaround
- Electrical propulsion
- Low silhouette, silent, covert operation
- Automatic takeoff and recovery
- Operational below cloud base, in harsh weather conditions
- Long endurance, extended operational range
- Pneumatic Catapult launch, airbag & parachute recovery
- Mission autonomy, accurate navigation, with or without GPS or datalink Control and monitoring from moving vehicles Encrypted, digital datalink, frequency hopping
- Advanced Navigation system | fully operational in GPS-denied areas



Payloads & Advances Capabilities

- Advanced Image Processing Capabilities
- Automatic video tracker (ATR)
- Video Motion Detection (VMD)
- Onboard Tracker
- Stabilized Dual EO/IR
- HD Resolution, enhanced DRI
- Continuous zoom
- Electronic Intelligence (ELINT)
- Electronic Warfare (EW)



Encrypted Data-link Range
LOS Up to 50 km



Max Operational Speed
50 kts



Endurance
Up to 2.5 hrs



Max Launch Altitude (ASL)
13,000 ft.



Warhead Weight (2LM)
3 kg



Max Altitude (ASL)
16,000 ft.



YOUR EDGE IN THE FIELD