

# 30K MegaFly

## Join Precision Aerial Delivery System

The 30K MegaFly is a fully autonomous GPS guided cargo delivery system capable of carrying payloads from 20,000lb (9.000 kg) to 30,000 lb (13.500 kg). The MegaFly is the world's largest ram air canopy and can carry the heaviest payload of any ram air canopy.

The 30K MegaFly canopy is a fully elliptical ram air parachute with a glide ratio of 3.75:1 for maximum offset capability. The MegaFly is fully qualified for maximum payloads up to 25,000 ft MSL.

### Modular Design for Packing and Maintenance

The modular canopy of the 30K MegaFly is made of five separate segments for ease of recovery. The recovery procedure for the 30K MegaFly consists of separating the canopy segments, slider segments, and packing frame segments from one another. Each of the five segments (including canopy, lines, slider, and packing frame) weighs less than a standard G-11 parachute (250 lbs / 110 kg). Despite the size of the 30K MegaFly, recover time for the complete system is less than 30 minutes with a standard Drop Zone recovery party.

Assembling and packing the MegaFly is equally straightforward. After each drop, the five systems are inspected, the system is reassembled and then packed. The MegaFly can be packed in 8 hours with three riggers and is pro-packed in a manner similar to all Airborne Systems canopies.

The MegaFly is extracted from an aircraft using standard airdrop equipment and is deployed as a conventional ram air canopy, without pyrotechnic cutters or timers. There are no consumables in the deployment sequence of the MegaFly.



### Guidance Unit Software

The 30K MegaFly can be flown with the US Army's Draper algorithm or with the standard Airborne Systems algorithm. The 30K MegaFly is compatible with the current US JPADS Mission Planner (JPADS MP).

The 30K MegaFly is configured with an 802.11 interface for wireless interface which enables remote health monitoring. This ensures maximum technical support can be provided to units deployed to isolated operational theaters.

*This data sheet is for information only and shall not form part of a contract*

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# 30K MegaFly



## Family of Systems

The 30K MegaFly is one of four JPADS platforms developed and manufactured by Airborne Systems. The MicroFly, 2K FireFly, 10K DragonFly, and 30K MegaFly systems are capable of delivering payloads from 100 lbs (45 kg) to 25,000 lb (11,300 kg). All operate with a common algorithm, user interface, and mission planner. The packing methodology for all systems is identical, so little additional training is required to qualify riggers on different systems.

All systems are compatible with the optional Remote Control Unit. The Remote Control Unit allows a user to continuously monitor the system onboard the aircraft and in flight to determine location and heading. If desired, an operator may override the Guidance Unit and fly the system manually.

The AGU interfaces on all systems are identical so one training session will qualify an operator on all Airborne Systems JPADS guidance units.

Airborne Guidance Unit Weight	360 lb ( kg)
Drive Motors	2
Power Supply	24 volt
Batteries	-40°F (-40°C) to +176°F (80°C) MIL-S-901C (Impact) MIL-S-167-1 (Vibration)
Display Screen	Liquid Crystal Display Certified to -40 deg F (-40 C) Night Vision Goggle Viewable
Installation and Removal of Canopy and Spool Covers	No tools required (Removable Packing Frame Shown)



Main Canopy Weight, Packed	900 lbs (410 kg)
Surface Area	9,000 ft <sup>2</sup> (90 m <sup>2</sup> )
Span	170 ft (52 m)
Chord	53 ft (16 m)
Chord Reduction Factor	0.82
Aspect Ratio	3.2:1
Cell Count	65
Opening Shock, Maximum	4.5 g's
Canopy Opening Time	3-6 sec
Canopy Opening Altitude Loss	500 – 1000 ft (150 m – 300 m)
Minimum Release Altitude	4000 ft (1220 m)
Max Glide, L/D, No Wind	3.75:1

