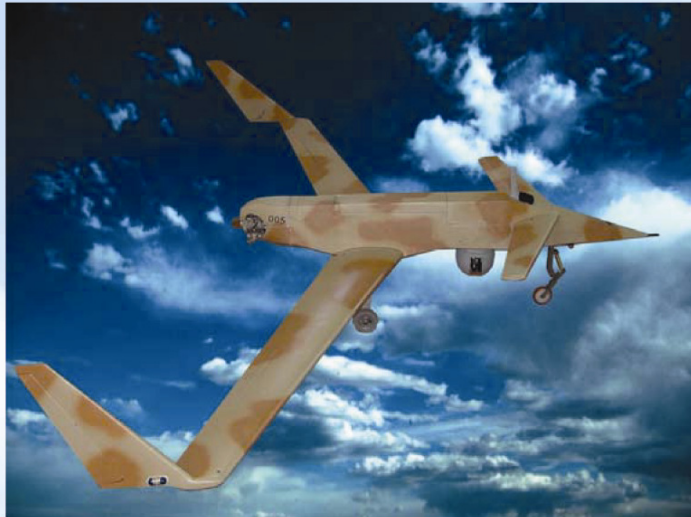


BLUE HORIZON UAV



Fully operational and affordably priced system for real-time capturing and reporting of intelligence data

Intelligence, surveillance and reconnaissance (ISR) missions include :

- intelligence gathering
- close support operations
- target acquisition
- artillery correction
- battlefield damage assessment

Main features :

- long flight endurance (>16 hours)
- advanced, lightweight, composite material airframe
- short ground take-off. Equipped with arresting hook for short landing
- can optionally be launched from catapult and retrieved by parachute
- maximum air vehicle performance with payloads up to 37 kg
- ample electric power to support operation of EO and other payloads
- short turn-around time. Assembly/disassembly requires only a 3-man crew
- transportation and operation of entire system on no more than 2 HMMWVs

Flight modes :

- external/internal pilot control
- knobs control
- fly to coordinates
- camera guide
- automatic holding patterns
- emergency mode (in case of link loss)

Redundancy :

- system is designed for redundancy to enhance survivability, increase safety and ensure mission success

Mobility & responsiveness :

- system designed for high mobility and rapid transportability
- deployment in remote sites in minimum time

PERFORMANCE AND SPECIFICATIONS

Wingspan	6.5 m	
Length	3.2 m	
Empty Weight	80 kg	Not including payload & fuel
Maximum Take-off Weight (MTOW)	150 kg	
Fuel Capacity	42 kg	
Available Payload Weight	37 kg	
Engine	WAE – 342	25 hp, 2 stroke engine
Electrical Generator Capacity	2 kW, 28 VDC	
Fuel Tank Capacity	60 litres	
Emergency Battery	4 A hr	Nickel-Cadmium
Take-Off Distance (at MTOW)	250 m	Up to 20 kts cross wind
Landing Distance	300 m	Up to 20 kts cross wind
Service Ceiling	18,000 ft	
Speed	55 – 130 KIAS	At 2000 ft altitude
Flight Endurance	> 16 hrs	70 KIAS, 5,000 ft. altitude
Maximum Velocity	130 KIAS	2,000 ft altitude
Stall Velocity	50 KIAS	2,000 ft altitude
Best Endurance Velocity	70 KIAS	2,000 ft altitude
Stall Margin (Take-off Config)	1.2	

