JUMP® 20-X VTOL FIXED-WING

AV AeroVironment™

JUMP® 20-X is an advanced, group 3 VTOL UAS designed for unmatched flexibility and precision to meet the demands of evolving missions. Featuring a multi-fuel, multi-payload design, it excels across all domains, environments and mission profiles. Its modular, open-system approach (MOSA) supports payload-agnostic, radio-agnostic, and STANAG-compliant communications ensuring seamless integration and adaptability.

Optimized for space-constrained environments, the JUMP 20-X leverages advanced AI & autonomy making it perfectly suited for maritime operations. With its fully autonomous hands-free operation, it ensures maximum safety and efficiency from takeoff to landing—even on moving vessels in rough seas. Fully marinized and built for resilience in harsh maritime environments, it is able to thrive in conditions where other platforms cannot.

DISTINCTIONS

⟫⟫ LINK RANGE
115 mi (185 km); and BLOS capability

⟫⟫ ENDURANCE
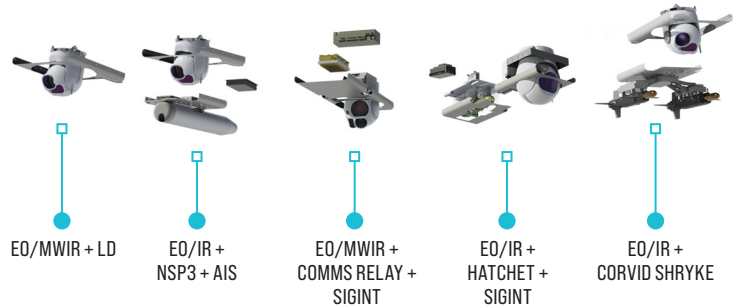13+ hr

⟫⟫ USEABLE PAYLOAD CAPACITY
Up to 30 lb (13.6 kg)

⟫⟫ POWER SUPPLY
230 cc heavy fuel engine, 2-stroke, JP-5, JP-8, Jet A, MoGas

SPECIFICATIONS

AIRCRAFT & ELECTRONICS	Fully Marinized Aircraft for Harsh shipboard operations
SPEED	58 mph (50 kts) cruise
OPERATING ALTITUDE	17,000 ft DA
WINGSPAN	18.8 ft (5.7 m)
LENGTH	9.5 ft (2.9 m)
WEIGHT	215 lb MGTOW* Fuel & Payload (97.5 kg)
LAUNCH METHOD	No launch system or runway required Vertical takeoff & landing
RECOVERY METHOD	VTOL Landing
GCS	Vigilant Spirit Command/Control Interface, STANAG-4586 compliant

*MGTOW - Maximum Gross Takeoff Weight

MODULAR VERSATILE MULTI-PAYLOADS

EO/MWIR + LD	EO/IR + NSP3 + AIS	EO/MWIR + COMMS RELAY + SIGINT	EO/IR + HATCHET + SIGINT	EO/IR + CORVID SHRYKE

EO Sensor · IR Sensor · Optical · Sensor Fusion · Data Links · Anti-Jam

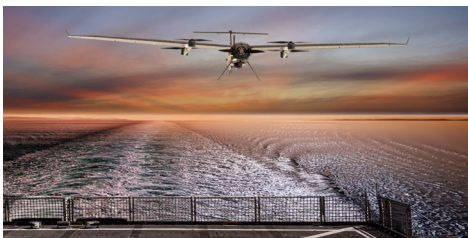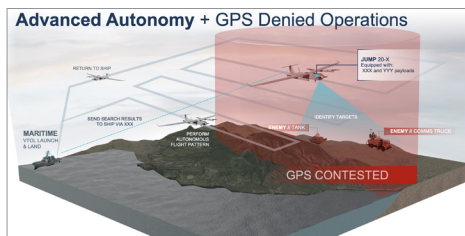SIGINT · EW Attack · Munitions · Machine Learning · Radar · RF Scan

KEY FEATURES

» *Multi-fuel, multi-INT/multi-domain in a single aircraft*

» *Engineered for extreme maritime conditions*

» *Fully autonomous precision landing*

» *13+ hr of endurance*

» *Up to 30 lb of multiple payload capacity*

» *Modular architecture supporting 3rd party payloads, radios & control options*

» *Beyond-line-of-site (BLOS)—multiple SATCOM options*

ADVANCED AI & AUTONOMY

PRECISION LAUNCH AND LAND

AI-enhanced precision landing on moving ships, even in high sea states, using predictive algorithms to adapt to deck motion

CONTESTED ENVIRONMENT CAPABILITIES

Integrates contested environment tech including configurable GNSS, AltNav solutions, and radio options

SPOTR-EDGE

Onboard detection, classification, tracking of key objects with AI overlays identifying and categorizing vessels

AeroVironment™