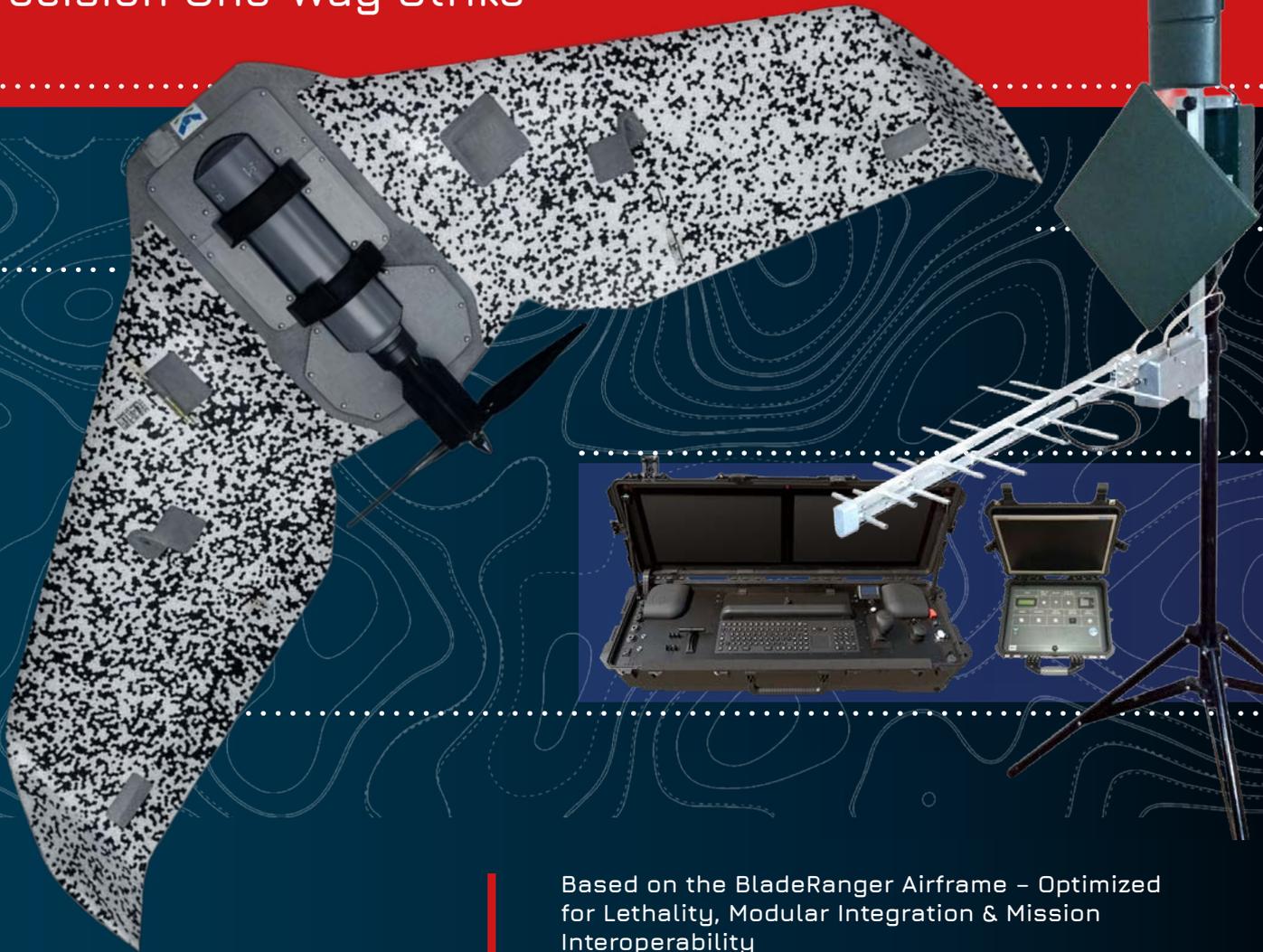




BladeStrike

Precision One-Way Strike



Features and Benefits

- Optimal performance-to-platform size ratio
- Advanced stealth design and materials
- Radar invisibility
- Mission radius of 30 km
- Battlefield proven EW Resistance
- Rugged for extended, reliable use in harsh environments
- Remotely piloted or autonomous

Based on the BladeRanger Airframe – Optimized for Lethality, Modular Integration & Mission Interoperability

The BladeStrike™ is a one-way precision strike drone built on the proven BladeRanger airframe, maintaining the same fuselage, avionics, and system architecture for full interoperability. The ISR gimbal is removed and replaced with a streamlined **forward targeting** camera, freeing internal volume for a **1.5 kg warhead** mounted along the upper fuselage centerline. This configuration preserves aerodynamic balance while converting the platform into a dedicated strike asset.

With the added payload, endurance is reduced from 120 minutes to roughly **60 minutes**, giving BladeStrike an effective one-way mission radius of **50–60 km**. Guidance is managed through a hybrid system combining **GNSS/GNSS-resistant navigation, mission-planning autonomy, visual AI scene matching, and automatic target lock** during the terminal phase. A real-time forward video link provides operator confirmation and overwatch.

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BladeStrike is launched through a **pneumatically assisted launcher**, using the same deployment equipment as BladeRanger. All key system components – including GCS, radios, antenna complexes, batteries, and mission-planning software – remain fully compatible, minimizing training and logistics requirements.

When used alongside BladeRanger, the two systems function as a unified ISR-strike package: BladeRanger performs long-range surveillance, target identification, and BDA, while BladeStrike executes precision one-way engagements. This creates a compact, efficient combination where ISR and kinetic effects operate concurrently under a shared control ecosystem.



Downlink imagery from EO camera



Targeting imagery from EO camera



SPECIFICATIONS

AIRCRAFT

- » 60 minute flight
- » 30 km Route Length
- » 65 km/h cruise speed
- » 115 km/h max speed
- » Operating altitude 200-600m
- » 10,000 ft flight ceiling
- » <10 dBA at 120 meter range
- » Not visible at 100 meters seen against terrain - small visual cross section in flight
- » Very low Radar cross section
- » Operational in 14 m/s wind @ takeoff
- » -20 to 49 ° C operational temp range
- » Redundant systems
- » Weatherized

PORTABILITY

- » Deployable within five minutes
- » Two person team
- » IP67 waterproof field case
- » Withstands 90 kg crush and 1m drop in case
- » 1 kg/ 2300 cm³ packed in field case
- » Watertight, dust-proof, dent-proof transport case, with hasps and foam-lined interior
- » 2 Man-portable including ground stations and antenna
- » Small HMI Footprint

CAMERAS

- » Digital (main) RunCam WiFiLink2 (Based on OpenIPC) IMX415, 60° lens, 1/2.8 sensor size

COMMUNICATIONS

- » One way digital video sys range > 35 km (video link)
- » Protected analog video signal
- » UHF pprf range radio > 500 mHz (telemetry)
- » Manual Flight path correction with video link and ArduPilot Mission Planner
- » Ardupilot Mission Planner with customized firmware

EW RESISTANT

- » Fully functional in GNSS denied space
- » MEMC (Motion Estimation, Motion Compensation) Inertial navigation system w/ double set of sensors, gyroscopes, barometers, magnetic compass
- » Visual navigation
- » GNSS w/ response to spoofing

SECURITY

- » 256-bit Advanced Encryption Standards (AES)
- » Propriety signal hopping
- » NDAA compliant
- » Sourced and built in USA

GROUND STATION

- » Up to 50m from the operator to the antenna
- » Remote control of attitude of antenna
- » Remote control of catapult
- » Proprietary video streaming application

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