Airborne Systems

FIREFLY®

Guided Precision Aerial Delivery System

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WHERE TECHNOLOGY »*TAKES FLIGHT*

FireFly®

GUIDED PRECISION AERIAL DELIVERY SYSTEM

The FireFly is a reusable GPAD system with the ability to glide up to 25 kilometers after being dropped.

Flight Algorithm

The FireFly guidance, navigation, and control software analyzes its environment in real time, adjusting the flight algorithm several times each second, resulting in greater accuracy and higher reliability.

Ease of Use

Simply place the system into operation by entering the location of IP and system GRW. Wind data is not required for operation. Just as a jumper under canopy continuously reads the winds and makes the required corrections, the FireFly makes continual corrections until the final flare to land.

Mission Planning

The Airborne Systems jTrax Mission Planner is also capable of running simulated missions using the included terrain mapping software. Simulating missions before an actual airdrop allows the aircrew to ensure surrounding terrain will have no effect on the mission.

Control Unit

The Remote Control Unit allows a user to remotely program the system and to monitor the status of systems while onboard the aircraft prior to drop. After the FireFly is dropped, the Remote Control Unit can be used to monitor the location and heading while in flight. If desired, an operator may override the Airborne Guidance Unit and fly the system manually.

Roadway Landing Algorithm

All Airborne Systems Precision Guided Systems have a default setting to perform an into the wind landing. This reduces the ground speed of the system and improves payload survivability. In situations where the user requires the system to land on a straight section of roadway, a ridgeline, or the long axis of a drop zone, the system can be programmed to land on a designated azimuth.

Specifications

Gross Rigged Weight	
Minimum	650 lb (294.8 kg)
Maximum	2,400 lb (1,089 kg)
Physical Characteristics	
System Weight	162 lb (73.5 kg)
Span	56 ft (17.1 m)
Surface Area	1,025 sq ft (95.2 m^2)
Chord	18 ft (5.5 m)
Cell Count	19

Altitudes	
Maximum Release (AMSL)	24,500 ft (7,468 m)
Maximum Release (AGL)	5,000 ft (1,524 m)
Max Glide	
L/D, No Wind	3.5:1

Completed 80% of drops within 150 m of the IP

Explore Airborne Systems' family of GPADS

FlyClops 2K | FC Mini | NanoFly | MicroFly | FireFly | DragonFly | RazorFly