MicroFly II®

Guided Precision Aerial Delivery System

MicroFly II® is an autonomous cargo delivery system that emphasizes ease of use and flexibility. By incorporating proven technology with innovative design, Airborne Systems has created a safe and reliable system that meets the needs of the modern warfighter.

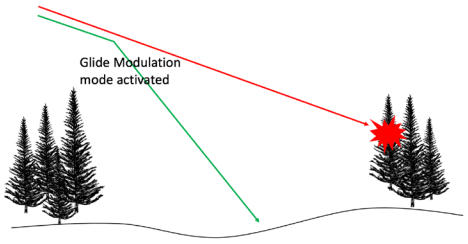
MicroFly II® is intended to fly autonomously to the IP (Impact Point) without external guidance. Should a user desire to fly the MicroFly II® manually, an optional remote controller is available which can guide multiple MicroFly II® systems simultaneously.

MicroFly II® can be used to accompany HALO/HAHO teams during insertion and can be used to supply elements on the ground.

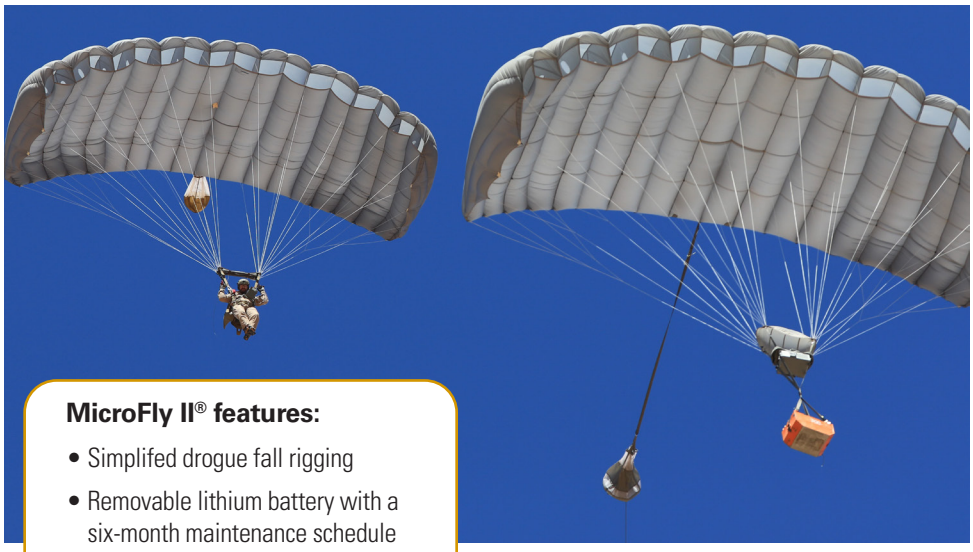
Rapid Descent Mode

Microfly II® uses a unique feature, called "rapid descent mode," that can reduce the the glide ratio of the canopy from 4:1 to 1.5:1. Thanks to this mode, 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



Landing on a tight DZ with Glide Modulation



MicroFly II® features:

- Simplifed drogue fall rigging
- Removable lithium battery with a six-month maintenance schedule
- Silent slider reducing noise of the system in flight
- Glide modulation
- Optional upgrade: waterproof to a depth of 3 feet for 30 minutes

A jumper following a MicroFly II® during a combo drop, both under Intruder® 360 canopies

Ease of Use

Packing and preparation of MicroFly II® takes no longer than the time to pack a conventional personnel parachute. Rigging of MicroFly II® to a bundle can be accomplished in 10 minutes and requires no pyrotechnic devices. Once rigged, the only data required to place MicroFly II® into operation is the location and elevation of the IP and payload Grossed Rigged Weight (GRW). MicroFly II® will autonomously land into the wind, and if desired, a landing azimuth can be entered for a landing along a linear feature such as a road or a mountain ridge.

Combo Drop

MicroFly II® uses the Intruder® 360 (RA-1) canopy and is a perfect tool to conduct Combo Drop operations, as it was designed as a Military Free Fall parachute. The lead jumper of the team can either manually control the MicroFly II® or allow the GPADS to navigate itself to pre-programmed coordinates using GPS. Thumb-controllers allow the controlling jumper to navigate the MicroFly II® while keeping the steering toggles of his canopy in hand.

Deployment Options

MicroFly II® is rigged in a drogue-fall (HALO) configuration. The HALO configuration allows maximum flexibility when there is a need to reduce the time over target is limited. The system can be programmed with a time delay or the above- ground-level altitude to deploy the main parachute. For HAHO operations the drogue delay time can be set to zero, and the main canopy will deploy immediately upon exit from the aircraft.

Roadway Landing

All Airborne Systems Precision Guided Systems have a default setting to perform an into-the-wind landing. This reduces the groundspeed 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.

Proven Performance

MicroFly II® Airborne Guidance Unit (AGU) leverages the maturity and reliability demonstrated with the MicroFly® and FireFly® AGUs.

To date, over 3,000 GPADS have been delivered to customers around the world. The Intruder® 360 (RA-1) canopy is type-classified in the U.S and in service in multiple other countries. MicroFly II® improves upon the legacy MicroFly® in a number of ways. The new AGU is 15-lbs lighter, has a simplified drogue fall rigging, a membrane keypad, and a removable lithium battery with a 6 month battery maintenance schedule. MicroFly II® also comes with a modified slider that does not flap which reduces the noise of the system while in flight.

MicroFly II® is a safe and effective platform which can improve a unit's mission capabilities without compromising safety or increasing training requirements. It is built on a foundation of proven technology which has been accepted by users worldwide. MicroFly II® is a robust system that offers full functionality and limitless potential but at the same time is simple to operate and maintain.

Specifications

Gross Rigged Weight	
Minimum	250 lb (113.4 kg)
Maximum	500 lb (226.8 kg)
Physical Characteristics	
System Weight	49 lb (22 kg)
Span	31.7 ft (9.7 m)
Surface Area	360 sq ft (33.4 m^2)
Chord	12 ft (3.7 m)
Cell Count	9
Release Altitudes	
Maximum (AMSL)	24,500 ft (7,467.6 m)
Minimum (AGL)	3,500 ft (1,066.8 m)
Max Glide Ratio, No Wind	4:1

Specifications — MicroFly II® Airborne Guidance Unit

Physical characteristics		
Size	17.5" x 12.5" x 5.5"	44.5 x 31.8 x 13.9 cm
Weight	27 lb	12.25 kg
Charge Time		
Zero to full charge	3 hours	
Deployment Method	Drogue-fall HALO or HAHO	

Specifications — Remote Guidance Unit

Physical characteristics		
Size	7" x 5" x 1.5"	18 x 12.5 x 3.8 cm
Weight	1 lb	0.45 kg
Battery	Standard AA size	
Functionality		
Display	Backlit / night vision goggle readable MicroFly II® location continuously updated	
Control	Remote Thumb-controllers	

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