

The MicroFly II® is an autonomous equipment 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.

The 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 is available which can control multiple MicroFly II® systems simultaneously. The MicroFly II® can be used to accompany HALO/HAHO teams during insertion and can be used to supply elements on the ground.

Ease of Use

Packing and preparation of the MicroFly II® takes no longer than the time to pack a conventional personnel parachute. Rigging of the MicroFly II® to a bundle can be accomplished in 10 minutes and requires no pyrotechnic devices. Once rigged, the only data required to place the MicroFly II® into operation is the location and elevation of the IP and payload Grossed Rigged Weight (GRW). The 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.

Flexibility

The MicroFly II® can be used with the MC-4, MC-5, and the Intruder® 360 (RA-1) canopies. With a development effort, additional canopies can also be qualified for use with the system.

Combo Drop

A combo drop is when personnel and a Guided Precision Aerial Delivery System (GPADS) with cargo exit the aircraft together. During a combo drop, the personnel and GPADS fly and land together at the intended impact point, with the lead jumper either manually controlling the systems or allowing the GPADS to navigate itself to pre-programmed coordinates using GPS. Combo drops allow cargo to be delivered



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

simultaneously with the jumpers, eliminating the jumper's need to directly carry it, or to search for unaccompanied cargo that was dropped.

The MicroFly II® will match the speed and rate of descent of a jumper under canopy. This allows the MicroFly II® to lead the unit to the IP while allowing the unit to remain in close contact with the MicroFly II®. Being in close proximity ensures that the unit will not become separated from its equipment and allows the MicroFly II® to be used as a pathfinder to the IP.

Deployment Options

The MicroFly II® is rigged in a drogue-fall (HALO) configuration. The HALO configuration allows maximum flexibility when 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.

Proven Performance

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

MicroFly II® features:

- 15 lbs lighter than MicroFly®
- Simplified drogue fall rigging
- Removable lithium battery with a six-month maintenance schedule
- Silent slider reducing noise of the system in flight (On Intruder® 360 canopy only)

AGUs. To date, over 3,000 AGUs have been delivered to customers around the world. The Intruder® 360 (RA-1), the MC-4, and the MC-5 are the most tested and accepted Military Free Fall canopies in the world. The 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. The MicroFly II® with an Intruder® 360 canopy also comes with a modified slider that does not flap which reduces the noise of the system while in flight.

The 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. The 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

MicroFly II®

Canopy	Intruder® 360 (RA-1)	MC-4 / MC-5
Gross Rigged Weight		
Minimum	250 lb (113.4 kg)	200 lb (90.7 kg)
Maximum	500 lb (226.8 kg)	500 lb (226.8 kg)
Physical Characteristics		
System Weight	49 lb (22 kg)	49 lb (22 kg)
Span	31.7 ft (9.7 m)	28.5 ft (8.68 m)
Surface Area	360 sq ft (33.4 m ²)	370 sq ft (34.4 m ²)
Chord	12 ft (3.7 m)	13 ft (3.96 m)
Cell Count	9	7
Release Altitudes		
Maximum (AMSL)	24,500 ft (7,467.6 m)	24,500 ft (7,467.6 m)
Minimum (AGL)	3,500 ft (1,066.8 m)	3,500ft (1,066.8 m)
Max Glide Ratio, No Wind	4:1	2.5:1



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	
Range (line of sight)	10 miles	

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