Airborne Systems

MICROFLY III®

Guided Precision Aerial Delivery System

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WHERE TECHNOLOGY »*TAKES FLIGHT*

MicroFly III®

GUIDED PRECISION AERIAL DELIVERY SYSTEM

MicroFly III is a reusable autonomous equipment delivery system intended to fly autonomously to the IP (impact point) without external guidance. The incorporation of Vertical Descent Mode (VDM) reduces the failure footprint, which allows for safer and easier mission planning.

Capability

- Able to fly autonomously or manually with an optional remote which can control multiple MicroFly III systems simultaneously
- Will match the speed and rate of descent of a jumper under canopy, allowing the MicroFly III to lead the unit to the IP while also remaining in close contact
- 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
- MicroFly III incorporates Vertical Descent Mode (VDM); reducing the glide of the canopy from 3.25:1 to 1.5:1

Ease of Use

- Same pack and preparation time as a conventional personnel parachute
- Can be rigged to a bundle in 10 minutes with no pyrotechnic devices
- Data required: location, elevation of the IP, and payload GRW

Deployment Options

- In a drogue-fall (HALO) configuration: allows maximum flexibility when time over target is limited
  - Main canopy deployment can be programmed with a time delay or the above-ground-level altitude
- For HAHO operations, the drogue delay time can be set to zero
  - Main canopy will deploy immediately upon exit from the aircraft

Canopy Options

- Intruder® 360 (RA-1)
- Intruder® 530

With a development effort, additional canopies can also be qualified for use with the system

Specifications

Canopy	Intruder 360 (RA-1)	Intruder 530
Gross Rigged Weight		
Minimum	250 lbs (113.4 kg)	360 lbs (163.3 kg)
Maximum	500 lbs (226.8 kg)	1000 lbs (453.6kg)
Physical Characteristics		
System Weight	61 lbs (27.7 kg)	65 lbs (29.5 kg)
Surface Area	360 sqft (33.4 m^2)	530 sqft (49 m^2)
Cell Count	9	9
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)	3,500 ft (1,066.8 m)
Max Glide Ratio, no wind	4:1	4:1

Airborne Guidance Unit

Size	17.5 x 12.5 x 5.5 in (44.5 x 31.8 x 13.9 cm)
Weight	27 lbs (12.25 kg)
Charge Time	3 hours

Remote Guidance Unit

Size	7 x 5 x 1.5 in (18 x 12.5 x 3.8 cm)
Weight	1 lb (0.45 kg)
Battery	Standard AA
Display	Backlit/night vision goggle readable Location continuously updated

Explore Airborne Systems' family of GPADS

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