

# MICROFLY

## MICROFLY EQUIPMENT DELIVERY SYSTEM

The MicroFly is an autonomous equipment delivery system that emphasizes ease of use, flexibility, and low cost. By incorporating proven technology with innovative design, Airborne Systems has created a safe and reliable system that meets the needs of the modern war fighter.

The MicroFly is intended to fly autonomously to the IP (Impact Point) without external guidance. Should a user desire to fly the MicroFly manually, a remote is included which can control up to 10 MicroFly systems. The MicroFly can be used to accompany HALO / HAHO teams during insertion and can be used to resupply elements on the ground.



### Ease of Use:

Packing and preparation of the MicroFly takes no longer than the time to pack a conventional personnel parachute. Rigging of the MicroFly to a bundle can be accomplished in 10 minutes and requires no pyrotechnic devices. Once rigged, the only input data required for operation of the MicroFly is the location of the IP. If desired, a landing azimuth can be entered for a landing into the wind or along a linear feature such as a road.



MicroFly Rigged for Static Line Insertion

### Flexibility:

The MicroFly can be used with any canopy manufactured by Para-Flite, to include the MT-1X, MC-4, MC-5, MT-1Z, HG-380 (Hi Glide), and the new Intruder canopy. Although intended to be used primarily for static line HAHO insertions, the MicroFly can also be rigged for HALO missions.

### Low Cost:

The cost of the MicroFly is exceptionally appealing. The MicroFly with remote guidance capability is priced less than the cost of a conventional Military Free Fall system with Automatic Opening Device (AOD). This price includes the MicroFly canopy.

### Performance Matching:

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

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## Tandem Bundle Comparison:

When mission requirements demand additional equipment which cannot be carried by conventional means, the only current alternative is a tandem bundle parachute system. These systems require specialized equipment, additional training, and an increased requirement to maintain currency and proficiency. In addition, a tandem bundle jumper is at a disadvantage during insertion because the difference in canopy and wing loading result in a faster rate of descent and faster airspeed than other jumpers in the element. This means the jumper with the bundle may be alone when landing on the drop zone. In addition, in the event of a malfunction the tandem bundle jumper could jettison the bundle which would descend under a non-steerable round parachute. When this occurs the infiltrating element must either abandon its equipment or fly to an unplanned location to search for the bundle. Either scenario would result in significant changes to the planned mission.

Unlike a tandem bundle system, the MicroFly requires no specialized equipment, no additional training, and allows the unit to remain intact and in control of its equipment through the entire insertion phase of the operation.

## Proven Performance:

The MicroFly AGU (Autonomous Guidance Unit) is based on Airborne System's successful DragonFly 5 ton and FireFly 1 ton Joint Precision Aerial Delivery Systems (JPADS). The canopies for the MicroFly are the most accepted Military Free Fall canopies in the world. These factors combine to create a robust system with enough capability to meet any demand.

The MicroFly 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 is a robust system which offers full functionality and limitless potential but at the same time is simple to operate and maintain.



MicroFly and Insertion Element with Hi Glide HAHO Canopies

### MicroFly Autonomous Guidance Unit

Size: 16" X 10" X 5" (40cm X 25cm X 12,5cm)  
Weight: 30 lb (13,6 kg)  
Battery Life: 5 flights from 18,000 ft (5.500 m)  
Charge time: 45 minutes from zero charge to full charge  
Deployment Method: Static Line and Free Fall  
Software upgradeable and repairable through internet at any time via 802.11 wireless modem

### MicroFly Remote Guidance Unit

Size: 7" X 5" X 1.5" (18cm X 12,5cm X 3,8cm)  
Weight: 1 lb (0,45kg)  
Battery: Standard removable 9v  
Display: Backlit  
LCD Range: Line of sight  
Metric / English units selectable  
MicroFly location continuously updated and graphically depicted on screen

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