



# BladeRanger

BATTLE-PROVEN ISR



## Features and Benefits

- Optimal performance-to-platform size ratio
- Advanced stealth design and materials
- Radar invisibility
- Persistent ISR at mission radius of 30 km
- Battlefield proven EW Resistance
- Rugged for extended, reliable use in harsh environments
- Remotely piloted or autonomous
- Proven to over 200 Combat Missions per Unit

BladeRanger – the class-leading, battle-tested ISR (Intelligence, Surveillance, and Reconnaissance) UAV designed to redefine tactical operations. With its stealthy, low-profile design and proven resilience in the field, BladeRanger delivers unmatched situational awareness and operational versatility. Engineered for rapid deployment and rugged performance, this UAV excels in high-stakes environments, providing high-resolution day/night imaging and EW-resistant navigation, even in GNSS-denied spaces.

BladeRanger's extended range, endurance, and covert acoustic profile make it an invaluable asset for reconnaissance, target acquisition, and secure intelligence gathering. Equipped with advanced sensors and built for seamless integration with NATO systems, BladeRanger empowers operators with real-time intelligence in the most challenging missions. Whether deployed for counter-insurgency, tactical security, or ISR support, BladeRanger stands as the elite choice for professionals who demand reliability, precision, and the power to stay one step ahead.

- » Small size, lightweight & hand-launched
- » Autonomous navigation & autoland
- » Rugged for extended, reliable use in harsh environments
- » Delivers realtime situational awareness
- » Increases combat effectiveness and force protection



## SPECIFICATIONS

### AIRCRAFT

- » 120 minute flight
- » 100-120 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 cm<sup>3</sup> 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

### SECURITY

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

### 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

### CAMERAS

- » Digital (main) RunCam WiFiLink2 (Based on OpenIPC) IMX415, 60° lens, 1/2.8 sensor size
- » Gyro stabilized main camera
- » Zoom : x4 digital, continuous zoom
- » Analog (frontal) camera CaddxFPV Ratel2, 165° lens, 0,0001LUX, 1200TVL, PAL / NTSC

### 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



Downlink imagery from EO camera



Targeting imagery from EO camera



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