

## SPADES 1000 Mk2 (2,200 lbs)

SPADES precision airdrop systems are designed for safe and accurate delivery of goods in support of military or humanitarian missions. SPADES 1000 is especially suitable for re-supply missions or direct support to tactical operations. The autonomous guidance unit (AGU) supports the full payload range of 100 to 1,000 kg (200 – 2,200 lbs) and can be equipped with 3 different weight-class parachutes, each providing the same high level of accuracy under all weather conditions. The system, with its unique box & frame concept, is designed for portability, ruggedness, and ease of operations and maintenance. For the user, this results in low life cycle costs, reduced time for training and rigging, and maximum operational effectiveness.

### Performance

- Payload range 100 - 1,000 kg (200 – 2,200 lbs)
- Accuracy better than 50m CEP
- Stand-off 25 – 40 km
- Supports drops from high altitudes (max 35.000 ft)
- Low landing shocks using flare
- Bare AGU weight: 34kg (76 lbs) incl. batteries

### Special Features

- *Airworthiness Type Certification* in progress
- Safe asymmetric parachute opening.
- User-friendly stand-alone SPADES Mission Planner for up to 15 simultaneous missions and 10 waypoints per mission.
- JPADS Mission Planner compatible
- Wireless or ethernet mission loading
- Commercial and/or Military GPS equipped
- Single point payload connection
- Choice from different pre-programmable landing strategies
- Real-time wind detection (no wind sondes needed)
- Flight S/W erase and Mil-GPS zeroize function (manually or automatic upon landing)
- Anti-dragging system after landing
- Separable AGU, battery pack, Mil-GPS and external protective frame
- Click-on battery packs, enabling last-minute exchange
- Mil-Std environmental conditions qualifications
- Ruggedized load-carrying external frame in different optional versions:  
Simple (low cost, disposable) frame for standard operations; or equipped with telemetry & remote control and/or mode S transponder for training and test.

### Operations

- Frame concept allows for complete (pre-)rigging of payload and parachute. AGU itself can be inserted or exchanged at the last minute (see right-hand picture)
- Single button operation, NVG compatible status information
- Basic input limited to target, waypoints and canopy identifier, adaptable until 10 minutes before drop.
- 1 minute payload, parafoil, AGU, Mil-GPS disassembly.
- Tool-less field disassembly into man-portable pieces
- Compatible with standard military riggings
- Supports use of multiple brand / type parachutes
- Modular design for easy access to all line replaceable units



### Contact

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