

BLACK RECON

Advanced UAV Vehicle Reconnaissance System

APPLICATIONS

VEHICLE RECONNAISSANCE SYSTEM

REMOTE SENSOR DEPLOYMENT

DRONE AS FIRST RESPONDER

PERSONAL RECONNAISSANCE SYSTEM*



The Black Recon is a next-generation, rapid deployable Vehicle Reconnaissance System that equips units with the ability to remotely launch and recover UAVs from a protected position either inside a vehicle or a remotely located position.

With rapid deployment and high flight speeds the UAV has been developed to increase the flexibility, sensor coverage and operational tempo of maneuver units.

The Black Recon uses common interface standards to seamlessly integrate towards vehicle systems and weapon systems allowing automatic slew to cue and shared situational awareness in near real time.

Common software, controller and radio solutions allows for flexible use as a Personal Reconnaissance System in combination with the Black Hornet 4.

Fully integrated real-environment simulator using only system hardware, makes training easy and accessible for the operator without risk to the equipment.

FEATURES

AUTOMATIC LAUNCH AND RECOVERY

Launch Unit with robotic arm that automatically launches, recovers and stores up to 3 UAVs with automatic charging.

MULTIPLE UAVS

Fly up to 3 UAVs with automatic release and replace for continuous eyes on target or reconnaissance of multiple areas simultaneously.

LOW COGNITIVE DEMAND

Single operator with advanced autonomy for fully autonomous missions.

RADIO AND GNSS DENIED OPERATION

Superior resilience in contested environments ensuring operations on the modern battlefield.

MODULAR PAYLOAD

Modular Mission Module allows for approx. 100g of payload (Lethality, SIGINT, NCR++) for specific missions requiring flexibility.

OBJECT DETECTION AND TRACKING

On-board processing performing object detection independent of radio link.

SPECIFICATIONS

Launch Unit Specifications	
Number of UAVs	1 to 3
Launch and recovery	Launch < 30s Automatic, VTOL Recovery < 45s Automatic, VTOL
UAV Charging	Automatic, < 60 minutes ensuring continuous operation
Datalink	6 km, AES-256 Encryption
Beyond Line-Of-Sight (BLOS) capability	Yes. High penetration radio for short and medium range, and radio relaying for long range operation using an intermediary UAV.
Power Supply	28 VDC MIL-STD-1275E
Temperature tolerance	Operational: -40°C to +49°C Storage: -46°C to +71°C
Environmental qualification	MIL-STD-810H; Wheeled and tracked vehicle
Electro Magnetic Compatibility (EMC)	MIL-STD-461G Ground Army
Launch Unit size and weight	68 x 65 x 45 cm (27 x 26 x 18 in), < 85 kg (187 lb)
IP-Rating	IP-67 compliant, MIL-STD-810H immersion tested for amphibious capsizing
Integration and architecture support	NGVA, GbE, STANAG 4609, DEF STAN 00-82, COT, RAS-A (Mavlink)
UAV Specifications	
Ground Speed	Up to 25 m/s (46 knots)
Wind Performance	Steady 12 m/s (23 knots) Gust: 14 m/s (27 knots)
Rain tolerance	Moderate rain
Temperature tolerance	Operational: -21°C to +49°C Storage: -46°C to +71°C
IP-Rating	IP-54
Endurance	50-60 min
Service ceiling	3,600 m (12,000 ft)
Imaging payload	High resolution color and thermal imaging sensors. EO: 12MP Upward looking sensor EO: 50MP Wide angle camera TI: 3x 640x512p Thermal cameras
Extra payload	Mission Module approx. 100g (Lethality, SIGINT, NCR++)
GPS denied operation	Yes, day and night
EMCON and radio denied operation	Yes
Collision avoidance	Yes
UAV Weight	410 grams 510 grams MTOW

*Specifications are still under development and are subject to change.



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