

DP-11 Bayonet

Vertical Lift with Fixed Wing Performance



Key Features

- Fixed wing speed, endurance, and range with vertical launch and recovery
- Laser designator
- Two man lift

Logistics

- System includes:
 - three air vehicles,
 - support equipment
 - one ground control station,
 - plug & play payloads, and
- System fits in one HMMWV or one V-22
- All components are two man portable
- Systems is stow-able below ship deck
- Heavy Fuel Engine (HFE) hybrid electric drive

Performance

- 112 knots dash
- 68 knots cruise speed
- 479 nm max range
- 20,000 ft max service ceiling
- 10,000 ft max take-off / landing altitude

Launch and Recovery

- Self-deployable
- Unprepared sites
- Small ship compatible
- Auto landing, auto takeoff
- No launcher or recovery equipment

Modular Payloads*

- Mini-SAR
- Mode 3C IFF
- Laser Designator
- Secure communication relay
- Modular plug and play payloads
- One System, ROVER and OSRVT
- EO/IR day and night –3 axis stabilized

PHYSICAL CHARACTERISTICS

Size	Length- 5.5 ft folded wings 9.9 ft unfolded wings Height- 7.3 ft Width- 1.3 ft
Rotor	Diameter: 3.9 ft
Weight	125 lbs gross weight
Payload	30 lbs for 9.3 hrs @ SL, Standard Day

The DP-11 Bayonet was developed by Dragonfly Pictures Inc. to provide the endurance, speed, and simplicity of a fixed wing with vertical take off and landing (VTOL). The DP-11 will provide persistent Intelligence, Surveillance, and Reconnaissance (ISR) support for tactical level maneuver decisions and unit level force defense/force protection for Naval ships and Marine Corps land forces. This system will support building the Recognized Maritime Picture, Maritime Security Operations, Maritime Interdiction Operations, and support of Naval units operating from sea/shore in the global war on terrorism.

(* Additional capability available in 2008)



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