# Airborne Systems®

# Intruder Family of Systems

Designed to meet the requirements of military users, the Intruder® System is suited to fit a wide range of capabilities from novice to experienced parachutists allowing for an ease of use while bringing exceptional functionalities.

## Type Classified as RA-1

The Intruder® System is Type Classified by the U.S. Department of Defense and designated as RA-1. Compared with other military parachute systems, the RA-1 (Intruder®) provides superior glide performance, docile canopy handling characteristics, and greater weight carrying capability.

## Mission Specific Variations

Airborne Systems has incorporated the performance capabilities and features of the RA-1 into a number of variants designed to perform specific missions. Purpose built for military operations, the Intruder Family of Systems meets the latest demanding requirements of the warfighter.

## Family of Systems

Unless otherwise noted, all versions of the Intruder® Family of Systems are free fall and static line convertible, certified for use up to 25,000 ft Above Mean Sea Level, and have a greater than 4:1 glide ratio.

The Intruder® canopy design is common to all systems and provides a unique stall resistant capability that significantly reduces the potential for jumper injury on landing.

## Harness Container

The Intruder® Family of Systems uses a harness that has been developed to accommodate a wide anthropomorphic range (5% female to 95% male). The harness container incorporates a unique bio harness structure that evenly distributes the weight of the system across the jumper's shoulders, greatly improving the comfort and fit of the system. The RA-1 harness container is capable of accommodating all mission essential equipment.

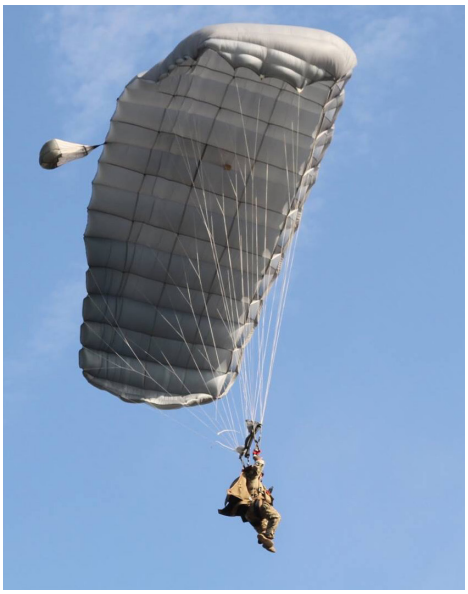
Standard features include equipment rings and weapon tie down points. Available options include radio pockets, oxygen pouches, and an ergonomic HAHO Seat. Main and reserve ripcord inspection windows are standard on the RA-1 harness container.

## Intruder® Canopy

The Intruder® canopy utilizes a reflexed airfoil section. This design feature provides superior glide performance and better handling characteristics. Toggle pressure is light and long control strokes make deep brake maneuvers and recovery smooth and easy. Pressurized stabilizers decrease drag and allow the canopy to fly silently.

## The Intruder® Family of Systems includes the following:

- **RA-1:** The U.S. Army Type Classified system in the fielded configuration.
- **RA-360:** RA-1 modified to meet individual customer requirements.
- **RA-360 W (With Water Main Canopy):** A variant of the RA-360 specifically tailored for water jumps. The system utilizes the RA-1 harness container, RA-1 reserve canopy, and a 360 sqft Intruder® canopy modified for water landings. This system can be operated in free fall, double bag static line (DBSL).



- **RA-300:** A scaled down commercial variant of the RA-1, with a 300 sqft main and reserve canopies. All features of the RA-1 are included in the RA-300.
- **RA-300 W:** A variant of the RA-300 specifically designed for water jumps. This system is available in free fall mode only (spring loaded or hand-deployed pilot chutes).

## Product Specifications

| | RA-1 | RA-360 | RA-MMS-360 | RA-360 W (with water main canopy) | RA-300 | RA-300 W |
|---|---|---|---|---|---|---|
| **Glide Ratio** | > 4:1 | > 4:1 | > 4:1 | > 4:1 | > 4:1 | > 4:1 |
| **Max Deployment Altitude** | 25,000 ft (7620 m) AMSL | 25,000 ft (7620 m) AMSL | 25,000 ft (7620 m) AMSL | 25,000 ft (7620 m) AMSL | 25,000 ft (7620 m) AMSL | 12,000 ft (3660 m) AMSL |
| **Min. Recommended Exit Altitude (Free Fall)** | 5,000 ft (1524 m) AGL | | | | | |
| **Min. Recommended Deployment Altitude (Free Fall)** | 3,500 ft (1067 m) AGL | | | | | |
| **Min. Recommended Deployment Altitude (DBSL Mode)** | 3,500 ft (1067 m) AGL | 3,500 ft (1067 m) AGL | 3,500 ft (1067 m) AGL | 3,500 ft (1067 m) AGL | 3,500 ft (1067 m) AGL | Not Applicable |
| **Canopy Area** | 360 $ft^2$ (33.4 $m^2$) | 360 $ft^2$ (33.4 $m^2$) | 360 $ft^2$ (33.4 $m^2$) | 360$ft^2$ (33.4 $m^2$) | 300 $ft^2$ (27.9 $m^2$) | 300 $ft^2$ (27.9 $m^2$) |
| **Max All Up Weight** | 450 lb (204 kg) | 450 lb (204 kg) | 450 lb (204 kg) | 450 lb (204 kg) | 360 lb (163 kg) | 360 lb (163 kg) |
| **Min. All Up Weight** | 167 lb (75.7 kg) | 167 lb (75.7 kg) | 167 lb (75.7 kg) | 167 lb (75.7 kg) | 141 lb (64 kg) | 141 lb (64 kg) |
| **Main Parachute Deployment Methods** | Spring Loaded Pilot Chute<br>Double Bag Static Line<br>Bottom of Container Throw Out Chute | Spring Loaded Pilot Chute<br>Double Bag Static Line<br>Bottom of Container Throw Out Chute | Spring Loaded Pilot Chute<br>Double Bag Static Line<br>Bottom of Container Throw Out Pilot Chute<br>Self-set Drogue<br>Hand-set Drogue<br>Static –Line operated Drogue with Release Away Static– Line (RASL-Drogue) | Spring Loaded Pilot Chute<br>Double Bag Static Line<br>Bottom of Container Throw Out Chute | Spring Loaded Pilot Chute<br>Double Bag Static Line<br>Bottom of Container Throw Out Chute | Spring Loaded Pilot Chute<br>Bottom of Container Throw Out Chute |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