

Onyx ML

Precision Airdrop System



Onyx Micro Light (Onyx ML) is a JPADS Micro Light Weight (JPADS-MLW) system designed to meet the OSD's precision airdrop requirements for the Joint Medical Distance Support and Evacuation (JMDSE) Joint Capability Technology Demonstration (JCTD). The JMDSE program provides battlefield casualty care support with precision medical supply, telemedicine for battlefield reachback, and automated battlefield casualty support and evacuation systems.

Onyx ML is capable of delivering medical resupply and casualty support payloads, sensors, or robots weighing between 10 and 150 pounds from a variety of manned and unmanned platforms and systems.

Onyx ML is a fully-autonomous and low-cost system that is exceptionally easy to operate. The entire system can be packed, rigged, and programmed by one rigger in less than 30 minutes. One Harness/Container system and Airborne Guidance Unit (AGU) can be used with multiple canopy sizes. The system can be precision emplaced in a variety of environments such as mountainous, desert, or triple-canopy jungle regions. Onyx ML features a single-point swivel attachment that makes it compatible with the widest range of payload configurations, including spinning or asymmetrically-loaded cargo.

For more information, visit www.atair.com.

Specifications and Summary of Features

- Designed to fulfill requirements for the JPADS-MLW category.
- Payload: Up to 150 lbs.
- Canopy sizes: 50 ft² or 120 ft².
- Accuracy: Better than 50m CEP.
- Very “rigger-friendly”, designed by former U.S. Marine Corps military riggers. Onyx ML parachutes are packed identically as personnel parachutes.
- Rigging time: packed, rigged, and programmed by one military rigger in less than 30 minutes.
- Single-point swivel attachment system for widest range of payload configurations.
- Designed for dispatch up to 35,000 ft MSL with canopy opening up to 25,000 ft MSL.
- Deployable from fixed-wing and rotary aircraft at speeds up to 150 KIAS.
- Lightweight, rugged and compact system is one-person recoverable.



Onyx ML system with mock sensor payload



Onyx ML systems with 150-pound payloads landing at target site

For more information, visit www.atair.com.