

FIREFLY II®

Guided Precision Aerial Delivery System



AIRBORNE SYSTEMS NORTH AMERICA

sales@airborne-sys.com
airborne-sys.com

CALIFORNIA

3100 W. Segerstrom Avenue
Santa Ana, CA 92704, USA
Tel: +1.714.662.1400
Fax: +1.714.662.1586

NEW JERSEY

5800 North Magnolia Avenue
Pennsauken, NJ 08109, USA
Tel: +1.856.663.1275
Fax: +1.856.663.3028

WHERE TECHNOLOGY **»** TAKES FLIGHT

FireFly II[®]

GUIDED PRECISION AERIAL DELIVERY SYSTEM

The FireFly II is a reusable GPAD system with the ability to glide up to 25 kilometers after being dropped. It builds on the capabilities of the original FireFly, with the added feature of Rapid Descent Mode.

Ease of Use & Control Unit

- No Wind data required for operation - FireFly II makes continual corrections until the final flare to land
- Analyzes its environment in real time, adjusting the flight algorithm several times each second
- Remotely program the systems and monitor the status while onboard the aircraft prior to drop
- Monitor the location and heading while in flight
- Ability for operator to override the Airborne Guidance Unit and fly the system manually

Roadway Landing Algorithm

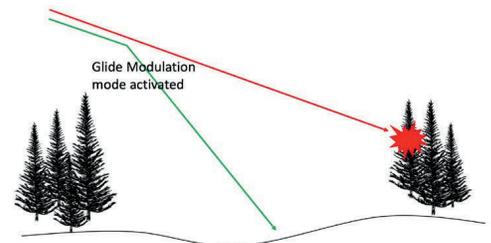
All Airborne Systems Precision Guided Systems have a default setting to perform an into the wind landing. This reduces the ground speed of the system and improves payload survivability. In situations where the user requires the system to land on a straight section of roadway, a ridgeline, or the long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

Vertical Descent Mode

FireFly II uses Vertical Descent Mode; a unique feature that can reduce the glide of the canopy from 3.25:1 to 1.5:1.

The three main concerns related to the use of GPADS are mitigated:

- The size of the safety footprint is reduced in most cases
- The landing is performed in an almost vertical flight, with urban drop zones in mind (square, compounds, stadiums)
- The survivability of payloads is increased as they are less likely to tumble upon landing



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)
Minimum Release (AGL)	5,000 ft (1,524 m)

Max Glide

L/D, No Wind	3.25:1
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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